

UG5/1/13

PREFACE

The University enjoyed peace and tranquility during the 1996/97 academic year as a result of which modest but remarkable achievements were made.

Communication on campus has improved considerably with the installation of equipment for the African Virtual University on top of the Bookshop. Courses began this second semester in differential equations, Organic Chemistry for pre-University (for nurses, laboratory technologists), the Internet, Statistics and Computer Science. The University also now enjoys full Internet connectivity, courtesy of generous funding from USAID. The Danish Embassy is also assisting the University to modernise its telecommunications and networking facilities.

A Cyber Cafe has also been located on top of the Bookshop to enable Senior Members and graduate students make full use of the Internet as well as E-mail facilities.

Negotiations to set up a Centre for Biotechnology with Danish financial support are also far advanced.

The University also recorded a slight increase in student enrolment with graduate admission representing about 14.8% of the total enrolment. We have intensified our efforts to mobilise funds for the Graduate Fellowships Scheme to motivate more of our bright students to pursue postgraduate work locally.

The Graduate Students' Hostel which was funded by Valco Trust Fund is now occupied and plans are underway to expand both academic and residential facilities for students in the years ahead with the support of Government, Alumni, friends of the University, the private sector and indeed all stakeholders. It is encouraging that some private estate developers have expressed interest in putting up hostels for students.

The University of Ghana is fifty years old this year and activities to mark the occasion will commence in the course of the year. You are all requested to participate fully in these activities which will be widely publicised.

It is hoped that this reputable institution will continue to enjoy the goodwill and support of all in the years ahead in the discharge of its functions of teaching, research and extension.

Ivan Addae-Mensah
Vice-Chancellor

Legon
March 21, 1998



*Professor Ivan Addae-Mensah
Msc (Ghana) PhD (Camb) FGA
Vice-Chancellor*

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FACULTY OF AGRICULTURE

Overview

Inadequate laboratory and classroom space and equipment continued to be a severe constraints on the Faculty's teaching and research functions.

Intake during the 1996/97 year was as follows:

Level 200

Agriculture	94
Home Science	27

National Diploma

General Agriculture	33
Post-Harvest	7
Engineering	7
Animal Health	5
Home Science	21

The Agricultural Development Bank donated 70 million cedis to assist with minor civil works in developing the Faculty's infrastructure. Part of this is being applied to the building of a cold store, chemical store, computer room and herbarium in the Department of Animal Science. The remainder is to be used to start a block of offices for Agricultural Economy and Farm Management, Engineering and Home Science Departments.

The Ghana Commercial Bank donated a 2,500 gallon water tank to help with sanitation in the students' toilet.

The Standard Chartered Bank also donated a 2,500 gallon water tank together with its supporting structures totalling 3.5 million cedis to help run the toilets in the Departments of Agricultural Economy and Farm Management, and Engineering.

Dr. S.S. Kyereme, resident in South Dakota, U.S.A., donated a number of books, two IBM Computers and a Printer, to the Department of Agricultural Economy and Farm Management.

The Ministry of Food and Agriculture donated the underlisted items to the Faculty:

- i. A computer 32 meg. RAM
- ii. Library Books worth over 50 million cedis.
- iii. Assorted audiovisual equipment were also received including extensive Slide Projectors, Overhead projectors, projector screens, etc.

The Ministry of Education donated assorted laboratory equipment for Soils, Crops and Animal Science Departments.

Research

The Faculty continued to play a major role in the country's agricultural research project (NARP). On-going national research into twelve agric commodities/factors featured prominently, attracting a total of 45 million cedis into the Faculty in 1996/97. In addition to this, the NARP Research Grants Scheme supported 22 projects to the tune of 70 million cedis.

Department of Agricultural Economy and Farm Management

The Department teaches courses in Agricultural Economics and Agricultural Administration. The programmes are offered jointly with other Departments. These programmes include the following:

- M.Phil. and Ph.D in Agricultural Economics
- M.A.A. and M.Phil. in Agricultural Administration
- Three-Year B.Sc. (Hons) degree in Agriculture with Specialization in Agricultural Economics.
- Two-Year Diploma in General Agriculture (NDA)
- Two-Year Diploma in Agricultural Engineering (NDAE)
- Two-Year Diploma in Post-Harvest Technology (NDPHT)
- Two-Year Diploma in Animal Health (NDAH)

Staff

Three members of the teaching staff were on leave of absence, sabbatical leave and study leave. The courses offered by the Department were taught by seven teaching staff; two of these were on post retirement contract.

Research

Amegashie, D.P.K.

(With J.A. Dadson). Employment and Income Generating Opportunities in the Lower Volta Basin. A Socio-Economic Component of the Lower Volta Environmental Impact Studies by Volta Basin Research Project. (On-going).
(With Four Others). Effects of Harvesting Management on Herbage and Seed Production in Stylosanthes Hamata in Ghana. (On-going).

- (With Ramatu Al-Hassan and G.T-M Kwadzo). Effects of the Changing Relativities of the Cedi and CFA on the Performance of the Cassava Sub-Sector in Ghana. (PRISAS/INSAH/MSU Research Project on Effects of CFA Devaluation: Diagnostic Phase)
- Andah, E.K. Efficiency and Economics of Raw Water in Ghana.
Evaluation of Afife Rice Project.
- Asante, V.O. Survey of Tomato and Cabbage Farming in Tono, Ve, Akomadan, Wejja and Dangme West. National Poverty Reduction Programme (On-going)
Time Profiles and Instabilities in Prices of Domestic Food Staples in Ghana.
(With K. Yerfi Fosu, Irene Egyir and M. Kofi Ocran). Domestic Exchange Rate Policy, Recent CFA Devaluation and the Beef Cattle Sub-Sector in Ghana (Diagnostic Phase). Report: PRISAS/INSAH/MSU Research Project on CFA Devaluation and Agriculture in Ghana, November, 1996.
- Baah, K. O. Situational Analysis of the Co-operative Sector in Ghana.
Review of the Production and Marketing Strategies of the Handicraft Sector in Ghana.
- Dadson, J.A. (With Wachiku Wangeri and A. Sey). Terminal Evaluation of PAMSCAD Project for Enhancing Opportunities for Women in Development (July/August, 1997).
(With A-Harrison and Others) National Action Plan for Poverty Reduction (October 1996-March 1997).
- Egyir, Irene S. (With K. Yerfi Fosu, V.Owusu Asante and M.Kofi Ocran). Domestic Exchange Rate Policy, Recent CFA Devaluation and the Beef Cattle Sub-sector in Ghana (Diagnostic Phase). PRISAS/INSAH/MSU Research Project on CFA Devaluation and Agriculture in Ghana, November, 1996.

(With W. E. T. Ellenbrock and G. T. M. Kwadzo) Smallholder's Arable Farming Systems on Vertisols and Vertic Clay Soils in Ghana. An ODA Study Report submitted to the Natural Resource Institute, Kent, United Kingdom, October 1997.

Intra-Household Access to Land and Sources of Inefficiency in Ghana. A Report Submitted to World Institute for Development

Economic Research as part of a Project - Land Reform Revisited, November 1997.

IPM Maize Health Management Project. Preliminary Findings of Socio-economic Survey. Department of Agricultural Economy and Farm Management, University of Ghana, Legon, November 1997.

Fosu, K. Yerfi

Macroeconomic Policies, Agriculture, Development and the Environment (On-going).

Economic Policy Reform and Agricultural Technology in Ghana (On-going).

Structural Adjustment Policies, Ghana's Agriculture and the Role of Donors.

Public Policy and the Livestock Sub-Sector in Ghana.

Time Series Properties of Bilateral and Multilateral Real Exchange Rates in Ghana.

(With Nico Heerink and M. Van der Lubbe). Public Extension Services Reform and Agricultural Production in Ghana.

(With Nico Heerink). Effects of Structural Adjustment Policies on Rural Services and Infrastructure.

(With Nico Heerink). Policy Reforms, Food Security and Nutrition: Theory and Implications for Policy Reform with a Case Study from Ghana.

(With Nico Heerink). Policy Reforms, Food Security and Nutrition: Theory and Implications for Policy Reform with a Case Study from Ghana.

Publications

Andah, E. K.

Review of Agricultural Policy Course. United Nations Institute of Development Economics and Planning. Dakar, Senegal, 1997.

Asante, V. O.

"Time Profiles and Instabilities in Prices of Domestic Food Staples in Ghana", Journal of Consumer Research (forthcoming)

from Macro-Level Time Series Data" (pp.153-85), in: Sustainable Food Security in West Africa. Kluwer Academic Publishers, Dordrecht and Boston, 1997
Foreword: Growth in Ghana: A Macroeconometric Model Simulation Integrating Agriculture, D.B. Sarpong. Ashgate, Aldershot, U.K. 1997.

Conferences/Seminars/Workshops

- Amegashie, D.P.K. (With J.A. Dadson). Developed a Farm Records and Accounting Manual for the Training of Trainers (Senior Officers), Ministry of Food and Agriculture, and Used it for Extension Staff Training (EST.1) held at Dawhenya, 13th Dec. 1996 - 24th Jan., 1997.
 Meeting of Moderating Committee for SSS Agricultural Economics and Extension Examination Questions, WAEC, Accra, 1997.
 Workshop on Policies and Options for Ghanaian Economic Development held at GIMPA on 5th August, 1997. Organised by ISSER (Rapporteur for the Services Development Working Group). 1997.
- Andah, E.K. National Workshop on Water Pricing and Management, Accra, Ghana, 1997.
 UNIDEP Experts' Meeting on Review of Agricultural Policy Course. Dakar, Senegal, 1997.
- Asante, V.O. Agricultural Research Impact Workshop for Anglophone West Africa, Accra, Ghana, September 22, to 26, 1997.
- Dadson, J.A. Conference on Equity and Research for Development, USAID, Accra, 5-7 Feb., 1997
 Workshop on Coastal Wetlands Management, Accra, Feb. 22, 1997.
 Conference on Equity and Research for Development in Africa, Dar-es-Salaam, Tanzania, sept. 1, 1997.
- Egyir, Irene S. National Workshop on Climate Change, Vulnerability and Adaptation Assessment. Netherlands Government Climate Change

Programme Organised by Environmental Protection Agency, Accra, September 4-5, 1997.

Fosu, K. Yerfi

International Conference: Global Knowledge 97, Toronto, Canada, 1997.

XIII Conference of the International Association of Agricultural Economists (IAAE), Sacramento, California, USA, 1997.

Conference of Ministers of Agriculture of West and Central Africa: Agricultural Policy Workshop, Saly-Portudal, Senegal, February 1997.

Regional Workshop on Economic Policy Reform and the Livestock Sub-Sector in West Africa, Yamoussoukro, Cote D' Ivoire, 1997.

The following travel and research awards were received by K. Yerfi Fosu:

PRISAS/INSAH/MSU/USAID Award, 1997.
Conference of Ministers of Agriculture of West and Central Africa Travel Award, 1997.

NATURA (Belgium) Travel Award, 1997.

MSU/USAID Travel Award, 1997.

Government of Canada/World Bank Travel Award, 1997.

International Association of Agricultural Economists (IAAE) Travel Award, 1997. Benefactions

Benefactions

Dr. S.S. Kyereme (South Carolina, USA) donated several books and two IBM Computers and a Printer to the Department. The Standard Chartered Bank through GAAS donated a water tank to the Department. The Department is grateful to these donors.

Department of Agricultural Engineering

Courses are offered jointly with other Departments in the following areas:

Graduate Degrees in

PhD (Soil & Water Engineering)

3-Year B.Sc. (Hons) degree in Agriculture

2-Year Diploma in:

General Agriculture (NDA)

Agriculture Engineering (NDAE)
Post-Harvest Technology

In addition to teaching, the staff are engaged in Research and Extension work as detailed below.

Staff

The staff situation during the year was as follows:

2	Senior Lecturers	(One on Leave of Absence and the other on Sabbatical Leave)
4	Lecturers	(Two on Study Leave)
4	Senior Staff	1 Chief Technician 2 Senior Technicians 1 Administrative Assistant
3	Junior Staff	

Research

Seidu, M	⊗	Sabbatical Leave
Mahama, A.A		Animal Traction Technology
Josiah, M.		Study Leave
Bani, R.J.	⊗	Leave of Absence
Kra, E.Y.		Study Leave
A-Mickson, S.		Soil & Water Management Studies

Publications

Mahama, A.A. & Seidu, J.M.		1994 - Energy Cost and the Environment in agriculture in Ghana/ <i>Journal of Energy Research and Technology</i> , National Science Tech. Press. CSIR. ACCRA. Vol. 6 Page 61 - 66.
Abenney-Mickson, S., Yomota, A and Miura, T.		1997 Water Balance of Field Plots Planted with Soybean and Pumpkin. <i>Transactions of the ASAE</i> Vol. 40 (4): 899-909.

Conferences/Workshops/Seminars

Mahama, A.A.		1997 The use of some tillage implements and Soil Degradation in Ghana/(Paper presented at the 15th Conference of the Soil Science Society of Ghana, 24 - 27 June) UST, Kumasi.
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Land and Water Management. Engineering Aspects of Land and Water Management with Emphasis on Mechanized Farming Systems. Workshop 16th February - 2nd March, 1997. D A N I D A . Kwadaso - Kumasi.

Abenney-Mickson, S.

1997 Conference of the Soil Science Society of Ghana, 24 - 27 June, UST - Kumasi.

Extension

Mahama, A.A.

Participation in the selection of National Best Farmer of 1997.

Department of Agricultural Extension

Courses

The Department continued to teach Agricultural Extension courses, which are core, to all students studying towards the award of the B.Sc. Degree in Agriculture and towards the award of the National Diploma Certificate in General Agriculture, Animal Health, Agricultural Mechanization, Post-Harvest Technology and Home Science. The Department also continued with its M.Phil. Programme. The various courses taught and the corresponding number of students who took them are presented below:

Diploma Year One

First Semester

Introduction to Extension
Rural Sociology

Number of students - 83

Second Semester

Extension Practical
Communication in Extension
Extension Teaching Methods

Diploma Year Two

First Semester

Rural Development
Extension Programme Planning

Number of students - 73

Second Semester

Extension Practical
Management & Organization
Programme Evaluation

Level 300

First Semester

Introduction to Extension
Rural Sociology

Second Semester

Communication in Extension
Extension Education & Training

Number of students - 61

Level 400

First Semester

Rural Development
Extension Programme Planning
Extension Teaching Methods

Second Semester

Ext. Education and Training
Ext. Programme Evaluation
Management & Organisation

Number of students - 37

M.Phil. Agricultural Extension

Rural Sociology
Communication in extension
Programme Planning
Research Methods
Extension Teaching Methods

Number of students - 5

A major setback to the teaching of the courses in the Department is the number of students that are handled for Extension Practical. The large number of students does not allow for the active participation of all students in the field activities. Transportation is also another problem since we always compete with other departments of the Faculty for the use of the only two buses available.

Staff

The staffing position of the Department improved over the previous year's. Below are the Senior Members of the Department:

Dr. J. K. Geker	Senior Lecturer (on contract)
Dr. F. Y. M. Fiadjoe	Lecturer
Mrs. Vicentia Canacoo	Lecturer
Dr. Owuraku Sakyi-Dawson	Lecturer
Dr. Paschal B. Atengdem	Lecturer
Mr. E. E. Aekah-Nyamike Jr.	Lecturer
Mr. Seth Dankyi Boateng	Lecturer

Owuraku Sakyi-Dawson and Paschal Atengdem successfully completed their Ph.D. programmes at the University of Reading during the year under review. Mr. Dankyi-Boateng joined the Department as a lecturer in the latter part of the second semester of the 1996/97 academic year.

Research

Two research projects - Improving Financial Services for Renewable Natural Resources and Implications of Equity in the Delivery of Extension Services - between our Department and the Department of Agricultural Extension and Rural Development of the University of Reading continued in earnest during the 1996/97 academic year.

Publications

Dr. Owuraku Sakyi-Dawson published a paper on rural household's access to financial services in South-East Ghana (1996). He was also one of the authors of a publication on financial services provision and financial service needs in the Ghanaian RNR sector.

Dr. Felix Y. M. Fiadjoe - Team Member

Joint IDA/GOG Implementation Assistance Mission, Dept. of Agric. Ext. Services, MOFA, Accra, March 11-26, 1997.

Team Member/Consultancy

Project Progress Review Mission: GTZ-Advisor to the Ministry of Food and Agriculture, May, 1997.

Commissioned Study (Felix Y. M. Fiadjoe - Team Leader)

National Agricultural Extension Project: Beneficiary Assessment of the Agricultural Extension Services, Dept. of Agric. Ext. Min. of Food and Agric. Accra. October 1997. (Fiadjoe, Felix Y. M., Ramatu Al-Hassan, Vincentia Canacoo)

Conferences/Seminars/Workshops

Senior Members of the department attended various conferences, seminars and workshops. Mr. Seth Dankyi Boateng attended the Ghana Science Association Conference from the 4th to 9th August and presented a joint paper with Dr. F. Y. M. Fiadjoe on the influence of human behaviour on the sustenance of the forest resource base.

Dr. J.K. Geker attended the Royal Agricultural Society of the Commonwealth Conference in Chester, England in June/July 1996.

Dr. Owuraku Sakyi Dawson attended an international seminar on Sustainable Rural Development in Sub-Saharan Africa from 21st to 25th July 1997 at KNUST, Kumasi. He presented a paper on Rural Households Access to financial services in Ghana; and the contribution of the informal sector to sustainable RNR Management in Ghana. Dr Sakyi Dawson was the Rapporteur General at Microfinance workshop organised by the Ministry of Finance from 24-25 November 1997.

Mr. E. E. Ackah-Nyamke Jnr. attended a project review workshop of the Ghana/Netherlands Artisanal Fish processing and applied research project and presented a paper on the contributions of the project towards the

reduction of post-harvest losses of fish. He was also a rapporteur at a Microfinance workshop organised by the Ministry of Finance from 24-25 November 1997 and one of the facilitators at the 1997 training programme of the Ghana-Netherlands Artisanal Fish processing and Applied research project held in August 1997. Mr. Ackah-Nyamke and Mr. Boateng attended a seminar on the Cashew Industry on 25th April, 1997 organised by the Human Resource Development Assistance Project in conjunction with AMEX International Inc.

Department of Animal Science

Overview

The Department, for lack of office accommodation, has converted its three short verandas into a Computer Room, a herbarium and a Chemical Store. In addition, a new cold room has been built to serve as the Meat Laboratory. All this was made possible by a cash donation from Agricultural Development Bank to the Faculty of Agriculture.

Water flow to the laboratories has improved a bit due to the erection of two overhead water tanks. The Department continues to have problems with transport at the right times to convey students out for practicals. The size of the Level 200 class makes it almost impossible to convey all of them at a go for a farm visit and have effective communication on the farm. The possibility of establishing a small livestock farm at the University Farm (near Botanical Gardens) should be revisited.

Courses

1. Undergraduate Courses
2. Postgraduate Courses
3. National Diploma in General Agriculture
4. National Diploma in Animal Health

M.Phil and Ph.D Programmes

1. Animal Breeding
2. Meat Science and Technology
3. Microbiology and Immunology
4. Nutrition
5. Physiology
6. Pasture and Range Management

Student Numbers

M.Phil I	6
M.Phil II	2
B.Sc. 400 Level	3
B.Sc. 300 Level	14
B.Sc. 200 Level	94
NDA (General) II	33
NDA (General) I	30
NDAH I	5
NDAH II	5

Staffing Position

Professor	1
Associate Professor	1
Senior Lecturers	6
Lecturer	1
Part-Time Lecturers	3
Chief Technician	1
Snr. Technician	1
Technicians	3
Senior Clerk	1
Clerk Grade I	1
Senior Headman	1
Messenger/Cleaner	1
Labourer	1

Research Activities

The Department continued to collaborate with the Department of Animal Production of Ministry of Food and Agriculture (MOFA) in research into swine and small ruminant production.

Ahunu B. K.	Population Studies of Cattle herd on the Accra Plains. Work Capacity of the Donkey.
Awotwi E. K.	Behavioural interaction of ewes and lambs during the perinatal period. Pre-parturient and Post-parturient behaviour in goats.
Barnes A. R.	A study of carcass composition of the grasscutter (<i>Thryonomys Swinderianus</i>) Livestock slaughter, inspection and abattoir/ slaughter slab operation. Intra-urban meat marketing in Ghana.

- Fleischer J.E. Studies into the performance of pig fed corn and cassava with either wheat bran or corn cobs.
A study of the effects of cutting interval and phosphate fertilizer application on DM yield and Nutritive Value of velvet bean (*Mucuna pruriens*).
On-farm introduction of cassava as energy source for pigs in Greater Accra Region of Ghana.
On-farm introduction of dry season feeding strategies for small ruminants in the Greater Accra Region of Ghana.
Dry matter yield and nutritive value of *Mucuna pruriens*.

Publications

- Ahunu, B.K. and Osei-Amponsah, R.O.
1996: The Influence of Terminal age of weighing on growth curve parameters in N'dama cattle. J. Appl. Anim. Res. 10:49-58.

- Ahunu, B.K., Arthur, P.F.
and Kissiedu, H.W.A.
1997: Genetics and phenotypic parameters for birth and weaning weights of pure bred and crossbred N'dama and West African Shorthorn cattle. In Press: Livestock Production Science.

- Kayang, B.B.; Bosompem K.M.; Assoku, R.K.G. and Awumbila, B.
(1997): Detection of *Trypanosoma brucei* T. Congolense and *Leishmania* infection cattle, sheep and goats using latex agglutination. International Journal for Parasitology. Vol. 27 No. 1 pp. 83-87.

Technical Reports

- Barnes, A.R.; Fleischer J.E., Ansah, R. and Etse, D.:
Carcass Profile of Ashanti Dwarf Pig (Indigenous Pig) July, 1997. A technical report on studies on Ghana's indigenous pig. Work was sponsored by MOFA and World Bank.

- Fleischer, J.E.; Barnes, A.R. and Aboagye, G.S.:
Ghana National Biodiversity Country Study: Domesticated Animals 1995. Sponsored by Ministry of Environment, Science and Technology.

Conferences/Seminars/Workshops

The Department hosted the 10th Ghana Society of Animal Production Conference from 13th to 16th August, 1997. Contributions from the Department in terms of papers delivered were as follows:

Fleischer, J.E., Barnes, A.R., Etse, D.B. and
Agyei-Henaku, K.A.:

Comparative Performance of Pigs fed corn and/or
cassava with either wheat bran or corn cobs.

Fleischer, J.E., Barnes, A.R.:

The state of pig production in the Greater Accra
Region.

Fleischer, J.E., Fianu, F.K.
and Addo-Kwafo, A.:

Seed germination in some browse plants native to
Ghana.

Other Activities

Dr. B. K. Ahunu was a member of the World Bank/MOFA Panel of Experts to review National Livestock Services projects of the MOFA in November 1996.

Department of Crop Science

Overview

The Department of Crop Science continues to fulfil its three functions, namely, Teaching, Research and Community Service or Extension.

Teaching

The Department runs programmes for students at Ph.D, M.Phil. and BSc levels as well as the National Diploma in General Agriculture and post-harvest Technology. Crop Science courses continue to attract most of the Final Year Agriculture Students.

Research

Most Senior Members continue to participate in the research programmes of the National Agricultural Research Project (NARP). The programmes involve

a wide range of crops including Plantain, Pineapple, Roots and Tubers, Legumes and Vegetables. In addition, all the staff continue to carry out their individual research.

Community Service/Extension

Most members are resource persons or serve on various boards of institutes and on committees outside the campus.

The problems facing the Department include the following:

- (a) Inadequate space for staff and increasing number of students,
- (b) Inadequate tools and equipment, especially microscopes and computers. The Department has two computers but these are not enough. The microscopes purchased by the Ministry of Education are not performing well because most of them are faulty.
- (c) Inadequate departmental transport: the only departmental vehicle released by the Dean in January 1996 is barely functioning and, being a second-hand vehicle that had previously broken-down, it has been rather expensive to maintain. One old vehicle is therefore not enough for the Department.
- (d) Unavailability of water: Inadequate water supply to the University Farm for dry season farming and also for students' projects is affecting work on the farm. With the construction of five block-tanks to store water, which flows mostly in the night, there has been some improvement in the water supply on the Farm. This is not enough. More tanks may need to be constructed. Also the recent NARP proposal to have water pumped from the Botanical Garden to the Farm is a welcome piece of news.

Courses

The courses offered at the diploma, undergraduate and postgraduate levels include both basic and applied courses in Crop Science. These are many, but with the course credit system adopted in the University, all these courses are coded, numbered and listed in various handbooks of the University and the Department.

Student Numbers

Student enrolment in the various programmes in the Department was as follows:

PhD.	8
M.Phil (Post M.Phil II)	15
M.Phil II	9
M.Phil I	7
BSc.400 Level	22
BSc.300 Level	57
BSc.200 Level	80
NDA II	33
NDPHT II	9

Staffing Position

Full-time academic staff comprise:

1 Associate Professor

4 Senior Lecturers

8 Lecturers, including one on leave of absence. Part-time staff comprise one Professor and two Lecturers.

Research**Crop Production Research**

Amoatey, C.A. (Mrs.)	Weed control on the University Farm. Cultivation of maize under minimum and zero tillage conditions.
Danquah, E.Y.	Morphological and molecular variation in cocoyam and tomato germplasm (NARP Project). Drought tolerance in local and improved cultivars of maize (NARP Project). Characterization of genetic resources of sorghum and groundnut.
Kumaga, F.K.	Phosphorous nutrition and inoculation responses of soybean and Bambara groundnuts. Bradyrhizobial populations as factors in the establishment of soybean.
Ofori, I.	Effect of sucker size, plant population and fertilizer rate on growth, yield and quality of pineapple. Characterization and yield evaluation of Bambara groundnut(NARP-funded research project).
Ofori-Anim, J.	Increasing the yield and quality of tomato by hormonal application and compost. Use of hormones to control sprouting of yam in storage.

Crop Protection Research

Ayertey, J.N.	The Larger Grain Borer problem in Africa.
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- Obeng-Olori, D. Phytochemicals against Storage and Vegetable pests
Assessment of damage by rice moth on stored cocoa beans.
- Oduro, K.A. Aetiology of disease of crops eg.Citrus Gummosis.
Postharvest diseases of root crops(yam, cocoyam)
Diseases of vegetables and ornamental plants.
Plantain Research-Sigatoka disease and Biological control of weevils using a fungus
- Ofei, S.K. Application of Molecular Techniques to studies on the coconut lethal yellowing disease
Molecular characterization of crop plants.

**Publications
In Refereed Journals**

- Ayertey, J.N. (1987-90) Book Review: "The Storage of Grains and Seeds" by Jean Appert. Ghana Journal, Agric. Sci. 20-23: 131-132. (Published in 1997).
- Blay, E.T., Danquah, E.Y. and Prakash, C.S 1997. Effect of five antibiotics on callus development and regeneration on some explants of *Garden-eggs (Solanum gilo)*. Ghana Journal of Science. (Accepted 24th February 1997).
- Tawfik, A.I., Vedrova A. Li. W and Obeng-Ofori, D. 1997. Haemolymph ecdysteroids and prothoracic glands in the solitary and gregarious adults of *Schistocera gregaria*. Journal of Insect Physiology 43(5):485 -493.
- Bekele, A.J., Obeng-Ofori, D. and Hassanali, A. 1997. Evaluation of *Ocimum kenyense* (Ayobangira) as a source of repellents, toxicants and protectants in storage against three major stored product insect pests. Journal of Applied Entomology 121(3) 169-173.

- Obeng-Ofori, D., Reichmuth Ch.
Jembere, B. and Hassanali, A. 1997 Biological effects of 1.8 cineole, a major component of essential oil of *Ocimum suave kenyense* against four major stored product beetles. *Journal of Applied Entomology* 121(3) 237-243.
- Obeng-Ofori, D. Reichmuth Ch.
Jembere, B. and Hassanali, A. 1997. Bioactivity of eugenol, a major component of essential oil of *Ocimum suave* (Wild) against four species of stored product Coleoptera. *International Journal of Pest Management* 43(1) 89-94.
- Appah, J., Oduro, K.A. and Dampney, H.B. 1997. Studies on Cassava Bacterial Blight: Isolation of *Xanthomonas manihotiss* and *Xanthomonas cassae* in Port Harcourt, Nigeria. *Ghana Journal of Science* Vol. 37 No.1 1997. (Accepted 20th January 1997). 1997. Reaction of Introduced yellow cassava to a cassava bacterial blight isolate in Port Harcourt, Nigeria. *Ghana Journal of Science* Vol.37 No.1. (Acceptance 20th January, 1997) B. *Papers presented at conferences*
- Vowotor, K.A., Boateng, B.A., Ayertey, J.N., Oussou, R.D. Meikle, W.G., Borgemeister, C., and Markham, R.H. 1997. Controlling the Larger Grain Borer *Prostephanus truncatus* (Horn) (Coleoptera: Bostrichidae) in maize. In: Proc. of a CTA/IAR/IIBC Seminar. Addis Ababa, Ethiopia, October 1995. p.219-231.
- Ayertey, J.N. (1996). Prospects for the control of the Larger Grain Borer (*Prostephanus truncatus* (Horn)) in Africa, using Integrated Pest Management Strategies. In Proceedings XX Int. Congr. Ent. Firenze, Italy, August 1996 p.537.

Ayertey, J.N., W. Meikle,
Borgemeister, C., Camara, M.
and Markham, R.H.

(1996). Studies on predation by
Teretriosoma nigrescens Lewis (Col.:Histe-
ridae) on *Prostephanus truncatus* (Horn (Col.:
Bostrichidae): Responses by *T.nigrescens* to
high or low infestation levels of *P. truncatus*
and *Sitophilus zeamais* Mots.
(Col.:Curculionidae) on maize 3rd Annual
Steering Committee Meeting: IITA
Collaborative Project on the Ecology and
Integrated Control of the Larger Grain Borer
Cotonou, Benin November, 1996.

Ayertey, J.N., Meikle, W.,
Borgemeister, C., Camara,
M and Markham, R.H.

(1997) Studies on the histerid
predator, *Teretriosoma nigrescens* Lewis
(Coleoptera: Histeridae) in single and mixed
populations of *Prostephanus truncatus* (Horn)
(Coleoptera: Bostrichidae) and *Sito-
philus zeamais* Mots. (Coleoptera: Curcul-
ionidae) on maize In: Insects in African
Economy and Environment. p94. Proceedings
of the Joint Congress of the Entomological
Society of Southern Africa (11th Congress) and
the African Association of Insect Scientists
(12th Congress) Stellenbosch, South Africa
June/July, 225p.

Ayertey, J.N.

(1997) The Pesticides Control and
Management Act 1996: Its implication for
Pesticide business in Ghana. Paper presented
at the 20th Biennial Conference, Ghana
Science Association, Kumasi, Ghana, August
1997.

Kumaga, F.K.

1997. Differences in response to phosphorus
among cowpea *Vigna unguiculata* (L) Walp)
cultivars. Book of Abstracts. The 20th GSA
Biennial Conference, 4th-9th August,
1997. p14.

Obeng-Ofori, D.

1997. Ghana-German co-operation in
Crop Protection, Socio-economics and
rural development. International Symposium
on Exchange of Scientists and Cooperation
with Developing Countries, 14th-17th April,
1997. Bad Honnef, Bonn Germany, Book of
Abstracts. p.87.

- Obeng-Ofori, D., Jembere, B., Hassanali, A. and Reichmuth Ch.
1997. Bioactivity of products derived from some indigenous plants against *Sitophilus zeamais* (Mots) and *Prostephanus truncatus* (Horn) in stored maize. Proceedings, Joint Congress of the Entomological Society of Southern Africa and the African Association of Insect Scientists, 30th June to 4th July 1997, Stellenbosh, Cape Town, South Africa 255 pp.
- Obeng-Ofori, D., Torto, B., Njagi, P.G.N. and Hassanali, A.
1997. Aggregation pheromone complex of the desert locust, *Schistocerca gregaria* (Forsk): Current status. 20th Biennial Conference of the Ghana Science Association, 4th-9th August, 1997. UST, Kumasi. Book of Abstracts p.31.
- Tagoe, S.M., Oduro, K.A., and Lamptey, P.N.
1997. Varietal reaction of some Oil palm tenera progenies to *Fusarium oxysporum* f. sp. *eaetidis* (FOFSE) Book of Abstracts. The 20th GSA Biennial Conference, UST, Kumasi. 4-9th August 1997. p16.
- Tsigbey, F.K., Oduro, K.A. and Lamptey, P.N.
1997. Isolation, identification and pathogenicity of *Mycosphaerella fijiensis* causing Black Sigatoka disease of local Plantain and tall banana in Ghana. Book of Abstracts. The 20th GSA Biennial Conference, UST, Kumasi. 4th-9th August, 1997 p.22.
- Assuah, M.K., Oduro, K.A. and Ofosu-Budu, K.G
1997. *Diploda natalensis* Pole Evans Causal agent of citrus Gummosis in Ghana. Book of Abstracts: The 20th GSA Biennial Conference, UST, Kumasi, 4th-9th August, 1997. p.1 (Late Abstract)
- Bodakpui, C.K., Oduro, K.A. and Afreh-Nuamah, K.
1997. Effect of the chemical Propiconazole (Tilt) and pruning on severity of Black Sigatoka and yield of plantain. Book of Abstracts. The 20th GSA Biennial Conference, UST, Kumasi, 4th-9th August 1997.

Cornelius, E.W and
Oduro, K.A.

1997. Storage diseases of White yam (*Dioscorea rotundata* Poir):causes, varietal susceptibility and control. Book of Abstracts.The 20th GSA Biennial Conference,UST, Kumasi 4th-9th August 1997.

Yankson, M F , Amponsah,
N.T. and Oduro, K.A.

1997.Ornamental plants and their problems at the University of Ghana, Legon. Book of Abstracts. The 20th GSA Biennial Conference,UST, Kumasi, 4th-9th August, 1997. p 6. (Late Abstracts)

Oforu-Anim, J.K.,
Asanuma and
Bayorbor, T.B.

1997.The effect of water stress on the chemical composition and assimilate distribution to soybean seeds at different nodal position. Book of Abstracts 20th Biennial Conference of the Ghana Science Association (20th B.C of GSA) UST,Kumasi,4th-9th August 1997.p.33.

Ahunu, B.K., Brew,
K.M. and Ofon, I.

1997.Training Manual in Research Techniques for Agricultural and Biological Scientist I & II NARP-T.S. CSIR,Accra.

Conferences Attended

Ayertey, J.N.

3rd Annual Steering Committee Meeting, IITA Collaborative Project on the Ecology and Integrated Control of the Larger Grain Borer, Cotonou, Benin November, 1996.
Joint Congress of the Entomological Society of Southern Africa (11th Congress) and the African Association of Insect Scientist 12th Congress, Stellenbosch, South Africa, June/ July 1997.
Workshop on Formation of a Task Force for preparatory work on the elements of the Accelerated Growth Strategy Document World Bank/MOFA, Akosombo.
20th Biennial Conference, Ghana Science Association (GSA) Kumasi, Ghana. August 1997.

Blay, E.T.

Workshop on Cashew Production, organised by Technoserve, Accra, Ghana. April, 1997.

- Danquah, E.Y. National Economic Forum, organised by National Development Planning Commission (NDPC) Accra, Ghana. September, 1997.
- Kumaga, F.K. Zonal Planning Session of the Research - Extension Linkage Committee, Akim Oda, Ghana.
- Obeng-Ofori, D. International Symposium on Exchange of Scientist and cooperation with Developing countries. Bonn, Germany. April, 1997.
Joint Congress of the Entomological Society of Southern Africa and the African Association of Insect Scientists, Stellenbosh, South Africa. August 1997.
20th Biennial Conference, GSA, Kumasi, Ghana - August, 1997.
Zonal Planning Session of the Research - Extension Linkage Committee, Nkwanta, Ghana.
- Oduro, K.A. Workshop on cashew production organised by Technoserve. Accra, Ghana April, 1997.
Zonal Planning Session of the Research - Extension Linkage Committee, Akim Oda, Ghana.
Opening Session of Training Course for Agricultural schools and farmers on pest and diseases of rice organised by FAO/ MOFA Asutuare, Ghana. July 1997. (Chaired the function)
20th Biennial Conference, GSA Kumasi, Ghana. August, 1997.
- Ofosu-Anim, 20th Biennial Conference GSA, Kumasi Ghana. August 1997.

Department of Home Science

Overview

The Home Science Department continues to emphasize the family as the focus of its teaching, learning and research activities. In the year under review the Department continued to expand in student numbers with no corresponding expansion in facilities. Office space for both lecturers and other

staff, lecture rooms and laboratory space remain our greatest challenges. Some of our lectures are held under a tree in front of Fidua, the Home Management House. The existing lecture rooms are over-crowded due to larger student numbers. Home Science is an area that requires practical classes in all the various courses and it is now virtually impossible for students to work adequately with the available laboratory space. There is an urgent need for space for both lecturers' offices and laboratories.

As a result of the larger classes, Fidua the management house has become grossly inadequate for Home Management Practicals (Live in Experience). The Department therefore needs a new Management House consisting of at least three bedrooms, but preferably five bedrooms with each room big enough to take 2-4 students.

The two departmental vehicles, a VW Combí bus and VW Golf are both old and need replacement. A 33 seater bus would be needed for conveying students to the villages for Extension Practicals and field trips.

The Department is currently engaged in a restructuring exercise to make the programme more relevant to the changing needs of families and the development needs of the country.

The number of lecturers at post increased from three (3) to seven (7) by the end of the 1996/97 academic year enabling the Department to offer more of its elective courses and easing the extreme pressure on lecturers. Arrangements were made to revive the M.Phil in Home Science Programme which had to be suspended due to lack of Lecturers. The water situation improved considerably with the purchase of two water tanks, one for the foods laboratory and the other for Fidua.

Courses

Courses were offered in the following programmes:

1. National Diploma in Home Science - 2 year programme.
2. B.Sc. in Home Science - 3 year programme.
3. M.Phil. in Home Science (still suspended for lack of lecturers).

Academic areas covered were Food and Nutrition, Clothing and Textiles, Family Resources Management (Home Management) Home Science Extension, Family Housing and Human Development and Child Studies.

Student Numbers

M.Phil Programme	1st year	
	Research Students	4
	Total	4
Bachelor Programme		
	Level 200	27
	Level 300	26
	Level 400	21
	Total	= 74

Diploma Programme		
	1st year	21
	2nd year	20
		41
	Total	= 119

Staffing Position

- 1 Professor (visiting scholar on Sabbatical)
- 5 Senior Members - (2 on contract and 1 on study leave)
- 3 Lecturers
- 4 National Service Persons
- 1 Senior Staff
- 6 Junior Staff

Ms. Edith Francois and Mrs. Nabilla Williams came back from their Sabbatical Leave and are currently on contract after retirement. Mrs. Clara Opare-Obisaw is still on study leave and Mrs. Joanna Nyarko is a part-time lecturer.

The Department urgently needs an administrative assistant or secretary to assist with the administration of the Department.

Research (on-going)

- | | |
|----------------------|--|
| Banini, S.K. | The impact of Textile Waste products on the environment. Identifying appropriate chemical and Methods of fixing local vegetable dyes. |
| O.-Danquah, Angelina | Gas Production Associated with the consumption of Legumes and Ways of Alleviating this Effect.
Food Hygiene Practices and Health Status of Students at Legon Campus.
Food Preferences of Foreign Students at the University of Ghana, Legon. |
| Fianu, Docea A.G. | Gender Roles in the Promotion of Traditional Ghanaian Textiles.
The Influence of Design and Cloth Names on Fabric Selection.
The Impact of the Economic Recovery Programme on the Family in Ghana. |
| Hevi-Yiboe, L.A.P. | Family Values in Contemporary Ghana.
The Attitude of University Students towards the extended Family System in Ghana.
The Plight of Street Children at Agbogboshie and Kaneshie Market Areas of Accra. |

- The effect of Women's Economic Activities on their roles as Wives and Mothers
The values of Migrants in Tema
Dog Chain Youth in Accra.
Contraceptive use among Teenagers and Adults in Kumasi.
Equipment owned and used by Ghanaian Homemakers.
Useful properties of the seeds of *Pachira insignis*.
- Nti, Christina Antwiwaa
IDRC/IITA Soybean Utilization Project
Ghana/Netherlands Artisanal Fish Project.
Maternal Nutrition and Health: Implications on Pregnancy outcome case studies at Dodowa and Legon.
Effect of Women's Workload on their Nutritional Status - Case of Madina and Boi.
- Wellington, H.N.A.
Housing Education in Ghana 1st Cycle Education Institutions.
Pilot Study of the Emerging Phenomenon of Sojourning (Living in Temporary Accommodation).

Research Papers in Press/Accepted for Publication.

- Fianu, Docea A.G.
Adams, Marian
The Effect of Sunlight on the Colour of Ghanaian Cotton Fabrics. (Journal of Consumer Studies and Home Economics).
- Hevi-Yiboe, L.A.P.
Family Planning and Rural Ghanaian Families. Factors that Influence the use of Family Planning services in Whuti - (The Home Scientist).
The Urban Ghanaian Women's Day. Time use study of families living at the University Staff Village. (The Home Scientist).
- Nti, Christina A.
Plahar, W.A., &
Annan, N.T.
Cultivator and Processing Effect on the Pasting Characteristics Tannin Content and Protein Content and Digestibility of Cowpea (Plant Foods for Human Nutrition).
- Plahar, W.A., Nti, C.A.
& Annan, M.T.
Effect of Soy Fortification Method on the Fermentation Characteristics and Nutritional Quality of Fermented Maize Meal Plant Foods for Human Nutrition)

Publications

- Banini, S.K. (1997) Impact of Light on Colour GHEA NEWS Vol. 1 No. 1, 7-8.
- Fianu, Docea A.G.
Harrison-Arthur, Grace (1994) The Perception of Ghanaian Consumers of Textiles and Clothing Labels. Journal of Consumer Studies and Home Economics U.K. Vol. 21, 97- 103.
- Hevi-Yiboe, L. A. P. 1997 "Be an Informed Consumer" GHEA NEWS. Vol. 1 No.1 2-3 April 1997.
Fifteen Steps to having a healthy Family. GHEA NEWS. Vol. 1 No.1, 3-4. April, 1997.
- Wellington, H.N.A. The Ashanti Black Ikons and Architecture in Ghana Means to Responsive African Architecture. Nairobi, Kenya, June, 1997. The Horizon DAT, Vol. 1; 62-68
Abrafo-Odumase: A Case- Study of Rural Communities Around the Kaku Conservation Area.
Accra. Cape Coast, and Washington D.C. (U.S.A.) October, 1997.
Facing the Storm. Five years of Research in and around Kakum National Park. Ghana - Kakum Conservation Area Research Colloquium. January. 9-12, 1996. Pages 143-147.

Conferences, Seminars, Workshops/Symposia

- Banini, S.K. i. December, 1996: National Workshop for Teachers and Producers of Textiles and Clothing.
ii. April, 1997: Ghana Home Economics Association Conference.
iii. November, 1997: National Workshop on the Management of Biopros-pecting.
- O.-Danquah Angelina Canadian Institute of Food Science and Technologists Annual Conference in Montreal, Canada in June, 1996.
- Fianu, Docea A.G. Ghana Home Economics Association (GHEA)/Canadian Home Economics Association (CHEA), Saskatoon Branch Partnership Project Workshop on "Training

of Trainers (TOT)" in the teaching of "Life Skills" at the J.S.S. Level. 5th- 12th January, 1997. Kumasi, Ghana
Responsibility: Co-ordinator of the Project:

UNDP/31st DWM Workshop on Women Entrepreneurship Development in Ghana". 14th - 17th April, 1997. Accra, Ghana.

Ghana Home Economics Association (GHEA) 32nd Annual Meeting and Launching of World Home Economics Day 24th - 27th April, 1997. Kumasi, Ghana.

GHEA/CHEA (Saskatoon Branch) Partnership Project Workshop for S.S.S. Home Economics teachers on "Needs Identification" of Home Economics Subjects 12th - 15th August. GNAT Hall Accra, Ghana.

GHEA/CHEA (Saskatoon Branch) Partnership Project Workshop on Inservice Training for Life Skills teachers at the J.S.S. level.

evi-Yiboe, L.A.P.

Ghana Home Economics Association (GHEA) and Canadian Home Economics Association (CHEA), Saskatoon Branch partnership Project Workshop on Training of Trainers (TOT) in the teaching of life skills at the JSS level. 5th - 12th January, 1997 at Kumasi, Ghana. Responsibility : Co-ordinator and project treasurer.

Two weeks workshop on Soya Bean Utilization and commercial production by women: Home Science Department, Legon - July 1997. (Assisted with the planning & execution.

GHEA/CHEA (Saskatoon Branch) Partnership Project Workshops - Needs Assessment Workshop for SSS Home Economics Teachers. 12th - 15th August, 1997.

GHEA/CHEA (Saskatoon Branch) Partnership Project In-service Training or Regional Workshops for J.S.S. teachers on the teaching of Life Skills. Ho, Volta Region 20th - 23rd August, 1997.

Nti, Christina Antwiwaa

Workshop organised by Ghana/Netherlands Artisanal Fish Processing and Applied research (AFPP) at Sogakope. 17th - 23rd November, 1996. Paper presented: Studies on Fish Consumption Patterns in the Southern Sector of Ghana and the quality of fish at Household level.

- Faculty Seminar at Tuskegee University, Tuskegee, Alabama, U.S.A., Paper presented: Sweet Potato Utilization in Ghana.

Benefactions

The Department received one Computer on the NARP Project from the Dean of Agriculture. We are most grateful.

Department of Soil Science

Overview

The major activities in the Department of Soil Science covered teaching and scientific research on problems relating to degradation, productivity, and maintenance of the soil resource base to ensure sustainable agricultural production. We also continued to advise both small-scale, resource-poor farmers and large-scale agricultural producers on biological, chemical, and physical aspects of soil fertility.

Courses

At the undergraduate level, we continued to offer courses in the following subjects: Soil formation and development, soil morphology, pedology, Soil mineralogy, Soil genesis and classification, physical properties of soil/plant environment, physical properties in relation to soil productivity, soil physics, Soil-plant-water relations Soil biochemical properties, Soil microbiology, Soil fertility and production, and Soil Chemistry and fertility. We also offered courses at the post-graduate level in the five broad Soil Science disciplines, (viz., Soil Physics, Soil Biochemistry, Soil Chemistry, Pedology, and Soil Microbiology).

Student numbers

Student numbers at the post-graduate level have increased from eight to twelve (50 per cent increase) with two students at the Ph.D and 10 at the M.Phil. levels. Student numbers at the undergraduate level are: NDA I (34), NDA II (5), B.Sc. Agric. Level 200 (93), B.Sc. Agric. Level 300 (70), and B.Sc. Agric. Level 400 (8).

Staff

We completed the annual programme with five out of eight established staff positions. In July 1997, Prof. K. B. Laryea joined the Department from the International Crops Research Institute for the Semi-Arid Tropics (ICRISAT), Hyderabad, India. Prof. A. O. Ogunkunle also joined the Department in October 1997 on sabbatical leave from the University of Ibadan. Dr. S.G.K. Adiku started an approved leave of absence on December 1, 1997. Dr. S. Dua Yentumi submitted his resignation effective June 1998. Prof. E. Owusu-Bennoah is on sabbatical leave and Mrs. Stella Assuming-Bempong is on study leave.

Research

The Department is currently undertaking a number of research projects spanning from basic to adaptive in finding solutions to seemingly intractable agricultural problems in Ghana. We are collaborating with the International Atomic Energy Agency (IAEA) on studies involving soil and biological factors that would enhance nodulation and nitrogen fixation in cowpeas, soybeans, mucuna, and some important multipurpose trees. In this regard, Dr. Angela Sessitch from IAEA visited the Department for three weeks to assist us in our work on molecular gene markers of rhizobia for ecological studies and also on the polymerase chain reaction technique for the analysis of DNA of rhizobia. The Department has initiated another collaborative research project with the Meteorology Department, Ministry of Communications on climate variability and crop growth in an attempt to develop predictive indices for rainfall and assess their effect on crop growth using the crop growth models CROPWAT and CERES. Other research areas include (a) the evaluation of soil quality under agroforestry systems, (b) water conservation strategies and fertilizer leaching under different tillage practices on an Alfisol, and (c) the phosphorus chemistry and its availability in Ghanaian soils. The latter study includes the use of different types of rock phosphates for direct application in the soil to increase crop yield. As a spin-off from our earlier collaborative research project on Vertisol management technology with the International Board for Soil Research and Management (IBSRAM), we are conducting research at the Agricultural Research Station, Kpong, on landform and fertilizer interaction on Vertisols (heavy black clays) which occupy a large area on the Accra-Ho-Keta Plains.

Publications

Scientific papers published by the staff of Soil Science Department during the period under review are:

- Ahenkorah, Y. 1997. Sustainable agriculture: Our hope for years to come. University of Ghana Inaugural Lecture. University of Ghana, Legon, Accra, Ghana, 53pp.
1997. Efficient utilization of the vertic soils of the Accra-Plains: Prospects, Constraints, and way forward. Ghana Academy of Arts and Sciences Inaugural Lecture, Ghana Academy of Arts and Sciences, Accra, Ghana 27 pp.
- Ahenkorah, Y., and Appiah M. R., (1996) Promoting food security through soil fertility management in food and non-food crops. Workshop National Soil Fertility Action Plan. Cape Coast University 2-5th July, 1996.
- Nartey, Dowuona, G.N.N., Ahenkorah, Y., and Mermut-Tiessen 1997. Quantitative evaluation of nutrient mobility in two Plinthic Lixisols of Interior Savanna Zone of Ghana. Soil Science Society of Ghana Journal, (In Press).
- Adiku, S.G.K., Braddock, R.D., and Rose, C.W. 1996. Modelling the effect of varying soil water on the root growth dynamics of annual crops. Plant and Soil 185: 125-135.
1996. Simulating root growth dynamics. Environmental Software, Special issue, 11:99-103.
- Adiku, S.G.K., Dayananda, P.W.A., Rose, C.W., and Dowuona, G.N.N. 1997. An analysis of the within-season rainfall characteristics and simulation of the daily rainfall in two savanna zones of Ghana. Agriculture and Forest Meteorology, 86:51-62.
- Laryea, K. B. Pathak, P., and Katyal, J.C. (eds.) 1997 Measuring soil process in agricultural research. Technical Manual no. 3. (In En. Abstracts in En, Fr.). Patancheru 502 324, Andhra Pradesh, India: International Crops Research Institute for

- the Semi-Arid Tropics; and Hyderabad 500 659, Andhra Pradesh, India: Central Research Institute for Dryland Agriculture. 100 pp. ISBN 92- 9066-359-6
- Amatekpor, J.K., 1997. Lithologic discontinuities in the Quaternary-Tertiary deposits in the Volta Lake drawdown area and their influence on pedogenesis. *Ghana Journal of Science* (Accepted for publication). 1997. The effects of the Volta dam on the properties of two soil series in the lower Volta floodplain, Ghana. *Ghana Journal of Agric. Science* (Accepted for publication). 1997. Soils and Land-Use in the Lower Volta Mangrove Project area. Paper presented at the National Seminar on the Lower Volta Mangrove Project Area, Novotel, Accra, Nov. 20, 1997.
- Kufogbe, S.K. and Amatekpor J.K., 1997. Remote sensing evaluation of land-use/cover change in the Sakumo coastal wetland in the Greater Accra Metropolitan area. *Bulletin of the Ghana Geographical Association Vol.20* (In press).
- Awonake, K.O., Danso, S.K.A. and Zapata, F., 1996. Nitrogen Fixation in *L. Leucocephala* L., as affected by rooting volume and competition with *E. amaldulensis* *Agroforestry Systems* 33: 195-203.
- Amaral, D.S., Sanginga, N., Danso, S.K.A. and Suale, D., 1996. Nitrogen contribution by multipurpose trees torice and cowpea in an alley cropping system in Sierra Leone. *Agroforestry Systems* 34: 1-10.
- Gueye, M., Ndoye, I., Dianda, M., Danso, S.K.A., and Dreyfus, B., 1997. Active N₂ fixation in several *Faidherbia albida* provenances. *And Soil Res. And Rehab.* 11: 63-70.
- Mermut, A.R., Dasog, G.S., and Dowuona, G.N.N., - 1996. Soil Morphology. P.89- 114. In: N. Ahmad and A. R. Mermut (Editors) *Vertisols and Technologies for their Management Developments in Soil Science*, Vol. 24, Elsevier, Amsterdam.

Dowuona, G.N.N.,
Mermut, A.R., Adiku,
S.G.K., Nartey, E.,
and Tete-Mensah, I.,

1997. Improvements in the quality of Soils under Agroforestry Practice in Ghana. Regional Workshop on Soil Fertility Management in West African Land Use Systems, Niamey, Niger, 4-8th March, 1997.

Conferences/Seminars/Workshops

The following scientific papers were presented by staff in Soil Science Department at conferences and seminars during the year under review:

Ahenkorah, Y.

1997. Large marine ecosystem land-based pollution prevention and abatement: The industrial waste stock exchange management system option. Presented at MEST-UNDP/UNIDO Round Table Conference at Accra, Ghana, 10-11 June, 1997, 19 pp.

Adiku, S.K.G.,
Giesen, van de,
Dowuona, G.N.N.

1997. Modelling the daily rainfall in West Africa. Proceedings of the Workshop on Climate Variability Prediction, Water Resources and Agricultural Productivity: Food Security Issues in Sub-Saharan Africa. Cotonou, Benin, 22-25 July 1997. (In Press).

Abekoe, M.K.

1997. Lateritic nodules and their contributions to fertility of soils in a catena in Northern Ghana. Proceedings of the 15th Annual General Meeting of the Soil Science Society of Ghana, held at the Kwame Nkrumah University of Science and Technology on 24-27 June 1997, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana. (In Press).

Benefactions

The Department provided services/advice to Twifo Oil Palm Plantations (TOPP) and the Japan International Cooperation Agency (JICA).

Agricultural Research Station, Legon

Overview

The Agricultural Research Station, Legon is one of three Research Stations of the Faculty of Agriculture. It is essentially a livestock station and it maintains herds of cattle, pigs, donkeys, and flocks of sheep, goats and poultry for teaching, research and commercial purposes.

The Station continued to play an important role in popularising Animal Traction Technology through courses, training and supply of donkeys and bullocks together with carts and other implements. The Leventis Foundation Farmers' Training Programme (LFFTP) continued to attract a lot of interest; applications to the programme far exceed the places available.

The absence of pipe-borne water and a good vehicle for mass transport of workers and their dependants continued to top the list of the Station's problems.

Courses/Practical Training

Research Officers at the Station participated fully in the academic activities of the Animal Science Department by way of lecturing and supervision of student research projects.

The Station organised courses in Animal Traction for beginners and trainers. The Leventis Foundation Farmers' Training Programme took in the eighth batch of students for a ten-month residential course in practical agriculture. The trainee programme for short-term attachments at livestock units of interest continued for those not interested in the 10-month residential Leventis programme.

The Station also provided facilities for practical classes for the different levels of animal science courses offered in the Faculty of Agriculture. Post level 200 B.Sc Agric students were in residence during the long vacation for their farm experience. Students from the various agricultural colleges around the country were taken in residence for short-term practical attachments. The Station continued to be a popular destination for excursions by JSS and SSS agricultural science students.

Staff

Two research officers- Drs. K. Amaning-Kwarteng and E.A. Canacoo- were at post during the year under review. Dr. A. Naazie was on leave of absence at the International Livestock Research Institute (ILRI), Ibadan, Nigeria. The nominal roll for 1997 stood at 92. Messrs S.K. Opata and Tetteh Kodjo retired after 39 and 35 years' service respectively.

Research

Research Officers of the Station were involved in collaborative research and extension projects with sister Stations, Research Institutes as well as the Animal Production Department of the Ministry of Agriculture. Some of the projects started or continued during the year include:

- Growth and body conformation of donkeys
- Effect of age at first mating on productivity of sheep
- Prevalence and distribution of *Toxoplasma gondii* ruminants and pigs
- Supplementary feeding of corn husk with urea and molasses to sheep
- Evaluation of improved grass-legume pastures using bullocks
- Dry matter yield of mucuna forage and its effect on intake and utilisation by sheep
- A proposal to test the preparation and use of compost by small holder vegetable growers on the Accra Plains.

Publications

Amaning-Kwarteng, K
and Attrams, K.A.

(1997). The composition and *in vitro* digestibility of some feeds eaten by ruminants in the coastal savannah of Ghana. Proceedings of Ghana Society of Animal Production conference, 13- 16 August, 1997, University of Ghana, Legon. (In press).

Fleischer, J.E., Sottie, E.T.
and **Amaning-Kwarteng K.**

(1997) Evaluation of some native browse and shrub species as supplementary feed resource for small ruminants in Ghana. *The African Feed Resources Network Newsletter* 6(3): 8-11.

Canacoo E.A. and
Avorny F.K.

(1997) Daytime activities of donkeys at range in the coastal savanna of Ghana. *Applied Animal Behaviour Science* (in press).

Canacoo E.A.

(1997) Utilisation of donkeys in southern Ghana. In *Improving donkey utilisation and management*. Proceedings of an International Workshop, Debre-Zeit, Ethiopia, 5-9 May 1997 (in press).

Conferences/Workshops

Amaning-Kwarteng, K

Ghana Society of Animal Production
Conference, University of Ghana, Legon.
13-16 August, 1997.

Canacoo, E.A.

Workshop on vitamins and minerals in
animal feed. Golden Tulip Hotel, Accra, 19
February, 1997. Organised by Mandav (Gh)
Ltd and F. Hoffman La Roche, Basel,
Switzerland.

International workshop on improving
donkey utilisation and management,
Debre-Zeit, Ethiopia, 5-9 May, 1997. **Paper
read:** Utilisation of donkeys in southern
Ghana.

Ghana Society of Animal Production
Conference, University of Ghana, Legon. 13-
16 August, 1997.

Agricultural Research Station Kade

Administration

Dr. J.K. Osei's tenure of office as Head of Station ended on 30th September, 1997 and Prof. K. Afreh-Nuamah took over with effect from 12th November, 1997.

Staffing Position

As at 30th November, 1997 the number of staff on the nominal roll of the Station including Senior Members, Senior Staff and Junior Staff was 168. Three of our staff retired, including two who had worked for 40 and 37 years with the University. One person died within the period. The Station requires additional staff of four (4) for replacement, including two (2) Senior Members.

Senior Members of the Station continued to give lectures to students of the Faculty of Agriculture in their various disciplines of specialization, during the period under review.

Prof. K. Afreh-Nuamah was awarded the 1997 USAID African IPM Fellowship. The award which was for 3 months took him on a lecture tour through selected countries in Africa, Europe and the U.S.A. Prof. Afreh-Nuamah was appointed National Integrated Pest Management (IPM) Co-ordinator by the Ministry of Food and Agriculture in March 1997. Prof. K. Afreh-Nuamah was appointed Project Co-ordinator of the UNDP/National Poverty Reduction Programme - IPM/FFS in September 1997.

Research Projects

The following NARP-sponsored Research Projects are on-going at the Station:

Citrus

Title of Project	Project Leader
Development of virus free citrus clones - Citrus Museum Rehabilitation	J.K. Osei K.G. Ofosu-Budu
Citrus fertilization	K.G. Ofosu-Budu
Intercropping of citrus with food crops	K.G. Ofosu-Budu
Management strategies against the Mediterranean fruit flies	Afreh-Nuamah

Plantain

Maize-Plantain-Cassava relay cropping system (on-form)

J.K. Osei

Title of Project

Project Leader

Rapid field multiplication of plantain with Cytokinin and Auxin

J.K. Osei with M.Sc. students
Andoh Mensah
and Samuel Nyamekye

Collection, characterization, evaluation of local plantain and banana land races for resistance to Black Sigatoka and BSV.

J. K. Osei,
E.K.S. Ahiekpor,
K.A. Oduro and
S. Offei

Musa Delivery Project in Ghana funded by Gatsby Charitable Foundation and MOFA

E.K.S. Ahiekpor

Cocoyam

Effect of macro elements on the yield of cocoyam (*Xanthosoma sagittifolium*)

Ofosu-Budu and
E. Dennis (SRI)

Cassava

Macro and Micro element requirements of a new gamma radiation induced cassava mutant Ankoma (UST) and K.G. Ofosu-Budu

Other on-going Research Projects at the Station

Assessment and control of plantain nematodes and weevils (IITA sponsored project)	Afreh-Nuamah
Resistance of plantain and banana cultivars to banana weevil	Afreh-Nuamah and Alphonse (student)
Multiple branching to control cocoa tree height	J.K. Osei
Fertilizer requirement of oil palm	E.K.S. Ahiekpor
Evaluation of IITA-bred and local plantain cultivars	E.K.S. Ahiekpor
Effect of age on maturing of sheep on productivity	A. Ampomah, Awotwe, and Canacoo
Studies on Neem Seed Extract on insect growth and yield of major vegetable at two fertility regimes.	Afreh-Nuamah Ofosu-Budu, Obeng Ofori and Owusu Ansah (student)

Conference/Seminars/Workshops

Afreh-Nuamah, K. (1996) The status of IPM in Ghana. Proceedings of Workshop on IPM - Networking in Sub-Saharan African. pp 37-48. Addis Ababa, Ethiopia 14-16 October, 1996.

Afreh-Nuamah, K.; Mboob, S.; Korang Amoako, S.; Dixon, G.A. and Poku, J.A.

(1996) Institutional Innovations in Integrated Pest Management (IPM) Technology Transfer and adaption: Farmers' Field Schools in Ghana. Paper presented at the 1st International Conference on Banana and Plantain in Africa, Kampala, Uganda, 13-18 October, 1996.

- Afreh-Nuamah, K.; Mboob, S.; Korang Amoako, S.; and Dixon, G. (1996) IPM FFS in Ghana. Workshop on Technology Transfer and Commercialization in Africa. Accra Conference Centre, Accra, Ghana. 4th - 7th November, 1996.
- Afreh-Nuamah, K. (1996) Participatory IPM training - Ghanaian experience. Paper presented at the All African Crop Science Congress, University of Pretoria, South Africa. 12th - 17th January, 1997.
 (1997) IPM training methodology - the Ghanaian experience. A regional training of trainers workshop on Institutional reform for sustainable natural resource management. Sponsored by Economic Development Institute (EDI) of the World Bank and ISSER of the University of Ghana, Akosombo, Ghana. February 25 - March 1, 1997.
- Afreh-Nuamah, K. and Mboob, S. (1997) Adaption of the Integrated Pest Management of Extension Staff and Farmers in Ghana. Prospects and Constraints. Paper presented at Workshop on Striga Control in Ghana, Sogakope. 6th - 9th October, 1997.
- Ahiekpor, E.K.S. International Conference on Banana and Plantain for Africa, Kampala, Uganda. 12th - 19th October, 1996. Course on Diagnostics for Banana Streak Virus (BSV) at IITA (Onne and Ibadan) Nigeria, 31st August -10th September, 1997.
- Ofosu-Budu, K.G. Training course on Agricultural Research Techniques for Scientists. CSIR Secretariat, Accra. 20th - 31st October, 1997.

Publications

Ortiz, R.; Vuyisteke, D., Hemeng, O.B.; Afreh-Nuamah, K.; Akcle, S.

(1997) Developing new plantain varieties for Africa. Plantain varieties and seed (1997) 10, 39-57.

Ahiekpor, E.K.S.

(1996) Abstract. Identification of High-yielding and Sigatoka Resistant Musa genotypes for farmers in Ghana. MusAfrica 10:8-9.

Oforu-Budu, K.G.

(1997) Influence of Chemical Fertilizer on yield and fruit quality of Late Valencia sweet orange in Ghana. Proceedings of 15th Annual General Meeting of Soil Science Association of Ghana. 24th - 27th June, 1997.

Assuah, M.K.; Oduro, K.A. and Oforu-Budu, K.G.

(1997). Diplodia natalensis Pole Evans, causal agent of citrus gummosis disease in Ghana. Proceedings of 20th Biennial Conference of Ghana Science Association of Ghana.

Constraints

There is the need for the University to absorb the Primary and the JSS schools at the Station to help upgrade the standard of our children to an appreciable level. This is a matter of great concern to officers at the Station. Currently, two officers have their children in various JSS schools outside the Station (i.e. one at University Primary School, Legon and the other at Akosombo International).

Agricultural Research Station - Kpong

Introduction

The three Research Officers at the Station are actively participating in both externally funded projects, i.e. IITA/IFAD and ODA and locally funded projects under NARP. The crops under study include rice, maize, sugarcane,

cowpea, watermelon, garden eggs and okro. The various research projects are briefly discussed below.

Research Highlights

Rice Research

The Station released a high yielding variety, TOX 3107 for further testing under on-farm conditions. Paddy yields ranging between 5.5 and 7.0 tons per hectare have been obtained at the Kpong Irrigation Project, Akuse.

The new variety was given extensive coverage on radio and in the "Daily Graphic" in May 1997. This resulted in increased demand from farmers for seed. The variety has a great potential for increasing the national rice output.

Commercial Seed Rice Production

The Station embarked on Commercial Rice Production, under the management of Dr. K. Nyalemegbe in 1996. The project is very promising and during the last Christmas (1997) the Station sold large quantities of rice to the University community. Given the necessary financial support the project can sustain all the rice requirements of the University throughout the year.

Externally Funded Projects

National Agricultural Research Programme (NARP)

Funds for various projects under NARP have helped to sustain research on the four projects currently being undertaken under this programme, viz:

Rice-based cropping system under irrigated ecology:

Rice mono-cropping has been the main system of cropping practised under irrigation in Ghana. Continuous cropping under waterlogged condition had, however, been observed to bring about the deterioration in the physical and chemical qualities of the soil, which lead to yield reduction. A system of cropping that would help to rejuvenate the soil is thus required to sustain high yields of rice.

The rice-based cropping system research is currently in progress to help find a solution to the problem. It involves the rotation of rice with legumes and vegetables in order to improve soil quality.

The programme is for three years and is presently in its second year. Results so far indicate that the legume and vegetable crops in the rotation could be sustained on the residual fertilizer from the rice crop.

Actual Evapotranspiration of Irrigated Rice

Rice is a crop that requires large quantities of water for its growth. In order to minimise the waste of water, it is necessary to determine crop water requirement to increase the efficiency of water use.

The above research would help to determine the actual evapotranspiration of the rice crop, from which the water requirement could be derived.

This research is a three year programme out of which two years have been completed. It is hoped that at the end of the study, the Station would be in a position to advise rice growers on quantities of water management practices in irrigated rice farming.

Integrated Manure-fertilizer Management for lowland Cultivation:

This research involves the application of cow dung and poultry manure in combination with chemical fertilizers for the production of rice. As observed in the Cropping System Research (above), the continuous application of chemical fertilizers to farm lands may result in the physical and chemical deterioration of the soil. In this study, the effect of organic matter on the rice crop and the soil are investigated.

Results so far indicate that poultry manure brought about higher rice yields than cow dung and chemical fertilizer.

Assessment of the supplementary irrigation requirement of some crops (maize and garden eggs) on the Vertisols:

In view of the erratic nature of rainfall during the minor rainy season, supplementary irrigation is required to ensure that crops complete their growth cycle. Cropping of vegetables in the dry season is also increasingly practised by farmers who have access to irrigation water. With the decreasing quantities of water for irrigation, especially during the dry periods of the year, studies are required to determine the water requirements of various crops. This will enable the farmer to programme the use of water so as to have enough water for the crop. The project is in its first year.

Projects for Livestock improvement

In order to improve the performance of grazing animals in the Savannah belt of the country, two projects have been approved by NARP to investigate the beneficial effects of stylosanthes on pasture improvement and also the stocking rate of cattle that would ensure optimal exploitation of pastures.

IFAD/IITA/NARP - Maize Plant Health Project

Dr. E.O. Darkwa continued to serve as a principal collaborator (Plant Pathologist), with Dr. Mary Botchey of the Zoology Department, University of Cape Coast as the principal collaborator (Entomologist) on IFAD funded IITA project on the sustainable management of maize pests and diseases for small scale farmers in Africa.

The project seeks to determine the key ecological and socio-economic factors affecting maize production in Ghana, Uganda, Cameroon, Nigeria and Benin. The main objective of the project would be to improve national programme capacity in the development and implementation of ecologically

sustainable crop protection technologies. The first phase of the project in Ghana started. . May - June 1996, and this has involved country-wide field surveys to determine which maize pests and diseases have caused yield losses in the field.

As at January 1998, a total of five surveys had been carried out in about 120 farmers' fields in all the maize growing regions of Ghana with the exception of the Northern and Upper Regions. Information has been collected on the field conditions, plant growth and yield variables, insects and diseases. This is to facilitate the assessment of yield losses in the various ecological zones. During the surveys particular attention has been give to the maize stem borers and foliar diseases.

A complex of foliar diseases previously reported in the literature were recorded during the survey, and in addition a "leaf scorch disease" which appears to be new was encountered frequently in farmers' fields in all the regions. The etiology of the "leaf scorch" is now being determined. The project is expected to run for two more phases of three years duration each.

Expected benefits to the University

To assist the collaborators to achieve the objectives as outlined in the project agreement, IITA/PHMD, has provided one Toyota Hilux vehicle, some laboratory equipment and office material.

The other contributions from IITA include the provision of specialised training for the two collaborators in the country or at IITA - Benin or IITA - Ibadan. The project will also cover research costs and university fees for at least one M.Sc., one M.Phil or one Ph.D student at a Ghana University. In addition five national programme staff will receive on the - bench training in the country.

ODA Funded Project

Management of *Cyperus rotundus* in small-holder farming systems on the Vertisols and vertic clay soils

The project which is the spin off of the IBSRAM - Vertisol - tillage land form project is funded by ODA, NRI and managed through Dr. J. Terry, Head, Tropical Weeds Unit at Long Ashton Research Station, Bristol, England. He is supported by Dr. Theo Willocks (soil and water management engineer) and Dr. Harry Evans (weed pathologist) from the International Institute of Biological Control.

The collaborating institutions in Ghana are Soil Science Department, Legon, ARS, Kpong, and Crops Research Institute, Kumasi. The project commenced in October 1996 and is of three-years-duration. The main objective of the project is to develop appropriate technologies for the control of *Cyperus rotundus* infestations on land cleared for small holder farming systems.

The project has three main components:-

- (a) Tillage, cultural and chemical control of **Cyperus rotundus** based at ARS Kpong.
- (b) biological control of the weed based at Crops Research Institute, Kumasi; and
- (c) socio-economic studies to support farmer-participatory research.

On-Station Trials

Two on-station trials were carried out in March and September, 1997. The main treatments have been comparisons of the effects of a combination of tillage and chemical weed control measures on the growth and yield of maize and cowpea on tow land forms - Camber bed and flat beds.

Data have been compiled on soil profile and moisture measurements, and of weed and crop growth. Initial analysis work is in progress with the hope of developing effective assessment and measurement procedures.

On-Farm Trials

Eight on-farm sites were selected within 25 km-radius on Kpong-Somanya-Akuse and Asutsuare in consultation with extension officers of the Ministry of Agriculture.

The trial was planted with cowpea during the minor season (September - December, 1996) to compare chemical weed control with the farmers' practice of hoe weeding on the two land forms; camber bed and flat bed.

The preliminary results/observations indicate that the farmers have appreciated the value of chemical weed control with glyphosate as compared to hoe weeding which only tends to fragment the tubers and nuts and thus helps propagate and spread the weed. In the next season further participatory research will be planned with the farmers with the possibility of increasing the number of farmers.

Conferences

Nyalemegbe, K. and Oteng, J.W.

"Integrated Azolla-fertilizer management for lowland rice production on the Vertisol". Paper accepted for presentation at the 4th African Farm Management Conference (AFMA) in Stellenbosch, South Africa (26 - 30 January, 1998).

Publications

Nyalemegbe, K., Oteng, J.W.
and Ahiabu, R.K.

The Utilisation of Azolla as a source of nitrogen for rice production in Ghana. Paper accepted for publication on 20th January, 1997.

FACULTY OF ARTS

Overview

The Faculty of Arts comprises the Department of Classics, English, Linguistics, Modern Languages, Philosophy, Study of Religions, the Language Centre, the Humanities Section of the Institute of African Studies, the School of Performing Arts (with its Departments of Theatre Arts and Music) and the International Centre for African Music and Dance which is the latest addition.

Students study for non-graduate Certificates and Diplomas, Under-graduate and Post-graduate Degrees in Departments and Units within the Faculty often in collaboration with Departments within the Faculties of Social Studies, Law and the School of Administration.

During the year under review, the various Departments and Units in the Faculty continued to offer diploma, under-graduate and post-graduate courses to students. The Department for the Study of Religions continued to co-ordinate the programmes of a number of colleges and seminaries situated outside Legon, while the Department of Modern Languages played a similar role for the School of Translators, Accra.

Requests for similar affiliation with other Departments/Schools within the Faculty have been received and are being processed for approval. Among them is one from the National Film and Television Institute (NAFTI).

The academic staffing situation saw modest improvements in the Departments for the Study of Religions and Philosophy, among others, while in the Departments of Classics and Music the situation looked very grim. The latter relied heavily on part-time lecturers to enable it to perform its normal teaching duties.

These constraints notwithstanding, the academic staff of the Faculty continued to present their research findings at Departmental and other seminars and through publications. The Faculty also provided speakers for the 1996/97 Inter-Faculty Lecture series. One issue (volume IX 1996) of the Legon Journal of the Humanities, the academic journal of the Faculty, was published to enrich the social and cultural life on campus and beyond.

As in the past, inadequate office space and lecture rooms continued to put a severe strain on the staff in most of the Departments in the Faculty. Many departments had to hold their lectures in other departments with more spacious facilities. The situation was particularly serious for the five sections of the Department of Modern Languages.

It is our fervent hope that construction work on the abandoned Faculty of Arts Complex will be revived with appropriate modifications to provide large lecture rooms and some offices for students and Faculty respectively.

Department of Classics

Courses

The Department, in spite of its skeletal staff, is able to mount seven courses per semester

Student numbers

Student numbers continue to grow at levels 100 and 200. The numbers however dwindle at 300 and 400. The statistics of student intake in the Department is as follows:

Level 100	123
Level 200	158
Level 300	9
Level 400	3

Staff

The staffing position remains precarious. There are only two teaching members of staff on the ground currently.

Research

The two academic staff on the ground have assiduously been conducting research in the areas of Ancient Philosophy, Literature and Society, and Women in Antiquity. However, the non-availability of essential literature and heavy teaching load are obstacles to a fruitful research and eventual publication.

Publications

Nil

Conferences/Seminars/Workshops

Nil

Benefactions

Nil

Department of English

Overview

During the year under review, the Department of English continued to provide teaching, research and extension services within the constraints presented by increasing student numbers and limited resources.

Courses

Level 100

ENGL 101 : Introduction to Writing and Composition
ENGL 102 : Writing and Composition Exercises
ENGL 103 : Varieties of Prose and Drama
ENGL 104 : Varieties of Poetry

Level 200

ENGL 201 : Introduction to English Language
ENGL 202 : Modern English Structure
ENGL 203 : Introduction to Earlier Literature
ENGL 204 : Introduction to Modern Literature

Level 300

ENGL 301 : Present-Day English
ENGL 302 : Semantic Structure of English
ENGL 303 : Introduction to African Literature
ENGL 304 : Shakespeare
ENGL 305 : Practice in Criticism
ENGL 306 : The Modern Novel

Level 400

ENGL 401 : Stylistics
ENGL 402 : Varieties of English
ENGL 403 : Advanced Practice in Criticism
ENGL 404 : Themes in Modern Literature
ENGL 405 : Modern Literary Criticism
ENGL 400 : Long Essay
Level 300/400

ENGL 307 : English Syntax ENGL 308 : Phonology of English

ENGL 309 : Discourse Analysis	ENGL 312	History of the English Language
ENGL 313 : Pragmatic	ENGL 314	Early English Texts
ENGL 315 : Renaissance Drama	ENGL 316 :	Renaissance Poetry
ENGL 317 : 18th Century Literature	ENGL 318 :	Romantic Poetry
ENGL 319 : Modern Poetry	ENGL 322	American Literature
ENGL 323 : Modern Drama	ENGL 324	Studies in African Drama
ENGL 325 : Ghanaian Literature	ENGL 326	Studies in African Prose
ENGL 327 : New Literatures in English	ENGL 328	Literature of the Black Diaspora
ENGL 329 : Studies in Africa Poetry	ENGL 332	Critical Issues in African Lit.
ENGL 333 : Intro. to Creative Writing	ENGL 334	Creative Writing.

Level 600

ENGL 600 : Research Methods	ENGL 601	English Syntax
ENGL 602 : English Phonology	ENGL 603	Literary Theory
ENGL 604 : Modern Drama	ENGL 605:	Language and Literature
ENGL 606 : English Semantics		
ENGL 607 : African Literature		
ENGL 608 : American Literature	ENGL 609	History of the English Language
ENGL 611 . Applied Linguistics	ENGL 612 .	Oral Literature
ENGL 613 : Special Topic	ENGL 614	Studies in Poetry
ENGL 615 : Post-Colonial Literature	ENGL 616	Popular Literature
ENGL 617 : Women and Literature	ENGL 618	The Novel
ENGL 619 : Special Author	ENGL 620	The Novel and Society in Africa
ENGL 621 : Drama and Society in Africa	ENGL 622	Poetry and Society
ENGL 623 : Film and Society	ENGL 624	Studies in Non- Fiction Writing
ENGL 625 : Earlier Literature	ENGL 625	Sociolinguistics of English

Admissions

The Department admitted the following numbers:

Level 100	58
Level 200	157

Level 300	82
Level 400	53
Level 600 (1st year)	3
Level 600 (2nd year)	5

Staffing Position

The number of academic staff at post increased with the appointment of Ms. Edem Dzregah and Miss Mabel Komasi as lecturers and Prof. Kotei, who has retired from the University of Science and Technology, as part-time member of staff. The supporting staff include: a Senior Administrative Assistant, one Clerk, Messenger, National Service Personnel, Teaching and Graduate Assistants.

Conferences/Seminar/Workshops

Anyidoho, K.	2nd PAWA Annual International Symposium. Nov. 1996. Roundtable presentation. FESPACO, Ouagadougou. February 22 March 1, 1997. Seminar on Film, Communication Theory & A History of Film in the African World. African Humanities Institute Programme, University of Ghana, Legon, March 4-5, 1997. Title of presentation: "Theories of Art & Representation in Film". African Literature Association Annual Conference, East Lansing, Michigan. April 1997. Chaired a panel on Film/Video/ Television & Socio-economic Transformation in the African World". West African Research Association, [WARA] International Symposium on <i>West Africa and the Global Challenge</i> , Dakar, Senegal. June, 22 - 28, 1997. Roundtable on "Restoring Dialogue Between Africa and the Diaspora". Title of presentation: "Memory & Vision: Africa and the Legacy of Slavery".
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Research

Members of staff continued to do their individual research work on different aspects of language, literature and culture inspite of the heavy teaching load during the year. Dr. Wiredu started a book project on English grammar and together with Ms. Keleve began writing teaching and learning materials for the English Language component of the Distance Education programme of the University. Mr. Arnuzu did research on: *Post Colonial Discourse: The Novels of Ayi Kwei Armah*. Mrs. Dako continued research work on the sociolinguistics, phonological and structural aspects of student's

pidan.

Prof Anyidoho was one of the two Principal Investigators of *Transcending Boundaries: The Humanities and Socio-economic Transformation in the African World*. A Multi-Year Interdisciplinary Collaborative Project funded by the Ford Foundation and involving the University of Ghana - Legon; CODESRIA-Dakar; and Northwestern University - Evanston, IL. The first year of the project was devoted to "Film/Video/Television & Socio-Economic Transformation in the African World".

Mr. Denkabe paid an academic visit to the Centre of West African Studies, University of Birmingham during which he gave a guest lecture on: *A Framework for Reading African Literature* and a seminar paper on: *Pre-packed, Unpacked and Repacked: Literary Theory for Africa*. During the year, he carried out research on some aspects of civil society in Ghana and continued with the work of leading a textbook project for secondary schools begun in the previous year with sponsorship from Macmillan Ed. Ltd. He is also involved in the writing of teaching and learning materials for literature for the University's Distance Education programme.

Rev. Dr. G.T. Angsotunge engaged in the collection and analysis of the Oral Narrative of the Dagaaba. He also did research on the poetry of Seamus Heaney.

Publications

Anyidoho, K.

"Art in a Society in Transition".

Glendora Review Vol. 1 No.4: 76-84.

"There is a Child in Every Adult and a n Adult in Every Child: Interview with Kofi Anyidoho" [Interviewer, Raoul Granqvist].

In *Preserving the Landscape of the Imagination: Children's Literature in Africa*. Ed. By Raoul Granqvist and Jurgen Martini. *Matatu* 17-18. Amsterdam/Atlanta, GA 1997. Pp. 277-82.

- *The Word Behind Bars & The Paradox of Exile*. [Ed.] Evanston, IL: Northwestern University Press, 1997

"Prison as Exile/Exile as Prison: Circumstance, Metaphor & a Paradox of Modern African Literatures: An Introduction." In *The Word Behind Bars & The Paradox of Exile*. Ed. Kofi Anyidoho. Evanston, IL: Northwestern University Press, 1997.

Akpokplo [A play in Ewe]. Accra: Woeli Publishing Services, 1997.

"The Pan-African Ethic & Aesthetics in the 21st Century". [An Interview with Ali Mazrui. *Glendora Review* Vol 2 No. 1, pp. 85-91.

- Denkabe, A. 'An Overview of the Non-governmental Organisation Sector in Ghana' in F.K. Drah and M. Oquaye (eds) Civil Society in Ghana. Friederich Ebert Stiftung, Accra, 1996 pp. 137-163
- Denkabe, A. and Adika, G. 'A Grammar of Text Analysis. An Approach' in M.E. Kropp-Dakubu (ed) English in Ghana. Accra. GESA. pp. 211-223.
- Denkabe, A., Dako, K. & Forson, B. 'The Ghanaian University Student's Knowledge of Grammar' in as above pp. 53-68.
- Denkabe, A., Gadzekpo, A & Ahadzie, S. 'Extralinguistics Factors in the Use of language in the Ghanaian Press' in as above pp 286-298.
- Wiredu, J.F. The Style of Political Communication: The Example of 1979 Nigeria Federal Elections. In Legon Journal of Humanities. Vol. 9. Complement Structures in English: A Structural Classification of the Catenatives. In M.K. Dakubu (ed) English in Ghana: Accra: GESA pp. 69-85.
- Amuzu, K. 'The Nigerian War Novel' in L. Losambe (ed) An Introduction to the African Prose Narrative. Pretoria, Kagiso. 1996. Beyond Ideology: Literary Technique in Ngugi's Petals of Blood and Devil on the Cross. London, Minerva Press, 1997.

Language Centre

Overview

In mid-December 1996 the Language Centre celebrated 25 years of service to the University and the community with a programme of symposia, with invited guest speakers, and exhibitions that sought to promote and publicise the Language Centre's integrated approach to the improvement of

language-based communication for the furtherance of development through education.

Teaching and research continued, under the constraints that apply to the entire University. Programmes in Language and Study Skills, Ghanaian languages, and English for non-anglophones continued. The last mentioned is showing a steady increase in applications and enrolments.

An innovation in the Language and Study Skills programme was the institution in the second semester of short lectures on study skills topics on the Voice of Legon (Radio Univers). Several members of the Centre were and are active on its Board. In a related activity, several members of the Centre actively cooperated with the English Department in planning the proposed Foundation English course for the Distance Education project.

Besides running its usual series of departmental seminars, the Language Centre was host to the Annual Conference of the Linguistics Association of Ghana, 27-28 June 1997, and the 9th (international) Niger-Congo Syntax and Semantics Workshop, June 30 - July 2 1997.

The Language Centre also hosted a special one-month program for a group of undergraduates from James Madison University (USA).

Courses

As in previous years, the Language Centre ran three major teaching programmes:

- a. Certificate of English Proficiency (LANG 001 through 012) for prospective students whose language of instruction at school was not English.
- b. Language and Study Skills courses, in Reading (LANG 101, 201), Note-Taking (LANG 103, 203), Summary (LANG 102, 202) and Essay Writing (LANG 104, 204), for entering students.
- c. The Ghanaian Language option in African Studies (AFST 260). In 1996/97 the languages offered were Ga, Ewe, Fante, Akuapem, Asante, Dagbani, Dagara and Hausa.

Student Numbers

In the Certificate of English Proficiency programme there were 15 registered students, plus three occasional students. 360 students registered for the African Studies Ghanaian language option. Language and Study Skills courses were taken by the entire 100 level intake, plus all 200-level students taking at least one subject in the Faculty of Arts.

Staff

The Language Centre staff on the ground throughout the year numbered 9 full time senior members, 8 senior staff including 5 teaching staff, and 6

junior staff. An additional two senior members were on leave of absence, and another returned from sabbatical leave in March. One full-time senior member has since left, one has retired, and another is now teaching part-time.

Several members of other Departments as well as teachers in nearby secondary schools assisted in teaching the language and Study Skills and the Ghanaian Language courses. The Centre also had the services of a part-time student library assistant, Mr. Emmanuel Abbey.

Research

Research activities of Centre Fellows concentrated on English in Ghana, particularly test construction, and textual analysis of various kinds, and on the development of teaching materials for spoken and written English. The Bilingual Dictionary project continued mainly in the Ga-English Dictionary project.

Publications

Adika, Gordon and A. Denkabe,

1997. "A Grammar of text analysis: an approach." In Dakubu, ed., *English in Ghana*, pp. 211-223.

Tsikata, I.E., Gordon S.K. Adika

and E. Adjotey,

1996. *An English Language Manual for University Students*. Accra: Herma Publications. Pp. 93.

Denkabe, Aloysius,
Audrey Gadzekpo and
Sika Ahadzie,

1997. "Extra-linguistic factors in the use of language in the Ghanaian press." In Dakubu, ed., *English in Ghana*, pp. 286-298.

Asante, Mabel Y.,

1997. "L1-Influence as a possible source of the variation in the use of the third person singular pronoun in the GHAVE." In Dakubu, ed., *English in Ghana*, pp. 34-45.

Dakubu, M.E. Kropp,

1996. "Explaining Ga plurals", *Journal of African Languages and Linguistics*.

1997. *Korle Meets the Sea, A Sociolinguistic History of Accra*. New York: Oxford. Pp. 216.

1997. The trope of the nation in *Kojo Laing's poetry*. In Dakubu, ed., *English in Ghana*, pp. 275-285.

Editor, 1997. English in Ghana. Accra: Ghana English Studies Association.

Conferences, Workshops and Seminars

Departmental Seminar Series:

- Sika E. Ahadzle, "A study of cohesion and coherence in student writing." 31st October, 1996.
- Cobbina Swanzy, "Teaching Introduction in the expository composition class." 14th November, 1996.
- Kropp Dakubu, M.E. "Writing an academic paper", 5th December, 1996.
- G.S.K. Adika, "Analysis and Evaluation of 1996 Diagnostic test for first year students." 27th March, 1997.
- Faustina Hyde, "Are collocations teachable?" 22nd May, 1997.

Inter-Faculty Lecture

- Helen M. Odamtten, "English Pronunciation, Who Has the Last Laugh?" 15 May, 1997.

Meetings Attended

- M.E. Kropp Dakubu: August 1996: Annual Conference on African Languages and Linguistics, Leiden, The Netherlands. Paper presented: "Ga locative complements."
September 1996: Workshop on Verb Classification, Trondheim, Norway. Paper presented: "Towards a computable classification of Gur and Kwa verbs."
March 1997: Colloquium on Gur Languages, Ouagadougou, Burkina Faso. Paper presented: "Oti-Volta vowel harmony and Dagbari".
June 1997: Linguistics Association of Ghana, Legon. Paper presented: "Ga clauses without subjects."
July 1997: Niger-Congo Syntax and Semantics Workshop, Legon. Paper presented, with J. Saanchi: "Constituent Focus in Dagaare."

Odamtten, Helen

June 1997: Linguistics Association of Ghana, Legon. Paper presented: "Shifts in the pronunciation of English words: Two current trends in Ghana."

Talks on Voice of Legon:

G.S.K. Adika: Summary Writing (in 2 parts)

M.E. Kropp Dakubu: Reference Skills

F. Hyde: Essay Writing

H.M. Odamtten: Speech (4 parts)

G. Owusu-Sekyere: Examination Skills.

Benefactions

Through the Legon-Trondheim Cooperation in Linguistics, funded by the Norwegian Research Fund for Universities, the Language Centre was able to send its junior technician, Mr. Theophilus Agboli, on a computer hardware maintenance course.

Department of Linguistics

The Department of Linguistics continued to offer courses in Linguistics to an increasing number of students at the bachelor's, graduate diploma, master's and doctoral levels. Ghanaian Language Studies was offered at the undergraduate level.

Student Numbers

Level 200 169

Level 300 96

Level 400 72

Graduate diploma: 3

Master's 8

Doctoral: 3

Staff

The Department had altogether a 13-member teaching staff, including Mr Kofi Agyekum (M.A. Trondheim), who had been newly appointed, and Professor Okon Essien, a Visiting Professor from University of Calabar.

Nigeria. Dr S. G. Obeng and Dr E.K. Osam were still on leave of absence.

Research

The Department started two major research projects with the Linguistics Departments of the Norwegian Institute of Science and Technology (Trondheim, Norway) and the University of Zurich (Switzerland), respectively. The first is part of a Legon-Trondheim co-operation on research in various aspects of Linguistics, including a literacy programme in the Balsa area of the Upper East Region.

The joint project with the University of Zurich aims at revising J. G. Christaller's Akan-English Dictionary, first published in 1888.

Conferences/Seminars/ Workshops

The Department actively pursued its seminar series, where staff and graduate students presented papers on on-going research. It also hosted seminars and workshops. An international conference/workshop on Niger-Congo Syntax and Semantics was co-hosted with Language Centre in July 1997. That was the first time the international workshop on Niger Congo linguistics had taken place in Africa. The workshop brought together participants from U.S., Canada, Germany, Nigeria, Cote D'Ivoire and Togo.

There was also a two-week workshop on computer lexicography in March 1997.

Below are conferences attended by members of staff and papers presented.

Conferences/seminars/workshops

Agbedor, P.K.

Ghana Institute of Literacy and Bible Translation Conference, Tamale, February 2-7, 1997. Paper read: "Focus and Topic Constructions in Ewe."

Linguistics Association of Ghana (LAG) Conference, 28-29 June, 1997.

Niger-Congo Syntax & Semantics Workshop, Legon June 30- July 2, 1997. Paper read: "The Syntax of Focus and Topic Constructions in Ewe."

Ghana English Studies Association (GESA) Workshop, University of Cape Coast, August 21-23, 1997.

10-day Writers Workshop to write Buli Primers 1 and 2 for the Legon- Trondheim Buli Literacy Project, Legon:1-10 September, 1997, Legon.

- Agyekum, Kofi - Workshop on Computer Lexicology, 4-14 March, 1997.
Linguistics Association of Ghana (LAG) Conference, 27-28 June, 1997. Paper read: "Aspects of Communicative Competence in Akan Oral Traditions."
Trondheim-Legon NUFU Project Seminar, 28 November - 5 December, 1997. Paper read: "Lexical Polysemy and Metaphorical Extensions of Te' Hear* Perception Verb in Akan."
- Akanlig-Pare, George Ghana Institute of Literacy and Bible Translation Conference, Tamale. February 2-7, 1997. Paper read: "Palatalisation in Bult."
Colloquium on Gur Languages, Ouagadougou, 3-7 March, 1997. Paper read: "Tonal Structure of Buli Phonological Nouns." (1997) Annual Conference of the Linguistics Association of Ghana.
10-day Writers Workshop to write Buli Primers 1 and 2 for the Legon- Trondheim Buli Literacy Project, Legon 1-10 September, 1997, Legon
- Anyidoho, Love Akosua Seventeenth Workshop of the Association of Teachers of Ghanaian Languages, Peki Training College, 26-31 August 1996. Theme: Teaching of Ghanaian Languages+Modern Approaches. Paper read: "Beginning Reading: L1 or L2?"
Annual Conference of the Linguistics Association of Ghana, University of Ghana, Legon. June 1996.
American Association for the Advancement of Science/University of Zambia CD-Rom Pilot Project Workshop, Lusaka, Zambia, 10-15 January, 1997.
Ghana Institute of Literacy and Bible Translation Conference, Tamale. February 2-7, 1997. Paper read: "Nsaguo 'libation' as a Window to Religious Beliefs of the Akan".
West Africa Research Association Conference, University of Dakar, Dakar, Senegal, 22-29 June, 1997 Led a discussion on: "Women's writing and oral literature in Ghana."

Workshop of Ghana English Studies
Association, August 21-23, 1997. University
of Cape Coast. Paper read: "Back to the
Basics: Reading the First of the Three Rs."

Boadi, L.A.

Linguistics Department Seminar:
Restrictions on Tense and Aspect in Serial
Verb Constructions."
10-day Writers Workshop to write Buli
Primers 1 and 2 for the Legon- Trondheim
Buli Literacy Project, Legon:1-10
September, 1997, Legon.

Duthie, A.S.

Ghana Institute of Literacy and Bible
Translation Conference, Tamale. February
2-7, 1997. Papers read: "The Structure of
biblical Hebrew clauses", "From paradigm
to syntagm in teaching New Testament
Greek", and "The latest English Bible
versions."
Annual Conference of the Linguistics
Association of Ghana, University of Ghana,
Legon. September 9-10, 1996. Paper read:
"Clarity and prominence in translation."
Annual Conference of the Linguistics
Association of Ghana University of Ghana,
Legon. June, 1997. Paper read: "Prominence
in two Ewe versions of the biblical of
Ruth."

Dzameshie, Alex K.

Intra-Faculty Lecture at Legon on 28th May,
1996. Paper read: "Communicative
Competence and Successful
Communication: Understanding
Declaratives, Imperatives and
Interrogatives."
Colloquium in the Department of
Linguistics, University of Ghana, Legon, 5
June, 1996. Paper read: "The Social functions
of Inclusive Pronouns in Christian
Sermons."
Inaugural Conference of Ghana English
Studies Association, August 13-15, June,
1996. University College of Education,
Winneba. Paper read: "Towards a
Communicative Approach to Teaching
English as a Second Language in Ghana."
Linguistics Association of Ghana (LAG),
University of Ghana, Legon. September 19-

- 20, 1996. Paper read: "Lexical Borrowing as a Sociocultural and Socio-psychological Phenomenon."
Linguistics Association of Ghana (LAG), University of Ghana, Legon. June, 27-28, 1997. Paper read: "The Formation and Functions of Questions in Ewe."
Ghana Institute of Literacy and Bible Translation Conference, Tamale. February 2-7, 1997. Paper read: "The Forms and Social Meaning of Greetings in Ewe."
- Saah, Kofi
9th Niger-Congo Syntax and Semantics Workshop, Legon, July 1997. "Topic and focus in Akan."
Annual Conference of the Linguistics Association of Ghana, Legon. June 1997.
- Saanchi, J.A.N.
Colloquium on Gur Languages , Ouagadougou, 3-7 March, 1997. Paper read: "The Vowel System of Dagaare."
Linguistics Association of Ghana (LAG), University of Ghana, Legon. June, 27-28, 1997. Paper read: "The Pre-Verb Particles of Dagaare: Another View."
9th Niger-Congo Syntax & Semantics Workshop, Legon June 30- July 2, 1997. Paper read: "Constituent Focus in Dagaare."
(Co-authored with M.E.K. Dakubu)
10-day Writers Workshop to write Buli Primers 1 and 2 for the Legon- Trondheim Buli Literacy Project, Legon: 1-10 September, 1997, Legon.
- Yankah, Kwesi
(1996) Accra: Roundtable. Institute of Economic Affairs: "Intellectuals and Government: A Synthesis of Evolving Trends".
(1996) October Tokyo: International Proverb Forum, "Mobile Proverb Museums: The Concept of Proverb Authorship."
(1996) November, Ann Arbor Michigan, International Workshop on the Transformation of Power and Culture in Africa, "Ethnography of Free Speech in an African Culture."
(1997) February Bellagio, Italy. Rockefeller International Conference on Words and Voices: Critical Studies in African Oral

Historiography, "The Sung Tale as a Political Charter in Contemporary Ghana."
 (1997) March, Ann Arbor, Michigan, International Institute, University of Michigan, Bellagio Follow-up International Conference on "Words and Voices."
 (1997) May, University of South Africa, Pretoria. International Colloquium on the African Proverb Project
 (1997) June, Annual Conference of the Linguistics Association of Ghana. Legon.
 1997 September, Legon. Pan-African Association of Anthropologists Conference. "African Studies and the Challenges of a Global Order."
 (1997) September, Cape Coast. International PANAFEST Colloquium, "Indigenous Knowledge and a New World Academic Order."

Publications

Agbedor, P.K.

The Structure and Language of Ewe Libation Prayer. Nordic Journal of African Studies, (1996) 5:1, pp.25-50
 "The Syntax of Ewe Personal Pronouns." Linguistique Africaine, 16 (1996), 19-51.
 "Language Planning for Development in Ghana: Problems and Prospects." Legon Journal of Humanities, 9 (1996), 27-56.

Akanlig-Pare, G.

Review of Buli-English Dictionary, 1996 Journal of African Language and Linguistics 17 (1996), 85-87.

Anyidoho, Love Akosua

Madam Afua Abasa, Fondatrice et Directrice de L'ensemble Musical Manhyia Tete Nnwonkoro Kuo." Le Griot, 4:1 (1996): 22-30. Journal de Francais Du Department des Langues de L-Universite de Kumasi.

Duthie, A.S.

"Translations of the Bible and of other Books: Comparing the assessment criteria" in Legon Journal of the Humanities, 9 (1996), 111-126.

- Dzameshie, Alex K. "The Social Dynamics of Lexical Borrowing", in Legon Journal of the Humanities, Vol. 9, (1996) (pp. 141-156).
Everyday English, Vol.3 (1996), Accra: Ghana Broadcasting Corporation (GBC). Printed by Achesco Press Ltd., 115 pages.
 "Towards a Communicative Approach to Teaching English as a Second Language in Ghana," in English in Ghana Ed. M. E. Kropp Dakubu, 1997. Accra: Ghana English Studies Association, pp. 173-194.
- Saah, Kofi With Ejike Eze, "Double Objects in Akan and Igbo," in Dechatne, Rose- Marie & Victor Manfredi, Ed. Object Positions in Benue-Kwa (Papers from a workshop at Leiden University, June 1994.) The Hague: Holland Academic Graphics, pp.139-151.
- Yankah, Kwesi "The Sung-Tale Metaphor and Protest Discourse in Contemporary Ghana," Language, Rhythm and Sound: Black Popular Cultures into the Twenty- First Century. Ed. Joseph Adjaye and Adrienne Andrews. University of Pittsburg Press 1997. pp.54-73.
Intellectuals in Government: A Tale of Uneasy Partnership. Occasional Paper 6, Institute of Economic Affairs. 1997.
 "The Future of Highlife," Glendora: African Quarterly on the Arts (1996) 1:3, 108-110.
 Ed. with Gadzekpo and Karikari, Going to Town: The Writings of P. A. V. Ansah. Accra: Ghana Universities Press. 1996.

Department of Modern Languages

There were 23 lecturers for a total of 648 students. The Department continues to offer courses at the undergraduate and postgraduate levels to students in the various languages as follows (i.e. levels 100, 200, 300 and 400):

FRENCH	229
FRENCH M.Phil	3
SPANISH	163
RUSSIAN	53
SWAHILI	107
ARABIC	93

Research

Research work went on in most of the language sections during the year under review. Among the research projects are the following:

Sampson, K.A.	Pragmatics; Linguistic Aspects of French in West Africa.
Yennah, R.	J. J. Rousseau and 18th Century French Literature.
Bilson, K.A.	Lexicology of Modern Russian.
Adam, G.N.	Stylistics of Modern Russian.
Lampley, V.A.O	Latin American Literature; Stylistics.
Mensah, J.K	Swahili Grammar and Phonology.
Britwum, K.	New Francophone African Novel.

Publications

Sampson, K.A.	"Traits pragmatiques du discours interpretant," <i>Renef</i> , 1, No. 4, 1996.
Britwum, K.	"L'Image du Blanc dans un roman africain anticolonial: une lecture d' <u>'Une vie de boy'</u> ", <i>Asemaka</i> , No. 8, pp. 27 - 35. University of Cape Coast.

Benefactions

The French government continues to be the Department's main benefactor. Last year it installed in the Department a satellite dish which receives French language TV5 broadcasts for the benefit of students. Among the French government's wide-ranging assistance to the Department was the following: furnishing of the Multi-Media room, refurbishment of the Departmental Library, donation of books, office equipment, stationery; maintenance of equipment supplied by the French government to the Department, subscription to 20 French magazines and journals etc. In addition, two Ghanaian lecturers are currently in France working on their PhD's as French government scholars. Last year, 2 short-term research fellowships tenable in France were awarded to two Ghanaian members of the French section.

Department of Philosophy

Overview

The Department was pleased to welcome aboard Dr. Kwasi Agyemang a graduate of the University of Ottawa, and a lecturer of York State University, Canada. His presence has not only increased the number of faculty to five but has also revitalised the spirits of both faculty and students.

Staffing

The number of faculty in the Department now stands at five.

Student Enrolment

Level 100		200
Level 200	from level 100	170
Level 200		88
Level 300		300
Level 400		400

Research Activities

- Gyekye, K. Continues to research into Tradition and Modernity, African Cultural Values and Metaphysics, among others.
- Lauer, H. She continues to research into the mathematical sciences as a registered student in the Mathematics Department, University of Ghana. She's also researching into the concept of Time, Values, Truth and Development in Africa. She is also editing an anthology, Ghana: Changing values/Changing Technologies.
- Osei, J. He continues to be engaged in issues related to Development Democracy and values, and lately into Theology, Human Rights, Mythology and Culture.
- Agyemang, K. He has been working on his book manuscript with the proposed title: "ON PROBATION FOREVER?"

Publications

- Gyekye, K. Tradition and Modernity: Philosophical Reflections on the African Experience, 1997, published by Oxford University Press.
African Cultural Values: An Introduction. Philadelphia, Sankofa Pub. Co. Ltd., 1996
Revised version (with new Introduction). An essay on African Philosophical Thought Temple University Press, Philadelphia, 1995; original publication, 1987.
Entry on African Philosophy: In Cambridge Dictionary of Philosophy, Ed. Robert Audi (CUP. 1996).
- Lauer, H. Talking About Time: J.L., Philosophy and Development, Ogun State University, Nigeria (forthcoming).
"Complementary Principle in Development Diplomacy", in Proceedings of Symposium on the Consciousness of Time and the Experience of Development in Sub-Saharan Africa (Dakar, May 1996).
"Race: Treating Race as a Social Construction" Journal of Value Inquiry, V.30
Sept. 1996, pp. 445-451 Keeping Fallibility in Mind", in African Philosophical Inquiry Vol. 2, 1996 Ibadan, Nigeria.
"THE RIGHT TOUCH":
Conceptual Adjustments for Development Planning in Ghana" in Remaking Africa: Challenges of the 21st Century, Ed. Olesequu, Oladipo, Ibadan Hope Publ. 1997, pp. 44-64.
Report on Conference Proceedings on European Association, Theoretical Comp. Science Bulletin, Spring 1997.
Two Dogmas of Modernity: Potential Impediments to Enlightened Development in Ghana, Legon Journal of the Humanities, V.8 1995 (first mention).
- Osei, J. The Socio-Economic and Political Implications of the New Vision (or Philosophy) for Moving Christ Church into the 21st Century in Moving Christ Church into the

21st Century. (for Christian Council of Ghana), March 1997. pp. 136-154 Pentecost Press

Pioneering a Paradigm shift in African Theology: The case of Dr. Elizabeth Amoah, University of Ghana, in Essays in Honour of Dr. Elizabeth Amoah, the first female Head of Religions Department in Africa (Forthcoming).

"The Philosophical Bases of Human Rights in African Culture: The Akan Example. In Human Rights and Development, Proceedings of a 12 month seminar sponsored by Faculty of Law and the Friedrich Ebert Foundation (forthcoming).

Understanding African Cosmology: Its content and contributions to "Worldwide, community and Development of Science" in an Anthology on Cosmology and Science co-author. Rev. Joshua Kudadjie, Department of Missiology UNISA, Pretoria S. Africa. (At Press).

The Myth of the Golden Stool and Its Metaphysical and Moral significance in Meeting of Cultures: Perspective on Mythology. Proceeding of conference sponsored by Institute of African Studies University of Ghana, and the Goethe Institute, Accra. 21-24 October, 1997. (At Press).

Agyemang, K.

He has two pages forthcoming in the Faculty of Law: Human Rights and Development Series:

1. "Taking Human Rights Seriously"
2. "Economic Compensation of Victims of Crime in Ghana".

He has also contributed a paper to a forthcoming anthology on The Impact of Medical Technology on Euthanasia: An Akan Perspective

Conferences, Seminars and Public Lectures

Gyekye, K

Gave the keynote address at the Pan African Conference on Religion, Spirituality and Healing on July 7, 1997. Novotel Hotel, Accra, and also at the Colloquium of PANAFEST 1997, Cape Coast, September 1997. While

in the U.S. he also gave public lectures in many Colleges and Universities including University of Pennsylvania, Temple University, Philadelphia and the Smithsonian Institute.

- Lauer, H. Read a paper at the Truth in Mathematics Conference in Sicily, September 1996. Her paper was read on her behalf at the Symposium on Development and the Consciousness of Time in Sub-Sahara Africa, Dakar, Senegal, May 1996.
- Osei, J. Attended the EATWOT Conference at UNISA Pretoria South Africa in August, 1996. He also read a paper at the Seminar on the Future of the Church at Akosombo organised by the Christian Council of Ghana. Also in July 1997 he was invited as a Consultant EATWOT Mission for the next millennium in Nairobi, Kenya. He also participated in the (Jan. - Dec. 1997) monthly public lectures by the Law Faculty and the Friedrich Ebert Foundation at the British Council Hall. He read a paper on Human Rights and Culture.
- Agyemang , K. Participated in the monthly public lectures, Jan. Dec. 1997 sponsored by the Law Faculty and the Friedrich Ebert Foundation and read two papers on Human Rights and the Law in Ghana.

Department for the Study of Religions

Overview

The academic programme went on smoothly. Some theses were completed and submitted to the Board of Graduate Studies.

Faculty members continued to do research and attend workshops and conferences. Some of these research findings and conference papers have been published into books and articles. Support staff, as usual, continued to work hard.

Courses

As found in the University Handbook, a wide range of courses were offered from the Diploma level, B.A. level, to the M.Phil. level.

Student Numbers

The statistics of registered students are:

Programme	No. of students
Diploma I	20
Diploma II	15
Level 100	100
- 200	200
- 300	160
- 400	80
M.Phil. Pt.I	5
- Pt.II	4
Foreign Students	13

Staff

Rev. Abamfo Atieno, one of the Department's graduate students who successfully completed his M.Phil. programme was appointed Lecturer in the Department.

The number of academic staff is 10.

There have been some structural changes in the Department. Some rooms have been partitioned to make more rooms for new lecturers, and the Department's library has been extended.

Extension Work

As in previous years the Department co-ordinated the University's special relations scheme with the following five Seminaries:

- 1) Trinity College, Legon
- 2) St. Victor's Major Seminary, Tamale
- 3) Christian Service College, Kumasi
- 4) Baptist Seminary, Abuakwa - Kumasi
- 5) St. Peter's Major Seminary, Pedu - Cape Coast.

Research/Publications

Amoah, Elizabeth

"Sacrifice and Taboos" in Dictionary of Feminist Theologies Westminster, John Knox Press. New York, 1996.

"Can these Bones Live?" Ezekiel 3 vrs. 5.

Published by AACC - Nairobi, 1996.
 "In Times Like This." A Reflection on the Book of Habakkuk. Published by AACC - Nairobi.
 "Where God Reigns." (Reflections on Women in God's World, ed. Amoah E.) Published by Sam-Woode Ltd., Accra, 1997.
 ("Akan Conception of the Relationship between Humanity and Nature," in "Where God Reigns." Reflections on Women in God's World, ed. Amoah E. Published by Sam-Woode Ltd., Accra, 1997.

Dovlo, Elom

Research Reports
 "Baseline Survey on Female Ritual Bondage in Ghana - Southern Sector. Geographical Spread and Count of Victims". Commissioned by The Canadian International Development Agency (CIDA) (Researched and Written by Dr. Elom Dovlo and Mr. S.K. Kufogbe), September, 1997 (95 pages).
 "The Roots and Mission of Ghanaian Churches in Europe." Commissioned by Gerrie Ter Haar, University of Utrecht, The Netherlands, June 1997, (32 pages).

Publications

"Traditional Sexual Norms of the Anlo Ewe" Africana Marburgensia xxvii, 1+2, 1995, PP.32-45 (Printed 1997).
 "Witnessing Among People of Other Faiths" in Second Evangelical Consultation of the Presbyterian Church of Ghana (4-7 June, 1996). Ramseyer Training Centre, Abetifi (1996) pp.24-28.
 "The Role of the Church in Post Independent Ghana" Christian Messenger, Vol.10, No.3, 1997 p.4 (Essay Commissioned to mark Ghana's 40th Independence Celebrations).
 "Moving Christ's Church into the 21st Century: The Way Forward," in Moving Christ's Church into the 21st Century: Implications for Mission. Report of Seminar for Leaders of Member Churches of the Christian Council of Ghana (1996). Pentecost Press Ltd., pp.155-171.

The Next Century Belongs to Africa?
Reflection in Troubled But Not Destroyed: AACC Devotional Guide, 1996: 40 Daily Reflections on the 7th Assembly Theme. Rev. Dr. Setri yomi et. al.(eds.) Kenya, 1996, p.33.

- Ammah, Rabiatu** "Dhimnis in Islam: A Review" in CSIC Papers. Christian Muslim Reflections, No.10, 1996. Birmingham Centre for the Study of Islam and Christian Muslim Relations., 1996. "The Islamic Understanding of Creation: The Place of Women," in "Where God Reigns: Reflections on Women in God's World." ed. Elizabeth Amoah. Accra. Sam-Woode Ltd., 1997.
- Omenyo, Cephas** "Renewal, Mission and Evangelism in the life of the Church" in Proceedings of the Second Evangelism Consultation of the Presbyterian Church of Ghana, 4-7 June, 1996. Ramseyer Training Centre, Abetifi, 1996, pp.5-9.
- Suleman, Mumuni** Islam in Ghana with particular interest in New Religious Movements in Islam; Intra and Inter Religious Conflicts; the Muslim Community and National Politics. Others: Course Writer - Srel.101 : Islamic Studies Teaching at Workers College, Accra. Chief Examiner - Islamic Studies, WAEC., Accra.

Conferences/Seminars/Workshops

- Amoah, Elizabeth** Guest-speaker of South Africa Academy of Religion, Johannesburg, 1996. Paper read: "The Challenge of Religious Fundamentalism in Africa." Conference organized by the Circle of Concerned African Women Theologians in Nairobi, Kenya - Sept. 1996. "Teaching Religion in an African University" - University of Ghana, Inter- Faculty Lecture. June, 1997.
- Dovlo, Elom** "African Spirituality." Paper presented to The Conference of German Pastors to German speaking Congregations in Africa. Theme: African Spirituality and the Christian Faith."

Abokobi, Ghana. 1-10th January, 1996.
 "Moving Christ's Church Together into the 21st Century: The Way Forward". Paper presented to Christian Council of Ghana Church Leader's Seminar, Volta Hotel, Akosombo, 14-16 March, 1996.
 "The Issue of Culture and Contextualization in African Instituted Churches." Paper presented to The Symposium marking 25th Anniversary of Good News Seminary and College Holy Spirit Cathedral, Accra (24th June, 1996).
 "Religion and Oral Literature in Africa." Paper presented to NEH Summer Institute, Ohio State University, Columbus & The University of Ghana, Legon. Theme: Literature and Modern Experience in Africa. Hotel Wangara, Accra, July 7 - August 16, 1996 (July 11, 1996).
 "The Effects of Religion and Traditional Barriers on Women's Potential for Development." Essays in honour of Dr. Elizabeth Amoah, Trinity College, 8th January, 1997.
 "Christian-Muslim Relations" Paper presented to Ghana Catholic Bishops' Conference, National Pastoral Congress, April 13, 1997, Cape Coast, Ghana.
 "The Church and Religious Pluralism: The Challenge of New Religious Movements and Charismatic Churches" Paper presented to Akrofi-Christaller Memorial Centre/Hendrik Kraemer Instituut, Netherlands Joint Consultation on Church and Society in Africa 8-26th April, 1997.
 "Religion and The Politics of Fourth Republican Elections in Ghana. Some Preliminary observations" University of Ghana, Inter-Faculty Lecture. June 5, 1997.
 "Healing Religion and Spirituality in African Traditional Religion." Paper presented to the Pan-African Art of Healing Conference, NOVOTEL, Accra, 7-11 July, 1997.
 "The Challenge of New (Charismatic) Churches to Mainline Churches." paper presented to Workshop for Dutch Pastors organized by the Presbyterian Church of Ghana, Abokobi, 24th July, 1997.

"The Role of the Church towards Ghana Development Summary Reflections" Paper presented to the First Open Assembly of the Christian Council of Ghana. Teachers' Hall, Accra, 23-25th September, 1997.

"Muslim and Christian Perspectives on Human Rights in West Africa." paper presented to AECAWA International Seminar on Islam and Christianity on Human Development in West Africa. The Catholic Conference Centre, Nsawam, 15th October, 1997.

"The Christian Council of Ghana: The Way Forward" Paper presented to 4th Roundtable Conference of the Christian Council of Ghana. Kingsby Hotel, Accra. November 24th, 1997.

Ammah, Rabiatu

Conference organized by the Circle of Concerned African Women Theologians in Nairobi, Kenya - Sept. 1996. Paper read entitled "WOMEN IN MULTI- F A I T H CONTEXT: A MUSLIM PERSPECTIVE".

Seminar organized by the Association of Episcopal Conferences of Anglophone West Africa, Nsawam, Accra - Oct. 1997. Paper read "WOMEN IN ISLAM: SOME ISSUES OF CONCERN".

Yeboah, Brandford

Granted One year's study leave on part-time basis beginning Sept 1, 1997 to August 31, 1998 to pursue a Graduate Diploma course in Linguistics at the University of Ghana, Legon.

Guest speaker - Armed Forces Staff College, Teshie. Paper read: "African Traditional Religion, July 11, 1997.

Omenyo, Cephas

"Facilitator, **Conference of German Pastors to German speaking congregations in Africa**. Theme: "African Spirituality and the Christian Faith", Abokobi, Ghana. 1-10th January, 1996. Paper: "African Christian Spirituality".

African Christianity Project, West African Regional Conference, 3-6 April, 1997, Fourah Bay College, University of Sierra Leone, Freetown, Sierra Leone.

International Reformed- Pentecostal Dialogue, 10-16 May, 1997, McCormick Theological Seminary, Chicago, USA. Paper: "Work of the Spirit in Proclamation and the Manifestation of Charisms of the Spirit within the Church".
Facilitator, Ghana Armed Forces Staff Training School, Teshie, June 20, 1997. Paper: "Religion and Culture".
Guest speaker, Department for Theology and Religious Studies, University of Malawi, Zomba, 20th June, 1997. Topic: Reformed and Charismatic Traditions Meeting on African Soil".
Facilitator, Seminar for Church Leaders of the Church of Central Africa, Presbyterian, Malawi, 15-30th June, 1997, at Lilongwe, Malawi. Theme: The Work of the Holy Spirit in the Church. Paper - "Charismatic Renewal Within the Presbyterian Church of Ghana".
Seminars on Worship and Liturgy, Abokobi Women's Centre, Abokobi, 12-13 September, 1997. Paper: "Reformed Spirituality and Worship".

Suleman, Mumuni

Pan-African Art of Healing 1997 (AHAPA, '97). **Theme:** Healing, Religion and Spirituality in Contemporary Africa : July 7 - 11, 1997. Paper: Islam, Sufism and Healing among Muslims.

Benefactions

Some books were received as gifts from individuals, Churches and organizations.

School of Performing Arts

New Administrative Arrangements

The Vice-Chancellor has recently made the following administrative appointments to various headships in the School:

Head of Theatre Arts: Dr. Martin Owusu, Senior Lecturer in Theatre Arts, has been appointed Head of Theatre Arts for October 1997-September 2000.

Head of Music: Dr. William O. Anku, Senior Lecturer in Music, has been appointed Head of Music for October 1997-September 2000. He succeeds Dr. Asante Darkwa.

Coordinator of Dance: Mr. Asare Newman, Senior Lecturer in Dance, succeeds Dr. William Adinku as the new Coordinator for Dance.

Artistic Director of Abibigromma: Nii Kwei Sowah, lecturer in Dance, has been appointed Artistic Director of *Abibigromma*, till further notice.

Drama Studio Manager: The appointment of Mr. John Djisenu, Lecturer in Theatre Arts, as Manager of the Drama Studio has been extended, till further notice.

General Overview

The 1996-97 session marked the beginning of a number of significant new departures for the School of Performing Arts:

1. Following final approval by the Academic Board of a proposal submitted by the School, the first batch of students were admitted into a Bachelor of Arts degree programme introduced by the Dance Section of the Theatre Arts Department.
2. Proposals for the establishment of a new Department of Dance were considered and approved by the Board of the Faculty of Arts. Subject to final approval by the Academic Board, the new department will formally come into being at the beginning of the 1998-99 session.
3. Proposals for a Master of Fine Arts degree in Theatre Arts received initial approval by both Board of the Faculty of Arts and the Board of Graduate Studies. Following subsequent approval by the Academic Board, it is expected that the first batch of students will be admitted for the 1998-99 session.
4. Following a request from the Council for the Development of Social Science Research in Africa [CODESRIA], based in Dakar, the Academic Board gave approval for the establishment at the University of Ghana, of the CODESRIA African Humanities Institute Programme, to be attached to the School of Performing Arts. A full report on the first year of the new Institute is given below.

The Drama Studio

The Drama Studio has continued to maintain its role as the Performing Arts Centre of the University.

Besides Abibigromma, the professional theatre company of the School of Performing Arts, there has been a second resident musical group of the Studio since April, 1997, known as Dabatram. Led by Dr. Kodzo Gavua, a lecturer of the Archaeology Department, Dabatram participates in the Studio programmes; particularly Matemasic, a variety entertainment package. The Studio has access to the musical instruments of the band as well as its public address system. Dabatram also supports projects of the staff and students of the School, and assists popular music students to practise their skills.

The main stage of the Studio has served as the venue for performances by the staff and students of all sections of the School as well as other external users. One production that deserves special mention is the African premiere of *Fortunes of the Moor* at the studio from August 15 to 17, 1997. The play was written by Barbara and Carlton Molette, visiting professors from U.S.A.

The year under review has also seen the Studio ploughing back part of its profit into painting and general repairs. 200 new plastic chairs have also been purchased to add to the existing stock.

The School has approved the re-naming of the Drama Studio after its founder, the late Dr. Efua Sutherland. It is hoped that this will be carried out in the coming weeks.

Abibigromma

A Resident Theatre Company

Abibigromma, the Resident Theatre Company of the School of Performing Arts, Legon, continues to honour and perform the duties for which it was established in 1983.

The year under review has been one of the busiest for the group in the area of research performance and public education that stretched from Senior Secondary Schools to Companies and Organizations including the media.

Listed below are some of the major performances and workshops the group executed:

- a. Theatre for Schools programme initiated by the National Theatre and School of Performing Arts. (Abibigromma)
- b. Performance of "MIDNIGHT HOTEL" at National Theatre at Ghana's 40th Independence Anniversary Celebrations.
- c. Workshop on African Drama & Dance for School of International Studies, Boston & Legon, and Elizabeth City State University, U.S.A. in June.
- d. Improvised piece for Career Development Institute, Accra, on improved hotel and catering services as derived by the Ghana Tourist Board at the Golden Tulip Hotel in July.

- e. At PANAFEST'97 Abibigromma performed Calton & Barbara Molette's "FORTUNES OF THE MOOR" to a capacity audience at the Cape Coast Theatre in August '97.
- f. Workshop for Anum Secondary School at the Drama Studio.
- g. Abibigromma as Resource Persons at the workshop on English Literature for English Teachers in Greater Accra Region.
- h. Performance of "ROOTS & SPICES" sponsored by the School of Performing Arts in May '97.
- i. Performance at the Launching of Brigadier Anyidoho's "GUNS OVER KIGALI". Improvised a piece based on the Rwanda genocide.
- j. Improvised performance for Ghana Telecom on enhanced services on the occasion of launching of the Company's new Logo.
- k. Performed a concert dubbed "THE NEEDY CHILD" for JOY FM, a private radio station, on the plight of the street child. It was a charity show that raised money for S.O.S. villages and orphanages.

Department of Theatre Arts

Courses and Enrolment

Courses designed for students allow for specialization in key areas of Theatre, allowing for development of the professional theatre artist. Course work includes classes emphasizing development of personal aesthetic in ensemble creation. Our training explores the performer's full arsenal voice, body, mind, heart. It examines the range of alternative methods of experimentation and experience, and emphasizes successful transition into professional theatre.

Drama Section

The Section offered programmes leading to the award of a B.A degree in Drama in Theatre Studies and a 3-year Diploma in Drama. Programmes at both levels covered a wide range of academic and practical courses, including: Play Analysis and Interpretation; History of the Theatre; Dramatic Theory and Criticism; Performing Arts in Traditional African Cultures; Drama in African

Societies; Contemporary African and Modern Drama; African Plays and Playwrights; Radio, TV and Film, Speech; Costumes; Set Lighting Design; Stage Craft; Stage Lighting; Acting, Drama in Education; Theatre for Extension Communication, Playwriting, Directing; Adult Psychology; Production Participation; Theatre Laboratory; The Body and Voice.

Courses offered in the Dance Section leading to the award of a B.A degree in Dance and 3-year diploma during the year were: Dance Forms of Ghana; Anatomy and Physiology for the Dancer; Labanotation; Dance History, Dance for the Film and Television, Choreography; Stage craft; Orientation to the Theatre; Music; Dance Technique; Traditional African Dancer, Drumming and Staging, Theatre Management.

Student Numbers

Drama		Dance	
Level 100	78	Level 100	36
" 200	74	" 200	48
" 300	38		
400	24		
Diploma I	22	Diploma I	14
" II	23	" II	10
" III	21	" III	5

The Department will mount an MFA and an M.Phil. programmes in Drama and Theatre Studies with effect from 1998/99 academic year.

Staffing

The Drama Section has 3 Senior Lecturers, 7 Lecturers (One on study leave) 5 part-time Lecturers/Tutors, 1 Administrative Assistant (Dept. of Theatre Arts), 2 Junior Staff.

Dance Section

2 Senior Lecturers and 2 Lecturers.

Research

Kwakwa, A.P.

"Dances of the North." Report on a survey of Dance Forms in some States in Northern Nigeria, Ahmadu Bello University, Zaria. The Report is based on extended field study of dances of some ethnic groups in three States.

- Djisenu, J K. The Scope of Drama; Performance Space and Organization of Performances: Technical Documentation and Register of Performers. Creative interpretation of plays.
- Newman, S.A. Carried out more research and added other African Dance movements to the African Dance Technique I have created. Produced two full length dance pieces plus other eight short pieces which were performed to the public at a number of places.
- Aveh, A. National Film Policy for Ghana, The Divestiture of Ghana Films Industry Corporation, Video Feature Production in Ghana, Docu-drama, Television Programming in Ghana.
- Abdallah, M.B. Research into the Ancient Egyptian roots of the Oedipus Myth. Has led to a play (work in progress entitled :Song of the Pharaoh".
- Yirenkyi, M. Interim Secretary of the Executive Committee of the Internal Drama in Education Association (I.D.E.A.)Member, I.D.E.A. Research Committee currently coordinating research work among IDEA members. Effective Teaching of 2nd Cycle Curriculum through Drama.
- Adinku, W.O. Dance In School Curriculum in Ghana African Theatre Dance In Search of A Name.
- Owusu, M.O. Traditional Sources for the Modern Stage Analysis and Interpretation in African Drama. Research on Ghana's Parliamentarians for Docu-Drama. OLA Rotimi's *The Gods Are Not To Blame*
- Arkhurst, S. Theatre for Development Folk Media Grassroot Communication and Development

Publications

- Aveh, A. Revised Film Policy for Ghana ", - Glendora Review: African Quarterly on the Arts, Vol.1 No.4.1996, Lagos, Nigeria.

- Abdallah, M.B. Under consideration for publication by the Journal of the Black Theatre Network: OEDIPUS AND AKHNATEN: Myth and History Paper presented at the Annual Conference of the Black Theatre Network in Winston Salem, N. Carolina, USA, 1996.
- Djisenu, J. Review of David Kert's African Popular Theatre From Pre-Colonial Times to the Present Day. London, James Currey; Portsmouth, NH Heinemann; Nairobi, EAEP; Cape Town, David Philip; and Harare, Baobab; 1995 (Forthcoming in Dec.1997 issue of The Journal of Modern African Studies.
- Kwakwa, P. "Dance in Communal Life" "The Garland Encyclopedia of World Music". Vol. I, ED. By Ruth Stone M., Garland Publishers, New Stone, M. Garland Publishers, New York., June, 1997. JVC (Ghana Project) In: JVC Video Anthology of World Music and Dance, Japan Victor Company, Japan, Japanese Version 1994. English Version, 1996
- Adinku, W.O. "Review of Liturgical Dance Productions at Legon (Forthcoming) in *Journal of Performing Arts*.
- Arkhurst, S. Use of Mass Communication Media as an Instrument For Positive Change in the Image of Women: The Case of the Folk Media (*Journal of Performing Arts, Legon*. Vol.2 No.1, June, 1996
Quantitative Research on Condom & Abstinence Negotiation Among Youth in Ghana Training of Facilitators (John Hopkins Univ. Population Communication Services Manual, August, 1997).
- Owusu, M. African Drama - Analysis and Interpretation submitted to University Publications Committee). "Tragic Drama: An African Dimension" *Journal of Performing Arts* 1994/95.. Production of James Bridie's Tobias and the Angel Video Film Production of The Parliamentarian 1 & 2 (Friedrich

Nov. 29th - Dec. 5, 1997: Nairobi, Kenya - Symposium on Cultural Identity and Community Development and Preparatory meeting of IDEA Executive Committee for "Kisumu '98", IDEA's Congress.

Djissenu, J.

The African Premiere of Fortunes of the Moor (Barbara and Carton Molette). Directed by Carlton Molette and Performed by Abibigromma in Aug. 15, 16, and 17 at the Drama Studio; Sept. 3 at the National Theatre, and Sept. 4 at Panafest Cape Coast (Technical Coordinator). A resource person for Ghana Union of Theatre Societies: Workshop on Stage Management (Feb. 1, 1997). The Coordinator of Drama Workshop for the Gulf of Guinea (ADGG) with participants from Ghana, Togo, France, Rep. of Benin, Burkina Faso, Nigeria, Mali and Central African Republic.

Newman, S. A.

Organized two workshops for various church groups on the use of dance in worship. Attended two conferences in Pretoria South Africa 29th - 5th - Global Consultation on World Evangelization. 6th July 13th July - International Christian Dance Fellowship Conference. During which I presented a paper each, led workshops and performed to demonstrate the use of African Traditional Dances in Christian Worship.

Kwakwa, P.

Workshop on Syllabus writing for Basic Schools. Ajumako 1997. Conference on Research and Education in African Music and Dance (ICAMD) 1996, Legon. International Conference on Music and Healing (ICAMD).

Sowah, N. K.

1997 American Dance Festival's International Choreographers Residency Program for June 7 through July 25 in Durham, North Carolina. Conference on Music and Healing in Africa and the Diaspora Sept. 3-5, 1997.

- Adinku, W.O. International Centre for African Music and Dance: Conference on Music and Healing in Africa and Diaspora Sept. 3-5, 1997, University of Ghana, Legon. (Liturgical dance-drama) "Jacob and His Dream"(Genesis 28:10-19).
- Owusu, M. Arts Institute, National Theatre of Ghana - Feb.-March, 1997, Presentation of Paper on "Effective Teaching of English and Literature in 2nd Cycle Schools," to Teachers. Workshop on Media and the Arts Presentation of Paper on "Reviewing Drama for the Media" September, 1997, Friedrich Ebert Foundation and School of Communication Studies. Effective handling of Literature in Ghana's Educational Institutions" Goethe Institute, Accra., June, 1997.
- Arkhurst, S. Training Facilitators for Johns Hopkins University Research Project. July 21-30, 1997. Drama Workshops in two Communities in Upper East Region: (1 |) Navrongo - Feb. 17-20, 1997, Bolgatanga - Feb. 22-25, 1997. National Population Council Workshop on Adolescent Reproductive Health, at Miklin, East Legon. April 30-May 2, 1997.

Department of Music

Overview/Courses

The Department of Music offered courses to some 92 students majoring in Music in the following programmes: M.Phil (2 years), M.A. (1 year), B.A./ B.Mus (3 years), Diploma in African Music (2 years), Diploma in General Music (3 years). Courses in Music of Africa (Theory and Practicals) were offered during the year to 15 international students (Visiting/Special/Exchange) under the University of Ghana linkage programme.

In addition to the above, the Department of Music has embarked on a number of initiatives to enrich its programme. The particular areas designated on experimental basis include:

Music and Electronics, Music Production, Arts organization, Music journalism, and criticism, Recording technology, Conducting, Church music and Popular music; once a week Colloquium/Recital programmes every Wednesday as a forum for discussing the state of music research in the department, and also to enhance its performance programme.

The intentions of the programme, termed "Process of Art", are two fold: Firstly, it is to enable students interact with the world of music as it affects the community around them and thereby clearly see the artistic as well as the professional opportunities and challenges at first hand to enable better preparation to meet these challenges

Secondly, it is to enable both staff and students to re-examine the structure, process and functions of the art of music and music making and the effective transmission of skills and knowledge with the view of making necessary adjustments in the department's programme.

Staffing Position

The department has a total of 7 full-time and 6 part-time faculty members. There are 4 Senior Lecturers, 5 Lecturers, and 4 Tutors.

Research

Research work continued in the department during the year. The research areas in which the staff were involved include .

Darkwa, A.	The music and dance traditions of the Girmna of Kenya.
Collins, J.	On-going research into African popular music and dance.
Andoh, T.E.	Choral Music of early Ghanaian composers. History of the evolution of Ebibindwom: The Akan sacred - lyric, in the Methodist Church, Ghana.
Anku, W O	On-going research on Rhythm and structure in African Music. Computers in African music research
Amoah, G M.	Collection and compilation of African folk tunes as suitable teaching materials for beginners in Violin
Mpereh, D.	Collecting of folk songs from various ethnic groups in Ghana Research on Gospel Music. Case study - Mary Ghansah- Ansong (for M.Phil in Music degree).

Richter, V.J.R. Collecting Piano Music by African composers and analysing them for the purposes of teaching and recitals.

Publications

Collins, J. Paper at ICAMD Conference on Research/ Education in African Music , Legon, December 1996 "Popular Music, the Ghanaian School Syllabus and the Infiials Art and Improvisation"
E.T. Mensah The King of Highlife, Ananesem Press, Accra November 1996.
Highlife Time (2nd enlarged edition) Ananesem Press November 1996.
The Ghanaian Concert Party, Glendora Review, Lagos, Vol. I No. 4 1996
Music Feedback: African America's Music in Africa. Issue (ed.) Hawk and Brock Pub. by African Studies Association USA V. XXIV No.2 1996
West African Popular Theatre (Collins plus Barber & Ricard) Indiana Unviersity Press/ James Curry 1997.
Paper at ICAMD Conference on Music and Healing, Legon September 3 5 1997
"Gospel Highlife: Ghana's New Response and Unborn Anxiety"

Anku, W.O. Principles of rhythm integration in African drumming. Wilmington, DE. 1997 New directions: Readings in African Diaspora Music Vol 1, NO 1. 31-55.
Holistic Considerations of West African drum music analysis. An assessment. Legon 1997 Journal of Performing Arts. Vol 2 NO. 2. 12 -16.
Creative processes in African American drumming. Pittsburgh, PA 1995, International Jazz Archives Journal. Vol. 1 NO 3. 4-27.

Conferences/Seminars/Workshops

Collins, J ICAMD Conference on Music and Healing, Legon September 3 - 5 1997 "Gospel Highlife: Ghana's New Response and Unborn Anxiety"

Anku, W.O. ICAMD Conference on Church Music, Legon. Working Relationship of The Church Music

Institute with Organizations and Institutes.
(January 1997)
The College Music Society Summer
Workshop New perspectives on traditional
African music. San Diego, CA. (June 1996).
UC Davis Music Department seminar. Form
and structure African music Davis, CA.
(Feb. 1996)
West Coast Conference of music theory and
analysis UC Davis, Davis, CA (April 1996).

Codesria African Humanities Institute Programme

Transcending Boundaries: The Humanities and Socio-economic Transformation in the African World Technical Report on the 1996-97 Fellowship Programme

Introduction

Transcending Boundaries is a multi-year project which has established a tri-partite collaboration among Northwestern University, the University of Ghana, Legon, and the Council for the Development of Social Science Research in Africa (CODESRIA) in order to develop an important area of scholarship (the African humanities) neglected both in Africa and the U S. Activities undertaken in the project include courses and seminars, workshops and conferences, and resident research fellowships tenable at the University of Ghana, Legon and Northwestern University (in Evanston, Illinois, U.S.A.).

The project formally began operations in 1996-97 under a grant from the Ford Foundation. The first year of activities was dedicated to an exploration of "Film/Video/Television and Socio-Economic Transformation in the African World."

The Transcending Boundaries project has linked together three existing institutional frameworks for a new purpose and in relation to new subject matter of wide-ranging relevance.

The three institutional frameworks are:

i) *CODESRIA* [Council for the Development of Social Science Research in Africa, based in Dakar, Senegal], which has replicated its on-going model of social science Institutes and applied it — in respect to demand from its African constituency — to cultural studies and the humanities;

ii) *The University of Ghana, Legon*, which provides an institutional home for the CODESRIA African Humanities Institute Programme, in conformity with a new direction in the humanities set out under a newly formulated University Strategic Plan;

iii) *The Institute for Advanced study and Research in the African Humanities, Northwestern University* (in Evanston, Illinois, U.S.A.), which has moved towards more active linkages with specific African organizations in order to make optimal use of the resources at Northwestern University for Africa-based scholars and practitioners, and towards bringing students, faculty, and the outreach community in Chicago into closer working collaboration with African expertise and intellectual concerns.

All three parties have a record of collaboration, which has deepened since the launching of the Transcending Boundaries project. Those most directly involved in the project on behalf of the three institutions are: *Mamadou Diouf* (Head, Research and Documentation Department, CODESRIA), *Jane Guyer* and *Akbar Virmani* (Director and Associate Director, respectively, of the Program of African Studies, Northwestern), and *Kofi Anyidoho* (Director, School of Performing Arts, University of Ghana; and 1994-95 preceptor of the African Humanities Institute convened at Northwestern). Various humanities and arts faculty at Northwestern and Legon have also contributed to the conception and implementation of this project.

CODESRIA's participation in the project is organized through its African Humanities Institute Programme (located at the University of Ghana-Legon) and its personnel participate fully in defining Institute themes and in recruiting fellows and resource persons. The University of Ghana participates in all strategic decisions, hosts the ten-week long CODESRIA Institutes each year, and mediates the realization of their aims. Northwestern's participation involves the development and oversight of a quarter-long intensive seminar and ancillary activities on the theme for the year, oriented towards a critical mutual engagement between and among U.S.-based and Africa-based scholars in debates over the sources, theories, research methods and social relevance of work in the humanities in general, and in the African humanities in particular.

Goals of the Project

The Transcending Boundaries project seeks to achieve the following goals:

- a) enhance opportunities for study, research and creative work by African scholars and practitioners (chosen through annual competitions) and foster their professional interaction within cosmopolitan contexts, thereby enabling them to raise their visibility and develop national and continental networks;
- b) further capacity-building in Africa by equipping scholars with the skills needed to develop their curricula at various levels and become effective resource persons — notably in the arenas of teaching and outreach — for their home institutions;
- c) afford faculty and students at Legon and Northwestern opportunities to develop their potential for important and realistic research projects and encourage collaborative publications à la the models of works produced by CODESRIA and Northwestern; and

b) strengthen and expand linkages between Chicago-area educational institutions (particularly universities, colleges, high schools, and junior high schools) and Africa-based scholars and practitioners.

The Underlying Philosophy of the Project

The title of this project comes from a paper, "Transcending Boundaries: The Diaspora Experience in African Heritage Literatures", delivered by Kofi Anyidoho in Chicago in spring 1995. During his year-long tenure as preceptor of the African Humanities Institute at Northwestern, participants in the Institute addressed various kinds of boundaries arising from the current condition of peoples of African descent. In particular, we organized a conference on African writing in prison and in exile, where the gulfs between government and people, and between home and exile, centered our discussions. A second meeting, on scholarly authority in African Studies, addressed the gulfs between academic African scholars and the local expertise they exploit to develop canonical studies, and between Africa-based knowledge and the more highly formalized and internationalized productions of Western scholarship. Comprehensive as the issues seemed, however, we knew that we had only begun to investigate how new boundaries are defining constituencies in the 1990s and how such boundaries can be crossed. Although the conferences successfully provoked our thinking about constraints upon and divisions within the arts of the written word, the great boundary that we could hardly adequately cross lay between the literate and non-literate producers and consumers of culture.

At the same time, we were engaged with a CODESRIA Background Paper for a project on culture, titled *La Question Culturelle en Afrique*. Authored by Soulemane Bachir Diagne, a Senegalese philosopher, and Henri Ossebi, a sociologist from Congo, the paper addresses, substantively, the boundaries created by nation, ethnicity, and religion, while methodologically situating itself on the boundary of social scientific and humanistic analysis. Our concurrent work on the conferences and the CODESRIA paper yielded the realization that even while new and surprising linkages are multiplying in African cultural life on the continent and abroad, diffuseness and fault lines are also spreading. As demonstrated during Africa's nationalist period, scholarship and pronouncement alone cannot really transcend boundaries that people have generated and invested in; however, joint work over a substantial period of time on problems of great current relevance can provide the space for remarkably original ideas and initiatives. A project like Transcending Boundaries provides and maintains the needed bridges and fosters conditions for intensive and highly informed collective work in which the participants themselves create pathways across the frontiers.

Resources

Each of the three institutions brings to this project unique strengths. For example, CODESRIA, with its extensive network of African scholars, practitioners, and institutions, has a very successful infrastructure for publicizing projects, soliciting and reviewing proposals, and coordinating the

implementation of approved projects. CODESRIA plans to build a special humanities library collection at Legon, similar to the one it already has in Dakar for the social sciences. In fact, in May 1997, Northwestern hosted Mr. Abou Moussa Ndongo, the Chief Librarian at CODESRIA, for a very successful two-week visit during which he consulted with colleagues and presented his views on the need for expanded cooperation in library development.

The African Humanities Institute at Northwestern has received permission from the University's central administration to continue appropriating its preceptor position (a faculty slot) for the first five years of this project. The Institute already has excellent physical facilities (a multi-media conference room, computer-equipped and Internet-connected studies for fellows, etc.) and enjoys a very close relationship with the Herskovits Library of African Studies. The Herskovits Library, CODESRIA, and the University of Ghana prepare basic bibliographies in advance of each year's seminar.

The University of Ghana has recently initiated a strategic plan for development under which its School of Performing Arts has established film studies as a new area of specialization (the National Film and Television Institute, a regional institute for Africa located in Accra, is affiliating with Legon through the School of Performing Arts). The School already hosts the International Centre for African Music and Dance, established in 1993 with support from the Ford and Rockefeller Foundations. Especially for the African Diasporas Institute project in 1997-98, the University will also be able to draw on its long-standing relationship with the PANAFEST Secretariat and the W.E.B. DuBois Centre for Pan African Culture, an Accra-based facility founded in 1985 to promote the ideals of Pan Africanism through seminars and workshops, film/video-talk shows, public lectures, study tours, internships, exhibitions, and outreach programs for young people.

The Themes

1996-97

Film/Video/Television & Socio-Economic Transformation in the African World

1997-98

Slavery & The African Diaspora

1998-99

National Cultures and Identities: Philosophy Interrogates Contemporary Africa

1999-2000

The Composition & Transmission of Musican Forms in Africa

2000-01

Cultural Repositories and Commentaries

The five yearly themes chosen for the Transcending Boundaries project reflect the intellectual priorities of the three cooperating institutions and take maximum advantage of the resources of the three institutions.

1996-97

Film/Video/Television and Socio-economic Transformation in the African World

This theme was promoted by the authors of the CODESRIA document for its focus on three conspicuous sites of African cultural production (cinema, video, and television) that scholars have largely neglected. A case in point is the bi-annual film festival FESPACO (*Festival Panafricain du Cinema a Ouagadougou*), which is accompanied by minimal scholarly analysis from either humanists or social scientists. The 1996-97 Institute activities in Ghana were therefore planned to coincide with FESPACO, to allow representation of project participants on conference panels and attendance at the festival; similarly, activities in Evanston were timed to coincide with major film events in the Chicago cultural community, e.g., Columbia College's 3rd. Annual "African Film Festival, Visions III."

Serious initial difficulties arose from an unexpected delay in the processing and release of funds. Probably the most serious of these difficulties was our inability to send out in good time the announcement for fellowship applications. By the time official notification of the grant came through, there was very little time for the announcement to reach most parts of the continent. We were therefore forced to depend very much on recommendations from colleagues and heads of relevant institutions whose judgement we could trust. We even had to postpone by almost three weeks the formal opening of the residency program. In the end, however, we were able to offer seven fellowships to a strong group of highly motivated and quite experienced professionals and scholars.

The Legon and Evanston programs for the 1996-97 Institute enabled formal interaction among producers, students and audiences of African film, and engendered new understandings and facilitation of the cultural and creative processes of African film practice. Seven Africa-based fellows — Foluke Adestina, Africanus Aveh, Doris Kuwornu, Jide Malomo, Onookome Okome, Aboubakar Sanogo, and Horatius Y.B. Nuako — participated in the eight-week CODESRIA Institute at Legon titled "Film/Video/TV and Socio-economic Transformations in the African World." The Institute featured a seminar led by Professor Kofi Anyidoho on "Cinema and Literature" which, under the direction of professional film-maker Kwaw Ansah, surveyed the history of film-making in Africa and sought to discern the various factors (political, economic, cultural, etc.) that condition the type and volume of African film production.

From April 14 through June 6, all the fellows (except for Mr. Nuako) were hosted by Northwestern's African Humanities Institute in a residential seminar directed by Zainabu Irene Davis (Radio/Television/Film) that focused on contemporary African film culture and practice. In Evanston, the fellows took part in two specialized courses on film, attended lectures and film/video screenings, visited several off-campus events related to film and filmography, and participated in a week-long media literacy workshop organized in conjunction with the Radio/Television/Film department. In April, as conference

panelists at the African Literature Association's "FESPACO Nights in Michigan: African Film and Literature," the fellows interacted with academic professionals in film studies as well as prominent African film critics and film makers who had convened at Michigan State University for the ALA meetings.

Institute activities on campus included visits by several film specialists and practitioners: Martiniquan filmmaker Euzhan Palcy, acclaimed director of *A Dry White Season*; video artist Portia Cobb, who heads the Milwaukee-based Community Media Project; Gloria Gibson, film historian and director of Indiana University's Black Film Centre/Archive; Charles Burnett, director, most recently, of the feature film *Nightjohn*; Haile Gerima, Ethiopian film director and owner of Mypheduh Films, now based in Washington, D.C.; and film critic and programmer Cameron Bailey, key contributor to the Planet Africa Section, Toronto Festival of Festivals. In the media literacy workshop held May 12-16, the fellows benefitted from hands-on instruction in the use of digital editing systems and the classroom applications of the newest computer-based multimedia technologies. Also incorporated into the workshop was the observation of class sessions facilitated by Radio/Television/Film faculty, followed by discussions of teaching methodologies. Throughout, the fellows enjoyed significant interaction with Northwestern students and instructors.

The fellows also travelled to Bloomington, Indiana, to visit the Black Film Center/Archive and attended two events at the University of Chicago — "The LA Rebellion" film series and a conference on "The Atlantic Slave Trade and African/African American Memory." By the end of their residencies, the Institute fellows had taken in not fewer than 200 African and African American films and videos; honed their research skills; enjoyed access to the Internet and to some of the latest high-tech tools of film and video production; developed collegial ties among themselves and joined transnational professional networks linked to several leading figures in filmmaking and film studies; and permanently enriched the level of interest and expertise in African film and media culture at Northwestern. In sum, last year's activities were very exciting, greatly helped by the fact that the fellows became active members of our communities. So we feel very pleased with this first experiment with the model as we had planned it and hoped that it would work.

FACULTY OF LAW

Overview

The Faculty of Law continued to be housed at the temporary site. As in the past years, the Faculty continued to discharge its duties satisfactorily during the 1996-97 academic year. The limitations of the physical structure of the Faculty continued to pose a challenge. The library stock was increased considerably through gifts and donations while the quality of teaching and research was maintained.

Research Projects: Human Rights Study Centre

During the year under review, the Human Rights Study Centre continued to organize seminars and Human Rights Fora in collaboration with the Konrad Adenauer Foundation who acted as the funding partner. There was also collaboration with other Human Rights bodies in the sharing of information on Human Rights in Ghana.

Human Rights Seminar

A Human Rights Seminar was organized from September 18 to 19, 1997 on the theme **The Judicial System and the Protection of Human Rights in Ghana**. The objective was to educate the public on Ghana's Judicial System and the procedures by which people may demand justice. Six papers were presented by resource persons drawn from the Faculty of Law, the Ghana School of Law and the Chieftancy Secretariat.

Monthly Human Rights Fora

In collaboration with the Konrad Adenauer Foundation, monthly Human Rights Fora were organized with effect from January, 1997. The objectives were:-

- a. To serve as a forum for brain-storming on important human rights issues and policy proposals;
- b. Get relevant sectors of the community interested in the work of the Centre and also help to further propagate the image of the Konrad Adenauer Foundation in Ghana.

Human Rights Library Facility

The Centre has a library which is stocked with about 1,000 books in the subject area and is open to students and staff of the Faculty. It is also used by the Commission on Human Rights and Administrative Justice (CHRAJ).

Women and Law in West Africa Project

The work on the research project: Women and Law in West Africa which was established in 1996 continued during the year under review. The countries involved are Ghana, The Gambia, Nigeria and Sierra Leone. The research aims to investigate socio-legal issues affecting women in these countries with a view to making an input into policy and law reform.

The first publication of the Project *Women and Law in West Africa: Situational Analysis of Some Key Issues Affecting Women* is due in March, 1998.

The Alternative Dispute Resolution (ADR) Programme Background

The judicial system in Ghana has come under attack for being slow and inefficient and being inaccessible to a majority of the population. Some of the causes of the complaints have been identified as inadequate logistics and inadequate number of courts and other judicial staff. The need to thus improve the performance of the courts has coincided with the worldwide movement to popularize the use of alternatives to court litigation for the resolution of interpersonal and other types of disputes.

At another level, addressing issues that create conflict, as well as modes of conflict management have become important in view of the increase in the spate of inter-communal and even sub-regional conflicts. The new constitutional order has liberated the citizenry from the fear of brutal suppression and has opened up avenues for self-expression. This has resulted in age-old tensions among the various communities and ethnic groups resurfacing, sometimes with devastating consequences. It has thus become necessary to introduce ideas of conflict management and conflict resolution not just to the experts, but to the leaders and opinion leaders of the various ethnic groups.

The Programme

The Alternative Dispute Resolution Programme of the Faculty of Law started in 1996 after an initiative begun by Prof Ernest Uwazie (of the Department of Criminal Justice of California State University at Sacramento) established the Centre for African Peace and Conflict Resolution and proposals were drawn up, aimed at popularizing the ADR concept in West Africa. With sponsorship from the USA, Dr. Uwazie's programme made it possible for the Coordinator as well as a representative each of the Bench and Bar to receive training in the mechanics of alternative dispute resolution, in a training for trainers programme in the U.S.A.

The Programme took off at the Faculty with the organization of training workshops in and outside Accra with sponsorship from the United States Information Service in 1996. In 1997, with the help of the Hanns Seidel Foundation and in conjunction with the Ghana Legal Literacy and Resource Foundation the ADR Programme was able to offer training to institutional

representatives in the Volta, Brong Ahafo, Ashanti, Western and Eastern Regions. In July 1997, and in collaboration with the Centre for African Peace and Conflict Resolution of the California State University at Sacramento, training was given to tenure judges and lawyers in Accra in basic ADR techniques. In addition, a one day workshop was organized for Court Registrars in order to help the process of introducing ADR ideas into the judicial system of Ghana. During this same period, the Programme also offered training in Curriculum development in ADR for a number of lecturers from various departments of the University of Ghana and Ghana Institute of Management and Public Administration with a view to exposing them to ideas on ADR and assisting them to introduce courses on ADR in their teaching programmes.

Over 240 persons have undergone training in the mechanics of Alternative Dispute Resolution under the programme. These 240 persons belong to the following institutions in the six regions mentioned above:

1. Judicial Service - Both judicial and administrative officers
2. The Ghana Bar Association
3. Commission for Human Rights and Administrative Justice (CHRAJ)
4. National Commission for Civic Education (NCCCE)
5. Electoral Commission
6. Department of Social Welfare
7. 3 persons each from the Volta, Brong Ahafo, Ashanti, Western and Eastern Regional Houses of Chiefs.
8. Ghana Police Service
9. Rent Control Office
10. School of Administration
11. Ghana Institute of Management and Public Administration
12. Legon Centre for International Affairs
13. School of Communication Studies, Legon
14. Faculty of Law, University of Ghana
15. Ghana School of Law
16. The Legal Aid Committees in five Regions
17. Ghana Journalists Association.

Students

The breakdown of student statistics for 1996-97 is as follows:

Level 200

Advanced Level candidates	45
Mature students	5
Level 100 - 200	24
TOTAL	74

Level 300

LLB Pt.I	40
BA Pt.I	20
TOTAL	60

Level 400

LLB Pt.II	40
BA Pt.II	15
TOTAL	55

Moot Courts

All African Human Rights Moot Court Competition

For the third year running, the Faculty of Law was represented at the third All African Human Rights Moot Court Competition by three students and a lecturer. The competition which took place in Kampala, Uganda, was organized by the Centre for Human Rights at the University of Pretoria, South Africa, from 1st to 6th September, 1997.

The participants were Humi-Annie Seini, Kwansema Quansah and Seth Asante. Mr. Yaw Benneh was the leader of the delegation. Housing was provided by the Centre for Human Rights, Pretoria, while airfare and per diem were provided jointly by the African Society for International and Comparative Law and the Bank of Ghana. The University contributed to other incidental expenses.

Afro-Asian Moot Court competition

Messrs A.A. Mohammed and K.E. Daniel participated in the third Afro-Asian Moot Court competition held in Bangalor, India from July 31 to August 3, 1997. The competition was organized by the National Law School of India University. Ghana was the only African country represented. The invitation was based on the record of excellence of these two candidates in the All African Moot Court competition in previous years. Funding was provided by the University and Bentsi-Enchill and Associates

Staff

Mr. George Sarpong, Dr. E.K. Quashigah and Mr Yaw Benneh travelled to Leiden as part of the Link arrangement between the University of Leiden and the Faculty of Law.

The Faculty administration was enhanced with the appointment of a substantive Faculty Officer whilst the Library also continued to function satisfactorily under the supervision of the Librarian.

Research, Conferences and Publications

Research undertaken by staff include the following:

Kuenyehia, A.	Coordinating the Women and Law in West Africa Project Legal Aspects of Drug Prescribing and Treatment Guidelines: paper presented at
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the scientific symposium on the Ghana Medical Association. November 1996, Accra
Making Law Accessible to the Lay Person -
The Court System Paper presented at a
workshop organized by the Human Rights
Study Centre, Faculty of Law and the Konrad
Adenauer Foundation, December 1996, Accra
Gender Issues in Africa. Paper presented at
an International Consultation on Church
and Society in Africa, organized by the Akrofi
Christaller Memorial Centre, Akropong-
Akuapem, April 1997

Tsikata, F S

"The Vicissitudes of Mineral Policy in Ghana",
Resources Policy Volume 22 No.4 (1997)
pp.9-14 (Special Issue edited by R. Eggert &
J. Otto, published by Elsevier Science Ltd.,
U.K.)

Two seminars sponsored by the Rocky
Mountain Mineral Law Foundation, Denver,
Colorado and the International Bar
Association, Section on Energy & Resources
Law, both held in Denver, Colorado, USA.

a. International Resources Law Today's Oil,
Gas & Mining Projects (March 3-4, 1997);

b. International Environmental Law for
Natural Resource Practitioners (March 5,
1997);

The Changing Regulatory Regime for the
Power Sector in Ghana. Ongoing Research
Legal and Policy Issues Relating to Small-
Scale Mineral Operations in Ghana. Ongoing
Research.

Yeboa, K.Y.

The History of the Ghanaian legal System:
The Evolution of a United National System of
Courts; (1991-92) Vol 18 Review of Ghana
Law (RGL) 1-35, (published 1997).

The Courts Act, 1993 (Act 459): New
Elements Ghana Bar Association Lectures
in Continuing Legal Education 1993-94, pp
125-158 (published 1997).

Formal and Essential Validity of Akan and
Ghanaian Marriages: *McCabe v McCabe*
(1994) 1 FLR 410 (Family Law Reports) (1993-
95) XIX UGLJ 133-144. (published 1997).

Bigamy and Islamic Marriages in the Law of
Ghana: The Legislator's Dilemma or Studied
Silence. (1993-94) Vol 19 RGL 1-15.
(published 1997).

BARAKE v BARAKE: A-G OF CEYLON v REID IN RETROSPECT - The capacity of a Moslem Man Married Under the Marriage Ordinance (Cap 127) to Marry a Second Woman by Moslem Rites. (Forthcoming in RGL).

Land and Economic Development. Conference paper

Legal Systems and Plural Laws. Conference paper

Kotey, E.N.A.

Research into the situation of Women under the Law in Ghana. Part of a four country sub-regional study, the research concentrates on four areas namely, Family Law, Inheritance, Violence against Women and Land Issues.

Research into Policies that work for Forests and People. Part of a six country collaborative study with the International Institute for Environment and Development (IIED). Laid on the research is examining Policy and policy processes in order to improve the sustainability of forest management and optimize stakeholder benefits. Additionally, the study examined the conditions and options for forest certification in Ghana.

Research into Access to Environmental Justice in urban Ghana. This study examined opportunities for public participation in environmental decisions making through legal mechanisms and rights of access on environmental issues relating to land, water, air and waste.

1997. With S. Bass et. al. Policies Affecting Forests and People: Ten Elements that Work. Paper presented at the 15th Commonwealth Forestry Conference, Victoria Falls, Zimbabwe, 12-17 May, 1997. (To be published in the Proceedings of the Conference).

1997. "Enforcing Fundamental Human Rights: Accessing Legal Aid, FIDA, CHRAJ and the Courts", in E.K. Quashigah 'ed. Enforcing Fundamental Human Rights. forthcoming

1997. "Human Rights and Administrative Justice in Ghana under the Fourth Republic", in Costa, J-P. and Canania G. eds. Human Rights and Public Administrations

International Institute of Administrative Sciences, Brussels, pp.129-157.

1996. "The 1992 Constitution and the Compulsory Acquisition of Land in Ghana. Opening New Vistas?" in Managing Land Tenure and Resource Access in West Africa. Proceedings of a Regional Workshop, Goree, Senegal, 18-22 November, 1989, pp.244-261.

1996. With J. Mayers et.al. Incentives for Sustainable Forest Management: A Study in Ghana. IIED Forestry and Land Use Series No.6, International Institute for Environment and Development, London.

1996. With J. Mayers. Local Institutions and Adaptive Forest Management in Ghana. IIED Forestry and Land Use Series No.7, London, International Institute for Environment and Development.

Participant, Africa Regional Consultation of the World Commission on Forests and Sustainable Development, Yaounde, Cameroon, 59 May, 1997

Delegate, 15th Commonwealth Forestry Conference, Victoria Falls, Zimbabwe 12-17 May, 1997. With S. Bass et.al. presented a paper entitled "Policies Affecting Forests and People. Ten Elements that Work"

Participant, Regional Workshop on Managing Land Tenure and resource Access in West Africa, Goree, Senegal, 16-22 November, 1996. Presented a paper entitled "The 1992 Constitution and the Compulsory Acquisition of Land in Ghana: Opening New Vistas"

Mensa-Bonsu, H.J.A.N

- The Criminal Law and the Health Professional. Institute of Economic Affairs No.9 Occasional Paper Series, 1997.

The Ghana Legal System in an inflationary Economy" Vol. 20 Review of Ghana Law (forthcoming)

The Law and the Journalist Friedrich Ebert Foundation, Accra, 1997.

Seminar on Human Rights and Access to Justice "The Public Tribunal System and Human Rights". - 1996

Ghana Bar Association's Seminar on Bail "The Right to Bail, Judge-made Law and the 1992 Constitution" - 1996.

Ninth World Conference on Family Law - Cape Town South Africa "Family Matters in Development".

Seminar on Journalism and Good Governance - West African Journalist Association "The Law, Good Governance and Journalism Practice.

Ghana National Seminar on Governance UNDP/Parliament, 1997.

Seminar on Decentralized Governance in the Accra Metropolitan Assembly and "Conflict Resolution"

Workshop on Military/Civil Cooperation 1997.

Regional Workshop on Alternative Dispute Resolution, Faculty of Law/Hanns Seidel Foundation/Legal Literacy and Resource Foundation Accra, Volta, Brong-Ahafo and Ashanti Regions.

Cases, Text and Materials on the Criminal Law of Ghana (Forthcoming Publication)

Annotating the Criminal Procedure Code 1960, Act 30. Ongoing Research

Sarpong, G.A.

ECOWAS Statehood and Intervention: Reflections on the Liberian Crisis. University of Ghana Law Journal (UGLJ) forthcoming. 1996 Annual Conference of the African Society of International and Comparative Law, Cairo - September 1996.

a paper delivered at a Seminar on Legal Education organized jointly by the Law Faculty and Konrad Adenauer Foundation. "Access to Environmental Justice in Ghana". - March 1997

Annual Seminar African Society of International and Comparative Law (Ghana Chapter) Accra - June 1997. Delivered paper titled "ECOWAS STATEHOOD AND INTERVENTION. REFLECTION ON THE LIBERIAN CRISIS"

Resource Person Workshop for National Human Rights Institutions and NGOs in West Africa, organized by CHRAJ and AFRONET in collaboration with the British Council. Delivered a paper entitled "WORKING WITH NGOs" - June 1997.

Attended Workshop on the Incorporation of International Environmental Laws into

National Legislation organized by UNEP/UNDP/IUCN in conjunction with the Government of Mozambique, Maputo - July 1997.

Visiting Fellow, Leiden University. Conducted research into current developments in Public and Environmental Laws. Concluded paper titled "Environmental Justice in Ghana" July to September 1997, paper yet to be published.

Corroboration with the International Law Association (ILA) on Research into Vessel Source Pollution".

Quashigah, E. K.

The Judicial System And The Protection of Economic, Social And Cultural Rights in Ghana. In the Judicial System And The Protection of Human Rights In Ghana ed. by D.E.K. Quashigah published by Konrad Adenauer Stiftung, Accra, 1997 p.81-97.

Human Rights and African Economic Integration. Paper presented at the Eighth Annual Conference of the African Society of International And Comparative Law, Cairo, Egypt, 2-5 September, 1996.

Religious Beliefs and Social Interests Balancing Possible Conflicts Under the 1992 Constitution of Ghana Paper presented at the Human Rights Forum, British Council, Accra on 28th May, 1997.

Benneh, E. Y.

July - September 1996. Participated in the Legon - Leiden Project.

September 4-6 1996. Participated in the 1996 Annual Conference of the African Society of International and Comparative Law in Cairo, Egypt.

March - April 1997. Study Visit to the USA under the USIA International Visitor Programme. The visit afforded the opportunity for a dialogue with academia, industry, attorneys and other stakeholders on Copyright Law and Enforcement.

August 4-6 1997 Participated in the 1997 Conference of the African Society of International and Comparative Law in Abidjan, Cote d'Ivoire.

Statehood, Territory and Recognition in International Law; A Study of their

Interactions and Interrelationships with Special Consideration of the Practice of African States (Forthcoming).

Comment on Loan Agreements, International Business Transactions and the Treaty-making Power under the Fourth Republican Constitution of Ghana (Forthcoming in University of Ghana Law Journal).

New Directions in International Copyright and Neighbouring Rights (Forthcoming in April 1998 edition of Ghana Quarterly Law Journal).

Developments in Ghanaian Law Affecting Foreign Direct Investments. Ongoing research
The Lawfulness of ECOWAS and UN Sanctions against Sierra Leone. Ongoing research

Dowuona-Hammond, C.

Article entitled: 'Protecting the Consumer under Ghanaian Law' has been submitted for publication in Review of Ghana Law.

'Situational Report on Women and Inheritance in Ghana', part of a research study commissioned by the Research Project: Women and Law in West Africa. On-going Research. The results of the research will be published as a chapter in a book to be entitled: Women and Law in West Africa: Situational Analysis of some Key Issues Affecting Women by March, 1998.

Law Library

The Law Library with a holding of over 50,000 continued to be used by Faculty, staff and practitioners from all over the country. With a seating capacity of just over 200, the main limitation of the Library has been space.

About 6,000 books were received as gifts and donations from the following:

Friedreich Ebert Stiftung
The Commonwealth Law Book Programme (Book Aid International / Ranfurley Library Service)
American Bar Association African Law Initiative
The British Council
Michael Johansen, Roul Wellenberg Institute of Human Rights and Humanitarian Law
University of Lund, Sweden
Rural Environmental Assisted Project (REAP)
Law Offices of Kwame Danso Ayensu

Mr Charles Wireku Brobby
Professor Akilagpa Sawyerr
Professor Michael Steenson, American Bar Association Fellow
Ms Carol Elliot, American Library Association Fellow
Charlotte Kesson-Smith and Shiela Amaning

Rehabilitation of the Faculty

In addition to Books and Library materials, friends of the Faculty donated furniture and equipment and funds to rehabilitate the offices, utilities and compound to enhance the work of the Faculty. The donors include:

Peewood Company Limited, manufacturers of furniture
Rabami Company Limited, dealers in office furniture
Frank Beecham and Bram-Larbi
UNILEVER
Readwide Bookshop
Mr Nutifafa Kuenyehia
Margins Ltd
Mr Kofi Henaku, University of Leiden

FACULTY OF SCIENCE

Overview

The teaching and research programmes of the Faculty were enriched during the period under review with the approval, by the Academic Board, of three new programmes:

an Integrated Programme in Microbiology (Co-ordinator: Prof. G.T. Odamtten): this brings together under one administration all the various courses in Microbiology in the University in order to streamline the course outlines and minimize duplication;

an M.Phil Programme in Environmental Science (Co-ordinator: Dr. C. Gordon): it is now possible to enrol M.Phil students who will spend their first year taking courses in Environmental Science from several Departments in and outside the Faculty, return to their parent Department during their second (project) year and receive an M.Phil degree in Environmental Science;

a Network of Researchers in Biotechnology (Co-ordinator: Dr. F. Rodrigues): this is a first step towards the establishment of a Biotechnology Centre, the need for which was first articulated almost a decade ago.

These developments are the more satisfying since some of these programmes appeared destined to remain on the drawing board forever. It is our hope that these programmes will flourish and not be killed off by lack of funding.

Again, the Faculty had to live with seeing its hope of the now proverbial Chemistry building opening its doors to receive students sadly dashed. We were only able to remain afloat by reducing our Level 100 intake by about 60%. Clearly, this is not the way to go and there is a real risk that the non-completion of the building might do irreparable damage to our national aspirations.

The 8th Faculty Colloquium was successfully organised and faculty and graduate students spent a refreshingly useful time discussing science. Emeritus Professor Ebenezer Laing delivered a thought-provoking paper on "Science in Ghana and the coming Millennium" which was well received and discussed. We express our sincere gratitude to Price Waterhouse and Astek Ltd. for their kind support of our efforts.

We continue to lose some of our most dedicated senior faculty members through retirement (three, during the period under review). We hope that service conditions improve soon to enable us replace them with young men and women.

Department of Botany

Staffing Position

No new additions of Senior Members – Dr. T.K. Ogle taught Ecology Course (Environmental Zones of West Africa) as part-time Lecturer during the session under review.

Courses and Student Numbers 1996/97 Session

Level 100	283
Level 200	220
Level 300	12
Level 400	5
M.Phil Part I	7
M.Part II	9
Ph.D	2

Research Activities

Laing, E. Emeritus Professor

Genetics and heritability of Cowpeas (Vigna unguiculata Walp).

Clerk, G. C. Emeritus Professor

Ultrastructure, Reproduction and Physiology of fungi.

Odamtren, G.K.

Post-harvest pathology and conservation of economic crops.
Antimicrobial compounds
in higher plants as control agents for plant pathogenic fungi
Edible and poisonous mushrooms of Ghana.

Oteng-Yeboah, A.A.

Systematic Botany
Biodiversity Studies

Enu-Kwesi, Lewis

Ecophysiology of useful plants in Ghana.
Biodiversity Studies.
Autecology of some timber tree species.

Jumah Angeline H.

Palynology, studies on the morphology of pollen flora in Ghana.

Acheampong, Elizabeth	In vitro multiplication of plantain, cocoyam, yam and other root tubers.
Amoah, Cecilia	Water quality: biological component of Sewage.
Markwei, Carol	Studies on mineral nutrition of <u>Vigna subterranea</u> (Bambara groundnut) and <u>Xanthosoma mafafa</u> (Cocoyam).
Ameka, G.K.	Ecology of aquatic Macrophytes; Rheophytes of Ghana.
Yankson, Mary	Regeneration of some ornamental plants Studies on some diseases and pests of ornamental plants.
Adomako, J.K.	Field and laboratory studies on the regeneration of <u>Piptadeniastrum africanum</u>
Annang, T.Y.	Decomposition of aquatic macrophytes by fungi.
Abbiw, D.K.	Ethobotany with emphasis on use of plants in traditional medicinal practices.

Publications

Enu-Kwesti, L.	(1997). Floral and Faunal Diversity. Chp.9 in E.A. Gyasi and J.I. Uitto (eds.) <u>Environment, Biodiversity and Agricultural Change in West Africa</u> . (Perspectives from Ghana), pp.64-75. United Nations University Press, Tokyo, New York, Paris.
Gyasi E.A. and Enu-Kwesti, L.	(1997). A Multi-disciplinary Integrated Methodology. Chp.6 in E.A. Gyasi and J.I. Uitto (eds.) <u>Environment, Biodiversity and Agricultural Change in West Africa</u> . (Perspectives from Ghana), pp. 43-51. United Nations University Press, Tokyo, New York, Paris.

Enu-Kwesti, L.;
Oteng-Yeboah, A.A.;
Adomako, J.K. and
Abbiw, D.K.

(1996) Effects of logging on biodiversity in selected high forest ecosystems in Ghana. In A.A. Oteng-Yeboah and L. Enu-Kwesti (eds) Proceedings of Workshop on Biodiversity, pp.19-25, organized by the Botany Department, University of Ghana, Legon, Feb.23, 1996.

Oteng-Yeboah, A.A.,
Enu-Kwesti, L.; Adomako,
J.K. and D.K. Abbiw,

(1996) Effects of gathering and collecting of non-lumber forest products on Biological Diversity in Ghana. In A.A. Oteng-Yeboah and L. Enu Kwesti (eds) Proceedings of Workshop on Biodiversity, pp.13-18, organized by the Botany Department, University of Ghana, Legon, Feb. 23, 1996.

Gyasi, E.A. and Enu-Kwesti, L.

(1996). Collaborative Agroecosystems Management Project (CAMIP): Gyamfiase community-based initiative in countering Environmental Threat. In A.A. Oteng-Yeboah and L. Enu-Kwesti (eds.) Proceedings of Workshop on Biodiversity, pp.70-73, organized by the Botany Department, University of Ghana, Legon, Feb.23, 1996.

Enu-Kwesti, L. and
A.A. Oteng-Yeboah,

1997. Guidelines for participatory Approaches to Buffer Zone Development: A case study at the Katanga sacred grove (Malshegu) under the Cooperative Integrated Project on Savanna Ecosystem in Northern Ghana (CIPEG) - Lessons for Buffer Zone Development at Bia National Park, Ghana. A Paper presented at the 3rd Regional MAB- BRAAF Seminar/Workshop, 9-15 March 1997, Cape Coast/Kumasi, Ghana. (In Press)

Oteng-Yeboah, A.A.

(1996) International Convention on Biological diversity, the CEF and how they relate to PLEC research: WAPLEC Workshop. Tamale 11-13 Jan. 1996.

Ex situ and in-situ conservation potentials in Ghana: the role of National parks and Conservation Areas. In Facing the Storm: Five years of research in and around Kakum National Park, Ghana pp. 104-106. Mining operations, habitat loss and biodiversity in Ghana, (in press. Ghana Journal of Science)

(1997a) A survey of plant uses in three traditional groves in Guinea Savanna Zone of Northern Ghana. AETFAT Congress. Harare Zimbabwe 3-7 February 1997.

(1997b) Biodiversity, Agenda 21 and Biotechnology International Conference on Biotechnology, Enugu, Nigeria, 9-13 February 1997.

(1997c) Modern Concepts in Biodiversity Conservation 3rd BRAAF Conference UCC, 9-15 March 1997

(1997d) Research and training needs in conservation approaches in Africa. 3rd DNA Bank-net Meeting Nairobi Kenya 20-23 July 1997.

(1997e) Ex-situ conservation of indigenous Ghanaian Plant. Diversity 8 Faculty Colloquium Univ of Ghana, 12-13 June 1997.

(1997f) Ex situ Conservation of indigenous African Plants Diversity. Bioprospecting and strategies for industrial exploitation of medicinal and aromatic plants. Enugu, Nigeria, 22-27 September 1997.

(1997g) Conservation measures for bioprospecting. National Workshop on the Management of Bioprospecting. Univ. of Ghana, Legon, Nov. 5-6, 1997. In Press.

Ameka, G.K; Adomako, J.K; Swaine M.D. and De Graft-Johnson K.A.A

(1996). Ghanaian forest river chemistry. University of Aberdeen. Tropical Biology Newsletter 68; 1-2.

Ameka, G.K., Adomako, J.K. and De Graft-Johnson K.A.A

(1997) Rheophytes of Africa. In Proceedings of the 20th Biennial Conference, Ghana Science Association 4-9th August KNUST, Kumasi 1997. (In Press).

- Adomako, J.K., and Laung, E. (1997) The Vegetation and Environment of the Kakum National Park. In "Proceedings, 20th Biennial Conference of the Ghana Science Association 4-9th August, 1997 KNUST, Kumasi (In Press).
- Adomako, E.E., Adomako, J.K. and Boyliss-Smith T.- (1997). Conservation by Tradition: The case of the Guako Sacred Grove. In "Proceedings 3rd Regional UNESCO MAB-BRAAF Seminar/Workshop 9- 15th March 1997 Cape Coast and Kumasi. (In Press)
- Markwei, C.M, and LaRue, T.A. (1997) Phenotypic characterisation of *Sym 21*, a gene conditioning shoot-controlled inhibition of nodulation in *Pisum sativum* C.V. Sparkle. *Physiologia Plantarum* 100: 927-932.
- Odamtten G.T. and Clerk G.C. Eds (1996) Mitigation of stackburn in woven polypropylene bagstack maize for improved food security in sub-saharan Africa. European Union Publication/ National Science and Technology Press, CSIR, Accra Ghana 91pp. ISBN 9988-7756-0-1
- Nii Boi Ayiboteley and Annang T.Y. (1997) Ghana Water Resource Management Study: Information Building Block Study Vol.1, 2 & 3 Royal Danish Embassy, Accra.
- Clerk, G.C. and Kesse R.E.O. (1996). Survival of conidia of *Aspergillus niger* Van Tieghem formed at different relative humidities. In "Mitigation of stackburn in woven polypropylene bagstack maize for improved food security in sub-Saharan Africa. G.T. Odamtten and G.C. Clerk (Eds), p.63-64.
- Clerk, G.C. and Badu-Yeboah, K. (1996). A possible mode of dispersal of contaminant fungi of maize grains by *Sitophilus zeamais* Linn. In "Mitigation of stackburn in woven polypropylene bagstack maize for improved food security in sub-Saharan Africa. G.T. Odamtten and G.C. Clerk (Eds), p.65-67.

- Odamtten, G.T. (1996). Influence of mesh size of woven polypropylene sack on moisture sorption by maize grains and the comparative effect of jute and woven polypropylene sacks on moisture sorption and mycological quality of cocoa, coffee and rice. In "Mitigation of stackburn in woven polypropylene bagstack maize for improved food security in sub-Saharan Africa. Eds. G.T. Odamtten and G.C. Clerk. p.49-55.
- Odamtten G.T. and Hackman, D.K. (1996). Possible use of natural plant products as biofungicides in the control of seed-borne fungi contaminating stored maize varieties. In "Mitigation of stackburn in woven polypropylene bagstack maize for improved food security in sub-Saharan Africa. G.T Odamtten and G.C. Clerk (Eds).p.55-62.
- Allotey, J. and Odamtten, G.T. (1996). Insect multiplication, food preference, contaminant Aspergillus species and damage caused by Cryptolestes ferrugineus, Rhizoperta dominica and Sitophilus zeamais to normal and stackburnt maize in Ghana. In "Mitigation of stackburn in woven polypropylene bagstack maize for improved food security in sub-Saharan Africa G.T. Odamtten and G.C. Clerk (Eds). p.71- 79.
- Owusu, E. and Odamtten, G.T. (1997). The quality of Ghanaian herbal tea: Microflora and control measures. In Proceedings of the 20th Biennial Conference of the Ghana Science Association. 4-9th August KNUST, Kumasi 1997.
- Nche, P.F., Odamtten, G.T., Nout, M.J.R. and Rombouts F.M. (1995) Soaking of maize determines the quality of aflata for kenkey production. Journal of Cereal Science. 24: 291-297.

Conferences and Workshops

Senior Members from the Department attended several national and international workshops within and outside the country during the year under review (1996/97 Academic Session). The papers read are reflected in the listed publications

The Department of Botany hosted the underlisted workshops sponsored by some local and International Organisations

- i. Workshop on Biodiversity 23rd February 1996, sponsored by Support Programme BSP/WWP/GRANT/MS 28
- ii. National Workshop on the Management of Bioprospecting in Ghana, Sponsored by the Bioresources Development and Conservation programme BDCP, and the Ministry of Environment Science and Technology. 5-6th November 1997

Benefactions

Shaman Pharmaceutical Company donated \$15,000 US Dollars for the purchase of the a 4WD Toyota double cabin pick up for use by the Ghana Herbarium. This was in appreciation of the excellent identification services rendered by the Ghana Herbarium based in the Department of Botany of the University of Ghana.

The United Nations University has given the Department of Botany of this University a grant of US\$40,000 to enable it expand the Tissue Culture Laboratory in preparation for use of the Facility as a regional centre of excellence and training of manpower in Tissue Culture.

Department of Biochemistry

Overview

We would like to provide an overview which will bring to the fore the grim situation facing the Department in terms of facilities, in the hope that we will get the necessary help to put things right for the teaching and research in the subject area. Most of the people in the Department are about ready to give up because of lack of resources. It is true that this situation is prevalent and even pervasive. The effect is much worse in this Department because we are in the singular position of having to keep a number of (not one) rooms cold, spend a lot of resources to maintain a cold room in addition to the regular rooms which have to be kept cold, buy fine biochemicals which are much more expensive than ordinary chemicals, ensure almost non-interrupted power supply by having a stand-by generator, and yet get allocated a smaller share of the Faculty vote because the number of students registered with us is small.

The Department is also of the view that all students in the Biological Sciences should have some biochemistry and therefore, it is willing to offer courses to all such students. Yet the facilities do not allow us to do this. We still believe that Molecular Biology should grow in this University and it is our

responsibility to see to its growth so that others would use it as a tool. We still have to have the resources to let that happen. We are hoping that activities will be organized by the Unit established by the Faculty to oversee Molecular Biology & Biotechnology and these activities, in which the Department is involved, will lead to the establishment of a Centre of Excellence in this field, otherwise, molecular biology will pass us by and all of us will be losers.. Meanwhile we continue with our efforts in that direction by continuing to offer a practical course in Genetic Engineering/Molecular Biology for M. Phil. students during the inter-semester break, and a second practical course on gene isolation and manipulation for the undergraduate students majoring in Biochemistry.

We requested for a large laboratory to accommodate the expected increase in student numbers in subsequent years when the general student intake into levels 300 and 400 is expected to increase drastically. Our request was not granted. We are hopeful that in the near future this will be done to enable us increase our student intake. We cannot make biochemistry anything but a practical laboratory-based subject.

Courses

There were no changes in structure or number of courses.

Student Numbers

The list below gives the student numbers. Most of the students taking the Level 200 courses are registered with the Faculty of Agriculture. A few are students taking a Diploma course in Medical Laboratory Technology.

Level 200		76
Level 300		90
Level 400	(Single subject major)	14
	(Combined major)	14
M. Phil. (Year I)		6
M. Phil. (Year II)		4
Total		204

Staff

The Department lost Dr Robert Asare Acquaaah, one of the most dedicated lecturers we have ever known. May his soul and the souls of all the faithful people who have departed this life, rest in peace.

Research

The areas of research by Senior Members in the Department have not changed. We are happy to state that there has been more and closer collaboration with a number of Units at the Noguchi Memorial Institute for Medical Research

During the year under review, one of the Senior Members became a foreign mentor to students from Howard University, Washington DC., in a Minority International Research Training Programme. As the name implies, the MIRT programme sends students from minority groups in the USA to foreign countries to undertake research. As a foreign mentor, she played host to three foreign students who came over for a 10-week period, starting in May, to carry out research into our local medicinal plants. The Department gained from this relationship which brought in a few reagents and other supplies. Hopefully, the MIRT programme will continue

Our own student research projects listed below are indicative of activity in the areas of research in the Department.

Molecular Parasitology

- i. Inter-subject variability in the activation of proguanil to cycloguanil in Ghanaians. M. Phil. Thesis submitted.
- ii. The assessment of sensitivity of *Plasmodium falciparum* to anti-folate antimalarials. M. Phil thesis passed.
- ii. Comparative analysis of certain biochemical indices in human and horse sera. B.Sc. project.
- iii. Comparative analysis of some blood serum constituents of human and cow. B.Sc project.

Plants of Economic Importance

- i. Mode of inhibition of cytochrome P450-dependent monooxygenase reaction by *Desmodium atscendens*. M. Phil. Thesis passed.
- ii. Antimalarial properties of *Nuclea latifolia* using *Plasmodium falciparum* *in vitro* culture. M. Phil. Thesis submitted.
- iii. *In vitro* assay for the anti-diabetic activity of *Ocimum canum*. M. Phil. Thesis submitted.
- iv. Crystallization of miraculin, a taste-modifying protein from the fruits of *Richadella dulcifica*. M. Phil. project.
- v. Effect of *Croton membranaceus* on dihydrotestosterone levels in blood and its synthesis by prostatic 5 α -reductase in the rat. M. Phil. project.
- vi. Polyphenol oxidase activity in healthy and wilted pineapples. B.Sc. project.
- vii. Preliminary study of the antimicrobial activity of *Portulaca oleracea* and *Portulaca ovoidrifida*. B.Sc. project
- viii. Isolation and partial characterization of bromelain from ripened pineapple peels. B.Sc project

- ix Effect of an iron-protein compound obtained from the bark extract of *Khaya senegalensis* on laboratory-induced anaemic mice. B.Sc. Project.
- x Pectin methyl esterase activity in healthy and wilted pineapples. B.Sc. project.
- xi Isolation and characterization of iron-chelating compounds from fruit extract of *Solanum torvum*. B.Sc. project.
- xii Effect of *Desmodium adscondens* extract on mice hepatic microsomal cytochrome P450 system *in vivo*. B.Sc. project.
- xiii Effect of an extract of *Desmodium adscondens* on hepatic cytochrome P₄₅₀ reductase activity *in vivo*. B.Sc. project.
- xiv Analysis of carbohydrate and mineral content of corn cob. B.Sc. project.
- xv Protein and amino acid content of corn cobs. B.Sc. project.

Molecular Biology/Biotechnology:

- i Molecular analysis of cowpea varieties. M. Phil. Thesis submitted.
- ii Isolation and identification of sulfo-oxidising bacteria in the Obuasi mine site. M. Phil. project.
- iii Classification of cowpeas by DNA fingerprinting. B.Sc. project.

Pollution monitoring by molecular techniques

There were no student projects during this period

Publications

Adjimani, J.P. and
Owusu, E.

(1997) Non-enzymatic NADH/FMN-dependent reduction of ferric siderophores. *Journal of Inorganic Biochemistry* 66: 247-252.

Gadagbui, B. K-M.,

Addy, M.E. and Goksoyr, A.

(1996) Species characteristics of hepatic biotransformation enzymes in two tropical freshwater teleosts, tilapia (*Oreochromis niloticus*) and mudfish (*Claris anguillaris*). *Comparative Biochemistry and Physiology* 114C: 201-211

Dorleku, W.P. and Gbewonyo
W S K.

(1997) "The effectiveness of insecticide chalks marketed in Ghana." Proceedings of the 8th Annual Faculty of Science Colloquium, University of Ghana, Legon.

Clement, C (1997) "Synthesis of vitamin C using a local strain of *Aspergillus niger*." Proceedings of the 8th Annual Faculty of Science Colloquium, University of Ghana, Legon.

Clement, C. Asmah, R
Addy, M E. Bosompem, K.M
and Akanmori, B.D. (1997) Optimizing bioleaching of gold using local sulphuroxidizing bacteria for environmentally friendly gold mining - AGC experience." The Mining Industry and the Environment. UST/IDRC Environmental Research Group: Proceedings of a National Symposium, Ghana, pages 120-123.

Conferences/Seminars/Workshops Attended

a. The following Senior Members attended a meeting organised by the Committee on Science and Technology in Developing Countries (COSTED), towards a network of Natural Products Scientists in May, 1997

Professor Marian E. Addy
Dr. W.S.K Gbewonyo
Mr. C. Clement

b. The Senior Members in the Department attended the 8th Annual Faculty of Science Colloquium in June 1997

c. In addition, the following Senior Members attended the various meetings as indicated:

Addy, Marian E

Participated in a review course on Professional Practice in Clinical Chemistry. April 27th to May 1st, 1997. Washington, DC. Organized by the American Association for Clinical Chemistry.

Spent the month of August in the Biology Department of Howard University familiarizing herself more with the Minority International Research Training program.. MIRT at Howard University is located in the Biology Department.

Attended the 17th International Congress in Biochemistry and Molecular Biology which took place in San Francisco, California in the USA, August 25th to 29th 1997, and the satellite symposium on Cytochrome P450 which started on August 20th.

Clement, C.

National Symposium on the Mining Industry and Environment, April 14 & 15, 1997 at the University of Science and Technology, Kumasi.

National Wetlands Strategy Workshop, held in Accra in March 1997 as a Resource Person. The Workshop was on "Coastal Wetlands Management Project: Developing a Ghana National Wetlands Strategy".

Department of Chemistry

Overview

On the whole, the 1996/97 academic year was a manageable year compared to the previous year. It began on a very positive note with the appointment of one of our number, Professor I. Addae-Mensah, as Vice-Chancellor. There was also a flurry of activity at the site of the new building marking yet another attempt by all parties involved to complete the new Chemistry building within an estimated three months. Unfortunately, it went the way of all the previous attempts. By early January, 1997, activity virtually ground to a halt due, we believe, to the non-release of funds.

At the undergraduate level, the Department welcomed the drastic reduction in fresh intake into level 100 from the 330 of the previous year to 128. This reduction coupled with the eventual arrival of a supply of basic glassware and chemicals ordered for the previous year enabled the Department to handle a total of 527 undergraduates with relative ease.

For lectures, the restrictive capacity of the lecture theatres together with the need to stem the high failure rates at Level 200 promoted the Department to run four parallel streams at Level 200. With this arrangement, class sizes did not exceed 100 and students no longer had to peep through windows or stand at the back of the hall to follow lectures. We believe the greater interaction between lecturers and students made teaching more effective. It however meant that 10 out of the total staff strength of 12 were occupied with teaching at Levels 100 and 200 throughout both semesters.

Limitations in laboratory space and equipment necessitated practical sessions being conducted in shifts - twice a day throughout each week for the two semesters. At any particular session however, it was a relief to both Senior Members and technical staff to be able for once, to provide each student with the necessary set of glassware so that students could acquire individual hands-on experience. Unfortunately, our self-sufficiency was short-lived! Students, partly out of unfamiliarity with laboratory practices and partly due to carelessness, cracked expensive rare items like burettes and pipettes at an alarming rate. Indeed the Department's fears expressed in last year's report that the forced reduction in the extent of practical instruction at Level 100

was bound to have serious repercussions have been proved right. The Department is yet to work out a scheme which would ensure the replacement of broken items, serve as an effective deterrent against breakages, and at the same time be student-friendly.

At the postgraduate level, research efforts were adversely affected by shortages of solvents, chromatographic absorbents, and fine chemicals. In addition, researchers often had to wait for long periods whilst spectroscopic data on their samples were acquired for them overseas. Indeed, all seven fresh MPhil Part II candidates cited the delays in their applications for an extension of time to complete their programmes. Fortunately, our attempts at rehabilitating the IR, UV and GC instruments began to yield results towards the end of the year. Hopefully, routine IR and UV data determined locally will soon become the norm. Once again, the Department sought permission for the MPhil Part II candidates to engage in paid demonstration duties in excess of the maximum of eight hours per week. Whilst conceding that this interfered with their research output, it would have been impossible otherwise to cope with the marking of 471 practical notebooks each week.

Courses

The usual undergraduate and MPhil programmes were run. In particular, the Department reverted to running a full complement of practical sessions, i.e. CHEM 103 and CHEM 104 for the Level 100 programme.

Student Numbers

The following numbers were recorded for the First Semester.

Medical Laboratory Technician's Programme	12
Level 100	128
Level 200	343
Level 300	38
Level 400	7 + (11)
MPhil Part I	3
MPhil Part II	7

In practice, attendance at lectures for Level 200 was higher than the figure indicated by about 100 due to students (from both Level 300 and Level 400) who were retaking failed core Chemistry Courses at Level 200.

Staff

One member of staff was granted sabbatical leave. Members at post continued to serve on various outside boards and committees such as the West African Examinations Council (Examiners at GCE "O" Level, SSSCE and GCE "A" Level), the Ghana National Commission of the Inter-Governmental Oceanographic Commission, Technical Committees of the Ghana Standards Board, and the Environmental Protection Agency. Some served as external examiners in Chemistry for our sister Universities.

Benefactions

The Department acknowledges with gratitude the following donations:

- a set of six comfortable library chairs donated by the 1994 class of MPhil Part II candidates;
- about five million cedis worth of assorted chemicals and solvents donated by National Film and Television Institute (NAFTI).

Research

Research in the department during the current session covered the following areas:

Natural Products Chemistry

Work in this area involved the structure elucidation and biological activity studies of the extractives of Ghanaian **medicinal** plants such as *Cassia alata*, *Spondias mombin*, *Dichapetalum madagascariensis*, *Blumea aurita* var *foliolosa*, *Milletia trivinei* and *Capparis erthocarpus*. The selected plants are used traditionally for the management of several physiological conditions including anaemia, skin diseases, diabetes, leprosy, hepatitis, dysentery, poisoning from snake bites, cold and nose bleed. The investigation of sea weeds for the characterisation and commercial exploitation of their agar content added a new dimension to natural products research in the Department. Collaborative work continued (in conjunction with the Universities of Benin, Togo, and Quebec) on the **commercial** evaluation of essential oils from selected tropical plants for small and large scale soap and cosmetic industries.

Petroleum Chemistry

Studies continued on the analysis of the constituents of crude petroleum from Ghanaian drilling wells.

Environmental Chemistry

Environmental studies in collaboration with the Institute of Oceanography, University of Calabar, Nigeria investigated marine pollution along beaches in Ghana and Nigeria. Effluents from local industries also received attention, in particular water effluents from sugar based beverage industries; solid wastes from plastics based industries; and effluents from biogas production. The environmental status of the Densu Basin was assessed. It involved the chemical and biological analysis of biotic and abiotic samples from selected areas.

Inorganic/Analytical Chemistry

Studies continued on azopyridines and their complexes with chromium and cobalt as well as the solubilities of organolead (IV) and organotin (IV) guest-host coordination polymers

Application of Computers to Education

Work in this area included consultancies on computers in telecommunications and education; and the development of educational software, in particular the development of a mouse and screen interface in C++ for use with both text mode and graphic mode simulations. Part of the results from this study provided an interesting graphic diversion at the 8th Faculty of Science Colloquium.

Staff Publications

Fate and distribution of lindane and endosulfan in maize and cowpea ecosystems; Yeboah, P. O., Montford, K. G., Klake, R. K. and Akpabli, C. K. *Organochlorine Insecticides in African Agroecosystems*, Joint FAO/IAEA Research Coordination Report, IAEA-TECDOC-931, pp 93-101, published by IAEA, Vienna, March 1997.

Biogas energy production in Ghana – environmental pollution analysis; Akpabli, C. K. and Gyasi, S. *Ghana Journal of Chemistry*, 1997, **3(1)**, 1-6.

Furo and thieno derivatives of 5-amino-8-methyl-1, 2-dihydro (2,3-h)-1,6-naphthyridines; Kingsford-Adaboh, R., Kashino, S., Sasaki, K., Rouf, S.S. and Hirota, T. *Acta Cryst.*, 1996, **C52**, 372-375.

Determination of iron in plants used by Ghanaian herbalists in the treatment of iron deficiency anaemia; Asomaning, W. A. and Debrah, C., *Chemistry and Industry*, 1996, **1(8)**, 99-105.

(E)-Anethol as a major essential oil constituent of *Clausena anisata*; Addae-Mensah, I., Asomaning, W. A., Oteng-Yeboah, A., Garneau, F-X, Gagnon, Helene, Jean, F-I., Mondachirou, M. and Koumagio, K. H., *J. Essent. Oil Res.*, 1996, **8**, 513-516.

Conferences, Seminars, Workshops

Asomaning, W. A. Workshop on Marketing of Natural Products and Resource Management, Chancellor College, University of Malawi, Zambia, 4th-8th August, 1996.

Akpabli, C. K. CSRP-Cowpea Project National Workshop on Cowpea Processing and Utilization, Accra, 5th-6th September, 1996.

- Akpabli, C.K. & Asomaning W.A. Ghana Chemical Society Workshop for Chemistry Teachers in Second Cycle Institutions. Two papers presented (**The SSS Chemistry Syllabus: An Appraisal and Practical Examination Organisation**) Sasakwa Center, University of Cape Coast, Cape Coast, 16th- 21st December, 1996.
- Akpabli, C. K. Institute of Adult Education 48th New Year School: Theme **Education in Ghana: Challenges and Prospects**, University College of Education of Winneba, Winneba, 28th December, 1996 3rd January, 1997.
- Asomaning, W. A. Working visit to the Centre for Distance Education, Simon Fraser University, Burnaby, British Columbia, Canada, 2nd-14th February, 1997.
- Carboo, D. and Brimah, A.K. National Symposium on the **Mining Industry and the Environment** organised by Kwame Nkrumah University Science and Technology (KNUST)- IDRC. Two papers presented (**Determination of As³⁺ and As⁵⁺ in some Ghanaian Gold Tailings; Arsenic Pollution in Streams and Sediments in the Obuasi area**), Kumasi, 14th-15th April, 1997.
- Carboo, D. Seminar on Preparation of a National Profile to Assess National Infrastructure for Sound Management of Chemicals in Ghana organised by Environmental Protection Agency (EPA). Paper Presented (**Review of the national Profile Document**), 1997
- Asomaning W.A. & Akpabli, C.K. The West African Distance Education Association (WADEA) Conference / Workshop, GIMPA, 24th-27th April, 1997. International Conference on Technology and Distance Education: Theme - **Opening New Frontiers for Learning**, Accra International Conference Centre, Accra, 27th-29th April, 1997.

- Akpabli, C.K. National Distance Education Conference: Theme - **The Management of Course Development and Delivery: Challenges and Strategies**. University College of Education of Winneba (UCEW), Winneba, 7th June, 1997.
- Oppong, I. V. & Phillips, F.L. 8th Faculty of Science Colloquium, University of Ghana. Two papers presented (**Simulated Demonstrations and Chemical Investigation of the Root Wood of *Milletia thonningii***). Legon, June 1997.
- Akpabli, C.K. Gulf of Guinea Large Marine Ecosystem Project: National Workshop on Integrated Coastal Areas Management organised by the Ministry of Environment, Science and Technology, Novotel, Accra, 16th-18th July, 1997.
20th Biennial Conference of the Ghana Science Association: Theme - **The Wood Industry: Meeting Current and Future Demands**. Paper presented (**Impact of Domestic and Industrial Waste on the Quality of Water in the Odaw River in Ghana**), Kwame Nkrumah University Science and Technology, (KNUST) Kumasi, 4th-9th August, 1997.
- Asomaning, W. A. Legon Distance Education Course Writers' Workshop, Legon, 1st- 12th September, 1997.

Department of Computer Science

Overview

The Department of Computer Science is now more stable in terms of human resources and equipment than it has ever been in the past fifteen years or so. We are still small in terms of full-time teaching staff, of whom there are only three, but we do get valuable assistance from three part-time staff from commercial and research establishments.

There is still a great deal of pressure on enrolment. The opportunities and potential jobs in computing, in this country, are still enormous and the pressure from students to enrol in computing courses is not surprising. Our limitation is the recruitment of new staff. The remuneration package offered by the University is not sufficiently attractive for young computer professionals and academics. This is true also for some other departments, and is a problem that requires urgent attention.

Programmes

There have been no substantial changes in the programmes that we offer for the BA and B.Sc. degrees. However we still have not been able to find lecturers for two important courses on our curriculum.

Student Numbers

		1994/1996		1996/1997		1997/1998	
Level 200:	B.A.	14		10		10	
	B.Sc.	37	51	66	76	60	70
Level 300:	B.A.	10		11		10	
	B.Sc.	36	46	35	46	53	63
Level 400:	B.A.	10		7		11	
	B.Sc.	31	41	31	38	35	46
Total		138		160		179	
Service Courses		88		90			

Graduates

	1996	1997
First Class Honours		
Second Class Upper		7
Second Class Lower		18
Third Class		10
Pass		
TOTAL		35

Staff

Teaching Staff:	Full-Time	3
	Part-Time	2
Technical Staff:	Full-Time	2
	Full-Time	3

Research, Conferences and Extension

Senior members of the Department continued research and consulting work in the following areas:

Abdulai, M.S.	Inter-Networking and Distributive Systems:
Arycetey, J.A.	Systems Analysis and Design Computer Auditing.
Odoom, I.	Development and Applications of Databases.

Conferences

Mr. Mohammed-Saani Abdulai was co-organiser of the First Ghana Internetworking Technology Workshop held at the University of Ghana, 3 - 14 February, 1997.

Mr. Abdulai also attended the Annual Workshop and Conference of the Internet Society held in Kuala Lumpur, 11 - 28 June, 1997

Donations

Mr. George Yartey Quaye of Oakland, California, a Ghanaian born U.S. citizen donated the following equipment and teaching materials to the department between 1996 and 1997:

1. One (1) Printer and Accessories
2. Several Application Software
3. 200 DSHD Diskettes
4. Several Books

The Department is very grateful for this kind donation.

Department of Geology

Overview

The 1996/97 Academic Year was successfully run without any major events to report on. The Department received Visiting Professor Anthony E. Annor to complement its staffing position. He is also to strengthen the staffing position for the Ph.D. Programme for Mr. Bruce K. Banoeng-Yakubo and Mr. Jacob Kutu. Messrs David Atta-Peters and Bruce K. Banoeng-Yakubo who were on Fulbright Fellowship programmes have returned to the Department. Mr. Simon Oklety received the 1997 Guinness Award for saving his fieldmate's life from a swam of bees during their mapping project.

Courses

The introduction of the course-credit system gave the Department the opportunity to re-organise its courses for more effective teaching and field supervision. Some courses at Level 300 and 400 were re-arranged to make it possible to concentrate only on field methods and mapping (the back-bone to geology) for the level 400 students in the second semester. This used to be a major problem faced by the Department when there were disruptions in the academic year. Vacations/Inter-semester breaks have to be shortened for Geology students to make up time for the field methods and mapping including extensive laboratory work. With this change the problem has been effectively solved for good. The Department also started placement of student in the mining companies during the second semester break.

Student Numbers

Level 100	334
Level 200	48
Level 300	23
Level 400	25
M.Phil.	5
Ph.D.	1

Three of the M.Phil. students have presented their theses for examination. The results of the B.Sc. final year examination are yet to be approved by the Academic Board, however, four are expected to obtain second class upper division and a majority would have second class lower with a few third class degrees.

Staff

The year started with seven permanent lecturers made up of one Professor, two Senior Lecturers and four Lecturers. One Senior Lecturer has proceeded on Sabbatical Leave. There were also two Senior Staff and six Junior Staff members at post. Mr. B. K. Banoeng-Yakubo in October 1995 started a sandwiched programme for a Ph.D. degree. He was also awarded a Fulbright Fellowship to the Desert Research Institute, University of Nevada, U.S.A. in August 1995 to August 1996. Mr. David Atta-Peters also a Ph.D. candidate was awarded a Fulbright Fellowship to study at the Centre for Excellence in Palynology, Louisiana State University, U.S.A. in December 1996. He returned in November 1997.

The Department has selected areas of national interest to intensify its research activities and seeking funding to support the activities. There were indications during the year that the funding would be approved from two sources - DANIDA and the Mineral Development Fund. Funding from these sources will be for projects to address problems in Water, Environmental and Mineral sectors and to find effective solutions to them. The funds would be ready for use in the 1997/98 academic year.

Publications

Some publications were turned out by departmental staff:

- | | |
|----------------------------------|--|
| Abugre, C. and Akabzaa T. | The Pursuit of Foreign Direct Investment and Implications for Environmental and Social Policy in Africa - The Case of the Mining Sector - African Agenda Vol.1 No.2, 1997. |
| Atta-Petters, D. | Late Devonian and Early Carboniferous Plant Microfossils from the Takoradi Shale Formation of the Sekondian Group, Western Ghana. Africa Geoscience Review, Vol.3 Nos. 3 & 4, 1996 |
| Anan-Yorke, R. & Atta-Peters, D. | A review of the Age of the Takoradi Shale Formation of the Sekondian Group. Ghana Mining Journal, Vol.2, No.2, 1996. |

Benefactions

Professor Lilian Skjernaa of the University of Copenhagen visited the Department in 1997 to appraise the Ph.D. programme of Mr. Bruce K. Banoeng-Yakubo and also to upgrade the joint research proposal for funding by DANIDA on groundwater development.

Mr. Simon Okleley, winner of the 1997 Guinness Award and a past student of the Department presented a wall clock to the Department of Geology.

Department of Mathematics

Overview

The Department continued to operate with only five members of staff. It could therefore during the year offer courses at the undergraduate level only. However, indications are that at least two more appointments will be made next academic year. Also Dr. Frimpong-Mireku, who has been on study leave, may join us soon. Such appointments are bound to enhance considerably the Department's work and reduce the workload of staff to enable them devote more time to research.

Courses

(a) B.A./B.Sc. Programme

Teaching of B.A./B.Sc. programmes was satisfactorily carried out. With the help of Teaching Assistants and National Servicemen, tutorials were conducted in all courses.

(b) Service Courses

Two service courses, General Mathematics I and II, were offered to the following groups of students:

	<u>General Mathematics I</u>	<u>General Mathematics II</u>
Science	220	20
Arts	45	20
Agriculture	50	
Home Science	23	
Diploma in Medical Laboratory	10	

Student Numbers

Courses were offered to the following groups of students r e a d i n g Mathematics only or combining Mathematics with other subject(s):

	<u>1st Semester Arts Science</u>	<u>2nd Semester Art Science</u>
100 Level	11 38	8 37
200 Level	58 168	30 47
300 Level	9 21	28 79
400 Level	11 19	6 10

Staffing Position

Dr. S.A. Adjei is now enjoying the second year of his sabbatical leave. However, with the arrival during the second semester of Prof. Louis Friedler as Visiting Professor, the staffing position slightly improved. Three (3) National Servicemen (Messrs. Julius B. Dasah, Justine Gbang and Yaw Kyei) helped with tutorials during the academic year under review. Professor N.K. Kofinti retired from the service of the University at the end of the year but was, fortunately for the department, offered contract appointment.

Research

Senior Members continued their individual research work in the fields of Topology, Statistical Mechanics, Quantum Field Theory and Quantum Gravity. Progress has been slow in view of the heavy teaching load.

Publications

L. M. Friedler and A Kitover

Almost homorphism of compact spaces to be published in Topology and its Applications. (1997)

Conferences/Seminars/Workshops

Members of staff participated in the conference of the Mathematical Association of Ghana held in Koforidua. Some also continued to serve as Chief Examiners and Moderators of West African Examinations Council papers in mathematics.

Benefactions

The Department acknowledges with thanks books donated to it by Prof. Louis Friedler.

Department of Nutrition and Food Science

Research and Extension

The Department continued to provide leadership and excellence in the two fields of Food Science and Nutrition. In addition to teaching, staff were involved in several research programmes. These include:

Sefa-Dedeh, S.,
Sakyi-Dawson, E.,
Collison, E.K.,
Budu, Agnes, .
Asiedu, Matilda S.
Owusu, W.B.,Wilson, D.
and Kwadzo, G.T-M.

Improved processing technologies to increase Cowpea utilization.

This project which is USAID-funded under its Collaborative Research Support Programme, is a collaboration between the University of Georgia (USA) and the University of Ghana. The project has been reviewed till the year 2002

Asibey-Berko, E.,
Tayie, F.A.K.,
Zlotkin, S. & Ahunu B.K.

Study on the efficacy of double-fortified salt. Project is funded by the "Micronutrient Initiative" and IDRC (Ottawa, Canada)

S-Asiedu, Matilda, Asibey-Berko, E.,
Orraca-Tetteh, R., Ayernor, G.S.,
and Budu, A. gnes and
Fiadjo, F.M.Y.

Processing of protein foods to improve Nutrition and health. Funded by the Norwegian government through NUFU

All Academic Staff

Artisanal Fish Project. Sponsored under the Ghana/Netherlands Artisanal Fish Processing and Applied Research

Extension Community Nutrition Intervention

In collaboration with The Hunger Project-Ghana, the cowpea-CRSP project is involved in a community nutrition programme. The communities of Ewutu Kwaman No. 1 and 2 in the Central Region of Ghana are predominantly farmers. High rates of birth and infant malnutrition occur. One of the products developed under the Cowpea-CRSP project, cowpea-fortified maize dough, is being used to improve the nutritional status of the children.

Training in Food Processing

The Food and Agricultural Organization of the UN through its Africa Regional Office requested the Department to train some rural women in food fortification. The task involved the training in the fortification of gari with cowpeas (*Vigna unguiculata*).

Admissions Undergraduate Students Food Science

Level 200	164
Level 300	55
Level 400	32

Nutrition

Level 200	126
Level 300	61
Level 400	14

Post-graduate Students

M.Phil (Food Science) -	14
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M.Phil (Nutrition)	8
Ph.D (Food Science)	6
Ph.D (Nutrition)	3

Post-Graduate Fellowships

Two foreign-funded projects provided support to post-graduate students to undertake research attachments in the U.S.A. and Norway.

1. Miss Gloria Tetteh, M.Phil Food Science student, spent four months in the University of Georgia, Centre for Food Safety and Quality Enhancement, Griffin, U.S.A. This was through the Bean/Cowpea CRSP Research Project.
2. Mrs. Clara Opare-Obisaw, Ph.D Nutrition candidate, was at the University of Bergen, Norway for three months under the NUFU project.

Publications

- Boeh-Ocansey, O. (1996) Strategies for Strengthening Small and Medium-sized Industries in Ghana. Anansesem Publications Ltd. Accra, Ghana. 1996
- (1997) Ghana's Microenterprises and Informal Sector: Bedrock for National Development. Perspectives in Education, Training and other Support Services. Anansesem Publications Ltd. Accra, Ghana. 1997.
- Okigbo, B.N., Ofori, C.Asare, E. and Ayernor, G.S. (1997) Nutrition through home gardening. (A training package for field workers in Sub-Saharan Africa) (Book in Press). FAO, Rome
- Plahar, W.A., Nti, C.A., and Steiner-Asiedu, M., Studies on fish consumption patterns and fish quality at household level in the Northern sector districts of Ghana. A report submitted to the Ghana/Netherlands Artisanal Fish Processing and Applied Research in Africa. Food Research Institute, Ghana. (1997)
- Owusu, W.B. et al. Calcium intake and the incidence of forearm and hip fractures among men. Journal of Nutrition, 1782-1787 (1997).
- Nketsia-Tabiri, J. and Sefa-Dedeh, S. Optimizaton of process conditions and quality of salted dried Tilapia (*Oreochromis niloticus*) using response surface methodology. J. Sci. Food Agric. 69:117-127 (1995)

- Sefa-Dedeh, S. Process and product characteristics of agbelima. *Trop. Sci.* 35 (4):359-364. (1995)
- Collison, D. K., Sefa-Dedeh, S., Amegatse, W. and Kwadzo, G. T-M Food Production, Nutrition and Family Health. A case study of cowpea farming in Ga Rural. In: Cowpea Utilization Research. UGL-CRSP Working Paper 96-1 (1996)
- Sefa-Dedeh, S., Amegatse, W. and Lartey, A. (1996) Food Production, Nutrition and Family Health. A case study of the nutritional status of cowpea farming families in the Ga rural In: Cowpea Utilization Research. UGL-CRSP Working Paper 96-2.
- Sefa-Dedeh, S., Donkor, M., Lartey, A. and Asiedu, M. S. 1996 Infantfeeding practices of hospitalized malnourished children and cowpea utilization. In: Cowpea Utilization Research. UGL-CRSP Working Paper 96-4.
- Osei, A. K., Sefa-Dedeh, S., Adu-Danso, E. O., Ahedor, R. P., Acquaaah, R. A., Frimpong, K. and Collison, E. K. 1996 Chemical and physical characteristics of some Ghanaian cowpea varieties. In: Cowpea Utilization Research. UGL-CRSP Working Paper 96-5
- Annih-Bonsu, F. A. M., Sefa-Dedeh, S. and Sakyi-Dawson, E.O.. (1996) Effect of processing on anti-nutritional factors in cowpea and cowpea-fortified cereals. In: Cowpea Utilization Research. UGL-CRSP Working Paper 96-6
- Sefa-Dedeh, S. and Senanu, E. (1996) Physical, chemical and functional properties of stackburnt maize. In: Mitigation of Stackburn in woven propylene bag-stack maize grains for improved food security in Sub-Saharan Africa. pp. 31-39. Eds. Odamtten G. T. and Clerk, G. C. Publ. European Union, Brussels.
- Sefa-Dedeh, S. (1997) Traditional Food Processing Systems: Opportunities for Food Science and

Technology Intervention. In: Proc. International Conference on Traditional Foods. CFTRI, Mysore, India. March 6-8, 1997 (In Press)

Sefa-Dedeh, S., Sakyi-Dawson, E. and Budu, A. S. (1997) Traditional Food Products of Ghana. In: roc. International Conference on Traditional Foods CFTRI, Mysore, India. March 6-8, 1997 (In Press)

Sefa-Dedeh, S., Saalah, F.K. and Sakyi-Dawson, E. (1997) Upgrading traditional food processes and products. The case of fermented cereal products. Proc. Of International Conference on Traditional Foods. CFTRI, Mysore, India. March 6-8, 1997 (In Press)

Saalah, F. K. and Sefa-Dedeh, S. (1997) Extrusion of maize-cowpea blends in a modified oil expeller. J. Sci. Food Agric. 73: 160-168.

Akpapunam, M. A. and Sefa-Dedeh, S. (1997) Jack bean (*Canavalia ensiformis*): Nutrition related aspects and needed nutrition research. Plant Foods for Human Nutrition 50:93-99.

Akpapunam, M. A. and Sefa-Dedeh, S. (1997) Some physico-chemical properties and anti-nutritional factors of raw, cooked and germinated Jackbean (*Canavalia ensiformis*). Food Chemistry 59:121-125.

Amoa-Awua, W. K. , Frisvad, J. C., Sefa-Dedeh, S. and Jacobsen, M. (1997) The contribution of moulds and yeasts to the fermentation of 'agbelima cassava dough. Journal of Applied Bacteriology (In Press)

Participation in Local and International Conferences and Meetings

Ayemor, G.S. Workshop on Cassava Processing. September, 1997. NBSSI. Analysis of traditional technology: Case studies on Cassava Processing.

- Owusu, W.B. 20th Biennial Conference of the Ghana Science Association
 (i) Growth patterns of Ghanaian infants from different socio-economic households.
 (ii) The relationships among national socio-economic indicators and child health statistics.
 3rd National Training Course on Food and Nutrition for Health and Development. University for Development Studies, Tamale. October 1977. Determinants of individual nutrition security.
- Sefa-Dedeh, S. United Nations 23rd Session of the Administrative Committee on Coordination/Subcommittee on Nutrition. Feb. 24 -Mar 1, 1996
 Food and Agriculture Organization of the U.N. NGO Workshop on Food and Nutrition. May 14-16, 1996
 USAID/FAO/WHO Conference on "Micronutrient Interactions: Impact on Child Health and Nutrition. International Life Sciences Institute, Washington DC, USA. July 29-30, 1996.
 Bean/Cowpea CRSP West Africa Regionalization Conference. Michigan State University, East Lansing, Michigan. August 5-6, 1996
 National Strategic Forum on Poverty and Hunger. The Hunger Project-Ghana. March 1997, Accra
 Kwahu South District Strategic Forum. Mpraeso "Sustainable development and community ownership".
 International Conference on Traditional foods. Central Food Technology Research Institute, Mysore India. March 6-8, 1997
 Traditional Food Processing Systems- Opportunities for Food Science/Technology Intervention.
- Sefa-Dedeh, S., Sakyi-Dawson, E.O. & Budu, A.S. Traditional Food Products of Ghana
- Sefa-Dedeh, S., Saalia, F. K. and Sakyi-Dawson, E. O. Upgrading traditional food process and products. The case of fermented cereal products.

- Seta-Dedei, S International Council for Scientific Unions - Committee on Sciences for Food Security Meeting - Paris - May 1997.
 Institute of Food Technologists 1997 Annual Meeting - June 14-18, 1997 Orlando, Florida - USA The role of Food Technology in the attainment of food and nutrition security in sub-Saharan Africa Seminar on Community Based Social Investment Fund (CBSIF), Accra, September 16, 1997
 Sensitization Workshop for District Stakeholders - Dangbe West District Assembly Poverty Reduction Programme, Dodowa, September 25-26, 1997
 "Promoting Community Ownership of Projects - Some lessons from Hunger Project-Ghana Workshop at Dhaka, Bangladesh
 A study of the efficacy of double-fortified salt in Ghana
 Workshop by the School of Public Health, University of Ghana, September 1997.
 Summary of Nutrition Research on the School-age child in Ghana
 Artisanal Fish Processing Project Research Workshop, Accra, December 1997.
 The iodine content of Ghanaian sea fish and the effect of traditional processing.
- Faculty of Science Colloquium, University of Ghana, June 1997
- Budu, A.S. Insects associated with traditionally smoked fish.
- Krow, M. and Ayernor, G S Mineralogy of traditional table salt in Ghana.
- Budu, A.S. Project Review Workshop on the Ghana/Netherlands Artisanal Fish Processing Project. May 1997.
 The impact of the artisanal fish processing project on the reduction of post-harvest fish losses in Ghana.
- Asibey-Berko, E. The Ghana Medical Association Workshop. Kingsby Hotel, Accra., 25 July, 1997.

The Medical and Research Staff Workshop.
Tetteh Quarshie Hospital, Mampong-
Akwapim, 5 September, 1997
Seminar at the Directorate of Fisheries,
Institute off Nutrition, Bergen, Norway,
9 October, 1997
Seminar at the Department of Health
Geography, University of Trondheim,
Norway, 15 October, 1997
Prevalence of iodine deficiency disorders in
Ghana

Membership of International and Local Bodies/Panel

Prof S. Sefa-Dedeh served as a member of the following International Organizations.

- a. Scientific Advisor, International Foundation of Science (IFS), Sweden.
- b. International Council for Scientific Unions (ICSU) Committee on Sciences for Food Security.
- c. International Institute of Tropical Agriculture. Center Commissioned External Review Panel on Post-harvest Research.

Benefactors

The Department received several research equipment and facilities.

- a. USAID CRSP-Cowpea Project
 - TA/XT2 Texture Analyser
 - Gateway Computer and Accesories
 - Freezer
 - Food Dehydration Oven
 - Miscellaneous chemicals and supplies
- b. Micronutment Initiative and IDRC of Ottawa, Canada, provided funds to study "Efficacy of double fortified salt" in a locality with high endemicity of iron and iodine deficiencies
NUFU continued support to the research and capacity building in protein foods.
 - Nitrogen Analyser Perkin Elmer 2410
 - The Milli-Q Plus System
 - Electric Generator
 - Water Pump
 - Freezer

Department of Oceanography and Fisheries

Overview

The Department is gradually growing. In the course of the year, two graduates (Messrs Elvis Nyarko and Francis K. E. Nunoo) who had been trained through our staff development programme with the University of Newcastle upon Tyne, UK, returned to Ghana with M.Phil degrees. They have been temporarily appointed as Principal Research Assistants pending final determination of their status. The link arrangement with the University of Newcastle upon Tyne, UK continues to grow and staff and students have been exchanged. During the year under review, the Department in collaboration with the University of Newcastle upon Tyne, organised an International Conference on the coastal zone of West Africa which was attended by over 120 participants from 18 countries. The proceedings of the seminar have been published and are now available.

Courses

Currently, the Department is running postgraduate programmes in Fisheries Science and Oceanography. Additionally, it taught the following 4 undergraduate courses for the Department of Zoology: Introductory animal biology, marine biology, fisheries, oceanography and chordate biology.

Students

Currently, there are 5 M.Phil. and 5 Ph.D research students.

Staff

The Department has 3 Senior Members and two principal research assistants, supported by two administrative staff, a messenger and driver.

Research

Research projects currently in progress are:

- (i) Biodiversity of zooplankton in Ghanaian coastal waters
- (ii) Biodiversity of marine macrobenthos in Ghanaian coastal waters.
- (iii) The life history of *Sierrathrissa leonensis* in the lower Volta lake.
- (iv) Impacts of bamboo fishing on *Chrysichthys* species in the Volta lake.
- (v) The acadja fishery of the Keta lagoon.
- (vi) Biomonitoring of tributyltin and other heavy metal pollution in the coastal waters of Ghana.
- (vii) By-catch problems of Ghana's shrimp fishery.
- (viii) Coastal Management.

Conferences/Workshops/Seminars

Workshops and Seminars attended by staff are as follows:

- Armah, A.K.**
- International Seminar on the Coastal zone of West Africa, Accra Ghana (25 - 29 March, 1996) Organisers, University of Ghana and University of Newcastle, UK.
 - First International workshop on mangroves management organised by the Global Environment Facility-Large Marine Ecosystem of the Gulf of Guinea (GEF-LME-GOG) in Accra (1 - 10 April, 1996).
 - First International workshop on Coastal Area Management organised by the Global Environment Facility- Large Marine Ecosystem of the Gulf of Guinea (GEF-LME-GOG) in Abidjan, Cote d'Ivoire (26 - 30 August, 1996).
 - International Workshop on Continental Shelf fluxes of Carbon, nitrogen and phosphorus. Organised by Joint Global Ocean Flux Study (JGOFS) and Land Ocean Interactions in the Coastal Zone (LOICZ), Lagos, Nigeria (14 - 18 October, 1996).
 - Second International Workshop on Coastal Area Management organised by the Global Environmental Facility- Large Marine Ecosystem of the Gulf of Guinea (GEF-LME-GOG) in Limbe, Cameroun (18 - 22 November, 1996). Paper presented was on "A profile of Integrated Coastal Areas Management (ICAM) in Ghana".
 - Second International Workshop on mangroves organised by the Global Environment Facility-Large Marine Ecosystem of the Gulf of Guinea (GEF-LME-GOG) in Cotonou, Benin (18 - 22 December, 1996). Paper presented was on "An evaluation of a questionnaire for the assessment of effects of pollution and over-cutting of mangroves in Ghana".
 - The 20th Ghana Science Association Conference, Kwame Nkrumah University of Science and Technology, Kumasi (4 - 9 August, 1997)
 - National Workshop on Climate Change: Vulnerability and Adaptation Assessment organised by the Environmental Protection

- Agency of Ghana and Netherlands Government Climate Change Assistance Programme in Accra, Ghana (4 - 5 September, 1997)
- Nunoo, F.K.E. International Seminar on the Coastal zone of West Africa, Accra, Ghana (25 - 29 March, 1996) Organisers, University of Ghana and University of Newcastle, UK. The 20th Ghana Science Association Conference, Kwame Nkrumah University of Science and Technology, Kumasi (4 - 9 August, 1997).
- Nyarko, E. International Seminar on the Coastal zone of West Africa, Accra, Ghana (25 - 29 March, 1996) Organisers, University of Ghana and University of Newcastle, UK. The 20th Ghana Science Association Conference, Kwame Nkrumah University of Science and Technology, Kumasi (4 - 9 August, 1997).
- Vanderpuye C. J. International Seminar on the Coastal zone of West Africa, Accra, Ghana (25 - 29 March, 1996). Organisers, University of Ghana and University of Newcastle, UK. International symposium on the socio-economic benefits of Integrated coastal zone management held in Bremen, Germany (9 - 14 December, 1996).
- Wiafe, G. International Seminar on the Coastal zone of West Africa, Accra, Ghana (25 - 29 March, 1996). Organisers, University of Ghana and University of Newcastle, UK. Training Workshop on Plankton Identification organised by UNDP/UNIDO Gulf of Guinea Large Marine Ecosystem Project in Accra, Ghana (29 April - 10 May, 1996). The 6th Biennial Workshop of the Ghana Science Association in Accra, Ghana (1 August, 1996). Training Programme on United Nations Convention on the Law of the Sea, its implementation and Agenda, organised by the International Ocean Institute, Dalhousie University, Canada (8 June - 15 August, 1997)

Paper presented was on "Aquaculture and Mariculture in Sub-Saharan Africa". National Workshop on Climate Change: Vulnerability and Adaptation Assessment organised by the Environmental Protection Agency of Ghana and Netherlands Government Climate Change Assistance September, 1997).

Publications

Book

Evans, S.M., (1997) *The Coastal Zone of West Vanderpuye, C.J. and Africa: Problems and Management*. Armah, A.K. eds. Proceedings of the International Seminar on the Coastal Zone of West Africa Peshaw Press, U.K. pp. 243.

Articles

Armah, A.K., (1997) Managing the coasts of Ghana. Darpaah G. A. & In Evans, S.M. Vanderpuye, C.J. and Wiafe G. Armah, A.K. (eds.) The Coastal Zone of West Africa: Problems and Management. Proceedings of the International Seminar on the Coastal Zone of West Africa. Peshaw Press, UK, pp. 243.

Armah, A.K., (in press) Traditional and Modern Darpaah G.A., Perspectives in Marine Turtle Wiafe, G. Adomako, J. Conservation in Ghana. Proceedings of third UNESCO MAB Regional Conference on Biosphere Reserves for Biodiversity and Sustainable Development in Anglophone Africa. 9 - 15 March, 1997. Cape Coast, Ghana.

Armah, A.K., (in press) Water Quality Studies on Darpaah, G.A. and Associated Rivers in Wiafe, G. Southern Ghana. Proceedings of the 20th Ghana Science Association Conference, 4 - 9 August, 1997, Kwame Nkrumah University of Science and Technology, Kumasi.

Armah, A.K., (in press) Heavy metal and physical Darpaah, G.A. and parameters of drainage ways and wells Carboo, D. in three mining areas in Ghana. Proceedings of the 20th Ghana Science Association Conference, 4 - 9 August, 1997, Kwame Nkrumah University of Science and Technology, Kumasi.

- Armah, A.K., Adomako, J.K. and Agyepong, E.K. (1997) Towards sustainable management of mangroves in Ghana UNIDO/UNDP/NOAA/UNEP Gulf of Guinea/Large Marine Ecosystem Project in Project Newsletter. No. 6:9-10. Abidjan, Cote d'Ivoire.
- Fiati, C., Vanderpuye, C.J., Armah A.K. and Koranteng, K.A. (1997) Catch composition and monthly variation in size at first maturity of the anchovy, *Engraulis encrasicolus*. In Evans, S.M., Vanderpuye, C.J. and Armah, A.K. (eds.). The Coastal Zone of West Africa: Problems and Management. Proceedings of the International Seminar on the Coastal Zone of West Africa. Peshaw Press, U.K. pp. 187- 196.
- Nunoo, F.K.E. (1997) The By-catch problem of the industrial shrimp fishery in Ghana. M.Phil. Thesis, University of Newcastle upon Tyne, UK.
The By-catch problem of the commercial shrimp fishery of Ghana in: Evans, S.M., Vanderpuye, C.J. and Armah, A.K. (eds.) The Coastal Zone of West Africa: Problems and Management Proceedings of the International Seminar on the Coastal Zone of West Africa. Peshaw Press, U.K. pp. 187-196
(In press) By-catch - A problem of Ghana's Industrial shrimp fishery. Proceedings of the 20th Ghana Science Association Conference, 4 - 9 August, 1997, Kwame Nkrumah University of Science and Technology, Kumasi.
- Nyarko, E. (1996) Anthropogenic impacts on gastropods in the coastal areas of Britain and Ghana. M.Phil. Thesis, University of Newcastle upon Tyne, U.K.
- Nyarko, E. and Evans, S.M. (1997) Impacts of tributyltin pollution and human food gathering on the gastropods *Thais haemastoma* and *Thais nodosa* along the Ghana Coast. In: Evans, S.M., Vanderpuye, C.J. and Armah, A.K. (Eds). The Coastal Zone of West Africa: Problems and Management

Proceedings of the International Seminar on the Coastal Zone of West Africa. Penshaw Press, U.K. pp. 93-101.

(in press) Heavy metal pollution in marine molluscs in the coastal waters of Accra, Ghana. In: Proceedings of the 20th Ghana Science Association Conference, 4-9 August, 1997, Kwame Nkrumah University of Science and Technology, Kumasi.

Saenger, P., Sankare, Y., Baglo, M., Isebor, C., Armah, A.K., and Nganje

(1997) The Gulf of Guinea Project: Managing Mangroves to protect biodiversity in West Africa. Intercoast Network, Special Edition. No.134-35. Narrangansett, Rhode Island, U.S.A.

Vanderpuye, C.J. and Armah, A.K

(1996) Training Needs for Integrated Coastal Zone Management in West Africa. In: Socio-economic Benefits of Integrated Coastal Zone Management: an International Symposium, pp. 64-66 Bremen, 9-14 December, 1996.

Vanderpuye, C.J., Boateng, K.O., Armah, A.K. and Darpaah, G.A.

(1997) Lengthweight relationship, population parameters, and dynamics of blue-spotted bream, *Sparus caeruleostictus* (Val. 1960) in Ghanaian waters. In: Evans, S.M., Vanderpuye, C.J. and Armah, A.K. (Eds). The Coastal Zone of West Africa: Problems and Management. Proceedings of the International Seminar on the Coastal Zone of West Africa. Penshaw Press, U.K. pp. 187- 196.

Wiafe, G. and Frid, C.L.J.

(1996) Short-term temporal variation in coastal zooplankton communities: relative importance of physical and biological mechanisms. Journal of Plankton Research 18 (8) 1485-1501

(1997) Hydrographic forcing and Zooplankton temporal variation off the coast of Ghana, West Africa. In Evans, S.M., Vanderpuye, C.J. and Armah, A.K. (eds). The Coastal Zone of West Africa: Problems and Management. Proceedings of the

International Seminar on the Coastal
Zone of West Africa Penschaw Press,
U.K. pp. 149-159.

Benefactions

1. Through the Oceanography link with University of Newcastle, the Department has benefitted from a total of 190 books from the British Council valued at €27 million.
2. A book on computing and several volumes of the journal, *Estuarine and Coastal Shelf Science* were also received from Mr M.A. Kendall of the Plymouth Marine Laboratory, U.K.

Department of Physics

Overview

The Department continued with its teaching, research and extension activities, but with the increased student numbers, the teaching load has increased considerably for every staff member. This situation would have been worse, had it not been possible for the Department to recruit part-time lecturers from the Ghana Atomic Energy Commission (GAEC) at nearby Kwabenya. Whether GAEC would continue to allow the use of their staff to bail out the Physics Department remains to be seen.

Student Numbers by Category

Student numbers at present are as follows:

(i)	Level 100	231
(ii)	Level 200 (Mathematical/Physical/ Earth Sciences Option)	58
(iii)	Level 200 (Biological Science Option)	266
(iv)	Level 300	27
(v)	Level 400	28
(vi)	M.Phil Part I	3
(vii)	M.Phil Part II	4
(viii)	Ph.D.	4

Staff Position

Prof. K.G. Adanu, Associate Professor, Prof. E.K. Agyei, Associate Professor, and Dr. K. Oduro-Afriyie, Senior Lecturer, have been on sabbatical leave. Prof. G.K. Tetteh, Professor, retired as of 1st October 1997, but has been engaged

on post-retirement contract for the 1997/98 academic year.

Dr. K. A. Owusu-Ansah, Senior Lecturer, who is on leave without pay, has given notice of his intention to resign his position as of 1st July 1998.

Mr. J. B. Darko, Lecturer, who has been on study leave in the UK pursuing a Ph.D degree, is yet to resume duty in the Department.

The establishment for the Department was 14, even before the influx of the much larger numbers of students. As of today, only 6 out of the 9 staff on roll are at post; the other 3 being on leave.

Within the next two years, three more staff would have retired, making the staffing position in the Department most precarious. Something drastic just has to be done to attract and retain younger staff in the Department.

Research

Research still continues in the fields of energy, X-ray fluorescence, geochronology, solid state physics/materials science. The atmospheric physics work is now mainly in remote sensing. The Department has 4 M.Phil and 4 Ph.D. students working on their research projects.

Publications

- Amuzu J.K.A. "The Nuclear Option in Ghana" (in press)
- Kakane V.C.K. and Soegaard, H. "Estimation of Surface Temperature and Rainfall in Ghana" *Geografisk Tidsskrift Vol.97 pp76-84.*
- Tetteh G.K. and Schandorf, C. "Analysis of Dose and Dose Distribution for Patients undergoing selected x-ray Diagnostic Procedures in Ghana."
Accepted for publication in *Radiation Protection Dosimetry No.155*
"Analysis of Status of X-ray diagnostic procedures in Ghana."
Submitted for publication in *British Journal of Radiology* (August 1997).
- Tetteh G.K., Intsiful, J.D.K. and Akaho, E.H.K. "Determination of the zero-power transfer function of Ghana Research Reactor I (GHARR-I)." "Paper presented at the Ghana Science Association Biennial Conference, Kumasi, Ghana (August 1997)."

Extension Work

Several members of the staff continue to serve on various Boards and Committees, both inside and outside the University. The outside bodies on which members of the Department served included the Council for Scientific and Industrial Research, Ghana Standards Board, Ghana Atomic Energy Commission, The Radiation Protection Board of Ghana, Environmental Protection Agency, Volta River Authority and the Accra Metropolitan Assembly.

Department of Statistics

Overview

The Department of Statistics building has at long last been completed. In January 1997 the department finally moved from the few rooms it had occupied in the Mathematics building for 18 years, into its own permanent accommodation. Furnishing and equipment of both offices and classrooms are almost complete. We have adequate space and facilities now to see us through the next decade. We record here our appreciation of the efforts of the University Administration in getting this project finally completed.

Our main task now is to build up our teaching staff and our policy to levels that can cope more comfortably with ever increasing enrolment numbers.

Teaching Programmes

With one exception, there have been no major changes in the courses we offer for the B.A. and B.Sc. degree programmes. From our experience over the past four years, beginning with the adoption of semester based courses, we have realised that one of our important elective courses "Economic and Social Statistics" is heavily overloaded. Each year we have had to leave out some important sections to be able to complete teaching within one semester. We have finally received Academic Board approval to make this 4-credit course into two 3-credit courses to be given over two semesters.

Student Numbers

	1994/95	1996/97	1997/98
Level 200	148	130	125
Level 300	58	110	82
Level 400	90	40	57
Total Undergraduates	296	280	264
Service Courses		313	
M.Phil		1	5

Graduates

	1994	1995	1997
First Class	2	0	0
Second Class Upper	11	5	8
Second Class Lower	26	50	20
Third Class	6	19	6
Pass	1	6	0
Total	46	80	34

Staff

Prof. S.I.K. Odoom	Associate Professor
Dr. F.K. Atsem	Lecturer
Dr. I.G. Akar	Lecturer
Mrs. M. Danso-Manu	Lecturer

Part-timers

Mr. S.A. Yeboah	SSNIT
Mr. E. Amartey-Vondee	SSNIT
Dr. B.K. Gordor	University of Cape Coast

Research and Related Activities

Danso-Manu, M.E.	Continues with her project on Maternal and Neonatal Health Indicators. Data Collection, Coding and Data Processing are now complete.
Atsem, F.K.	Continues his work on Non-negative matrices and their Applications in Economics and Demography.
Akar, I.G.	The first draft of his book on <i>Sampling Techniques</i> is near completion.
Odoom, S.I.K.	Has completed a first draft of a book on <i>Multivariate Distributions</i> .

Publications

None in the year under review.

Volta Basin Research Project (VBRP)

Staffing Position

Four full-time Research Fellows were at post during the 1996/97 session. Five Senior Members (two from the Department of Geography and Resource Development, one each from the Departments of Botany, Zoology, Sociology and Agricultural Economics) participated in the research activities of the Project. These Research Fellows and Senior Members were supported by five Technicians and three Graduate Senior Research Assistants. Dr. C. Gordon took a year's leave of absence to enable him co-ordinate a British (DFID) funded Lower Volta Mangrove Project; he nevertheless participated fully in almost all of the research activities of the VBRP during the 1996/97 session.

Five vacancies still exist on the approved VBRP establishment for senior members. Applications are now being processed to fill in some of these vacancies.

Teaching

All Research Fellows at post continued teaching courses (Level 100 to 600) in the various departments to which they were attached. Some of the Fellows also supervised undergraduate and postgraduate students dissertation projects during the session.

Research

The main focus of research during the 1996/97 session was on the Volta River Authority (VRA) commissioned, and funded, Lower Volta Environmental Impact Studies (LVEIS) which aimed at providing a multidisciplinary baseline data on the impact of the construction of the Volta dams on the physical environment and socio-economic conditions of communities in the lower Volta basin. The disciplines are: Socio-economics, Agroecology, Soils and Land-use, Aquatic Plants, Water Quality, Limnology and Ecotoxicology, Health, Hydrobiology and Fisheries. The multidisciplinary research team was made up of Prof. E.A. Gyasi and Dr. L. Enu-Kwesi (Agroecology), Prof. J.A. Dadson and Mr. T.K.B. Kumekpor (Socio-economics), Mrs. Cecilia Amoah (Water Quality), Dr. J.E.K. Kpikpi (Health), Dr. Chris Gordon (Limnology and Ecotoxicology), Mr. G.A. Darpaah (Hydrobiology and Fisheries), Dr. J.K. Amatekpor and Mr. S.K. Kufogbe (Soils and Land-use). Phase I of the LVEIS was completed and Phase II will commence during the 1997/98 academic year.

On an emergency request by the VRA, the VBRP Research Fellows and Associates also conducted and completed research on:

- (a) Location, Population Size and Water Sources of Settlements in the Lower Volta Basin, and

(b) Bilharzia Survey in the Ada Area.

Publications

- VBRP Staff (1996) Lower Volta Environmental Impact Studies: Location, Population Size and Water Sources of Settlements in the Lower Volta Basin. VBRP. Technical Report No.1/96.
(1997) Environmental Impact Studies on the Lower Volta Basin: Bilharzia Survey in the Ada Area. VBRP Technical Report No. 2/97.
(1997) Lower Volta Environmental Impact Studies Phase I Report. VBRP Technical Report No. 1/97.
- Amatekpor, J.K. 1996. Lithologic discontinuities in the Quaternary-Tertiary deposits in the Volta lake drawdown area and their influence on pedogenesis. Ghana Journal of Science (Accepted for publication).
(1997) The effects of the Volta dam on the properties of two soil series in the Lower Volta floodplain. Ghana Journal of Agric. Science. (Accepted for publication).
- Kufogbe, S.K. & Amatekpor, J.K. (1997) Remote sensing evaluation of land-use/cover changes in the Sakumo coastal wetland in the Greater Accra Metropolitan Area (GAMA). Bulletin of the Ghana Geographical Association. (Accepted for publication).
- Amatekpor, J.K. (1997) Soils and Land-use in the Lower Volta Mangrove Project Area. Lower Volta Mangrove Project Technical Report No. 8. DIFD/Ghana Wildlife Dept., Accra.
(1977) Soil Resource Base of Ghana. pp. 11-27. In C.S. Ofori et al., Ghana National Action Plan on Soil Fertility Enhancement and Maintenance. World Bank/MOFA, Accra.
- Darpaah, G.A. (1997) The population structure, growth parameters and exploitation of *Penaeus notialis* (Perez-Farfante) in the Volta estuary, Ghana. Pro-ceedings of the

- international Seminar on the Coastal Zone of West Africa. Peshew Press, Sunderland, U.K.
- Armah, A.K., Darpaah, G.A. and G. Wale, G. (1997) Managing the coast of Ghana: Problems and options. Proceedings of the International Seminar on the Coastal Zone of West Africa. Peshew Press, Sunderland, U.K.
- Amoah, Cecilia M (1997) Microbiological overview of the Volta Lake. Proceedings of the VBRP National Seminar on the Sustainable Development of the Volta Basin (In press).
- Larmic, Seth A. and Ted. Y. Annang (1997) Ghana Water Resources Management: Information Building Block Study. (Water Quality) Vol. I, pp.1-123, Vol. II, pp.1-19, and Vol III, pp 1-44. Royal Danish Embassy, Accra.
- Gyasi, E.A. and L. Enu-Kwesi. (1997) Towards enhancement of agroecology disturbed by the damming of the River Volta in Ghana: Preliminary PLEC findings and mitigative suggestions in the lower basin. PLEC News and Views, No. 9, United Nations University, Canberra.
- Gordon, C. 1996. The launch of the Lower Volta Mangrove Project to the people of the project area. LVMP Technical Report No. 1, DFID/GWD/EPA, Accra.
 (1997) A bibliography of mangrove literature of relevance to the Lower Volta Mangrove Project Area. LVMP Technical Report No. 9, DFID/GWD/EPA, Accra.
 1977. Summary Research Results on the Lower Volta Mangrove Project. LVMP Technical Report No. 11, DFID/GWD/EPA, Accra.

Conferences/Seminars/Workshops

During the 1996/97 academic year the VBRP organised several seminars. These include:

1. National Seminar on "The Sustainable Development of the Volta Basin"

held at Legon on 20th March, 1996. Over 100 participants attended. They were drawn from the University Community, Collaborating Research Organisations, the Ministries, District Assemblies in the Volta basin and opinion leaders from the basin. The seminar was sponsored by the Volta River Authority, Accra, Dutch and Co., Accra and the Great African Insurance Company, Accra.

2. Seminar on "Phase I of the Lower Volta Environmental Impact Studies" held at Legon on 14th May, 1997. Over 50 participants attended from the University Community, Collaborating Research Organisations and the Volta River Authority.

At these VBRP seminars and other conferences, VBRP Research Fellows and Associates presented papers, e.g.:

- | | |
|------------------------|---|
| Amatekpor, J.K. | National Seminar on the Sustainable Development of the Volta Basin, Legon, March 20, 1996. Paper presented: Soils and Land-use in the Volta Basin: State of the Art. Seminar on Phase I of the Lower Volta Environmental Impact Studies, Legon, May 14, 1997. Paper presented: Problem soils in the Lower Volta Floodplain. National Seminar on the Lower Volta Mangrove Project, Novotel, Accra, Nov. 20, 1997. Paper presented: Soils and Land-use in the Lower Volta Mangrove Project Area. Fifteenth General Meeting of the Soil Science Society of Ghana, Kumasi, June 24-27, 1997. Paper presented: The effects of the Volta dam on the properties of two soils series in the lower Volta Floodplain. |
| Amoah, Cecilia | National Seminar on Sustainable Development of the Volta Basin, Legon, March 20, 1996. Paper presented: Microbial overview of the Volta lake. Seminar on Phase I of the Lower Volta Environmental Impact Studies, Legon, May, 14, 1997. Paper presented: Preliminary studies on the quality of drinking water in the Volta basin. |
| Gordon, C. | Seminar on Phase I of the Lower Volta Environmental Impact Studies, Legon, May, 14, 1997. Paper presented: Macro-invertebrate communities in the Lower Volta. National Seminar on the Lower Volta Mangrove Project, Novotel, Accra, Nov. 20, 1997. Paper presented: Ecology of the Lower Mangrove Project Area. |

- | | |
|---------------|--|
| Darpaah, G.A. | Seminar on Phase I of the Lower Volta Environmental Impact Studies, Legon, May, 14, 1997. Paper presented: Land-based aquatic resource development: An alternative to direct over-dependence on the Volta River. |
| Annang, Ted | Seminar on Phase I of the Lower Volta Environmental Impact Studies, Legon, May, 14, 1997. Paper presented: Ecological Studies on Aquatic Plants of the Lower Volta Basin. |

VBRP Research Associates also presented the following papers at the Seminar on Phase I of the Lower Volta Environmental Impact Studies, Legon, May, 14, 1977

- | | |
|-----------------------------|--|
| Kpikpi, John | Chemotherapy and health education in the control of schistosomiasis in the Lower Volta basin. |
| Gyasi, E.A. & Enu-Kwesi, L. | Towards enhancement of agroecology for sustainable livelihood in the Lower Volta Basin: Preliminary findings, demonstration sites and forward plans. |
| Kumekpor, T.K.B. | Problems of the Lower Volta basin perceived by the people through district representatives of the affected areas |

Extension Work

Mr. G.A. Darpaah organised, in December, 1997, at Ada a workshop on Technical considerations for the establishment of a shrimp farm for some technical staff of the Department of Fisheries and other interested parties. He was also involved in the technology transfer of brackishwater aquaculture to some members of two riparian communities in the Lower Volta, Azizakpe and Allorkpome, as part of the VBRP/VRA Project in the area.

Mr. Ted Annang served as a resource person for the Water Quality Information and Data Building Block Study, Ghana Water Resources Management Project, Royal Danish Embassy, Accra.

Dr. Amatekpor continued providing pedological data and information to researchers and farmers who approached the Soil Science Department (VBRP) for advice.

Honours

Dr. Chris Gordon, a Senior Research Fellow, of the VBRP was awarded the Parker Gentry Award for 1997 by the field Museum of Chicago, U.S.A. The

award was in recognition of his impressive work on the limnology and aquatic ecology of the Volta river system and other aquatic systems of Ghana, particularly in the area of wetland ecology, conservation and management.

Benefactions

The Volta River Authority (VRA) provided the VBRP with equipment (vehicles, computers, photocopiers, etc.) and funds, totalling US\$ 343,597 for the Phase I of the VRA commissioned Lower Volta Environmental Impact Studies. The VRA will release more funds and equipment for the Phase II of the study which will begin during the 1997/98 academic year.

Department of Zoology

Overview

The Department continued to offer basic and applied training in Zoology at under-graduate level, and postgraduate programmes in Parasitology and Insect Science; Africa Regional Postgraduate Programme in Insect Science (ARPPIS).

The identification services for various Departments of this University, the Ministry of Food and Agriculture (MOFA), private organizations and individuals continued.

Prof. Yaa Ntiamao-Baidu took over from Prof. J.S. Djangmah as Head of Department.

A staff-student field trip to Mole National Park, organised by Dr. D. Attuquayefio and led by Prof. Ntiamao-Baidu, was undertaken during the inter-semester break. Sponsors of the trip were the Ghana National Petroleum Corporation (GNPC), Ghana Wildlife Department (GWD), and Ghana Wildlife Society (GWS). Dr. C. Gordon and Ms. M. Cobblah were the other Senior Members who took part in the trip.

The Department carried out faunal surveys and research studies on Biodiversity in collaboration with the Ghana Wildlife Department (GWD) and the Hobart and William Smith Colleges of New York, U.S.A. Prof. James Ryan (Mammalogist) and Dr. Ian Gordon (Entomologist) visited the Department from 28th June to 31st July in connection with the study. Senior Members involved were Prof. Yaa Ntiamao-Baidu, Dr. D. Attuquayefio, and Ms. M. Cobblah.

Two Senior Members retired from the University during the academic year under review: Prof. J.S. Djangmah (Associate Professor) and Dr. S.Q. Quartey (Lecturer).

On a rather sad note was the untimely death of Mr. Simon Mensah, an Assistant Technician on 10th July, 1997. Mr. Mensah had served this

Department diligently for 29 years. May his soul rest in perfect peace.

Courses/Student Numbers

The Department mounted courses at all levels:

Course	No. of Students
Level 100	212
Level 200	257
Level 300	91
Level 400	25
M.Phil Part I (Parasitology)	1
M.Phil Part II (Parasitology)	8
M.Phil Part I ARPPIS (Insect Science)	8
M.Phil Part II ARPPIS (Insect Science)	8
Ph.D	6

Research Activities and Grants

Ntiamao-Baidu, Yaa

Research studies focused on three main areas:

Ecological studies on coastal wetlands in Ghana. The studies being undertaken involve collection of basic environmental data to enable description of the ecological character of Ghana's coastal wetlands and development of a monitoring regime to guide management actions

Status and breeding ecology of marine turtles in Ghana. Involves regular monitoring of turtle populations nesting along the Ghana coast as well as studies on breeding and development of three species of turtles
Forest bird Ecology: involves nation-wide avi-faunal surveys of intact forest and savanna lands and studies on species and distribution of forest birds in Ghana, with the primary objective of using bird occurrence and abundance to identify important areas for biodiversity in the country.

Cobblah, Millicent A.

Received NARP Grant for studies on Biological Control of vegetable pests and effect of farming and management practices on the parasitoids (part of her Ph D project).

Other research interests are:

Biosystematics of parasitic hymenoptera
Biosystematics of the Sweet Potato Weevil in
Ghana

Biological studies on insect parasitoids

Miss Cobblah is currently on study leave
under a nine-month Fulbright scholarship.
She is on attachment to the Entomology and
Nematology Department of the University of
Florida, U.S.A

Attuquayefio, D.K.

Organised staff-student field trip to
Mole National Park (Northern Region)
during the inter-semester break, under
sponsorship of the Ghana National
Petroleum Corporation (GNPC), Ghana
Wildlife Department (GWD) and the
Ghana Wildlife Society (GWS)

Conducted Baseline Surveys of the
mammalian fauna of two Coastal Wetland
Sites (Muni-Pomadze and Keta) under the
auspices of the Ghana Coastal Wetlands
Management Project (CWMP), Ghana Wildlife
Department (GWD) and the Global
Environmental Facility (GEF) of the World
Bank. The study was conducted jointly with
Prof. Jim Ryan of Hobart and William Smith
Colleges, Geneva, New York, during the
later part of the second semester.

Attended the following workshops as a Resource Person:

National Wetlands Strategy Workshop,
Novotel, Accra (22nd and 23rd March 1997)
under the auspices of the Ghana Coastal
Wetlands project (CWMP) and the Ghana
Wildlife Department (GWD). Member of the
Working Group on Faunal Diversity.

Planning Workshop for the Monitoring of
Coastal Wetland sites, (Hotel Cisneros,
Sogakope, 30th July-4th August, 1997),
sponsored by the Ghana Coastal Wetlands
Management Project (CWMP).

Workshop on Biological Research and
Monitoring, Accra Ghana Wildlife
Department (GWD), 3rd-4th September,
1997, sponsored by the Protected Area
Management and Wildlife Conservation
Project (PAMWCP) and the World
Conservation Union (IUCN).

- Research studies focussed on the distribution, abundance and diversity of herpetofauna and mammals in Ghana's coastal wetlands.
- Kpikpi, J.E.K. Conducting research into developing various ways of controlling water related diseases of the tropic with special emphasis on Schistosomiasis and Guinea worm.
- The lines of research have been as follows
- Search for molluscicides of plant origin.
 - Use of competitor snails in the biological control of the snail hosts of schistosomiasis
 - The development and use of health education in the control of schistosomiasis
 - The development of species specific molluscicides. This particular research is supported by the Danish Bilharziasis Laboratory with a one year grant which has just been extended for two more years
 - A survey of the intermediate hosts of *Draunculus medinensis*
- Attah, P.K. Studies on Insect Pests of Cocoa - collaboration with Cocoa Research Institute, Tolo to identify insect-resistant varieties of cocoa that can be incorporated into future breeding programmes
- Studies on insect pests of mushrooms jointly with Food Research Institute, CSIR. Involves the role of insects in cultivation of commercial edible medicinal mushrooms.
- Wilson, D.D. Collaborator on an FAO-funded project on the integrated control of aquatic weeds in Ghana. Project involves the rearing, release and monitoring of the effect of biological control agents in addition to other methods of control.
- Collaborator on a NARP-funded project on biochemical and entomological studies on pineapple unit.
- Collaboration on a CRSP-Cowpea project on the effect of hydrothermal treatment on insect infestation of cowpeas.
- Principal investigator of a NARP-funded project on the integrated management of the sweet potato weevil in Southern Ghana.

Other research interests are :

The biology and control of the sweet potato weevils of Ghana.

Workshops Attended

Workshop on the biological control of water hyacinth and other troublesome aquatic weeds. Bamako, Mali, April 8-11, 1997.

Paper: Biological Control of Water Hyacinth and Water Lettuce in Mali.

Publications

Ntiamoa-Baidu, Y.

(In press) Wildlife and Food Security in Africa. FAO Conservation Review

Ntiamoa-Baidu, Y.

Piersma, T., Wiersma, P.

Poot, M., Battley, P. &

Gordon, C.

(In press) Water depth selection, daily feeding routines and diet of waterbirds in coastal lagoons in Ghana. IBIS.

Tutu, K.A.

Ntiamoa-Baidu, Y. and

Asuming-Brempong, S.

(1996) The Economics of living with wildlife in Ghana. In: Jan Bojo (ed) The Economics of Wildlife, case studies from Ghana, Kenya, Namibia and Zimbabwe. World Bank Technical Report No 19 (AFTES) Washington.

Ryan, J.M &

Attuquayefio, D.K.

(1997) Ghana Coastal Wetlands Management Project. Detailed Baseline Studies Mammalian Ecology. Report to the Ghana Wildlife Department (GWD) and the World Bank.

Starr, C.K., **D.D. Wilson,**

R.F. Severson and S.J.

Vays

(1997): Sexual dimorphism in the sweet potato weevil. Can. Entomol. 129 : 61-69.

FACULTY OF SOCIAL STUDIES

Department of Archaeology

Teaching

During the year under review, 1996/1997 there were five Senior Members at post. Between them they handled 20 courses at the undergraduate level. Student numbers for the period under review are as follows:

Level 100 - 177, Level 200 - 191, Level 300 - 91 and Level 400 - 22

Professor J.R. Anquandah continued with the modular course on "Historical Demography of Africa" at the Regional Institute for Population Studies (R.I.P.S.), Legon.

Research

As usual, the Department undertook research activities during the Easter and Long Vacation.

- | | |
|-------------------|---|
| Anquandah, J.R. | In 1997 completed an Archaeological Reconnaissance Survey Phase 2 at Cape Coast and Fort St. Jago, Elmina, Ghana. |
| Gavua, K. | Initiated field research into the residence of the last German Governor General of Togoland at Abuha - Agorve. |
| Bredwa-Mensah, Y. | Continued research activities on the Danish Plantation Sites south of Akwapim Ridge. |
| Crossland L.B. | Completed an archaeological reconnaissance survey of the Wodoku Site west of the Kotoka International Airport. |

Publications

- | | |
|--------------------|---|
| Bredwa-Mensah, Yaw | 1997. The Protection of Cultural Property Against the International Illicit Traffic: the Case of Ghana. <u>Ethnographisch</u> |
|--------------------|---|

Archaeologische Zeitschrift (EAZ), Berlin, Vol. 38

Bredwa-Mensah, Y and Crossland, L.B.

1997. A Preliminary Report on Archaeological Investigations at the Danish Plantation Settlements along the South Akuapem Ridge, Ghana.

Papers from the Institute of Archaeology (P.I.A), London. Vol.8 59-71.

Anquandah, J.R.

1997 Cape Coast and Fort St. Jago, Elmina, Ghana Archaeological Reconnaissance Survey Phase 2. Report for Mid-west Universities Consortium for International Activities (MUCIA) (79 pages, 73 Illustrations).

1997 African Ethnomedicine – an anthropological and ethnoarchaeological case study in Ghana. Africa - Rivista trimestrale di studi e documentazione dell'Instituto Italiano per l'Africa e l'Oriente. Roma.

Conferences/Seminars/Workshops

Bredwa-Mensah, Y.

Presented a paper on “the Protection of Ghana's Cultural Property at the Pan African Historical Theatre Festival (PANAFEST) Colloquium 1997 at the University of Cape Coast

Gavua, K.

Presented a paper on “A Definition on the Ghanaian Culture” at the 1997 Panafest Colloquium at Cape Coast

Extension Work

Anquandah, J.R.

Appointed in January 1997 by the Ministry of Education to serve as Co-ordinator of the Ministry's Universities Research Fund Management Committee.

Bredwa-Mensah, Y.

(a) Continued lecturing on the History and Culture Course at the National Film Institute (NAFTI) Accra
(b) Continued with a number of activities in aid of the Ghana Bead Society

Department of Economics

Staffing

The staffing position remained stable. Dr Charles Jebuni who was on sabbatical leave was granted a year's leave of absence. Excluding part-timers the number of lecturers in the Department stood at 13.

Taught Courses

LEVEL 100

Introduction to Economics

LEVEL 200

Elements of Economics
Economy of Ghana
Elements of Mathematics/Statistics

LEVEL 300

Microeconomics
Macroeconomics
Growth and Development
Applied Mathematics and Statistics for Economists

LEVEL 400

Economic Theory
Money and Banking
Cost Benefit Analysis
Labour Economics
Industrial Economics
Econometrics
International Economics
Public Finance
Economic Planning
Agricultural Economics

There are several courses in both the undergraduate and graduate curricula which are not presently offered due to lack of staff.

M.PHIL ECONOMICS
Microeconomic Theory
Macroeconomic Theory
Introduction to Computer Application

Quantitative Methods - Econometrics and Mathematical Economics
 Money and Banking
 International Economics
 Environmental Economics
 Public Finance

In addition to the electives offered in the Department, our MPhil students have the opportunity to take additional electives at AERC Joint Facility for Electives in Nairobi, Kenya.

Student Statistics

	1993/94	1994/95	1995/96	1996/97
Level 100		89		84
Level 200	266	258		257
Level 300	150	200		154
Level 400	117	135		200
M.PHIL I	15	15		10
M.PHIL II	5	15	15	15

AERC Collaboration Master's Programme for Anglophone Africa (excluding Nigeria)

Ten MPhil students attended the AERC Collaborative MA Programme Joint Facility for Electives (JFE) in Nairobi for 3 months to take additional elective courses between July and September 1997. The Department continued to benefit from funding from the AERC Collaborative Master's programme. Prof. A. Baah-Nuakoh, Head of Department, continued to serve on the Executive Committee of the Academic Board of the Collaborative MA programme.

Economic Policy Management Programme

Preparations continued for the transfer of the ACBF/World Bank-funded Economic Policy Management (EPM) programme in McGill University to University of Ghana and Makerere University. Two visits were made during the year to McGill to discuss the transfer. A meeting of donors and the four African Partner Universities (APUs)- Legon and Makerere and two French-speaking universities -Abidjan and Yaounde was held in November 1997 in Harare to discuss the respective programmes. The University of Ghana was represented by Prof. J. Anquandah (representing the Vice-Chancellor) and Prof. A. Baah-Nuakoh, Head of Department of Economics.

The final project document from the University of Ghana was submitted to the ACBF, the World Bank and McGill University in August 1997. An ACBF/World Bank Evaluation team visited the University at the beginning of September 1997 to evaluate the University's preparedness to host the EPM programme.

Research Activities and Publications

- Baah Nuakoh, A. (with ISSER team) **The State of the Ghanaian Economy in 1996.** ISSER, 1997.
Studies on the Ghanaian Economy, Vol. I. Ghana Universities Press, Accra 1997
376pp.
"Enhancing the Role of the Informal Sector in the Ghanaian Economy" in **Faculty of Social Studies Bulletin.** University of Ghana. Legon, 1996
Exporting Manufactures from Ghana: Is Adjustment Enough? University of Ghana and Overseas Development Institute, London, 1996
- Boakye-Yiadom, L. **The Economics of Water and Waste in Three African Capitals** (with Richard C. Porter, Albert Mafure, and B. Oupa Tsheko Ashgate Publishing Ltd., Aldershot, U.K. 1997
- Tsikata, G.K. "The Economic Impact of Tourism on the Ghanaian Economy. UNDP, World Tourism Organisation and Ministry of Tourism Report 1996
et al edited Proceedings of the Workshop on Regional Integration in Africa". 1996. Publication forthcoming.
"The Industrial Sector and Economic Development in a book on **The Economy of Ghana** ed. Ernest Aryeetey. 1997 Forthcoming and G.K. Amuzu, "Fiscal Development Policies and Options" in **Policies and Options for Ghanaian Economic Development.** 2nd Edition 1997
- Tutu, K.A. "The Economics of Living with Wildlife in Ghana" in **The Economics of Wildlife: Case Studies from Ghana, Kenya, Namibia and Zimbabwe**, by Tutu, Ntiamoh-Baidu and Asuming-Brempong and edited by Jan Bojo, February, 1996. The World Bank, Washington, D.C.
"Human Development Report 1996: The Case Study of Ghana" for the **Human**

- Development Report 1996**, July, 1996, UNDP, New York (with A. Baah-Nuakoh). "Trade Liberalization and Regional Integration in Africa: The Case Study of Ghana", **African Economic Research Consortium, Research Series (AERC)**, 1996 (with Abena Oduro). "The Cost of Environmental Degradation in Ghana", in **Faculty of Social Studies Bulletin**, University of Ghana, Legon, 1996 by Tutu.
- Jackson, H. E.
and R.B. Biritwum
- "Health Care Accessibility and Utilization in Sub-Saharan Africa - The Case of Ghana, in **Issues and Perspectives on Health Care in Contemporary Sub-Saharan Africa**, edited by Ezekiel Kolpeni and Philip Thiuri. The Edwin Mellen Press, Lewiston, New York, U S A., 1997.
- Oduro, Abena D.
and E. Aryeetey
- Regional Integration Efforts in Africa, An Overview in J.J Tennissen (eds). **Regionalism in the Global Economy**, FONDAD, 1996.
- Gender Bias and Economic Reform in Ghana's Manufacturing Sector' Paper Presented at a Conference on Gender and Economic Reform, University of Manchester, Manchester, April, 1997.
- Gockel, A. F.
- "Financial and Monetary Developments in Ghana", in **Policies And Options for Ghanaian Economic Development**, edited by V.K. Nyanteng, Forthcoming ISSER Publication, 1997
- The Formal Social Security System in Ghana**, Friedrich Ebert Foundation, Accra, August, 1996.
- Boateng, K.
- "Implications of the Economic Recovery Programme (ERP)/ Programme of Action to Mitigate the Social Cost of Adjustment (PAMSCAD) for the Economic Well-being of Children in Ghana", in **"The Changing Family in Ghana"**, **Chp.11, pp.201-220**, edited by Elizabeth Ardayfio-Schandorf. Ghana Universities Press, Accra, 1996

Asante, Yaw,
A. Baah-Nuakoh,
C.D. Jebuni,
and A.D. Oduro,

"Exporting Manufactures from Ghana. Is Adjustment Enough?" ODI Research Studies 1996

Asante, Y. and
S.E. Addo

"Industrial Development Policies and Options" in **Policies and Options for Ghanaian Economic Development** edited by V.K. Nyanteng, second edition, Institute of Statistical, Social and Economic Research (ISSER), University of Ghana, Legon. forthcoming

Asante, Yaw

with G.K. Tsikata and Fred Nuxson, "The Industrial Sector and Economic Development" in **The Economy of Ghana**, coordinated by Dr Ernest Aryeetey, forthcoming.

Visitors

The Department received several important visitors. Prof. Marcus Noland, a Fulbright Visiting Professor, visited the Department and gave lectures to our MPhil students.

Department of Geography and Resource Development

Introduction

The Department of Geography and Resource Development has continued to offer undergraduate and post-graduate courses in the major topical areas of human and physical geography, notable among which are Population, Resources, Environment, Transportation, Tourism, Urban Studies, Regional Development, Gender Issues, and Climatology among others. The staff of the Department have also continued to carry out research and extension activities into these areas. The following projects have also experienced much progress::

- (i) People, Land Management and Environmental Change (PLEC) - see Appendix A.
- (ii) Remote Sensing Applications Unit (RSAU) -GERMP See Appendix B

(iii) Remote Sensing Applications Unit (RSAU) -Teaching & Research
See Appendix C

(iv) Family and Development (FADEP) - See Appendix D

(v) Population Impact Project (PIP) - See Appendix E

(vi) NUFU Link Arrangements See Appendix F

The Remote Sensing Applications Unit was established as a self-accounting unit in the Department of Geography and Resource Development in July 1993. The World Bank provided funds for the construction of the second phase of the building of RSAU in 1994/95. This is currently being expanded under the 3rd phase of the building of RSAU (1997/98). This constitutes the laboratory for the Land Use and Land Cover Mapping Project being executed by RSAU as part of the Ghana Environmental Resource Management Project (GERMP).

The Ecological Laboratory which is fully equipped with funds from Danish International Development Agency (DANIDA) and technical assistance from the University of Copenhagen, Denmark, is also functioning well. Both RSAU and the Ecological Laboratory have Advisory and Technical/Research Committees made up of representatives from various Departments in the University as well as key user Government Ministries in town. Prof. S.K. Danso of the Department of Soil Science has been appointed the Ag. Director with Mr. T.W. Awadzi of the Department of Geography and Resource Development as the Ag. Deputy Director.

Staffing Position

The Department has fifteen (15) Senior members, four (4) Senior staff and four (4) Junior staff. Prof. Raymond Bagulo Bening of the Department has resigned his position as he is now the substantive Vice-Chancellor of the University for Development Studies (UDS), Tamale. Two new lecturers have been appointed to the Department. They are Dr. Mariama Awumbila and Dr. Samuel Agyei-Mensah.

Two other staff members were made Deans. They are Prof. E. Ofori-Sarpong who was elected as the Dean for Social Studies, and Prof. S.T. Addo who was also appointed as the first Dean for International Programmes. Prof. George Benneh, retired Vice-Chancellor has returned to the Department but is currently on sabbatical leave.

Student Numbers by Category

1. Year 1 (Level 100)	120
2. Year 2 (Level 200)	175
3. Year 3 (Level 300)	148
4. Year 4 (Level 400)	134
5. Post-graduates	27
6. Police Administration	8

Research Activities

Songsore, J. et. al

An Environmental Health Atlas of the Greater Accra Metropolitan Area (GAMA), Ghana. J. Songsore, G. McGranahan & M. Kjellen. Tenure, Housing and Environmental Management in the Greater Accra Metropolitan Area, Ghana. Gordon, McGranahan, J. Songsore et al. The Citizens at Risk From Urban Sanitation to Sustainable Cities. Songsore et al. Community Based Environmental Management Information System (CEMIS); Field Test in La, Accra.

Nabila, J.S.

- a) Ghana Population Agenda. Efforts to Improve the Implementation of Population Programmes In Ghana.
- b) Adolescent Fertility and Reproductive Health In Ghana.
- c) Incidence of Buruli Ulcers in Ghana.
- d) Demographic Dimensions of HIV/AIDS in Ghana

Addo, S.T.

Problems of Intra-City mobility in Accra

Agyepong, G.T.

- a) Land use change and trends in Ghana
- b) National land use and land cover mapping

Ardayfio-Schandorf, Elizabeth

1. The Family in Urban/Rural Ghana
2. Gender and Environmental Change

Yankson, P.W.K.

Completed a study with Dr. Kate Gough of the Institute of Geography, University of Copenhagen on the topic: Sustainable Urbanization: Socio-Economic and Environmental Consequences of Urban Growth in Peri-urban area of Accra. Started a research project on the impact of the urban informal economic units on the urban environment

Gyasi, E.A.

Agricultural change, rural development and sustainable environmental management.

Ofori-Sarpong, E

Rainfall patterns in Ghana.

Awadzi, T.W.

1. Effect of salinity on shallot fields at Anloga

This project is to measure the effect of salinity in shallot fields in the Lagoon fringes of Keta Lagoon in three phases. Data for one major cropping system had been collected and are being analysed; the second phase starts in January, 1998.

2. Soil Water and Nutrient Movement on a soil catena in the moist semi-deciduous forest in Kade, Ghana.

Special solar operated equipment had been installed to collect water for analysis to determine nutrient movement in the soils developed on three major soils found over Birrmean phyllite at the University of Ghana Agricultural Station at Kade. Water samples have been collected and some test analysis have been made. The project, however, takes off fully in the major rainy season of 1998.

Benchmark soils only

The Benchmark project is to develop a methodology for the determination of Benchmark soils. The benchmark soils concept is to enable the transfer of agro-technology to be effected easily from one place to the other.

Kufogbe, S.K.

- a) Land use and environmental change
- b) Remote Sensing Applications.
- c) Continuing activities on PhD research on land use and environmental change in the Afram Plains of Ghana

Asiedu, B.A.

- a) Tourism
- b) Agricultural Infrastructural Provision
- c) Housing Policy Formulation

Agyei-Mensah, S.

- a) Fertility Decline in Developing Countries: 1960- 1997. An Annotated Bibliography.
- b) Patterns of Fertility Change in Ghana.

Conferences and Workshops Attended

Songsore, J.

European Union (EU) Concerted Action
Workshop on Public Participation in

Urban Environmental Health Services, organised by IRC and CAHBA, 10th - 13th March 1997, Bamako, Mali. Presented a paper titled "Health and Environment Analysis for Decision-Making (Headlamp): field study in Accra, Ghana".

Ad Hoc Expert Group Meeting on Measures Pertaining to Urban Environmental Health Problems in Africa, organised by the Economic Commission for Africa (ECA), 26- 30th May, 1997, Addis Ababa, Ethiopia. Presented a paper titled, "Strategies Pertaining to Urban Environmental Health Problems in Africa: the case of Accra."

Conference on the Challenge of Environmental Management in Metropolitan Areas, University of London, 17-20 June, 1997. Presented a paper titled "Structural Adjustment, The Urban Poor and Environmental Management in the Greater Accra Metropolitan Area (GAMA) - Ghana".

Mid-Term Workshop on Public Participation in Planning Urban Environmental Health Services (A concerted action supported by the European Commission) 23rd-26th September, 1997, Bamako, Mali, Presented the following paper:

a) "An Environmental Health Indicator Profile for the Greater Accra Metropolitan Area (GAMA), Ghana"

b) Planning Urban Environmental Health Services: A Case Study of Public Participation Process in a Survey of Environment and Health Problems in the Greater Accra Metropolitan Area (GAMA), Ghana".

Nabila, J.S.

- With Dr. Mariama Awumbila "Population, Urbanization, Poverty and Related Production Pressures Bearing on agro-Ecological Change of the Southern Forest Ecotone." Paper Presented at WAPLEC Workshop on Sustainability of Small Farmer Agriculture in West Africa: University for Development Studies, Tamale. January 11-13th 1996.

With S.O Kwankye "Population, Environment and Health in West Africa." Paper Presented at a Workshop on Environment and Health in West Africa, organised by the West African Health Community, Dept. of Community Health, Korle Bu. 22nd-24th June 1996.
"The Incidence and Spread of Buruli Ulcers in Ghana", Paper Presented at Session on Medical Geography at the 28th International Geographic Union (IGU) Congress held at the Hague, Netherlands, 2nd-10th August 1996.

Agyepong, G.T.

Land Use and Land Cover Open Science Meeting (LUCC), The Royal Academy of Sciences, The Netherlands, 21-23 Jan. 1996. Poster presentation: Land use and land cover mapping in Ghana
Joint NAFCOM-SAFCOM Meeting of START,- Workshop on Environmentally Sustainable Development in West Central Africa, July 1996, Yamoussoukro, Cote d'Ivoire

Ardayfio-Schandorf, Elizabeth

The Human Dimension of Ghanaian Economic Reform: Women, Children and the Poor. Organized by CIEE on Ghana and the Dynamics of Economic Development, University of Ghana, January, 1997.
Women and Family Change in Ghana, University of Ghana; organized by University of Wisconsin, U.S.A.

Yankson, P.W.K.

Remote Sensing and Geographic Information Systems (G.I.S.) in Ghana - Research applications and collaborations (Jan. 28-29 1997)
Organized at Legon by the Remote Sensing Applications Unit (RSAU) of the Department of Geography and Resource Development, University of Ghana in collaboration with the Institute of Geography, University of Copenhagen under the auspices of DANIDA-ENRECA Project. Paper Presented: "The proposed Densu Basin integrated research project (DBIRP) in the Remote Sensing Applications Unit (RSAU)"

Gyasi, E.A.

Seminar on Phase I: Lower Volta Environmental Impact Studies, hosted by the Volta Basin Research Project at University of Ghana, Legon, 14th May, 1997.

Seminar on Environmental Entitlements: Institutional Dynamics of Environmental Change (Local Resource Management in the Forest-Savanna Transition Zone: The Case of Wenchi District, Ghana), held on 20th June, 1997 at the Dept. of Geography and Resource Development, University of Ghana, Legon, in connection with the research project, "Environmental Entitlements: Institutional Dynamics of Environment Change", carried out by the Institute of Development Studies (IDS), University of Sussex, in collaboration with the University of Ghana.

International Conference on Environment and Development in Africa: An Agenda and Solutions for the 21st Century, organised by The Society of South African Geographers et al., at Eskom Conference Centre, Midrand, Republic of South Africa, 29 June - 4th July, 1997.

START/NAFCOM/CARPE Workshop on Land Use and Land Cover Change (LUCC) in West Africa, held at Royal Ravico Hotel, Nungua, Accra, 3-5 November 1997.

National Workshop on The Management of Bioprospecting in Ghana, organised by Ministry of Environment, Science and Technology, at the University of Ghana, Legon, 5-6 November, 1997.

Seminar on Lower Volta Mangrove Project, organised by Ghana Wildlife Department, Environmental Protection Agency of Ghana, and the U.K. Department for International Development, Novotel Hotel, Accra, 20th November, 1997.

Ofori-Sarpong, E.

The disappearance of Ghana's forests of Rehabilitation. Presented at a Conference on Environment and Development in Africa: an Agenda and Solutions for the 21st Century, 29th June - 3rd July, 1997 South Africa.

- Awadzi, T.W. 15th Annual General Meeting of the Soil Science Society of Ghana. U.S.T., Kumasi 24th-27th June, 1997.
Remote Sensing and Geographic Information Systems (G.I.S.) in Ghana: Research, Applications and Collaborations, Legon, Jan. 28th to 29th, 1997.
Planning Workshop, Ghana National Wetland Strategy Accra, 22nd to 23rd March, 1997.
- Kufogbe, S. International Seminar on Remote Sensing and Geographic Information Systems (GIS) in Ghana - Research, Applications and Collaboration, Jan.28-29, 1997.
Department of Geography and Resource Development, University of Ghana, Legon.
NARMSAP Environmental Information Systems and Technology Workshop, 6-10 January, 1997, University of Science and Technology, Kumasi.
International Seminar on the Coastal Zone of West Africa. Organized by the Department of Oceanography and Fisheries, University of Ghana in collaboration with the Department of Marine Sciences and Coastal Management. University of Newcastle, U.K. 25-29 March, 1996. Accra.
- Asiedu, A.B. Workshop on Impact of Public Goods and Services Provision on Food Security in Ghana, held at Agricultural University of Wageningen. The Netherlands, 26th April-10th May, 1996, Wageningen.
International Seminar on the Coastal Zone of West Africa: Problems and Management, organized by Department of Oceanography and Fisheries of the University of Ghana in collaboration with Department of Marine Sciences and Coastal Management, University of Newcastle, 25-29th March, 1996, Accra.
Workshop on Biodiversity, organized by Department of Botany, University of Ghana, 23rd February, 1996, Legon.
Conference on Sustainable Food Security in Central West Africa, organized by Reseau Sadaoc International at Ghana Institute of Management and Public Administration (GIMPA), 13-14th March, 1995, Legon.

Agyci-Mensah, S.

Bodomo A. and S. Agyci-Mensah (1996): Integrating Literacy and Health Education for a Sustainable Development in Africa. Paper presented at the Association of Norwegian Development Research Conference on Institutional change in Developing countries, May 22 - 24, 1996, Bergen, Norway.

Publications

Songsore, J.

S. Atkinson, J. Songsore and E. Werna (eds). Urban Health Research in Developing Countries: Implications for Policy (CAB INTERNATIONAL, Oxon, UK, 1996) 195 pp.

Gordon McGranahan and Jacob Songsore. Wealth, Health and the Urban Household: Weighing Environmental Burdens in Accra, Jakarta and Sao Paulo", in S. Atkinson, J. Songsore & E. Werna (eds), Urban Health Research in Developing Countries: Implications for Policy (CAB INTERNATIONAL, Oxon, U.K., 1996), pp. 135-159.

S. Atkinson, J. Songsore and E. Werna, "Urban Health Research in Developing Countries: Implications for Policy" in S. Atkinson, J. Songsore & E. Werna, (eds), Urban Health Research in Developing Countries: Implications for Policy (CAB INTERNATIONAL, Oxon, U.K., 1996), pp 187 - 190.

Jacob Songsore, "Population Growth and Ecological Degradation in Northern Ghana: Myths and Realities", Institute of African Studies Research Review, Vol. 12, Nos. 1 & 2, 1996, pp.51-66.

Nabila, J.S.

Nabila, J. S and Fayorsey, C: Adolescent Fertility and Reproductive Behaviour In Ghana: A Case Study of Accra and Kumasi. Family and Development Programme, Legon. 1996.
"Population, Environment and Development: The African Dilemma" in Boon, E.K. and Hens, Luc (eds) Environment and Development Education for Developing Countries, Department of

Human Ecology, Vrije University, Brussels, 1996 pp.31-54.
"Population Growth and Urban Demand in the Forest-Savanna Zone of Southern Ghana", in Gyasi, E.A. and Juha I. Uitto (eds) Environment, Biodiversity and Agricultural Change in West Africa: Perspectives from Ghana. United Nations University, 1997 pp. 76-83.
"Population and Land Degradation in the Upper East Region of Ghana" In Bulletin of the Ghana Geographical Association, Vol. 20, 1997 forthcoming.

Addo, S.T.

"Port Cities and the International trade of Ghana", African Urban Quarterly, Vol. 9 No. 1 & 2, February & May, 1994 pp.53-67.
"Impact of Tema port on urban development", In Ocean Gateways and Inland development - Proceedings of the fifth international conference of Cities and ports: Dakar, Senegal, November, 1995. Le Havre, France, pp.325 - 332
"Accessibility, Mobility and the Development Process" (A revised version); Institute of African Studies Research Review, University of Ghana, Legon, New Series, Vol. II Nos 1 and 2, 1995 pp. 1 - 15.
"The Challenges of Modernism" in - The Future of Our Cities - 1989 Proceedings of the Ghana Academy of Arts and Sciences, Volume XXX, Accra, 1993, pp. 49-53
"Statistical or Quantitative Techniques as a tool for geographical analysis - Exploratory comments for beginners", Bulletin of the Ghana Geographical Association (New Series), Vol.20, 1997, pp. 1-10.

Addo, S.T. and Asiedu, A.B.,

"Transportation Problems Associated with Staple food crops Distribution in Ghana", Ghana Social Science Journal (New Series) Vol 1, 1997 (forthcoming)
"Changing Scope of Ghanaian Urbanization" In Planning and Management of Development in Ghana, (Ghana Institute of Planners), Aryeetey Ernest, ed. 1997 (forthcoming).

- Agyepong, G.T. Gyasi, E.A., G.T. Agyepong, E. Ardayfio-Schandorf, L. Enu-Kwesi, J.S. Nabila, and E. Owusu Bennoah (1995). "Production Pressure and Environmental Change in the Forest-Savanna Zone of Southern Ghana". Global Environmental Change, Vol. 5, No. 4, pp. 355-366.
- (1995) "Population and Land Use in West African Savanna Ecosystem: A Case Study of Environmental Management and Conservation in the Tolon-Kumbungu District of Northern Ghana" Final Report, Conference of the International Consortium for the Study of Environmental Security, 31 =May-4 June, 1994. Tufts University, Medford.
- Ardayfio-Schandorf, E. The Changing Family in Ghana (Editor). (Ghana Universities Press, (1996). The Impact of PAMSCAD on the Family: A Study of Credit Intervention in the Western Region. with C.K. Brown and Aglobitse P.B. In Ardayfio-Schandorf, E. (Editor). The Changing Family in Ghana. (Ghana Universities Press, 1996)
- Incidence of Child Fostering among School Children in Ghana with Amissah, M. In the Changing Family in Ghana. (Ghana Universities Press, 1996).
- Yankson, P.W.K. Gough K.V. and Yankson, P.W.K. (1997) (forthcoming) Sustainable Urbanization: Socio-economic Consequences of Urban Growth in the Peri-urban area of Accra (A Report to DANIDA)
- (1995) "Migration, urbanization and social behavioural patterns" Chapter 12 pp. 230-244 of Ghana Statistical Service (1995) Migration Research Study in Ghana (Accra)
- (1996) "Small-scale aluminium industry in Ghana: Employment, Profitability and Development Strategies" in McCormic, D and Pedersen P. O. (eds) Small Enterprises: Flexibility and Networking in an African Context Chap.3 pp.63-78 (Longhorn Kenya, Nairobi)
- Gyasi, E.A. 1996 The environmental impact and sustainability of plantations in Sub-

- Saharan Africa: Ghana's experiences with oil-palm plantations, in G. Benneh, et al (eds) **Sustaining the Future: Economic, Social and Environmental Change in Sub-Saharan Africa**. Tokyo: United Nations University Press.
- 1996 Land holding and its relationship with biophysical status: Case study of tenancy and non-tenancy farming in Ghana **PLEC News and Views** 7: 21-25
- Gyasi, E.A. and J.I. Utto (eds) 1997 **Environment, Biodiversity and Agricultural Change in West Africa: Perspectives from Ghana**, Tokyo: United Nations University Press.
- Gyasi, E.A. and Enu-Kwesi, L. Towards enhancement of agroecology disturbed by the damming of River Volta in Ghana: Preliminary PLEC findings and mitigative suggestions into the lower basin, forthcoming, **PLEC News and Views**. PLEC experiences with participatory approach to biophysical resources management in Ghana, forthcoming, **PLEC News and Views**.
- Ofori-Sarpong, E "Analysis of rainfall over Kenya", February-April 1993. Weather, Vol. 199, June 1995 "Water Development and the increasing incidence of water borne/water related diseases in Kenya". Proceedings of the National Workshop on Water Quality, Sustainable Development and Agenda 21, Feb. 21-23, 1995.
- Awadz, T.W. Traditional farmers' perception of the soils of the Nanumba District of Ghana. Institute of African Studies Research Review Vol.12 Nos. 1 & 2, pp. 25-31, 1996
- Kufogbe, S. **Remote Sensing Evaluation of land use/cover change in the Sakumo wetland in the Greater Accra Metropolitan Area (GAMA) in Ghana**. (With Amatekpor, J.K.) forthcoming. Bulletin of the Geographical Association of Ghana (Paper originally presented at the International Seminar on the Coastal Zone of West Africa, Organized

by the Department Oceanography and Fisheries, University of Ghana in collaboration with the Department Marine Sciences and Coastal Management, University of Newcastle, U.K. 25-29 March, 1996, Accra

A Remote Sensing Perspective On Land Use And Environmental Change In

The Afram Plains of Ghana, (forthcoming) Proceedings of the International Seminar on Remote Sensing and GIS in Ghana Research, applications and collaborations. January 28- 29, 1997. Department of Geography and Resource Development, University of Ghana, Legon.

The Natural Resource Base of the Southern Volta Region, in: **Handbook on**

Eweland Vol.1. Agbodeka., F. et al. eds. (forthcoming, 1997)

Land Use and cover change in the southern forest-savanna transition zone in Ghana: a sequence model (with G.T. Agyepong). In E.A. Gyasi and J.I. Uitto (1997) (eds) **Environment, Biodiversity and Agricultural change in West Africa**. pp 112- 121.

United Nations University Press, Tokyo.

Land use and cover patterns; In E.A. Gyasi and J.I. Uitto (1997) (eds)

Environment, Biodiversity and Agricultural Change in West Africa. pp.52-57. United Nations University Press (with Agyepong, G.T.), Tokyo.

Baseline Survey on Female Ritual

"Bondage" in Ghana: The Geographical spread and Count of Victims (Southern Sector). Report prepared for the Canadian International Development Agency CIDA and the International Needs Ghana, November, 1997.

Environmental Impact Studies on the Lower Volta Basin: Location Population size and Water Sources of settlement. A study Report by Volta Basin Research Project (VBRP) for the Volta River Authority (VRA), (1996), VBRP Consultancy Report No. 1/96, September, 1996 (With Others)

- Asiedu, A.B. Addo, S.T. and Asiedu, A.B. (1995) "Transportation problems associated with staple food crops distribution in Ghana", Malaysian Journal of Tropical Geography (Forthcoming).
- (1996) "Planning considerations for sustainable development of nature-based tourism in Ghana" Published proceedings, Department of Botany, University of Ghana, Legon.
- Agyei-Mensah, S (1996) "New Perspective on the Fertility Situation in Sub-Saharan Africa". Norsk Geografisk Tidsskrift Vol. 50, pp.101-112, Oslo.
- (1997): Fertility Change in a Time and Space Perspective: Lessons from Three Ghanaian Settlements. Doctoral Dissertation, Norwegian University of Science and Technology, Trondheim, Norway 361 pages.

Benefactions

The Department continues to receive books and current journals from the Institute of Geography, University of Copenhagen, Denmark, with funds provided by DANIDA.

The Department has been provided with a Personal Computer, and a Printer as part of the support from the Department of Geography, Norwegian University of Science and Technology under the NUFU Link Arrangements

Other benefits that the Department received included:

1. Prof. J.M. Hunter, distinguished Prof. Eminentus of Michigan State University, East Lansing and a former lecturer of this Department in the 1960s donated another set of Lettering equipment to the Technical Section of the Department
2. Books donated to the Department by the Stockholm Environment Institute through Prof. Jacob Songsore.

Appendix A

UNU Project of Collaborative Research on People, Land Management and Environmental Change (UNU-PLEC)

PLEC, the project of collaborative research of People, Land Management and Environmental Change operates under the auspices of the United Nations University (UNU). By national and international networking, PLEC

brings together one (WAPLEC), for action-oriented policy-relevant research on small-farmer management of biodiversity in the tropics, for the purpose of achieving world food security while protecting global diversity of plants, landraces and systems of managing them

Through the Department of Geography and Resource Development, the University of Ghana continued to serve as the principal management node for WAPLEC work which involved, among others, the following:

farmers and other grassroots managers of land and related biophysical resources;
policy makers, other government officials and non-governmental officials;
multidisciplinary teams of scientists and their students, drawn principally from University de Conakry (Guinea), Kwame Nkrumah University of Science and Technology (Kumasi, Ghana), University for Development Studies (Tamale, Ghana) and the University of Ghana (Legon, Ghana)

The book, *Environment, Biodiversity and Agricultural Change in West Africa*, was published based on a pilot WAPLEC study of environmental changes and farmers' adaptations in Ghana.

Field work focused on a site in Pita-Kolagu basin in the Futa Jalon in Guinea, and on various others in Ghana, including Gyamfiase/Yensiso, where were started maiden WAPLEC field trials and demonstrations including the following through the PLEC-inspired community-based Collaborative Agroecosystems Management Project (CAMP).

on-farm in situ conservation of trees;
a nursery of rare exotic and endemic plants;
an income-generating farm of peppers;
a biodiverse farm of food crops and trees, and
a firebelt around the relict Gyamfiase forest grove, focal point of the PLEC applied work in the 100 sq.km incipient Gyamfiase-Yensiso demonstration site, which is inhabited by an estimated 15,000 people.

It is envisaged that both basic and applied research by WAPLEC would be given a major boost as from early 1998, when funds are expected to start flowing under a major GEF grant to support PLEC work globally.

Appendix B

Remote Sensing Applications Unit Land Use and Land Cover Mapping Project

The activities at the RSAU during the year involved the following:

1. Continuation of land use mapping
2. Development of the sustainability plan for the Unit
3. Institutional networking and staff training

Mapping

The Mid-term Project Review was undertaken by a combined Mission from the World Bank and DANIDA in October/November, 1996. The Mission considered that the project has made satisfactory progress and commented as follows: In its short life, RSAU has developed into a fully operational, highly technical and well managed functional remote sensing and GIS Applications Unit. Binding permanent agreement on an institutional and financial/ accounting framework for RSAU are urgently needed. EPA and the University of Ghana should co-operate to ensure that an appropriate binding arrangement and agreement to this effect is completed before mid-1997. Progress in mapping since November, 1996, has been determined by the availability of funds received from the EPA.

Present Status

Present position is that

All laboratory interpretation has been completed for all the 18 image scenes of the country.

All field validation has been completed and provisional land use and land cover map sheets have been plotted for the southern half of the country, south of latitude 7 degrees north. 7 provisional maps have also been plotted for the Volta Region.

Extension of the Project Period

Although the GERM project was scheduled to be completed in December, 1997, the project is likely to be extended to enable completion in December, 1998 at the request of the Government of Ghana.

Sustainability Development

Considerable amount of time and effort has gone into the development of proposals for the sustainability and institutional arrangements for the RSAU. This involved several meetings of a sub-committee of the Advisory Board of the Unit, and a Consultation meeting involving the University, EPA, the Donor agencies, DANIDA, the Bank, and participants from the private sector. Final proposals contained in a report Sustainability and Institutional Arrangements for the RSAU has been accepted by the Board for presentation to the Vice-Chancellor and the Executive Director of the EPA for consideration and approval.

The Unit continued to execute projects for government departments, institutions and private sector organizations. Significant was the contract to update the road network in Ghana for the Feeder Roads Department, using satellite images and the Geographical Positioning System equipment.

Network and Exposure

The Unit participated in the INDUTECH 97 event in Accra in February/ March, 1997 and featured land use and land cover maps and mapping processes and procedures using image data at both the stands of the University of Ghana and the EISD project

Several members of the Unit attended workshops and conferences both within and outside Ghana. These included:

The 17th Annual ESRI User Conference in California

The Africa GIS97 in Gaborone, Botswana

The Environmental Information Systems (EIS) Advisory Committee meeting in Pretoria, South Africa.

North Africa Committee of START meeting in Cotonou, Benin.

START/NAFCOM workshop on Land Use and Land Cover Change in West/Central Africa, Accra

Regional workshop on inventory and evaluation of natural resources and environment of the Sahel and West Africa region, Niamey.

One member of staff has proceeded to the University of Cambridge to do an MSc course in Remote Sensing and GIS. He is due back in July, 1998. The RSAU collaborated with the World Conservation and Monitoring Centre to organize a regional workshop on Biodiversity Information Management in Accra.

Staffing

The staffing situation remains at the level of 1996 (1 Senior Applications Expert, 2 Applications Experts, 3 Data Analysts, 3 Assistant Data Analysts, Office Manager, Systems Technician, Office Assistant and 2 Drivers. Dr. G.T. Agyepong continues as the Director of the Land Use Mapping Project. We have had to engage the contractual services of three local Associate Consultants to supplement our staff to implement specific projects. We are presently working to define the staff and training or re-training needs of the RSAU as a self-financing Environmental Information Service Organisation.

Office and Laboratory Accommodation

Contract has been awarded and construction begun for the RSAU building extension comprising a library, training room and three additional offices. The extension which is funded by the World Bank, is expected to be completed by the end of December, 1997.

Appendix C

Activities of the Remote Sensing Applications UNIT (RSAU): Teaching and Research Laboratory

Overview

The Remote Sensing Applications Unit (RSAU) was established in the Department of Geography and Resource Development, University of Ghana, to develop the capacity to provide remote sensing and geographic information systems services and to undertake and assist research into land and water resources, appraisal and monitoring including rural and urban land use patterns and trends. It also supports the teaching programmes of the environment and resource -based departments in the University.

Teaching and Research Laboratory

Support

The Teaching and Research laboratory continued to receive financial and technical maintenance support from DANIDA under the linkage arrangement between the University of Copenhagen (Institute of Geography) and the University of Ghana. Currently the project is in its second phase (1/1/96-31/12/98). During the year under review both hardware and software were upgraded. Three laptop computers were acquired.

Teaching

The scheduled undergraduate course on the introduction to remote sensing and geographic information systems (GEOG.307) was given in the first semester for students in geography as well as students from other departments. The graduate level course GEOG. 604 - Remote Sensing and Geographic Information Systems was given in the second semester. This course was taken by first year M.Phil students from the Department of Geography and Resource Development as well as M.Phil students from Botany, Geology and Soil Science.

Thesis Research

The following people continue to work on their thesis projects in the teaching and research laboratory.

Kufogbe, S.K.

Modelling land use and environmental change in the Afram Plains of Ghana (Ph.D) Dept. of Geography and Resource Development. Mr. Kufogbe has reached

- an advanced stage in his work. During the year under review, he travelled to the University of Copenhagen to use the enhanced version of the CHIPS software to analyse his data and also to consult with the staff of the Institute of Geography on his work.
- Kakane, V.C.K.** Cold cloud temperature estimation and crop monitoring (Ph.D) Dept. of Physics. Mr. Kakane has also reached an advanced stage in his work. He also travelled to University of Copenhagen to discuss his work with his supervisor.
- Banoeng-Yakubu, B.K.** Application of remote sensing techniques to infrastructure trace analysis for groundwater exploration in Ghana (Ph.D), Department of Geology. Mr. Banoeng-Yakubu also travelled to Copenhagen to consult with his supervisor in the course of the year. He has almost completed his field work in the Upper West region of Ghana
- Alhassan, O.** Land Use changes and its implications on woodfuel availability in parts of the Densu Basin in Ghana (PhD) Department of Geography and Resource Development. Mr. Osman Alhassan completed field data collection in August-September 1997 and is now processing the data for analysis. Image processing is in progress. He also travelled to Copenhagen for training in image analysis.
- Kofie, R.** A GIS study of the planning needs of the District Assemblies in Ghana. The case of health and sanitation in the Ga district (Ph.D), Department of Geography and Resource Development. Mr. Kofie is at the field data collection stage. Mr. Kofie travelled to Copenhagen for training in G.I.S.
- Pabi, O.** A comparative study on the effects of urban land use on the closely associated ecosystems (M.Phil) Botany. Mr. Pabi is currently analysing and word processing ground truth data. He is also finalising

satellite image processing.

New Thesis Research

The following have just started research projects and they are using the facilities of the laboratory.

Attuah, E.M. Agricultural land use and cover change inputs on carbon cycling and sequestration (Ph.D) Dept. of Botany. Mr. Attuah has just started the field reconnaissance survey.

Allotey, A. An evaluation of the agricultural resources within Akwapim South District. A remote sensing and GIS approach (M.Phil) Department of Geography and Resource Development. Mr. Allotey is at the proposal and information gathering stage.

Other Research

Some of the student research projects focus on the Densu Basin. These are being undertaken under the supervision of staff at Legon and at Copenhagen. Funding is yet to be sought for and work started on the staff research on the proposed Densu Basin Integrated Research project.

In the course of the year, initial discussions and consultations were held with the view to initiating another project on bush fire research and monitoring in Ghana. This is to be linked up with the NOAA receiving station that is to be installed at RSAU.

Seminars and Workshops

RSAU, in collaboration with the Institute of Geography, University of Copenhagen organized a seminar on the Theme: Remote Sensing and Geographic Information Systems (GIS) in Ghana: Research, Applications and Collaborations on January 28-29, 1997.

Papers and other presentations were made by participants from the Department of Geography and Resource Development (Staff and research students), University of Copenhagen, (Institute of Geography), ISE, Dakar, Senegal and University of Ouagadougou, Burkina Faso. In all about 50 people attended the two-day seminar. The seminar was a very successful one judging by the attendance, the quality papers and other presentations made and the quality of discussions that followed the presentations.

On Thursday, 30th January, there was a meeting of a working group on bush fire research in West Africa. At this meeting a Committee was set up to organize a seminar on bush fires in Ghana. That Committee has been working hard to realize this aim.

Appendix D

The Family and Development Programme (FADEP)

Introduction

The Family and Development Programme (FADEP) is a University of Ghana Project, and is supported by the United Nations Population Fund (UNFPA). It is a project of Capacity Building, Research and Policy Assessment. Researches carried out under the Programme involve population, adolescent fertility, gender and family issues.

Publication

During the year the Programme published "The Changing Family in Ghana", proceedings of the national conference on all researches conducted under the programme. The book is available to institutions and to the public at large.

The Family Resource Centre

The Family Resource Centre, located in the Programme office in the Department of Geography and Resource Development, acts as a research centre. It is patronized by students and lecturers from the universities, consultants from outside the universities, sector ministries and other agencies.

Appendix E

Population Impact Project

Introduction

Population Impact Project (PIP), an outreach programme of the University of Ghana, is managed by the Department of Geography and Resource Development in collaboration with the Futures Group International of Washington D.C. with funds provided by the United States Agency for International Development (USAID) through GHANAPA (Ghana Population and AIDS Programme). The current focus of the project is on Population, Resources, Environment and Development. PIP continues to make available relevant information on population and development interrelationships to the public, particularly policy makers, opinion leaders, and journalists in the

form of RAPID presentations using audio-visual equipment and a computer.

Seminars and Workshops

In conformity with its objectives, PIP organised a number of population-related seminars and workshops. The key seminars organised were:

Eastern Regional Seminar held in collaboration with the Eastern Regional Administration for Parliamentarians, Regional Directors, Planning Officers and Assembly Members from the region. The seminar took place at Hotel Eredec in Koforidua from July 13 - 14, 1997 and was held under the theme "Adolescent Fertility and Reproductive Health in the Eastern Region".

Seminar on Population and Development in the Greater Accra Region. This seminar was held jointly with the National Population Council Secretariat and the Greater Accra Regional Administration in Accra on Friday, August 15th, 1997.

Sensitisation/Dissemination seminar on Population and Development for Policy Makers, Assembly Members, Members of the Regional Population Advisory Committee of NPC, District Chief Executives, and Regional Directors in Kumasi, Ashanti Region on September 23, 1997.

The following three additional seminars were held in collaboration with the National Population Council Secretariat and the three Regional Administrations cited below to inspire discussion and consensus-building around Population factors in Development and Adolescent Reproductive Health Issues. They included:

Seminar with the Eastern Regional Administration for District Chief Executives, Regional Directors, District Coordinating Directors, and District Assemblies at Hotel Eredec in Koforidua from November 10 - 11, 1997.

Seminar with the Brong Ahafo Regional Administration for District Chief Executives, Regional Directors, District Coordinating Directors, and District Assemblies at Tropical Hotel in Sunyani from November 20 - 21, 1997.

Seminar with the Volta Regional Administration for District Chief Executives, Regional Directors, District Coordinating Directors, and District Assemblies at Woezor Hotel in Ho, from November 26 - 27, 1997.

Extension

PIP staff continue to serve on the Technical Advisory Committees of the National Population Council (NPC). It also provides Technical Assistance to the NPC on various programmes including participation in Technical Advisory Body of the Population and AIDS, Coordinating Committee (PACC) and the

Population and Family Life Education Project of the Ministry of Education. In addition to this, PIP is also serving as the Implementing Agency for the Project Comparative Studies of Customary and Modern Legislation in the Area of the Family Inheritance, Marriage and Fertility Rights on behalf of the National Population Council Secretariat and the Government of Ghana, as part of the Third Country Programme being funded by the UNFPA.

Publications

PIP in collaboration with the Futures Group International, Washington has produced a News magazine, Population, Environment and Development in Ghana: Research Update. This special edition of the News magazine is focused on Adolescent Reproductive Health Issues in Ghana.

Visitors

Mr. Samuel Musa of Action AID - Sierra Leone visited PIP on February 18, 1997 to confer with the Management Team on the feasibility of setting up a West Africa Information Centre to facilitate NGO Networking in the sub-region.

Ms. Shanti R. Conly, Director of Policy Research and Analysis Population Action International (PAI) and Mr. James E. Dosen Senior Research Associate, PAI visited PIP on March 18, 1997 as part of an assessment visit to Ghana.

Dr. Dan Kress of the Futures Group International, Washington D.C., paid a working visit to PIP from 19 - 22, March, 1997.

Ms. Barbara Seligman from Focus on Young Adults in Washington D.C., visited PIP in connection with the National Adolescent Reproductive Health Policy Case Study Research.

Mr. Edward Abel, Senior Policy Analyst - The Futures Group International, Washington D.C., paid a working visit to PIP from 2 - 6 November, 1997.

Ms. Laurie Emrich of POPTech, Washington D.C., and Ms. Salwa Kazadi of CAFS Lome Regional Office, visited PIP on November 28, 1997 during a field mission to Ghana to identify training needs of agencies working in population and programme such needs in CAFS training schedule.

Appendix F

Nufu Link Arrangements Trondheim-University of Ghana Collaboration Programme in Geography 1996-2000

The programme is a co-operation between the Geography Department s of the University of Ghana, University Cape Coast, and the Norwegian

University of Science and Technology (NTNU)

The main purpose of the cooperation is to enhance the quality and attractiveness of the graduate programmes of the Geography Departments in the three institutions through cooperation in the training of M.Phil and Ph.D Students. The programme also has a research component which will serve as a framework for thesis work and joint research by staff members and students. The focus of the collaborative research is Population, Environment and Human Development

During the period under review (1996/97) a number of projects have been accomplished. These can be grouped into two main areas.

1. Student/Faculty Exchange and training
2. Institutional strengthening and capacity building

Under the Student/Faculty and training programme, five M.Phil students, two from Legon, and three from Cape Coast, as well as a Ph.D student from Legon visited Trondheim for research purposes.

Two Norwegian M.Phil students from NTNU have been assisted on their field research work in Ghana under the supervision of the Department of Geography and Resource Development, University of Ghana.

A number of faculty members from Legon and Cape Coast also paid short visits to Trondheim during this period. Prof. J.S. Nabila the then head of Department of Geography and Resource Development, Legon was in Trondheim in August, 1996 to finalise details of the link arrangement. Prof. Awusabo-Asare and Dr. Abane both from Cape Coast visited Trondheim in 1997. Prof Awusabo-Asare was an examiner for a doctoral thesis, whereas Dr. Abane was there for research purposes.

Prof. Asbjørn Aase from the Department of Geography NTNU paid short visits to Ghana in 1996 and in 1997 in connection with the final stages of the implementation of the programme.

Under Institutional Strengthening and Capacity Building, two computers, one each for Legon and Cape Coast were purchased in May, 1997. Money has just been provided for four more computers to be purchased, two for Legon and two for Cape Coast. Through the collaboration programme, funds have been made available to revive the Bulletin of the Ghana Geographical Association. The first issue is to be published later this year.

Department of History

Conference

- Perbi, Akosua (Mrs) - Conference on the UNESCO "Slave Route" Project in Conakry, Guinea 24 - 26 March, 1997. Paper presented: Oral Tradition and the Slave Trade in Ghana.

Conference on the UNESCO "Slave Route"
Project in Oslo, Norway 14 - 20 April, 1997.
Paper presented: The Slave Trade and Slavery
in the Gold Coast

Legon Centre for International Affairs (LECIA)

Overview

LECIA kept faith with its statutory mission of providing, through an MA programme and periodic Seminars and Workshops, highly-trained manpower for Ghana's Foreign Service, Immigration, CEPS and other units of the public sector establishment engaged in the management of Ghana's foreign relations. LECIA's graduates have also been absorbed by foreign diplomatic and economic intelligence organizations.

Staff

There are now 3 full-time Senior/Research Fellows. The applications of two more are being processed for appointment. LECIA therefore continues to depend on part-time lecturers from within the University

Admissions

LECIA received a total of 48 applications for admission into the MA programme and admitted 16 in October 1996. Seven out of the 16 were females.

Courses

A total of 14 courses, including 3 core courses were offered during the two Semesters of the 1996/97 Academic Year.

The LECIA Wednesday Seminar Series featured 16 speakers drawn from the fields of diplomatic practice, business management, journalism and communications, tourism and international education.

Examination Results

All the 16 students passed the written papers (part I) and all of them submitted their Dissertations within the 90-day deadline. So far, about 10 out of the 16 have reworked and resubmitted their Dissertations and will therefore be presented at the 1998 Congregation.

The Library

LECIA continued to stock its library with current books and journals on International Relations. There has been no special funding and the library continued to be supported from the quarterly subventions from Ministry of Foreign Affairs.

Extension Services

LECIA has established close relations, as a partner, with the Friedrich Ebert Foundation, Ghana. Under the partnership plan, LECIA organized a three-day outreach programme for the Parliamentary Committee on Foreign Relations. The venue was the Cisneros Hotel, Sogakope. The theme was: The Challenge of Formulating and Conducting Foreign Policy in Ghana. LECIA, under the same programme, organized a two-day public forum at the Labadi Hotel, Accra on "Conflict Prevention, Resolution and Management."

Links with Foreign Institutions

LECIA has maintained its link arrangement with Denver University's Graduate Institute of International Relations. A team of 20 students of the GIIR visited LECIA for 2 weeks during the summer of 1997.

The conflict Data Base funded by the US Institute for Peace will be commissioned in June 1998.

Publications and Conferences

Bluwey, G.K.

"The Role of Non-Governmental Organizations in the Democratic Transition in Ghana, 1987-1992" in K.A. Ninsin, Democratic Transitions in Africa: The Ghana Study (Dakar: CODESRIA; Forthcoming)
"Determinants of Political Choice in the Agua-West and Awutu Constituencies, 1996" in J.A.R. Ayee (ed.) Forthcoming
"Principles and Issues in Foreign Policy making in Ghana". Presented to the Parliamentary Committee on Foreign Relations at the Cisneros Hotel, Sogakope May 1997
"Democracy and Security in the West African Sub-Region". Presented at a workshop on Democracy and Security in Africa at the Obafemi Awolowo University, Nigeria (August 21, 1997)

"Proliferation of Small Arms: Implications for Democracy and Security in West Africa." Presented at the 5th UN International Conference on Arms Control and Disarmament at Juniata College, Williamsburg, Pa. USA- September, 1997

Ahorsu, K.E.

Seminar, July, 1997 Alternative Conflict Resolution course organized by the Centre for African Peace and Conflict Resolution, California State University, Sacramento, and the Faculty of Law, University of Ghana, Legon.

"Military Coups and External Intervention in West Africa," LECIA Wednesday Seminar Series, first Semester, 1997/98

Presently working on a book, Multilateralism and Conflict Management in the Post-Cold War Era.

Department of Library and Archival Studies

Overview

The staffing position continues to be a major problem of the Department. This has been compounded with the introduction of the course-credit system at the Graduate Level with its attendant increased load. As a result, the M.Phil programme has been suspended for a few years until the staffing situation improves.

Courses Taught/Student Numbers

M.Phil	Library Studies	
	Part I	
	Part II	3
M.Phil	Archival Studies	
	Part I	
	Part II	1

Graduate Diploma	Library Studies	10
Graduate Diploma	Archival Studies	8
Non-Graduate Diploma-	Librarianship	
	Part I	36
	Part II	35
Non-Graduate Diploma-	Archives Administration	
	Part I	24
	Part II	20

Research

Messrs Pino Akotia and E. E. Badu are both in the final stages of their Ph.D programme in the U.K.

The link programme between the Department and UCL, London continued during the year.

Conference/Seminars

Prof. A. A. Alemna presented a paper at a seminar on Academic Library Management.

Staff

Mr. S. N. B. Tackie was appointed Lecturer in the Department. Mr. E. K. Dandzo continued to provide part-time teaching in the Department

Publications

- Akussah, H.,
Records Management in Ghana: An Overview. African Jnl. of Lib. Arch. & Info. Science Vol. 6 No. 2, October 1996
- Alemna, A.A.,
Research in Librarianship in Ghana: Status, Constraints and Controls. Education Libraries Journal Vol. 13, No.2, 1996.
Delinquent Readers in University Libraries in Ghana. Library and Archival Security Vol. 13, No.2, 1996
CD-ROMs in Ghanaian Libraries: A Survey. Information Development Vol.12, No.2, 1996.
The Future of Public Libraries in Ghana. Cape Librarian Vol.40, No.7, 1996.
The Periodical Literature of Library and Information in Africa: 1990-95. Int. Info. and Library Review Vol.28, 1996.

Library Facilities in the Polytechnics of Ghana in view of Their New Roles as Tertiary Institutions. Aslib Proceedings Vol.48, No.10, 1996.

Boye, M.,

Fifty years of library education in Ghana and the challenges of restructuring. Education For Information Vol.14, No.1, 1996.

Extension Services

1. Mrs Mary Boye is still President of the Children's Literature Foundation.
2. Mr. S. K. Agyei continued to serve on the Project Management Team for a Records Centre for the National Archives
3. Mr. H. Akussah continued to assist in the restructuring of the registries in the civil and public services.
4. Mr. S. N. B. Tackie was elected Secretary of the Ghana Library Association.
5. Prof. A. A. Alemna continued to serve on the Board of the Ghana Book Trust.
6. Prof. A. A. Alemna was elected Vice-President of University of Cape Coast Alumni Association (Accra Branch).

Department of Nursing

During the 1996/97 academic year, the Department continued to offer B.A./B.Sc. Degree and Diploma in Nursing Education/Administration programmes. The commencement of the M.Phil degree programme was not possible due to lack of staff.

One teaching staff in the person of Mrs. Emma Banga retired on 30th September, 1997.

The Department, as usual, was assisted by several part-time lecturers and demonstrators in teaching both theory and practical components of the programmes on campus and in other health care institutions. The only Principal Nurse Technician assisting with the clinical teaching retired on 30th September, 1997. All attempts to employ other nurse technicians have proved futile.

The department had on its staff one Senior Administrative Assistant, one Senior Library Assistant and seven other supporting staff.

Many Departments continued to use facilities of the Department. Damage to chairs and tables has resulted in the shortage of these items.

Student Numbers

This year witnessed a large increase in the number of B.A. students, majority of them were already nurses seeking continuing professional education.

Enrolment in the BA/BSc Degree Programme in 1996/97 Academic Year

	Total	Male	Female
Level 200	51	22	29
Level 300	24	7	17
Level 400	19	1	18

Enrolment in the Diploma Programme

	Total	Male	Female
Diploma Year I	11	2	9
Diploma Year II	6		6

Staffing

Miss Joana Laryea	Senior Lecturer/Ag. Head of Department
Mrs Emma Banga	Lecturer
Miss Bernice Goka	-
Mrs Felicia Darkwah	-
Prof. Ayodele Akiwumi	On contract

Link Arrangement between the Department and Universities outside Ghana

The link arrangement between the Department and the Universities of Ulster (Ireland) and South Bank (London) continued. Two lecturers Miss Attracta Corey from the University of Ulster and Miss Debbie Harries from South Bank University visited the Department in November 1996. They assisted with the development of a proposed Paediatric Nursing course. It will be offered as an elective for BA/BSc. students who are already nurses. The programme will commence as soon as the staffing situation improves and approval is given by the Board of Faculty of Social Studies and Academic Board.

A major development was the initiation of another link programme between the Faculty of Nursing, University of Alberta and the Department of Nursing, University of Ghana. A memorandum of understanding was signed between the two Universities. A joint proposal for funding the project has been submitted to the Canadian International Development Agency.

Research Activities

Laryea, Joana	continued with a research on "AIDS" Infection Control practices among nurses
Akiwumi, Ayodele	continued with a Study on "Introduction of Primary Nursing to Selected Hospitals in Accra Metropolitan Area"
Banga, Emma	"Nursing the Aged in Ghana" "Nursing and Health" "Contemporary and Traditional Family Planning in Upper West." "The Effect of Legislative Abolition of Female Genital Mutilation"
Darkwah, Felicia	Study on "Dilutants Trial, Infection Control: A way Forward" Study on "Menopause"

Publications

Akiwumi, Ayodele	"Individualized Total Patient Care" (yet to be published in the <u>Social Science Journal</u>)
Banga, Emma	"The Effects of Social Changes on the Aged in Ghana National Health and Nursing Implication." (Published <u>FASS Vol. No. 1 pp:27 - 40</u>) "Nursing the Aged in Ghana - sent for publication <u>Journal of Gerontology</u> " "The Role of the Ghanaian Nurse in Health Policy Formulation" - sent for publication in <u>WACN</u> .
Darkwah, Felicia	(1997) You and Your health "Infertility" 1. <u>Newsletter of Trinity United Church, Church News Vol 1: No. 4 pp. 2-4.</u>
Darkwah, Felicia	(1997) History of Midwifery Education in Ghana " <u>The Ghanaian Midwife: A quarterly Publication of the Ghana Registered Midwives Association No. 25 Accra.</u> "

Seminars, Conferences and Workshops Attended

International Nursing Seminar on the theme "Models of Practice: Paths to Success" was jointly held by the Department, the Lincoln Hospital School

of Nursing Alumni Association and the Department of Hospital Career Development of Duke University Medical Centre at Novotel, Accra on 21st July, 1997. Papers were delivered by lecturers from the Department and the visiting lecturers.

Goka, Bernice	Delivered a paper on "Achieving Excellence in Health Care Delivery in an Ambulatory Health Care Setting".
Darkwah, Felicia	Delivered a paper on "Advanced Nursing Practice role in Ambulatory Care".
Laryea, Joanna	Attended the 4th Biennial General Meeting and 13th Scientific Session of the West African College of Nursing at Freetown, Sierra Leone. Attended a meeting of the Research Committee, West African Health Community, Lagos, Nigeria in February 1997.
Banga, Emma	Attended a workshop on "Helping to train volunteers for the Care of the Aged." Attended a workshop on "Education of women in traditional Practices Affecting the Health of Women (Food Taboos, Widowhood Rights and Female Circumcision)
Darkwah, Felicia	Presented a paper on "Nursing/ Midwifery Education towards the 21st Century" at an International Workshop on Leadership in Nursing and Midwifery Education. The Malta Action Plan II organised by the Commonwealth Secretariat and Ghana Registered Nurses Association in Ghana from 30th September - 3rd October, 1997. Presented a report on "Assessment of Standards of Nursing Care: Strategies and Action Plan for improving Quality of Nursing Care in Ghana", as Chairman of the National Nursing Task Force.

Benefactions/Donations

The following items were donated to the department:

The University of Ghana donated the following Air-Conditioners for use in the Department's Auditorium:
2 Split Air-conditioner

2 Window Air-Conditioners

The British Council donated to the Department:

1 Computer

1 Laser Jet Printer (SML)

1 Unit Uninterrupted Power Supply (UPS)

1 Fax Machine

Duke University Medical Centre initiated a fund for "Needy Students" with a donation of \$100.00 (one hundred dollars) a year.

- Duke University Medical Centre in conjunction with Lincoln Hospital School of Nursing Alumni Association donated a number of books to the Department.

University of Ulster donated 11 nursing textbooks to the department.

- EPP Books and Stationery dealers donated 18 nursing text books to the department.

Department of Political Science

Overview

The Department is one of the largest, if not the largest, in the University. And yet it is poorly equipped in terms of space and other facilities. The Department is still housed in a so-called "temporary building", constructed in 1964. This building has seen a lot of decay over the years. To enable the Department accommodate the ever-growing increase in its student population, efforts are being made to generate funds to construct a permanent building in due course. Notwithstanding the limitations, the Department is still one of the most productive in the University. This is evidenced by the quality and quantity of research and publications of the Department.

Courses

38 undergraduate and 20 graduate courses were offered. The breakdown is as follows:

Undergraduate Courses

Level 100

Semester 1

POLI 101 - Introduction to the Study of Political Science I

Semester 2

POLI 102 - Introduction to the Study of Political Science II

Level 200

Semester 1

Basic Statistics

POLI 201 - Elements of Political Science

POLI 203 - Political Institutions

Semester 2

POLI 202 - Introduction to International Politics

POLI 204 - Introduction to the Study of Ghanaian Politics

Level 300

Semester 1

POLI 301 - Ancient and Medieval Political Thought

POLI 303 - Introduction to the Theory and Practice of Political Research

POLI 305 - Government and Politics in Ghana since Independence (1)

POLI 307 - Introduction to Public Administration

POLI 313 - Nature, Growth and Role of International Organizations

POLI 315 - Organization Theory

Semester 2

POLI 302 - Modern Western Political Thought

POLI 304 - Public Administration in Ghana

POLI 306 - Africa and the Global System

POLI 308 - Methods of Political Research

POLI 312 - Development Administration

POLI 318 - The Military in Politics

POLI 322 - Theories of Politics

Level 400

Semester 1

POLI 400 - Independent Study

POLI 401 - The Contractualists

POLI 403 - Statistics for Political Research

POLI 405 - Politics of International Economic Relations

POLI 407 - Government and Politics in Ghana since Independence (2)

POLI 409 - Comparative Public Administration

POLI 413 - Political Thought in Africa

POLI 415 - International Conflicts and Conflict Resolution

POLI 417 - Theories of Underdevelopment

POLI 421 - Foreign Policy Analysis

POLI 429 - Public Policy Analysis

Semester 2

POLI 402 - Social and Political Theory
POLI 404 - State and Society in Africa
POLI 406 - Regionalism and Ethnicity in Ghanaian Politics
POLI 408 - Ghana's Foreign Policy
POLI 412 - Local Government Administration in Ghana
POLI 414 - Socialist Thought in Africa
POLI 418 - US Policy Towards Africa

Graduate Courses

Semester 1

POLI 617 - Methodology/Philosophy of the Social Sciences
POLI 605 - Development Planning in Ghana
POLI 615 - Public Enterprise
POLI 627 - Diplomacy in the Modern World
POLI 629 - The Making of Foreign Policy
POLI 631 - Conflict Resolution and Peace Studies
POLI 633 - Conflicts in African States
POLI 637 - Theories of Political Development and Underdevelopment
POLI 641 - Problems of Government and Politics in Africa
POLI 653 - African Ideas of Democracy
POLI 657 - African Political Thought

Semester 2

POLI 602 - Survey Methods in Social Sciences
POLI 604 - Public Policy Analysis
POLI 608 - Government Budgeting
POLI 626 - Theory and International Politics
POLI 632 - Foreign Policies of African States
POLI 636 - International Organization
POLI 642 - Strategies of Development in Africa
POLI 648 - The Military in Politics
POLI 654 - Democracy and Governance in Africa

Student Numbers

The number of students offering Political Science continues to increase in keeping with previous trends. Compared to the previous year's figure, there was an increase of about 13 per cent, that is, from 977 to 1320. The breakdown is as follows:

Undergraduate

Level 100	86
Level 200	586
Level 300	375
<u>Level 400</u>	<u>253</u>
<u>TOTAL</u>	<u>1300</u>

Graduate

M.Phil Year 1	7
M.Phil Year 2	12
Ph.D	1
TOTAL	20

Staff

The staff strength of the Department stood at 10. Two members of staff, Dr A. Essuman-Johnson and Dr Amos Anyimadu went on sabbatical and study leave respectively. Professor Yakubu Saaka joined the Department from Oberlin College in the US as a Visiting Professor for one year.

Research

The Department in collaboration with the Royal Danish Embassy conducted pre- and post-1996 elections surveys in 27 selected constituencies in eight out of the ten regions of the country. The findings were presented at a conference on the 1996 Elections and Democratic Governance in Ghana, which was held from 30-31 October 1997 at the Auditorium, Nursing Department, University of Ghana. Papers were presented by all members of staff.

Dr A.M. Oquaye and Mr F.K. Drah collaborated with the Institute of Development Studies, University of Sussex on a research project on civil society in Ghana, while Professor J.R.A. Ayee and Dr K. Bofo-Arthur have also worked on a project, "Enhancing Civil Society at the Local Level", with the assistance of the International Foundation on Electoral Systems (IFES)

Individual research activities focused on areas like democratization, elections decentralization, governance, civil society, private sector, public policy, gender, environment and conflict.

Publications

Ayee, J.R.A.

"The Measurement of Decentralization: The Ghanaian Experience", **African Affairs** (Vol. 95, No. 378, January 1996), pp. 31-50.

"Ghana's Return to Constitutional Rule under the PNDC", **African Insight** (Vol. 26, No. 2, 1996), pp. 120-129.

"The African Civil Servant and Policy Management: The Ghanaian Case", **Development Policy Management Forum (DPMF) Working Paper**, (Addis Ababa) (No. 3, July 1996), pp.1-32

"Localization Policies and Programmes in the Kingdom of Swaziland", **African**

Administrative Studies (No. 46, 1996), pp. 1-21.

"Ghana's 1996 General Elections: A Post-Mortem". African Association of Political Science (AAPS) Occasional Paper Series (Vol. 1, No. 1, 1997), pp. 1-27.

"Good Governance and Decentralization in Ghana: Retrospect and Prospects". African Democracies (African Institute for Democracy, Dakar) (No. 9, January-March 1997), pp. 43-50.

"Democratization, Good Governance and Administrative Reform: Are they Bedfellows?". in African Institute for Democracy (IAD) (ed) Bonne Gouvernance & Developpement en Afrique (IAD, Dakar, 1997), pp. 307-320.

"A Code of Conduct for Public Officials: The Ghanaian Experience, 1992-96", International Review of Administrative Sciences (Vol. 63, No. 3, September 1997), pp. 369-375.

"The December 1996 General Elections in Ghana", Electoral Studies (Vol. 16, No. 3, September 1997), pp. 416-427.

"Intergovernmental Relations in Ghana, 1988-1995" Verfassung Und Recht in Uebersee (University of Hamburg, Germany) (Vol. 30, No. 3, 1997), pp. 330-354.

Conferences/Seminars/Workshops

Ayee, J.R.A.

Inaugural of the Ghana Chapter of the African Association of Political Science (AAPS) and Lectures on Challenges to Democratic Governance in Africa, held at the Teachers' Hall, Accra, on 12 July 1996, sponsored by the Hanns Seidel Foundation. Paper presented: "Challenges to Democratization and Decentralization in Ghana".

Annual Conference of the International Association of Schools and Institutes of Administration under the theme, "Professionalism and Ethical Conduct for the Public Servant: Challenges for the 21st Century", held at the University of Durban, Westville, South Africa, 30 June-5 July

1996. Papers presented: (i) **"The Management of Transition from Military Rule to Constitutional Government and the Consolidation of Democratic Governance in Ghana"**; and (ii) **"Policy Management in Ghana: The Case of the Value-Added Tax"**.

Third International Conference of the International Institute of Administrative Sciences on the theme, **"New Challenges for Public Administration in the 21st Century: Efficient Civil Service and Decentralized Public Administration"**, held in Beijing, China, 8-11 October 1996.

Papers presented: (i) **"Intergovernmental Relations in Ghana, 1988-1995"**; and (ii) **"A Code of Conduct for Public Officials: The Ghanaian Experience, 1992-1996"**.

International Symposium on Governance and Development in Africa, organized by the African Institute of Democracy (IAD) in Dakar, Senegal, 7-9 November 1996.

Papers presented: (i) **"Good Governance and Decentralization in Ghana: Retrospect and Prospects"**; and (ii) **Good Governance, Democratization and Administrative Reform: Are they Bedfellows?"**.

Seminar of the Department of Political Studies, School of Oriental and African Studies (SOAS), University of London, 7 March 1997. Paper presented: **"The December 1996 General Elections in Ghana: A Post-Mortem"**.

Round Table of the International Institute of Administrative Sciences (IIAS) on the theme, **"Estates General of Public Administration: The Changing World of Government"**, held in Quebec City, Canada, 14-17 July 1997. Paper presented: **"Decentralization and the Provision of Local Public Services in Ghana"**.

Seminar on **"Dependency Mentality and Development"** organized by the Institute of African Studies, Legon and Goethe Institute, Accra on 30 September-2 October 1997. Paper presented: **"Colonial Paternalism and Dependency Mentality"**.

- Conference on the 1996 Elections and **Democratic Consolidation in Ghana"**, held

- at the University of Ghana with support from the Royal Danish Embassy, 30-31 October 1997. Papers presented: (i) "The 1996 General Elections: An Overview"; (ii) "Election Management and Democratic Consolidation: The Case of the Electoral Consensus and Democratic Consolidation in Ghana: The Inter-Party Advisory Committee (IPAC); (iv) Measuring Public Opinion on Key Political and Economic Issues: A Survey of the December 1996 General Elections in the Keta and Anlo Constituencies".
- 20th Southern African Universities Social Science Conference (SAUSSC) on the theme, "Democratic Governance, Ethical Behaviour, Public Accountability, and the Control of Corruption in Africa", held at the University of Zambia, 30 November-5 December 1997. Papers presented: (i) "Civil Society and Democratic Governance in Ghana"; and (ii) Combating Corruption in Ghana: The Continuing Search for Cures".
- Drah, F.K.** Conference on the 1996 General Elections and Democratic Consolidation in Ghana held at the University of Ghana, Legon, 30-31 October 1997. Paper presented: "Survey in the Okakwei South and Okakwei North Constituencies".
- Jonah, K** Conference on the 1996 General Elections and Democratic Consolidation in Ghana held at the University of Ghana, Legon, 30-31 October 1997. Paper presented: "The 1996 Elections and Politics in the Ahanta West and Shama".
- Ansah-Koi, K.** Conference on the 1996 General Elections and Democratic Consolidation in Ghana held at the University of Ghana, Legon, 30-31 October 1997. Papers presented: (i) "Walking a Political Tightrope: Chiefs, Chieftaincy and the 1996 Elections"; and (ii) "Ghana's 1996 Elections: A Study of Akropong Constituency"
- Boafo-Arthur, K.** Conference on the 1996 General Elections and Democratic Consolidation in Ghana held at the University of Ghana, Legon, 30-

31 October 1997 Papers presented: (i) "Party Organization, Finance and the Democratic Process: The Case of the Opposition Parties"; and (ii) "The 1996 Elections in Ghana: A Comparative Analysis of Electoral Survey of the Mfantseman West and Abura-Asebu-Kwamankese Constituencies"

- Quaye, A.M.** Conference on the 1996 General Elections and Democratic Consolidation in Ghana held at the University of Ghana, Legon, 30-31 October 1997. Papers presented: (i) "Human Rights and the 1996 Elections in Ghana"; and (ii) "Politics in Asante Mampong: A Study of the 1996 Elections".
- Anebo, F.K.G.** Conference on the 1996 General Elections and Democratic Consolidation in Ghana held at the University of Ghana, Legon, 30-31 October 1997. Paper presented: "Towards a Fuller Understanding of Electoral Politics in Rural Ghana: The 1996 Elections and Political Attitudes and Choices in Nkwanta Constituency in the Volta Region".
- Ahiawordor, S.K M** (1) Conference on the 1996 General Elections and Democratic Consolidation in Ghana held at the University of Ghana, Legon, 30-31 October 1997. Paper presented: "A Study of the 1996 Presidential and Parliamentary Elections in Ghana: The Case of the Ketu South and Ketu North Constituencies"
- Allah-Mensah, Beatrice** Conference on the 1996 General Elections and Democratic Consolidation in Ghana held at the University of Ghana, Legon, 30-31 October 1997. Papers presented: (i) "The Gender Dimension of the 1996 Elections: Its Implications for Democratic Consolidation"; and (ii) "Politics, the Economy and Voting Behaviour in the 1996 Elections: The Case of Ellembele Constituency".
- Saaka, Yakubu** Conference on the 1996 General Elections and Democratic Consolidation in Ghana held at the University of Ghana, Legon, 30-31 October 1997. Paper presented:

"The 1996 General Elections in Ghana:
Analysis of Electoral Survey of the Bole/
Bamboi and Damongo/Daboya
Constituencies of Northern Ghana".

Benefactions

The Department will like to express its profound gratitude to the Royal Danish Embassy for its support and assistance in connection with the pre- and post-1996 Elections surveys

Department of Psychology

The Department began the 1996/97 academic year somberly. Half of the teaching staff proceeded on either sabbatical/maternity leave or on post-contract retirement. Nevertheless the remaining four full time Lecturers discharged their duties diligently and efficiently.

We ran 30 undergraduate and 12 graduate courses and provided supervision for 10 M.Phil theses and B.A./B.Sc. research projects. In all 5,550 students (foreign students inclusive) from the various Faculties and Institutes passed through the Department that year. The fact is that some of our courses are necessary requirements for graduation in certain departments while Psychology itself is a utility combination subject for many programmes. Nursing, Social Work, Home Science, Prison Administration, Police Administration and Management and Accounting are examples. The situation became almost unsustainable last year when Level 100 and Level 200 Psychology courses were made prerequisites for science students for consideration into the Medical School.

In spite of these pressures we were also able to meet the several requests for guest lecturers and resource persons from the security agencies, governmental, non-governmental and benevolent organisations, schools and the various media houses.

Indeed, we were overburdened but surely, not deterred.

Courses

Undergraduate: We ran courses leading to the award of Bachelor of Arts (B.A.) and Bachelor of Science (B.Sc.) degrees in Psychology. In both cases,

there were two options. In the first option the student could major in Psychology as a single subject major. The second option, double subject (standard) allowed the candidate to major in Psychology and any other subject from the Sciences, Arts, Social Sciences or Business Administration.

Graduate: Unfortunately, we were able to offer only two graduate programmes due to the depressing staff situation. The two programmes offered were Clinical Psychology and Industrial and Organisational Psychology. Both are of two-year duration and lead to the award of Master of Philosophy (M.Phil) degree.

Student Numbers

The actual number of students registered as "Psychology students" was 1,118. This number consisted of 200 (Level 100), 450 (Level 200), 300 (Level 300), 150 (Level 400), 8 (Postgraduates) and 10 (Foreign Students).

Staff

1. Dr. A. Afrifa, Head, Senior Lecturer
2. Dr. S.A. Danquah, Senior Lecturer
3. Dr. R. Akuamoah-Boateng, Senior Lecturer
4. Dr. Rose Schroeder, Lecturer
5. Mrs. Charity Akotia, Lecturer (Resumed Second Semester)
6. Prof. C.E. Fiscian, Associate Professor (Part-time)
7. Mrs. Rachel Phillips, Lecturer (Part-time)
8. Prof. J.Y. Opoku, Associate Professor (Sabbatical Leave)

Research

Afrifa, A.

Research Report on Rehabilitation of Persons with Disabilities. Funded by the UNDP/Department of Social Welfare Project for Human Resources Development for Community based rehabilitation of Persons with Disabilities (GHA/93/002). Being used as the resource base by the National Advisory Committee on Disability Policy.

Aptitude Test for selection of suitably qualified candidates for enrolment into the Ghana Army, Navy and Air Force as Officer Cadets.

Ethnic Stereotypes and Prejudice in Ghana
Ongoing

Danquah, S.A.

Effect of Psychosocial stressors on Physical and Psychological Disorders in Ghana (Non-Contagious Diseases) Some aspects of Biopsychosocial approach to Health Care

and Prevention Ongoing
Avoidance Behaviour Patterns among
the Phobic Patients in Ghana. A look at the
Relationship between Patients with Anxiety
Disorders treated at the Shrine and those
treated at the Health Clinics in Ghana:
Ongoing

Akotia, Charity S. and
Sefa-Dedeh, A.

Refugee Mental Health: Adjustment of
Liberians to refugee conditions in Ghana
Akotia, C.S. and Schroeder, R: Transition to
College Adjustment of freshmen to University
Schroeder, R., Akotia, C.S. and Apekey:
Occupational Stress and coping strategies
among Ghanaian Teachers.

Schroeder, R.M., Akotia, C.S.
and Akpekey, A.K.

Occupational Stress and coping strategies
among Ghanaian Teachers. Ongoing

Akotia, C.S. and Schroeder, R.M.:

Transition to College: Adjustment of
freshmen to University conditions. Ongoing

Publications

Danquah, S.A.

(1996) The effect of Danquah Communication
System (DanCs) boards on Maladaptive
Behaviours among Individuals with
Severe Intellectual Impairment and Non-
Verbal Communication Skills. Interna-
tional Journal of Rehabilitation Research
19(2) 143- 156.

Akuamoah-Boateng, R.

You and Psychology Series (A Simplified
Presentation of Psychological issues to
educate the Public about Psychology).
1. Stress. People Under Pressure.
Vol.1, 1997.
2. Preparing for Retirement. Vol.2, 1997.
3(a) Shyness, Vol.3, 1997.
(b) Sleeplessness, Vol.3, 1997.
4(a) What is Psychology? Vol.4 1997.
(b) Learning without forgetting, Vol.4, 1997.
(c) Torn between two lovers: Problems of
Career Women. Vol.4, 1997.

Schroeder, Rose

Are you depressed? Cheer up help is on the
way. You and Psychology Series, Vol.5,
1997, pages 10-22.

Akotia, C. S. (Mrs) (1996) Transition to University: Some difficulties among Level 100 and Level 200 students in Ghana. Ife Psychologia: An International Journal, Vol.4, No.2, pp. 162-188. Research Interest
Transition to College: Adjustment, difficulties coping mechanisms.
Stress and Stress Management
Refugee Mental Health

Conferences/Seminars/Workshops

Afrifa, A. "Psychic Healing, Holistic Healing: Psychological Perspective". Pan-African Art of Healing Seminar July 7-11, 1997, Novotel, Accra, Ghana.
"Social Psychology of Population Communication". Fifth International Seminar in Population Communication: UNFPA/(Regional Institute for Population Communication) Ghana Institute of Journalism, September 1 October 10, 1997. Ghana Institute of Journalism (GIJ), Accra.

Danquah, S. A. "The effect of Danquah Communication System (DanCs) boards on maladaptive behaviours among individuals with intellectual impairment and non-verbal communication skills". Presented and Demonstrated at the International Association for the Scientific Study of Intellectual Disability, 10th World Congress, July 8 - 13, 1996, Finland Hall, Helsinki, Finland.
"Guided Self-Change: A Brief Motivational Intervention for Alcohol and Drug Abuse" Annual AABT Convention, November 21 - 24, 1996, New York, U.S.A.
"Cognitive-Behaviour Intervention for Pedophilias". 18th Annual Guelph Conference of Canadian Psychological Association, University of Guelph, December 3 - 6, 1996, Canada.
Psychological Risk Factors and Heart Disease "Treatment and Prevention".

Presented at the Winter Workshop by
Association of Health Service Providers in
Psychology, Health Science Centre, Memorial
University of Newfoundland, St. John's,
January 16 - 18, 1997.

Benefactions

1. Received 10 books from a former student of this Department studying at the Norwegian University of Science and Technology (NTNU)
2. Benjamin Amponsah, a former student of the department and currently a Ph.D. student at NTNU donated his PC to the Department on a recent visit.
3. At the initiative of Benjamin Amponsah and Professor Sturla Krekling, Lecturers at the Department of Psychology, NTNU shipped to us, 53 books as a gift to our Departmental Library.

Department of Sociology

Overview

The Sociology Department continues to strike a delicate balance between its mission of solid scholarly pursuits, and the desire to make the discipline available to as many students as possible. Given the shortage of teaching staff, the task has not been easy, since it has overtaxed the research and publishing activities of Senior Members.

Courses

The Department runs two degree programmes: B.A. Sociology and B.A. Social Work. In addition, three diploma courses are run. These are in the areas of Social Administration, Prison Administration, and Police Administration. Post graduate programmes are at the levels of Graduate Diploma, M.A., M.Phil, and Ph.D. Staffing problems have caused the temporary suspension of the Graduate Diploma programme in Social Administration. A Master's programme in Social Work is envisaged, and will begin when staff become available.

Student Numbers

Courses	No.
(1) Sociology	
Level 100	142
Level 200	368
Level 300	259
Level 400	99
(2) Social Work	
Level 100	77
Level 200	43
Level 300	32
(3) Diploma in Social Administration	
Year I	21
Year II	26
(4) Diploma in Police Administration	
Year I	10
Year II	3
(5) Diploma in Prison Administration	
Year I	22
Year II	16
(6) Graduate Programmes	
Ph.D	1
M.A. (Sociology)	10
M Phil	10
Graduate Diploma	3
(7) From other Departments	
Nutrition	3
Home Science	11
Nursing	13
Exchange Students	25
Total:	<u>1,183</u> Students

Staff

Efforts to augment the staffing situation are beginning to see modest results. Given the fact that the Sociology Department services departments such as Nursing, Home Science, Pre-medical sciences, etc, the position of staffing is still critical.

The staffing position is as follows:

Senior Members - 13, Senior Staff - 1, Junior Staff - 12

Research and Publications

Senior members have managed to combine heavy teaching with research, publications and public service.

Nukunya, G.K.

Served as Chairman of the Planning Committee for the 7th Annual Conference of the Pan African Anthropological Conference jointly hosted by the Department of Sociology and the Institute of African Studies, Legon. 8th - 12th September, 1997.

Made a lecture tour of the United States organized by the Council on International Educational Exchange (CIEE) of the United States, October - November, 1997. Universities and Colleges visited included University of North Carolina at Chapel Hill, Cornell University, University of California at Berkeley, San Jose State University, Morehouse, Clark Atlanta, Spelman College and Emory University.

Publications

"The Land and the People" in Francis Agbodeka (ed) 1997: A Handbook of Eweland Vol. I: The Ewes of Southeast Ghana. Accra: Woeli Publishing Services. Pp. 8 - 13.

"Social and Political Institutions" in F. Agbodeka op. cit. Pp 47 - 72.

"Festivals" in F. Agbodeka, op. cit. Pp. 105 - 122.

Apt, V.H.A. Nana

Won two International Awards in Gerontology in 1997.

Publications (1996/97) Books

Coping with Old Age in a Changing Africa: Social Change and the Elderly Ghanaian.

Avebury, Aldershot, 1996

At Christmas and on Rainy Days: transport travel and female traders of Accra. (with Margaret Grieco and Jeff Turner) Avebury, Aldershot, 1996.

Aging in Africa. World Health Organisation Ageing and Health Programme, Geneva, 1997.

Book Chapters

Aging in Africa. Toward a Re-definition of Caring. In Stanley R. Ingman, Xiaomei Pei, Carl D. Ekstrom, Hiram J. Friedsam, Kristy R. Bartlett (Eds). An Aging Population. An Aging Planet, and a Sustainable Future. Texas Institute for Research and Education on Aging, University of North Texas, 1996.

Older Women: A Policy Oriented Approach to Problems of Equity and Empowerment in Developing Countries. In James Calleja (Ed) Meeting the Challenges of Ageing Populations in the Developing World. United Nations' International Institute on Ageing, Malta, 1996

Social Work in Ghana. (with E. Q. Blavo), In Nanzeen S. Mayadas, Thomas D. Watts, and Doreen Elliott (Eds). International Handbook on Social Work Theory and Practice. Greenwood press, Westport, 1997.

Journals/Articles

- **Interdependence and Independence: averting the poverty of older persons in an ageing world.** (With Margaret Grieco). United Nations Bulletin on Ageing. U.N. New York 1996.
- **Those who have Vision.** The Magazine of World Health Organisation No.4, July-August, Geneva 1997.
- **Bearing the Weight: The Kayayee, Ghana's Working Girl Child.** (with Seema Agarwal, Memunatu Attah & Margaret Grieco). International Social Work. Vol. 40, 245-263 July, 1997

Research Documents

Street Children and Aids. (with E.Q. Blavo). Centre for Social Policy Studies, UG, LEGON, 1997.

Listening to Girls on the Street Tell Their Own Story (with Margaret Grieco), Centre for Social Policy Studies, UG. Ghana, 1997.

Mends, E.H.

Seminar on Asafo History Programme
African Studies and University of Trudheim
at the Institute of African Studies, Legon.
Read Paper:
The Fanti Asafo - A Socio-historical Analysis.
December 17-18, 1997.

Yanguoru, Y
Publications

"The Institutional Aspects of Urban Environmental Management". In: Benneh et al. Environmental problems and the Urban Household in the Greater Accra Metropolitan Area (GAMA) Accra. Stockholm Environment Institute (SEI). Sweden.
"Relevance of Health and Environmental Monitoring Data to Planning and Decision-making". In Songsore et al. Accra Household Environment and Health Follow-up Study. Stockholm Environment Institute. Forthcoming.
"Environmental Health Indicators and Target Audiences". In Songsore et al. Ibid. Forthcoming.

Research

Accra Household Environment and Health Follow-up Study. Psychotropic Drug Use by Second Cycle Students of the Upper-West Region of Ghana.

Senah, K.A.
Publications
Article

et al, 1997: From Abandoned Warehouse to Life-Saving Facility (Pakro, Ghana). International Journal of Gynaecology and Obstetrics 59 Suppl. 1: 20-27.

Book Chapters

- 1997: Traditional and Modern health care Practices in Southern Volta Region: F.K. Agbodeka (ed), Handbook on Eweland. Vol. 1, Accra: Woeli Publishing Services. Pp. 240-249.
- 1997: Infant and Child Mortality: the Socio-Cultural Dimension of the Problem in Ghana. In: E. Kalipeni and P. Thiuri (eds), Issues and

- Book**
- Perspectives in Health Care in Contemporary Sub-Saharan Africa Lewiston, N.Y.: The Edwin Mellen Press Pp. 50-70.
- 1997: Money Be Man: The Popularity of Medicines in a Rural Ghanaian Community. Amsterdam: Het Spinhuis Publishers.
- Workshop Attended**
- 17th - 23rd November.: Uganda - Workshop on Training and Finalization of Research Instrument for Community -Directed Treatment with Ivermectin.
- Ohene-Konadu, K
Publications
Book Chapters
- 1997: Regional and Rural Inequities in the Provision of Health Care in Ghana, in Kaliperi E. and Thiuri P. (eds) Issues and Perspectives on Health Care in Contemporary Sub-Saharan Africa. Lewiston - Queenston Lampeter The Edwin Mellen Press. Pp. 332 - 343.
- Seminars**
- 1997: "Some Non-Economic Indicators of Development: Education, health Care, and the Environment. Presented at a Seminar organised by the Council on International Educational Exchange. University of Ghana, Legon.
- Fayorsey, C.K.
Publications
Books
- Nabila J.S. and Clara Fayorsey, 1996, "Adolescent Fertility and Reproductive Health in Ghana", FADEP Technical Series Number 7, Sponsored by United Nations Population Fund and Family. Printed by Assemblies of God Literature Centre Ltd, Accra Ghana.
- Nabila J.S., Fayorsey, C. and Pappoe, M.
- (1996) - Youth and Reproductive Health in Africa Assessment of Adolescent Reproductive Health Needs in Ghana. An UNFPA/CEDPA/JHU-PC project. Published by Media Designs.

Articles

1996 'Basic concepts in gender Analysis' Paper commissioned for the Curriculum Research and Development Division (CRDD) of the Ghana Education Service (GES), Republic of Ghana. Source material for Secondary Schools and Teacher Training Colleges.

Nabila, J.S. and
Fayorsey, Clara

"Adolescent Fertility and Reproductive Behaviour in Ghana". Published in book The Changing Family in Ghana ed. By Elizabeth Ardayfio-Schandorf, Ghana Universities Press, Accra.

Details of Research Or Major Projects Undertaken

(1996) Operational Market Researches for Unilever Ghana on:

a) Skin Health Evaluation: Research on Medicated Soaps

b) Royco Ginger Cube

(May, 1997) Assessment of the Ghana Registered Midwives (GRMA) Trained Service Providers in Adolescent

Reproductive Health Services. Country Needs Assessment Undertaken for the International Training in Health (INTRAH) Lome-Togo.

(March, 1997) Women in Development in Ghana. Ghana Country Profile. Report commissioned by the Japan International Cooperation Agency (JICA)

(January, 1997) Adolescent Reproductive Health Issues, Problems and Interventions Programmes in Ghana. Country Position Paper prepared for the African Youth Forum held in Addis-Ababa, Ethiopia.

Conferences, Special Seminars and Workshops at which papers were read:

(May, 1997) "The Social Rights of the Child". Paper presented at the First Anniversary of the Ghana Child Welfare Association held at GHACEM Club House Tema.

(April, 1997) "Empowering Women in Ghana". UNDP/31st December Women's Movement Workshop on Women Entrepreneurship

Development in Ghana, held at the Golden Tulip Hotel, Accra, Ghana.

(June, 1997) UNFPA Regional Population IEC Training Programme for Anglophone Africa. Interpersonal Communication and Counselling Skills for Trainers of Health Workers. Acted as Facilitator for the Session on Gender and Population.

(June, 1996) Policy paper on Adolescent Fertility and Reproductive Health in Ghana.

Joint project with Prof. John Nabila for the Seminar on Family Policy organized by The Family and Development Programme (FADEP) University of Ghana and The National Population Council (NPC), funded by the United Nations Population Fund (UNFPA). Reference: Prof. Elizabeth Ardayfo-Schandorf, Coordinator, Family and Development Programme (FADEP), University of Ghana, Legon.

Agawu, C.
Workshop

(1997) Distance Education Workshop, From June 1 to June 14th.

Task

Learning the Format for Writing Courses.

Institute of Adult Education

Overview

The Institute of Adult Education offers university-based adult education for Ghanaian citizens in both the non-formal and formal modes with the objective of assisting every adult to become literate and educated and capable of making informed decisions. The Institute also aims at becoming a major centre of excellence in Ghana, and West Africa, for research, extension and teaching. The Institute comprises three academic units, ten regional centres, two district offices and one residential college engaged in adult education activities co-ordinated by the Directorate. The extensive nature of the Institute's non-formal activities makes it the main extension wing of the University of Ghana.

Staffing Position

The Institute had on roll 18 academic Senior Members, categorised as Resident Tutors, and three administrative/professional Senior Members during the year under review.

Formal Programmes

The Institute runs formal courses leading to MA/M.Phil, Diploma and Certificate in Adult Education. The Certificate course, run at the Awudome Residential Adult College (ARAC), successfully graduated its fourth batch of students in the academic year ending 1997. The student numbers for the various courses were as follows: MA/M.Phil 9, Dip.I 19, Dip.II 20 and Certificate 12.

Apart from courses certificated by the University, the Regional Centres of the Institute continued to organise various GCE courses at both "ordinary" and "advanced" levels. Student numbers at the Workers' Colleges saw a marked decline in view of the phasing out of the GCE mode of courses. Experimental SSS courses have however been initiated.

Non-Formal Programmes

In most non-formal programmes, the objectives have been to bring the people of target communities to identify problems and needs; to mobilise available resources and devise plans for learning and social action; and to strengthen existing organisations, while creating new ones to facilitate the task of solving community problems identified and studied.

With these objectives, the various regional centres, in the past year, consolidated ongoing programmes and initiated new ones. The most significant

of these programmes, have been with pottery workers in Volta, Central and Upper West Regions with support from IIZ/DVV, Germany; women in oil palm and soap industry and fishfolk in Central Region, bee-keeping industry in Volta, Upper West and Brong Ahafo Regions; literacy in almost all the regions but properly related to ongoing projects; and environmental management programmes in Northern Ghana.

Mass Media Support for Adult Population Education Project

The three-year Mass Media Support for Adult Population Project was concluded in 1996. Its objective was to produce appropriate messages for the education of adults on population issues. The Project Unit undertook a number of training programmes for message development and dissemination informed by a baseline study undertaken in all the pilot areas. Following various Tripartite Meetings' commendation of the project, a new three-year project to strengthen the gains of the initial project has been approved.

Environmental Management and Literacy Project

The Environmental Management and Literacy Project funded by CIDA with Lakehead University and Confederation College, both of Canada, and the Institute of Renewable Natural Resources, UST as collaborators was concluded last year. The project was specifically designed to assist the local communities in combating the problems of severe environmental degradation in the Upper East, Upper West and Northern Regions.

In this execution, the Institute in collaboration with the Confederation College produced two sets of primers, a facilitators' guide and instructional manuals for use by functional literacy classes. The Project afforded staff to benefit from various literacy and project management training in Canada. Despite the ending of the project, the Institute has put in place resources for the continued management of the environmental programmes.

A new project proposal involving the collaborators, submitted to CIDA, has been approved and is soon to begin.

Community Newspapers

The community-based programmes in some of the centres continue to receive community newspaper support. Prominent among these are the "Daworo" for Upper West Region, the "Labare" and "Gurune" both of Upper East Region, and "Kpodoga" of the Volta Region.

Annual New Year and Easter Schools

The 48th Annual New Year School was successfully held at the South Campus, University College of Education of Winneba. The theme was "Education in Ghana: Challenges and Prospects". There were nine Open Activities, namely:

Problems and Challenges of Contemporary Ghanaian Education.
 The Dilemma of Tertiary Educational Expansion and Financing.
 Basic Education and the SSS System in the World of Work and Further Education.
 Distance Education as a Strategy for Tertiary Education in Ghana.
 The Role of the Private Sector in Educational Provision.
 Challenges of Free Compulsory Universal Basic Education (FCUBE).
 Promoting Civic Education for Stable Democracy in Ghana.
 Equity and Relevance of Women's Education in Ghana.
 Should Government Fund Non-Formal Education at the Expense of Formal Education? and nine seminars under the following topics:
 Problems and Challenges of Basic and Senior Secondary School Education.
 Educational Reforms and Teacher Education.
 Funding of Education in Ghana.
 Non-formal and Literacy Education.
 Distance Education and Self-directed Learning.
 Vocational, Technical and Special Education
 Private Sector Participation in Educational Provision.
 Civic and Moral Education in Ghana.
 Education of the Girl Child in Ghana.

The School was opened by the Vice-Chancellor, Prof. Ivan Addae-Mensah with Prof. S.K. Adjepong, Vice-Chancellor of University of Cape Coast, giving the keynote address. The 1997 Northern Easter School was postponed indefinitely.

Research/Publications

Dzakpasu, C.C.K.

"Debt-bondage in Dzodze Area: A Historical Essay". Research Review, Institute of African Studies, University of Ghana, Legon (forthcoming).
 Socio-Economic Development and the Ghanaian, *The Pioneer*, November 20, 1995.
 Financing University Education in Ghana, *The Pioneer*, June 11, 1996.
 Combating Poverty in Ghana, *The Pioneer*, September 16, 1997.
 Development From Below: Perspectives on Ghana, *The Pioneer*, October 9, 1997.

Siabi-Mensah, K.

"Adult Education Local Capacity Development and Decentralisation". January 1997. (Institute of Adult Education, University of Ghana).
 "Patterns of Public/Private Sector Collaboration in the promotion of Non-formal Education and Training: Ghana.

- Senegal and Burkina Faso. 1997 (Centre for Policy Studies in Education, Florida State University, Tallahassee) (with others).
- Adjei, F.G. "An Educational Intervention for Informal Sector Operators". June 1997. (Greenhill Journal of Administration.
- Flagbey, E.D.K. "An Evaluation of the programme of training for Water and Sanitation Management Committee Development". May 1997. (VRWSSP CWSD/DANIDA Ho, V.R.)
 "Improving District Management Committees of Water Supply and Sanitation in the Volta Region". July 1996 (VRWSSP CWSD/DANIDA, Ho, V.R.)
 "Literacy and Family Planning Education in Rural Ghana". (Philadelphia U.S.A.)
 "Community Management Handbook for Small towns and communities with common water source and facilities". September 1997. (VRWSSP CWSD/ DANIDA, Ho, V.R.)
 "Community Management of Water and Sanitation Training Manual for WATSAN Boards".
- Badu-Nyarko, S. "Volunteers in Adult Education: Lessons for Ghana". 1997. (Bonn, Germany).
- Greenstreet, Miranda "Sustainability for Future Generations The Relevance of Intergenerational"
 "Transfer of Knowledge for Health and Population Programmes: Case Studies in five regions of Ghana"
 "IAE Monograph", University of Ghana, Funded by Swiss National Science Foundation.
 "Cross-generational knowledge transfer on reproductive health among women in Ghana".
- Adoo-Adeku, Kate "Perceptions on the Education of the Girl-Child: A Case Study in Ghana" (Unpublished).
 "Continuing Education among Muslim Women: The Ghanaian Experience" (Unpublished)

Conferences/Seminars

48th Annual New Year School, 1997, Theme: "Education in Ghana: Challenges and Prospects". Southern Campus, University College of Education of Winneba, organised by the Institute of Adult Education.

Gender Issues and Democracy in Africa. A thematic workshop on Democracy organised by the Africa Development Education Network attended by **Prof. Miranda Greenstreet**.

SID Workshop/Seminar May 1997. Theme: "Empowerment of the Ghanaian Women through Education and Reproductive Health" attended by **Prof. Miranda Greenstreet**, Santiago de Compostella.

Workshop on "Female Authority Patterns and their effect on the Environment and the Reproductive health of Young women in Ghana" attended by **Prof. Miranda Greenstreet**, Conticti. July 1997.

Seminar on "Decent Election Campaign as an Essential Tool for Democracy" organised by the National Commission for Civic Education, Kumasi attended by **C.C.K. Dzakpasu**.

World Literacy Conference, March 1996. Theme: "Literacy and Fertility Reduction in Education in Rural Ghana" attended by **E.D.K. Flagbey**, Philadelphia, U.S.A.

8th International Training Networks Africa Conference , November 1996. Theme: "District Level Management of Water and Sanitation in Ghana: Lessons from the VRWSS Project" attended by **E.D.K. Flagbey**, Accra.

Decentralisation of Water and Sanitation Management in the Volta Region: Roles and Responsibilities of District Assemblies, July 1997 attended by **E.D.K. Flagbey**

9th International Training Networks Africa Conference, December 1997. Theme: "Private Sector partnership for Sustainability - Water and Sanitation Management Training Delivery", attended by **E.D.K. Flagbey**, Pretoria, South Africa.

7th Pan-African Anthropological Association Conference, September 1997. Theme: "Gender and Economic Empowerment: The Case of Women in the Informal Sector of Ghana" attended by **Kate Adoo-Adeku**, University of Ghana, Legon.

22nd SID World Conference, May 1997. Theme: "A Pathological approach to the education of young women on Reproductive Health in Ghana" attended by **Kate Adoo-Adeku**, Santiago, Spain.

World Teachers' Day Celebration: GNAT, October 1996.

Paper Read: "The role of the Teacher in the Contemporary Ghanaian Society" attended by **K. Kusi-Nkrumah**, Tamale.

Workshop on Expansion of Project Proposal: Ghana-Canada

in concert Initiatives for Conservation in Northern Communities, January 1997. Papers Read: "Notes towards a questionnaire for data and communities and households in the project development area"; "Background information on the northern sector of Ghana" attended by **K. Kusi-Nkrumah**, Lakehead University, Thunder Bay, Canada. GNAT Biennial Conference, July 1997. Theme: "Distance Education: its prospects for National Development" attended by **K. Kusi-Nkrumah**.

Seminar on: "The Struggle for Recognition: Qualitative Research in Adult Education", November 1997 presented by **Samuel Badu-Nyarko**, Institute of Adult Education.

Seminar on: "Faculty Attitudes toward Participation in University-based Distance Education in Ghana", November 1997 presented by **Samuel Badu-Nyarko**, Institute of Adult Education.

Educational Research Network for West and Central Africa (ERNWACA): December 1997 attended by **Samuel Badu-Nyarko**, Accra.

Workshop on Distance Education Learner Support Systems, CREF November 1997 attended by **Samuel Badu-Nyarko**, Accra.

National Forum on Street Children, September 1997. Theme: "The Nature and Size of Child-Streetism in Sunyani, Ghana" attended by **Dr. D. Oduro-Mensah**.

Training Workshop for Sogakope District Management Committee. Papers Read: "Barriers to effective communication", October 1996 presented by **F.G. Adjei**, ARAC, Tsito.

Training Workshop for Ketu District Water & Sanitation Management Committee. Papers Read: "Principles of Communication", November 1996 presented by **F.G. Adjei**.

Training of trainers workshop organised by DANIDA, Ho, October 1996 attended by **F.F. Adjei**.

Institutional Capacity Building Training Workshop, Ho, March 1997, attended by **F.G. Adjei**.

All Africa Public Relations Conference, and IPRA Professional Development Conference, November 1997, Harare, Zimbabwe attended by **P.B. Yarquah**, Harare, Zimbabwe.

Collaboration

The Institute maintained its links with other organisations which are committed to adult and continuing education. These include the Ghana National Council of Adult Education (GNCAE), Non-Formal Education Division (NFED) of the Ministry of Education, Planned Parenthood Association of Ghana, Department of Community Development, Ghana National Association of Teachers, Trades Union Congress etc. External collaborators include the

African Association for Literacy and Adult Education, the West African Distance Education Association (WADEA), Commonwealth of Learning (COL), Lakehead University, Canada, Confederation College, Canada, Canadian Organisation for Development Through Education (CODE) etc. Special mention is made of the German Adult Education Association (IIZ/DVV) which offered and continues to offer technical assistance to the Institute.

Institute of African Studies

Introduction

The Institute of African Studies has continued to pursue a wide range of activities in line with the vision that inspired its establishment 35 years ago. Its image continues to grow as one of the leading centres for the humanistic and scientific study of African societies and cultures. The Institute has continued to pursue research into the intellectual heritage of Africa, covering African social and political systems, history, oral and written literature, religion and philosophy, music, dance and drama.

In response to contemporary concerns, the Institute has introduced a new syllabus for the teaching of Culture, Gender and Development aiming to emphasise a distinct African approach to the issues of gender and development.

Fellows have participated in many workshops and conferences around Africa on issues of culture, health, the environment, gender and development. The collection of oral histories of stools and traditional states has been revived.

Staffing

At the beginning of the 1996/97 academic year, the total workforce of the Institute was 74, made up of 21 Senior Members, 19 Senior Staff including those on study leave, and 34 Junior Staff. An Archivist was recruited in August 1997 to fill the vacant post at Kumasi Records Office.

Ghana Dance Ensemble

At the beginning of the last academic year (1996/97) the staff of the Ghana Dance Ensemble included one Senior Member (Artistic Director) five Senior Staff, and 27 Junior Staff. The Junior Staff included 20 dancers and 7 drummers. The Artistic Director embarked on a two-year sabbatical leave at the beginning of October 1997.

Student Statistics

Under-graduate Courses

The Institute continues to be solely responsible for the organisation, teaching and examination of the level 200 African Studies Courses.

The level 200 courses are classified into two groups. Group A courses consist only of lectures whilst group B courses include practical work. Group A courses are taught only in the first semester, whilst the B courses are a year-long.

The A Courses are:

- A.1 Appropriate Technology for rural Development in Africa
- A.2 The Social Framework of Economic Development
- A.3 Africa in the Modern World
- A.4 Culture and Development in Africa
- A.5 Our African Heritage Through Literature
- A.6 African Popular Culture, Traditional Festivals and Funera^l Ceremonies

The B Courses are:

- B.1 Language Proficiency
- B.2 African Music
- B.3 African Dance
- B.4 African Drama

About 2,700 students registered in these level 200 courses for the 1997/98 academic year.

Shortage of lecturers to teach the FUE courses continues to be a major obstacle to the smooth running of the level 200 courses. This year, for example, the Institute could not teach A.4 (Culture and Development in Africa) because the regular lecturer from the Institute went on sabbatical leave and we could not get a replacement. The result was that one course i.e. A.1 (Appropriate Technology for rural Development in Africa) alone had to register over 1,000 students.

Graduate Students

The statistics on admissions for both Ph.D, M.Phil and M.A. degrees for the past 5 years are as shown below:

Year	Ph.D	M.Phil	MA
1997/98	3	15	3
1996/97	4	14	
1995/96	6	10	
1994/95	2		
1993/94	1	11	
1992/93		8	
1991/92		5	1

Affiliate Students

The Institute received 20 affiliate students and scholars during the period. Eight of them were Ph.D students who were in the country to conduct research for their Ph.D dissertations. Another 6 were attached to the Institute to take courses in different departments in the University. The rest had obtained various grants to do independent studies in the country and had used the Institute only as a base.

The country distribution of the students is as follows:

U.S.A.	10
United Kingdom	2
Germany	2
Netherlands	2
Italy	1
Norway	1
Japan	1
Australia	1
	—
	20
	==

Research and Publications

In addition to individual researches, the Institute has been involved in three major research projects. These are the **Asafo History** programme, the **Stool Histories** of Ashanti and the **Street Family** project.

Conferences and Workshops

The Institute of African Studies held four (4) Workshop/Conferences/Seminars namely: PREMA Workshop; PAAA Conference; Conference on Dependency Mentality; Conference on Mythology: A Meeting of Cultures. The latter two were hosted with the Goethe Institute, Accra.

PREMA Workshop

In February, the Institute of African Studies, Legon, hosted an International Workshop organised by PREMA (**P**reservation in **M**useums of **A**frica). PREMA is a subsidiary of the **International Centre for the Preservation of Museum Materials**, (ICCROM) based in Rome. The Workshop was a sequel to a ten-month (non-degree) course hosted by PREMA at the Institute in 1995 (March - December) to train museum personnel from Tropical Africa in museum conservation and preservation methods. The ten-month training was part of ICCROM's plans to transfer PREMA headquarters from Rome to Africa by the Year 2000.

PAAA Conference

At the sixth Pan-African Anthropological Association Conference held in Cape Town, South Africa in 1995, which was attended by Ghana PAAA chapter representatives in the persons of Dr. Albert Awedoba, a Research Fellow of the Institute, and Prof. Nukunya of the Department of Sociology, it was decided that the seventh PAAA Annual Conference should be held in Ghana. The Institute and PAAA/Ghana were given the responsibility to host the Conference.

The 7th Annual Conference was held at Legon from the 8th to 12th September, 1997 under the theme: **Africa on the threshold of the Third millennium: Anthropological Perspectives.**

Conference on Dependency Mentality

This conference was jointly organised by the Institute of African Studies and the Goethe Institute, Ghana, between September 29 and October 2, 1997. The aim of the conference was to examine and find solutions to a cultural syndrome evident among former colonial peoples and now manifest among East Germans in the unified Germany.

A communique issued at the end of the conference drew attention to the following:

- the need for Ghana to have a vision, and to order our national priorities according to clearly defined and articulated objectives

- the importance of using our culture and history as a resource for defining our philosophy and goal of development.

- the necessity of cultivating a culture of free enterprise and training all citizens on the values of personal initiative, drive and creativity

- the need to create an education system that promotes respect for our cultural heritage and the value of self-reliance

- the need to create a just society in which every Ghanaian will feel proud to be a part of the creative enterprise of nation-building.

Conference on Mythology: A Meeting of Cultures

Another Conference jointly organised by the Institute of African Studies and the Goethe Institute took place from 21st - 25th October, 1997. Goethe provided much of the funds needed for the conference. The Institute planned the programme of the Conference and supported it with staff and the necessary logistics. The Institute also supplemented the cost of accommodation for the African participants. The conference discussed myths as a global phenomenon of both historical and contemporary relevance and interest. Participants were drawn from Iceland, Germany, Nigeria and Ghana. Besides

the academic discourses, a group of Icelandic Artistes and the Ghana National Dance Company put up dramatic performances to demonstrate the various ways myths manifest themselves in popular music and dance.

Extramural Activities

In addition to the affiliate students, the Institute receives each year groups of foreign students who participate in our 2-5 week programmes usually consist of lectures, seminars, dance-workshops by the Dance Ensemble, and field-visits. Since January 1997, the Institute has hosted the following groups of students and scholars.

SUNY Brockport

The State University of New York, College at Brockport brought 14 students and one Professor for a two-week programme in January this year. The students had enrolled in an African and Afro-American studies programme part of which required a minimum of two weeks residence and study in an African country. The students arrived in Ghana on 27th December, 1996 and left Ghana on 19th January, 1997.

The Saint John's University at Minneapolis

St. John's brought 12 students and one Professor for a ten-day programme from 17th - 29th January, 1997. The University was trying to develop a course in African Studies and it used the visit to Ghana as a pilot study. The students had lectures organised for them and did field work which took them to Cape Coast, Kumasi, Tema and Akosombo.

Fulbright-Hays Scholars

A group of educationists from Kansas State University at Lawrence and teachers from the Kansas State led by the famous novelist and academic, Arthur Drayton, came to Ghana, from 11th June to 18th July, 1997. Their objective was to improve their knowledge of the history, geography and culture of Africa through organised lectures, field trips, cultural studies, personal contacts, and visits to schools. The experience was to enable the participants to enhance their teaching with first hand experience and information about Africa and its people.

Students for International Training (SIT)

The SIT programme is a Summer abroad programme for students who enrol in the SIT programme based at Vermont, USA. The Vermont SIT is a college in itself. But it also has a Summer International School which enrolls students from different universities in the USA to do a Semester-abroad work with the SIT International programme. There are two SIT International programmes in Ghana; one based at the University of Cape Coast and the

other at the Institute of African Studies, Legon. The SIT based at the Institute brings American students to the University of Ghana each semester. During the second semester of the 1996/97 academic year, the SIT brought 18 students to the Institute. This semester (September - December, 1997) the programme has brought 20 students and two supervisors. The visiting supervisors are assisted by a local coordinator from the Institute who plans their field visits, lecture time-table, and identifies lecturers for the scheduled lectures.

In addition to the campus orientation in social and academic programmes in and around Accra, the SIT students travel to other parts of the country for 4-8 weeks to gain field experience and collect data for their research projects which must be completed and assessed by their local supervisors by the end of the semester.

External Linkages

Over the years, the Institute of African Studies has developed a number of external linkages with outside organisations and institutions. The most active ones are the linkages with SUNY Brockport, USA, the British Council (DAWS Agreement), Cuba (the Ghana-Cuba Cooperation Agreement), and the Ghana Institute of Linguistics, Literacy and Bible Translation (GILLBT).

Sectional Report

Societies and Cultures Section

Professor George P. Hagan

Teaching: AFST 613 African Social Systems
AFST 614 African Political Systems

Conference Papers

- (a) "Traditional Values and the Ethics of Good Governance" paper delivered at the National Workshop on Governance in Ghana, Accra, Ghana, 16th - 18th June, 1997.
- (b) "The Missing Role of Women - Revisiting Christine Oppong's Theory for Gender Balance" paper delivered at the 7th Pan- African Anthropological Association (PAAA/APA) Annual Conference, University of Ghana, Legon, 8th - 12th September, 1997.
- (c) "Dependency and Family Ideology" paper delivered at a Workshop organised by the IAS and Goethe Institute.
- (d) 3rd UNESCO NAB Regional Conference on Biosphere Reserves for Biodiversity Conservation for Sustainable Development in Anglophone Africa (BRAAF) Cape Coast 9th - 12th March, 1997.

Nana Dr. Abayie Boateng

Teaching: AFST 200 "Appropriate Technology for Rural Development"

Conference/Seminar Papers

"The problem of Female School Drop-out: The role of Traditional Authorities - Ghana's Example".

"The Position of the Chief in Modern Political System" The Konrad-Adenauer Stiftung sponsored conference in Nairobi, Kenya on the theme: Traditional and Contemporary Forms of Local participation and Self-Government in Africa, 9th - 12th October, 1996.

"Colonialism and forms of Traditional Local Rule in Ghana" The UNESCO-NAB conference on Biosphere Reserves for Biodiversity Conservation for Sustainable Development in Anglophone Africa (BRAAF) Cape Coast 9th - 12th March, 1997.

Konrad-Adenauer Stiftung and National House of Chiefs sponsored seminar at Tamale 17th - 18th March, 1997 on the theme: The Role of the Chieftaincy Institutions in the Emerging Democracy in Ghana. "The Position of the Chief in the Modern Political System".

Other Activities

Travelled to India as a Guest Artiste, playing the role of King of Africa in a Drama, The Chief's Court in Africa as a place of Moral School with the Ghana Dance Ensemble, 14th November - 1st December, 1996.

Owusu Brempong Teaching

"African Popular Culture: Festivals and Funerals" Course A6 (FUE)

M.Phil. Course "African Social and Political Systems".

M.Phil. "Research Methodology".

Research

Festivals of Ghana, Folklore and Socio-linguistics, Folklore and Anthropology, Oral Histories of Traditional Deities-Tano, Folktales of Ghana.

Conferences

GILLBT Seminar, Tamale March, 1997. Paper presented "The Concept of God in Highlife Songs".

Publications

Oral Tradition in Ghana: The History of Bonokyempim and Techiman Politics. Research Review Supplement No. 13, Institute of African Studies, University of Ghana, Legon.

"Religious Background of Ghanaian Society: A General Survey". **Research Review** Vol. 13, No. 1 and 2, Institute of African Studies, University of Ghana, Legon, 1997. "The Concept of God in Highlife Songs". GILLBT Tamale, forthcoming. African Religions and Philosophy Section.

Sackey, Brigid

Teaching:

M.Phil - Religions of Africa Part I & II

Publications

"Don't think of me as a woman because he that is in me is a man". The story of Osofo Mary Owusu of the Great I Am that I Am Church. In Living Faith. **Festschrift fuer Hans-Juergen Greschat. Frankfurt: Peter Lang, 1997.**

Research

- Completed Ph.D. dissertation on "Women, Spiritual Churches, and Politics in Ghana" at the Department of Anthropology, Temple University, Philadelphia, USA, 1996. Participated in the writing of an IAS proposal on Street Children/Families a poverty alleviation project under consideration by the European Commission, April, 1997. The Vanishing Sexual Organ Phenomenon and Ghanaian Religious Beliefs.

Public Lecture

"Preparing to do Business in Ghana". Public lecture; invited by GloChem International in preparation towards the First Global Women Entrepreneurs Trade Fair and Investment Forum in Africa, Temple University, Philadelphia, USA, 23rd May, 1996.

Akrong, A.A.

Teaching:

M.Phil - Religions of Africa Part I and II.

Conferences and Seminars

Attended a seminar on "Music and Healing in Africa and the Diaspora", Legon, September 3rd - 5th, 1997.

Attended the Annual 1997 PAAA/APA conference at Legon, September, 8th - 10th, 1997.

Participated in seminar on Dependency Mentality and Development, Legon, September 30th - October 3rd, as Chief Rapporteur.

Music Section

Asiama, S.D.

Teaching:

AFST 270 African Music (F.U.E. Course B.2)
AFST 617/618 M.Phil Course in Music in African Cultures.

Research

African Instrumental Symbolism
Cosmological ideas and Social Values
Reflected in Akan Song Texts.

Amu, Misonu

Teaching:

F.U.E. Course B.2 (African Music AFST 270)

Research

Ghanaian Women in Music - Maame Afua Abasa

A Glossary of Ewe Musical Terms in Preparation

Conference

Attended a 4-week conference at the University of Birmingham from 6th - 31st October, 1997 in connection with a link programme for the exchange of staff between the Institute of African Studies and the University of Birmingham.

Language, Literature and Drama Section

Sutherland-Addy, Est

Teaching:

Taught Level 200: "Our Heritage Through African Literature".

Research

Profiles of Women Leaders in African Education

Completed study on Linking Higher Education to Basic Education (Ghana Country Paper) Commissioned by the Commonwealth Secretariat.

The Expressive Culture of Asafo

Women's Literature in the Oguaa-Edina Traditional Area.

The Expressive Culture of Asafo

Women's Literature in the Oguaa-Edina Traditional Area.

Conferences/Seminars

Fifth International Conference on Adult Education UNESCO, Hamburg, Germany, July 1997: rteur General.

The Child and the Media, Ghana National Commission Workshop on Children's Perspective, Accra, June 1997. Role: Chairperson.

Special Committees, etc.

Member, Special Working Group for Writing of Government White Paper on National Council for Higher Education for South Africa. Planning Committee for the Golden Jubilee Celebrations Main Committee and Academic Sub-Committee

Extramural Activities

Advisor to the Ghana National Petroleum Corporation (GNPC) Mathematics and Science Video Project.

Member, Advisory Panel for the **National Human Development Report**, 1997 UNDP, Accra.

Member, Advisory Board, the African Media Project entitled "Hopes on the Horizon, Presenting the Social History of Africa" Film Africa with Blackside Incorporated.

Member, Board of Directors, Ghana Commercial Bank.
Secretary, Mmofra Foundation (founded by Efua T. Sutherland).

Okai, Atukwei

Teaching

Led Seminars on: African Written Literature
Occasional Lectures to visiting groups affiliated to the Institute.

Research

Several on-going projects include:

- a. Studies of Structure and Symbolism in modern African literature.
- b. The study of literature for African children
- c. Publishing and the development of literature
- d. The writing of children's textbooks
- e. The impact of current socio-political realities on the development of African literature.

Conferences

The Zimbabwe Writers Union (ZIWU) Round Table Talks (Two) for the Zimbabwe Literary Community: "Uniting the Writing Fraternity of Zimbabwe", Harare, Zimbabwe, March, 1997. Role: Guest of Honour.

Inter-governmental Conference of Ministries of Education on Languages Policy in Africa, Harare, Zimbabwe, March, 1997.

Role: Speaker (Closing Statement).

The Zimbabwe Writers Union (ZIWU) Round Table Talks (one) for the Zimbabwe Literary Community: "Uniting the Writing Fraternity of Zimbabwe", Harare, Zimbabwe, January, 1997. Role: Keynote Speaker. Address: "Writers and the Imperatives of Modern African History".

GAW Speaker's Forum, Ghana Association of Writers (GAW). Role: Speaker. Paper presented: "The Technical Things You have always Wanted or Needed to know about the Writing and Publishing Business - But were afraid to ask". PAWA House, January, 1997, Accra.

Pan African Writers Association (PAWA) Fourth International African Writers' Day Celebrations. PAWA International.

Roundtable on the PAWA theme: "African Literature on the Threshold on the 21st

Century", House, Accra, November, 1996.
 Role: Convenor.
 Pan African Writers Association (PAWA)
 Fourth International African Writers' Day
 Celebration. African Writers and Ali
 Mazrui meet with the Theme: "Literature
 and Pan-Africanism", Tema (November,
 1996). Role: Organiser/Panelist.
 Pan African Writers Association (PAWA)
 Fourth International African Writers' Day
 Celebration. First PAWA Annual Lecture,
 by Prof. Ali A. Mazrui: "The African Condition
 since Kwame Nkrumah's Fall: 1966
 1996". PAWA House, Accra, November,
 1996. Role: Organiser.
 The Norwegian Festival of International
 Literature, Molde, Norway, July, 1997. Role:
 Participant.

Field Research

Discussions Meetings with the Writers of
 Benin, on the theme: "The current African
 socio-political situation and its impact o n
 the development of the literary world",
 Cotonou, Benin, July, 1997
 Discussion Meetings with the Writers of Togo
 on the theme: "The Current African Socio-
 political situation and its Impact on the
 Development of the Literary World", Lome,
 Togo, August, 1997.

Publications

- Introduction to "Roses and Prose" - poems by
 Dinah Ameley Ayensu: "The Kintampo
 Waterfalls in the World of Naa Ameley
 Ayensu", Accra p. 2 - 23, March, 1997.
 "Ataa Tawia, Our Father", in the **Burial
 Memorial and Thanksgiving Service
 Brochure** (for Mr. W.T. Okai), p. 8 - 9,
 April, 1997. Accra.
 "Calabash Elegy for Lady Victoria Opoku
 Ware", in the Memorial and Thanksgiving
 Service Brochure, (for Nana Akua Afrayie), p.
 23 - 29, April, 1997, Kumasi.

Special Assignments/Boards/ Committees

International Peoples Tribunal on Human
 Rights and the Environment (Sustainable
 Development in the Context of Globalization),
 United Nations' Commission on Sustainable

Development, New York, USA, July, 1997.
Role: Panel Member.
The Organisation of African Unity (OAU)
Ministerial Conference and Heads of State
Summit, Harare, Zimbabwe, May, 1997. Role:
Observer
Member, the Faculty of Arts Board.
Member, the Academic Board.
Secretary General, Pan African Writers
Association (PAWA)

Development of Women Studies (DAWS) Section

Adomako Ampofo, Akosua

Dissertation

Has been working on her Ph.D. dissertation since February, 1997, titled:
**Gender Inequalities, Power in Unions and Reproductive Decision-making in
Ghana.**

Publications

(1997) "Costs and Rewards - Exchange in
Relationships, Experiences of Some
Ghanaian Women" in EVA Evers Rosander
(Eds.) *Transforming Female Identities*.
Uppsala: Nordiska Afrikanistitutet, 177 -
196.

(1996) "Nice Guys, Condoms, Incisions and
other Forms of STD Protection: AIDS
Preventive Behaviour in Sub-Saharan Africa".
Proceedings of the CODESRIA/Orstom
International Symposium, on Social Science
in AIDS in Africa; Review and Prospects. Vol.
1:331 - 357.

Dodoo, Francis Nii-Amoo and A. Adomako
Ampofo (1997). **Report of the Study on the
Unmet Need of Men and Women in African
Fertility Transition**. Rockefeller Foundation,
p. 70 pp.

Awards and Fellowships

Vanderbilt University 1997 Dissertation Enhancement Grant.

Reviewer

Student Reviewer. *Work and Occupations*, 1996.

Reviewer, *Women's Studies International Forum*, 1997 to date.

Conferences and Seminars

"Awareness, Risk, and AIDS-related Behaviour among Married Men in Kenya". Annual Meetings of the African Studies Association, 23 - 26 November 1996, San Francisco (with F.N. Doodoo, Department of Sociology, Vanderbilt University).
"Women's Capacity to Protect Themselves from AIDS", Codesria/Orstom Social Science and AIDS Conference, 4 - 8 November, 1996.

Extension Activities

Research Consultant, Incredible African Film Project. High-Five Entertainment Group Nashville, TN, April - May, 1997.

History and Politics

Quarcoopome, S.S.

Teaching

M.Phil. (AFST 623) "The Slave Trade and Africa" Colonial Rule in Africa.

Publications

"Ga See Gbe Dzi Gbe": A General Overview of the Impact of Urbanisation on the Ga Manchie of Accra (unpublished)

Research Work

Urbanisation and Traditional Society in Accra
History of Municipal Administration at Accra
Poverty and Survival in Central Accra.

The IAS Library

The Institute of African Studies Library which supports teaching, learning and research activities continues to be heavily patronised by students, lecturers, researchers and foreign students.

It received 284 books, and 50 journals/periodicals as donations from the Scandinavian Institute of African Studies and some individuals.

To check the mutilation of books, a photocopying machine was purchased during the year under review.

There is a need for physical expansion considering the number of readers who visit the library. There is also the need to change the manual system of information search and retrieval to computerised system. This

would make it possible to process and store large quantities of information, handle and retrieve them with great speed and flexibility.

Many patrons especially foreigners already feel comfortable using computers and will welcome the change to automation.

Noguchi Memorial Institute for Medical Research

Research

Bacteriology Unit

Determination of haemagglutination patterns in pathogen bacteria using erythrocytes from various animal species in the presence and absence of mannose.

Microbiology of street food from a high density community in Accra.

Persistent Diarrhoea in Ghana.

Microbiology of chicken from some key farms and retail outlets in Accra.

A comparative study of the effectiveness of mouthwash, toothpaste, and chewing stick as inhibitors of bacterial growth.

Clinical Pathology Unit -

Effects of *Indigofera arrecta* on Tissue Glutathione and Xenobiotic Metabolizing Cytochrome P450 Isozymes in ddY mice.

The Search for Novel Oral Hypoglycemic Agents: I. Pharmacological and Toxicological Investigations on *Anthocleista nobilis*.

Leaded Gasoline and Lead Exposure in Children.

Glutathione-Glyoxalase-I and Malaria Parasites: effect on blood methylglyoxal levels and liver excretory status.

Effect of low levels of methylglyoxal on blood glutathione, hepatobiliary status and the treatment outcome with N-Acetyl-L-Cysteine.

Studies on the effect of extracts of *Marinda Lucida* - a herbal anti-malaria preparation on malaria parasites.

Epidemiology Unit

Pathogenesis and mechanisms involved in severe malaria.

Immunity to merozoite surface antigens of the malaria parasite *Plasmodium falciparum* with particular reference to maternally derived antibodies and strain specific immunity.

Randomized controlled trial of AIK-C measles vaccine in infants at 6 months compared to Schwarz measles vaccine at 9 months in Ghana.

Variation of malaria antigens and attack rates in northern Ghana.

Observational study on infants health status in an urban area.

Immuno-epidemiological study of malaria in Ghana.

Filariasis Intervention Study

Immuno-epidemiological study of malaria in Ghana.

Immunology Unit

Seroepidemiology of malaria in two malaria endemic ecological zones in Ghana: humoral response to *plasmodium falciparum* blood stage antigens.

Non-specific inflammatory markers in severe malaria.

Analysis of surface antigen variation during culture of malaria parasites.

Preparation of *P. falciparum* parasite lysates. Humoral immune responses to selected vaccine candidate antigens in adult and child cohorts in the Kasena-Nakana District of Ghana.

Cytokine producing ability of mononuclear cells in severe malaria.

Plasma cytokine and cytokine receptor levels in severe malaria.

Relationship between peripheral and sequestered parasites in severe and uncomplicated malaria.

Variation in MSP-1 gene expression by malaria parasites in clinical and asymptomatic malaria infection.

Longitudinal study of responses to LSA-1, RAP and CSP in infants

Development and duration of immunity against specific variants of *P. falciparum* and the relationship to clinical and asymptomatic

malaria in children.
 Severe malaria: the role of regulatory cytokines.
 Prevalence and distribution of toxoplasma gondii in pigs and ruminants in Ghana public health implications.
 Immuno-epidemiology of malaria in Ghanaian school children.
 Interaction between malaria and intestinal worm infections in Ghanaian school children (with special emphasis on immunological response patterns).
 Study of the pathogenesis of severe malarial anaemia (with special emphasis on immunological mechanisms).
 The importance of T-cell subsets in acute malaria (with special emphasis on yd T cells and the balance between Th1 and Th2 responses).
 Malaria parasite resistance to chloroquine in patients with cerebral malaria and severe malarial anaemia.
 Clinical severity markers in acute malaria.
 Isolation and characterization of antimalarial and antileishmanial compounds from plants used in Ghanaian traditional medicines.

Laboratory Animals Unit

Establishing the grasscutter as an indigenous laboratory animal.
 Establishing the grasscutter as microlivestock.
 Establishment of grasscutter cell lines.

Nutrition Unit

- Studies on Food and Nutrition Security in the Greater Accra Metropolitan Area.
 National Vitamin A deficiency survey.
 Impact Evaluation Survey of the Freedom from Hunger Credit with Education Programme in Ghana.
 Promoting Urban Food and Nutrition Security for the Vulnerable in the Greater Accra Metropolitan Area.
 Urban Agriculture: Food and Nutritional Status in Greater Accra.
 Bioavailability of carotenoids from leafy vegetables consumed by children in Northern Ghana.

Parasitology Unit

Use of immunochemical methods in pesticide residue analyses.

Evaluation of the potential eradication of onchocerciasis from the island of Bioko, Equatorial Guinea.

Deforestation and onchocerciasis in West Africa.

Entomological investigations for onchocerciasis in South-west Ghana.

Identification of onchocerciasis vectors, *Simulium damnosum* sibling species complex using molecular methods.

Screening of new formulations of *Bacillus thuringiensis*, serotype H14 against *Simulium damnosum* s.l. larvae.

Accuracy of diagnosis of urinary schistosomiasis: Comparison of parasitological and monoclonal antibody-dipstick methods.

Specific diagnosis of urinary schistosomiasis: Evaluation of a monoclonal antibody-based dipstick in a hyperendemic area in Ghana.

Field diagnosis of urinary schistosomiasis using the monoclonal antibody-based dipstick in a *Schistosoma haematobium* (rohlfsi) strain endemic community in Ghana.

A monoclonal antibody-based dipstick assay for assessment of cure of schistosomiasis patients after chemotherapy with praziquantel: Studies in a *Schistosoma haematobium* (globosus strain) endemic community in southern Ghana.

Assessment of cure of urinary schistosomiasis patients after chemotherapy with praziquantel by a monoclonal antibody-based dipstick assay: Studies in a *Schistosoma haematobium* (rohlfsi strain) endemic community in southern Ghana.

Therapeutic evaluation of two different dose regimens of praziquantel in a *S. haematobium* (Globosus strain) endemic community in Southern Ghana.

Control of urinary schistosomiasis in three defined rural areas in southern Ghana.

Transmission of *Wuchereria bancrofti* in some rural communities in the Upper East Region of Ghana.

Virology Unit

- Genetic Characterization of HIV Strain in Ghana.
Evaluation of virological, immunological and clinical status of symptomatic and asymptomatic individuals on glycyrrhizin drug.
Evaluation of Mannose Binding Lectin (MBL) Polymorphism on T4 cells of HIV seropositive and seronegative individuals in Ghana.
Predominance of human immunodeficiency virus type-1 among AIDS and AIDS-related complex patients in Ghana, West Africa.
Randomized controlled trial of the AIK-C measles strain vaccine given at six months of age versus the Schwarz measles strain vaccine given at nine months of age.
Concomitant human immunodeficiency virus infections and other sexually transmitted diseases in pregnant women.
Use of locally isolated human immunodeficiency virus as antigens in the laboratory diagnosis of HIV/AIDS in Ghana.
Clinical Trial of Glycyrrhizin in HIV infected persons in Ghana.

Publications

Toru Rikimaru,
Juliana E. Yartey,
Kiyosu Tanigu,
Margaret Armar-Klemesu,
Francis K. Nkrumah

- Present Trends and Characteristics of Malnutrition in Africa: The Case of Ghana. *Environmental Sciences*, 4, Supplement (1996) S109-S121 MYU Tokyo.

S.K. Dunyo,
M. Appawu,
F.K. Nkrumah,
A. Baffoe-Wilmot,
E.M. Pedersen,
P.E. Simonsen

- Lymphatic filariasis on the Coast of Ghana. *Transactions of the Royal Society of Tropical Medicine and Hygiene* (1996) 90,634-638.

Lars Hvítid,
Jorgen A.L. Kurtzhals,
Daniel Dodoo,
Onike Rodrigues,
Anita Ronn,
J.O. Oliver-Commey,
Francis K. Nkrumah,
Thor G. Theander

- The y/d T-Cell Response to Plasmodium falciparum Malaria in a Population in which Malaria is Endemic. *Infection and Immunity*, Oct. 1996 p.4359-4362.

J.A.L. Kurtzhals,
O. Rodrigues,
M. Addae,
J.O.O. Commey,
F.K. Nkrumah,
L. Hvítid

Reversible suppression of bone marrow response to erythropoietin in Plasmodium falciparum malaria. *British Journal of Haematology*. 1997, 97, 169-174.

K.M. Bosompem,
I. Ayi,
W.K. Anyan,
F.K. Nkrumah,
S. Kojima

Limited Field Evaluation of a Rapid Monoclonal Antibody-Based Dipstick Assay for Urinary Schistosomiasis. *HYBRIDOMA*, Volume 15 Number 6, 1996.

Collins K. Ahorlu,
Samuel K. Donyo,
Edwin A. Afari,
Kwadwo A. Koram,
Francis K. Nkrumah

Malaria-related beliefs and behaviour in southern Ghana: implications for treatment, prevention and control. *Tropical Medicine and International Health*, Volume 2 No.5 pp 488-499 May 1997.

Lars Hvítid,
Jorgen A.L. Kurtzhals,
Bamenla Q. Goka,
Joseph O. Oliver-Commey,
Francis K. Nkrumah,
Thor G. Theander

Rapid Reemergence of T Cells into Peripheral Circulation Following Treatment of Severe and Uncomplicated Plasmodium falciparum Malaria. *Infection and Immunity*, Oct. 1997, p. 4090-4093.

Nyarko, A.K.
Adubofour K.
Ofei, F.
Kpodonu, J.
Owusu, S.K.

Serum lipid and lipoprotein levels in Ghanaians with diabetes mellitus and hypertension. *Journal of the National Medical Association*. 89(3) 191-196, 1997

Nyarko, A.K.,
Tchao, R.,
Henesey, C.M.,
Harvison, P.J.

The effect of Aromatic Fluorine substitution on the Nephrotoxicity and Metabolism of N-(3,5-dichlorophenyl) succinimide in Fischer 344 rats. *Toxicology*, 117 73-83 (1997).

Afari, E.A.,
Kamiya, Y.,
Nkrumah, F.K.,
Dunyo, S.K.,
Akpedonu, P.,
Kamiya, H.,
Fukai, K.

Randomised controlled trial of acellular pertussis, diphtheria and tetanus vaccines in Southern Ghana. *Annals of Tropical Paediatrics* 1996; 16:39-48

Mensah Patience,
Motarjemi, Y.,
Nout, M.JR., *et al*

On behalf of the Joint FAO/WHO Consultative Committee on Assessment of Fermentation as a Household Technology for improving Food Safety. *Bulletin of the World Health Organisation* 1996; 74:553-559.

Hori, H.,
Akpedonu, Patience
Armah, G.E.
Aryeetey, M.E.
Yartey, J.
Kamiya, H.
Sakurai, M.

Enteric pathogens in severe forms of acute gastroenteritis in Ghanaian children. *Acta Paediatrica Japonica* 1996; 38: 672-676.

Mensah, Patience
Gyan, B.
Dodoo, D.
Osei-Kwasi, M.
Ayisi, N.K.
Akanmori, B.D.

Mensah, Patience

Takehisa, J.
Osei-Kwasi, M.
Ayisi, N.K. et al

Takehisa, J.
Osei-Kwasi, M.
Ayisi, N.K. et al

Ayisi, N.K.
Wiredu, E.K.
Sata, T. et al

Hviid, L.
Kurtzhals, J.A.L.
Dodoo, D.
Rodrigues, O.
Ronn, A.
Comney, J.O.O.
Nkrumah, F.K.
Theander, T.G.

Prevalence of *Treponema pallidum* in sera of Human Immunodeficiency Virus (HIV) infected and uninfected Ghanaians. *Ghana Medical Journal* 1996; 31 (In press).

Fermentation - The Key to Food Safety Assurance in Africa? *Food Control* 1997 (In press)
Antimicrobial effect of fermented maize dough on *Campylobacter jejuni* and some gram positive bacteria. *International Journal of Food Sciences and Nutrition* (In press).

Phylogenetic analysis of HIV type 2 in Ghana and intrasubtype recombination in HIV type 2. *AIDS Res Hum Retro* 1997, 13: 621-623.

Phylogenetic analysis of human immunodeficiency virus 1 in Ghana. *Acta Virologica* 1997, 41: 51-54.

T-lymphocytopenia, opportunistic infections, and pathological findings in HIV-1 and HIV-2 infected Ghanaian AIDS patients and their sexual partners. *E Afric Med J* 1997. 74:34-41.

The yd T-cell response to *Plasmodium falciparum* malaria in a population in which malaria is endemic. *Infect Immun* 1996; 64 4359-4362.

Kharazmi, A.
Kurtzhals, J.A.L.
Gaafar, A.
Hey, A.
Theander, T.G.
Kemp, M.

Dichotomy of T-cell response in human leishmaniasis. *Acta Parasitologica Turcica* 1996; suppl. 1: 39-43.

Kurtzhals, J.A.L.
Kjeldsen, K.
Hey, A.S.
Okong'o-Odera, E.A.
Heron, I.

Immunity to tetanus and diphtheria in rural Africa. *Am J Trop Med Hyg* 1997; 56: 576-579.

Kurtzhals, J.A.L.
Rodrigues, O.
Addae, M.
Commey, J.O.O.
Nkrumah, F.K.
Hviid, L.

Reversible suppression of bone marrow response to erythropoietin in *Plasmodium falciparum* malaria. *Br J Haematol* 1997; 97: 169-174.

Jakobsen, P.H.
Kurtzhals, J.A.L.
Rilley, E.M.
Hviid, L.
Theander, T.G.
Morris-Jones, S.
Jensen, J.B.
Bayoumi, R.A.L.
Ridley, R.G.
Greenwood, B.M.

Antibody responses to rhoptry-associated protein-1 (RAP-1) of *Plasmodium falciparum* parasites in humans from areas of different malaria endemicity. *Parasite Immunol* 1997; 19: 487-493.

Hviid, L.
Kurtzhals, J.A.L.
Quarm Goka, B.
Oliver-Commey, J.O.
Nkrumah, F.K.
Theander, T.G.

Rapid re-emergence of T cells into the peripheral circulation following treatment of severe and uncomplicated *Plasmodium falciparum* malaria. *Infect Immun* 1997; 65: 4090-4093.

- Maxwell, Daniel** "Measuring Food Insecurity: The Frequency and Severity of Coping Strategies." *Food Policy*. Vol.21(3), pp. 291-303. (1996)
- "Highest and Best Use? Access to Urban Land for Semi-Subsistence Food Production." *Land Use Policy*. Vol. 13(3), pp.181-195. (1996)
- "Food Security in Urban Areas". In Holger B. Hansen and Michael Twaddle (Editors), *Developing Uganda*. London: James Currey. (In press)
- Maxwell, Daniel
Atukunda, Gertrude "Farming in the City of Kampala. Issues for Urban Management" *African Urban Quarterly*. (In press)
- Maxwell, Daniel
Armar-Klimesu, Margaret
Brakohiapa, Lucy
Sarpei, James "Participatory Concept Mapping to Understand Perceptions of Urban Malnutrition" *PLA Notes*. No.30, October, 1997, pp.11-16.
- Maxwell, Daniel
Wiebe, Keith "Land Tenure and Food Security: A Conceptual, Empirical, and Methodological Review." Land Tenure Center Research Paper, University of Wisconsin. Madison, WI: Land Tenure Center.
- Ruel, Marie
Garrett, James
Engle, Patrice
Haddad, Lawrence
Maxwell, Daniel
Purnima, Menon
Saul, Morris
Arne, Oshaug "Urban Challenges to Nutrition Security: A Review of Food Security, Health and Care in Cities." Washington DC: International Food Policy Research Institute.
- Mafuyai, H.B.
Wilson, M.D.
Post, R.J. Morphological differentiation of the *Simulium damnosum* complex from Nigeria. *Journal of Medical and Veterinary Entomology*, 10, 190-192. (1996)

van der Kooij, J.
Gillham, M.
Post, R.J.
Heijerman, Th.
Wilson, M.D.

Morphometric variation in the mandible of *Microtus arvalis* and *Microtus agrestis* (Rodentia: Cricetidae). *The Netherlands Journal of Zoology*, 47 (1), 47-57. (1997)

McCall, P.J.
Wilson, M.D.
Deuben, B.D.
de Clare Bronsvort, B.M.
Heath, R.R. (1997)

Similarity in oviposition aggregation pheromone composition within the *Simulium damnosum* (Diptera: Simuliidae) species complex. *Bulletin of Entomological Research*, 87, pp 609-616 (1997)

McCall, P.J.
Heath, R.R.
Deuben, B.D.
Wilson, M.D.

Oviposition pheromone in the *Simulium damnosum* complex: biological activity of chemical fractions from gravid ovaries. *Physiological Entomology* (1997) 22, 224-230

Ishikawa, K.
Janssen, W.
Brandful, J.
Heyndrickx,
Takebe, Y.
Ampofo, W.
Sata, T.
Yamazaki, S.
Osei-Kwasi, M.
Yamamoto, N.
Koyanagi, Y.
van der Groen, G.
Kurata, T.

Genetic and Phylogenetic Analysis of HIV Type 1 env Subtypes in Ghana, West Africa. *AIDS Research and Human Retroviruses*: 12: 16, 1575-1578 (1996).

Brandful, J.A.M.
Ampofo, W.K.
Apegyei, F.A.
Asare-Bediako, K.
Osei-Kwasi, M.

Predominance of Human Immunodeficiency Virus Type-1 Among AIDS and AIDS-related Complex Patients in Ghana, West Africa. *East Afr. Med. J.*: 74, 1, 17-20, (1997).

Takehisha, J.
Osei-Kwasi, M.
Ayisi, N.K.
Hishida, O.
Miura, T.
Igarashi, T.
Brandful, J.
Ampofo, W.
Nettey, V.B.A.
Mensah, M.
Ysamashita, M.
Ido, E.
Hayami, M.

Phylogenetic Analysis of Human Immunodeficiency Virus 1 in Ghana. *Acta Virologica*. 41: 51-54 (1997).

Takehisha, J.
Osei-Kwasi, M.
Ayisi, N.K.
Hishida, O.
Miura, T.
Igarashi, T.
Brandful, J.
Ampofo, W.
Nettey, V.B.A.
Mensah, M.
Yamashita, M.
Ido, E.
Hayami, M.

Phylogenetic Analysis of HIV Type 2 in Ghana and Intrasubtype Recombination in HIV Type 2. *AIDS Research and Human Retroviruses* 13, 7, 621-623 (1997).

Brandful, JAM
Ampofo, W.K.
Apeagyei, F.A. et al.

Predominance of Human Immunodeficiency Virus Type 1 among AIDS and AIDS Related Complex Patients in Ghana. *East African Medical Journal* Volume 74, 1: 17-20, (1997).

Ishikawa, K.
Janssens, W.
Brandful, J. et al.

Genetic and Phylogenetic Analysis of HIV Type 1 env Subtypes in Ghana, West Africa. *AIDS Research and Human Retroviruses*, Volume 12, 16: 1575-1578; 1996.

Takehisa, J.
Osei-Kwasi, M.
Ayisi, N.K.
Hishida, O.
Miura, T.
Igarashi, T.
Brandful J. et. al

Phylogenetic Analysis of HIV-1 in Ghana.
Acta Virologica 41: 51-54; 1997.

Takehisa, J.
Osei-Kwasi, M.
Ayisi, N.K.
Hishida, O.
Miura, T.
Igarashi, T.
Brandful, J. et al.

Phylogenetic Analysis of HIV Type 2 in Ghana
and Intrasubtype Recombination in HIV Type
2. *AIDS Research and Human Retroviruses*,
Volume 13, 7: 621-623; 1997.

Dunyo, S.K.
Appawu, M.
Nkrumah, F.K.
Baffoe-Wilmot, A.
Pedersen, E.M.
Simonsen, P.E.

Lymphatic filariasis on the coast of Ghana.
*Transaction of the Royal Society for Tropical
Medicine and Hygiene.* (1996), 90, 634-638.

Bosompem, K.M.
Ayi, I.
Anyan, W.K.
Nkrumah, F.K.
Kojima, S.

A monoclonal antibody-based dipstick assay
for diagnosis of urinary schistosomiasis.
*Transactions of the Royal Society of Tropical
Medicine and Hygiene*, 91, 554-556.

Kayang, B.B.
Bosompem, K.M.
Assoku, R.K.G.
Awumbilla, B.

Antigen detection latex agglutination test as
an alternative diagnostic assay for animal
trypanosomiasis. *International Journal of
Parasitology*, 27, (1), 83-87.

Hori, Hiroki
Akpedonu, Patience
Armah, George
Aryeetey, Mary
Yartey, Juliana
Kamiya, Hitoshi
Sakurai, Minoru

Enteric pathogens in severe forms of acute
gastroenteritis in Ghanaian children (1996)

Binka, F.N.
Kubaje, A.
Adjuik, M.
William, L.A.
Lengeer, C.
Maude, G.H.
Armah, G.E.
Adtamah, J.H.
Smith, P.G.

Impact of permethrin impregnated bednets on child mortality in Kassena-Nankana district, Ghana: a randomized controlled trial (1996) *Tropical Medicine and International Health*, Vol.1 (2), 147-154.

Maxwell Dan
Armar-Klimesu, Margaret
Brakohiapa, Lucy
Annorbah-Sapei, James

Participatory concept mapping to understand perceptions of urban malnutrition. *PLA Notes*, 1997; 30: 11-15.

Rikimaru, T.
Yartey, J.E.
Taniguchi, D.
Armar-Klimesu, M.
Nkrumah, F.K.

Present trends and characteristics of malnutrition in Africa: The Case of Ghana. *Environmental Sciences*, 1997; 4 (supplement): 1-13.

Ahorlu, Collins K.
Dunyo, Samuel K.
Afari, Edwin A.
Koram, Kwakwo A.
Nkrumah, Francis K.

Malaria related beliefs and behaviour in Southern Ghana: Implications for treatment, prevention and control. *Tropical Medicine and International Health*. May, 1997. 2 (5), 488-499.

Dunyo, S.K.
Koram, K.A.
Nkrumah, F.K.

Fever in Africa and WHO recommendation. (1997) *Lancet* 350, 1550.

Wagner, Gillian
Koram, Kwakwo A.
McGuinness, David
Bennett, Steve
Nkrumah, Francis K.
Riley, Eleanor

High incidence of asymptomatic infection in a birth cohort of children under 1 year in Ghana detected by multicopy gene polymerize chain reaction. *American Journal of Tropical Medicine and Hygiene* (In press).

Dunyo, S.K.
Ahorlu, C.K.
Simonsen P.E.

Scarification as a risk factor for rapid progression of filarial elephantiasis. *Transactions of the Royal Society of Tropical Medicine and Hygiene* 91, 446 (1997)

Dunyo, S.K.
Koram, K.A.
Nkrumah, F.K.

Fever in Africa and WHO recommendation. *Lancet* 350, 1550 (1997).

Ahorlu, C.K.
Dunyo, S.K.
Afari, E.A.
Koram, K.A.
Nkrumah, F.K.

Malaria-related beliefs and behaviour in Southern Ghana: Implications for treatment, prevention and control. *Tropical Medicine and International Health* 2, 488-499. (1997)

Akanmori, B.D.
Kawai, S.
Suzuki M.

Recombinant mouse IL-6 upregulates TH1 cell response in *Plasmodium chabaudi* chabaudi infection and accelerates parasite clearance from C57BL/6 mice. *Proceedings of the XIVth International Congress for Tropical Medicine and Malaria*.

Hviid, L.
Kurtzhals, J.A.L.
Quarm Goka B.
Behr, C.
Akanmori, B.D.

Differential re-emergence of aB and yd T cells following treatment of acute *Plasmodium falciparum* malaria. *Immunology letters* 56: 1-3 pp. 423.

Kurtzhals, J.A.L.
Adabayeri, V.
Behr, C.
Akanmori, B.D.
Hviid, L.

Defective interleukin-10 production in severe malaria anaemia. *Immunology letters* 56: 1-3 pp.27.

Hviid, L.
Kurtzhals, J.A.L.
Adabayeri, V.
Akanmori, B.D.
Comney, J.O.
Behr, C.

Analysis of yd T-cell subset kinetics following severe and uncomplicated plasmodium

falciparum malaria in African children. *British Society of Parasitology Meeting 15-17 September 1997.*

Kurtzhals, J.A.L.
Adabayeri, V.
Goka B.G.
Behr, C.
Akanmori, B.D.
Hviid, L.

Cytokines in severe malarial anaemia. *British Society of Parasitology Meeting 15-17 September 1997.*

Akanmori, B.D.

Cytokine levels in the placental and peripheral circulation: role in placental pathology, anaemia and low birth weights in infants at birth *Malaria in Pregnancy Symposium, November 10-13 1997, Kisumu, Kenya.*

Conferences/Seminars/Workshops attended and Papers read during 1996/97 Academic Year

Nkrumah, F.K.

Meeting of the WHO/AFRO Task Force on Immunization, Dakar, Senegal, December 4 - 7, 1996
External Review Committee Meeting of TDR, WHO, Geneva, Switzerland 3-7 March 1997.
18th African Health Sciences Congress: 14-18 April, 1997, Cape Town, South Africa.
WHO Technical Consultation on **Global Eradication of Poliomyelitis: April 28 - May 2**, Geneva, Switzerland.
Technical Meeting for Vaccine **Research and Development**, Scientific Advisory **Committee**, Global Programme on Vaccination; **External Review Committee**, TDR: 8 - 20 **June**, 1997.
Sickle Cell Disease meeting 15-20 September, 1997. National Institute of Health, U.S.A. Paper presented: **Newborn screening for Sickle Cell disease in Africa: Experience from the Ghana screening project.**

Nyarko, A.K.

Pan-African Art of Healing. Held at Novotel, July 7-11, Accra Ghana Paper read: "Rationalizing the Application of Plant Medicines in Disease Management through Scientific Research".

Akpedonu, Pattence

Was a resource person at the Workshop on infant feeding, Surabaya, Indonesia, 14th -

20th January, 1996.

Participated in a one day seminar on Persistent Diarrhoea in Ghana held at NMIMR, 26th June, 1996.

Visited a number of laboratories in Japan in November, 1996.

Takyi, E.E.K.

Research co-ordinating meeting, Beirut, Lebanon, 2-6th September, 1996. Presented a paper entitled "Use of immunochemical method for pesticide residue studies" sponsored by the International Atomic Energy Agency, Vienna, Austria.

17th African Health Science Congress, 5-9th February, 1996, Nairobi, Kenya. Presented a paper entitled "Vitamin A and Zinc nutritional status in Pre-school children in Southern Ghana.

Kurtzhals, J.A.L.

Seminar: Malaria Research in Ghana: Implications for Control, N.M.I.M.R, Legon, 25-26 March, 1997. Oral presentation: **Kurtzhals JAL**, Recent advances in the study of severe malarial anaemia.

13th European Immunology Meeting, Amsterdam, 22-25 June 1997. Oral presentation: **Kurtzhals JAL**, Adabayeri V, Behr C, Nkrumah F.K. & Hviid L. Defective interleukin-10 production in severe malarial anaemia (Published abstract in Immunol Letters 1997; 56: 27) Poster presentation: Hviid L, **Kurtzhals JAL**, Goka BQ, Behr C & Akanmori BD, Differential re-emergence of ab and yd T cells following treatment of acute Plasmodium falciparum malaria. (Published abstract in Immunol Letters 1997; 56: 423-424).

British Society of Parasitology 9th Annual Malaria Meeting, Liverpool., 14-17 September 1997. Poster: **Kurtzhals JAL**, Adabayeri V, Goka BQ, Behr C, Akanmori BD & Hviid L. Plasma levels of interleukin 10 and tumour necrosis factor in severe malarial anaemia. Strategies to improve malaria control at district level in the context of reform in the health sector. 2-day workshop organised by Health Research Unit, MOH, Accra, 8-9 October, 1997.

- 2nd Meeting of the African Malaria Vaccine Testing Network, Accra, 24-26 November 1997. Oral presentation: Kurtzhals JAL. Malaria associated anaemia in Ghana.**
- Maxwell, Daniel** International Conference on Sustainable Urban Food Systems, Ryerson Polytechnic University, Toronto, Canada, May 22-25, 1997. Paper presented "The Political Economy of Urban Food Security in Sub-Saharan Africa".
- Wilson, M D** XIVth International Congress for Tropical Medicine and Malaria, Nagasaki, Japan. Paper presented: Polymerase chain reaction (PCR) versus microscopy in the detection and identification of *Plasmodium* sporozoites in anopheline mosquitoes. Proceedings of the XIVth International Congress for Tropical Medicine and Malaria, Nagasaki, Japan, November 17-22, 1996 page 329. (Abstracts) Paper presented: A multivariate key for the identification and population studies of *Simulium damnosum* species complex in West Africa. Proceedings of the XIVth International Congress for Tropical Medicine and Malaria Nagasaki, Japan, November 17-22, 1996 page 366. (Abstracts)
- Osei-Kwasi, M** Second Consultation on the WHO Polio Laboratory network. (WHO Headquarters, Geneva, Switzerland) October, 1996
The First Meeting of Directors of WHO/AFRO Laboratory Network in Pretoria, Republic of South Africa: August 1997
Third Consultation on the WHO Polio Laboratory Network. (WHO Headquarters, Geneva, Switzerland) September, 1997
- Brandful, J.A.M** 1-day AIDS Seminar, N.M.I.M.R. University of Ghana, Legon, 8th September 1997. Paper presented: "HIV-1 Subtypes currently prevalent in Ghana".
39th Annual Conference of Ghana Medical Association (Kumasi Branch), Kumasi, October 29th to November 2nd 1997
Paper presented: "HIV-1 Subtypes currently

- prevalent in Ghana".
International Conference on STD/AIDS in Africa, Abidjan, Cote d'Ivoire, 7th to 11th December, 1997.
- Appawu, M.A.** International seminar on Malaria Research in Ghana held at the N.M.I.M.R. from 25th to 26th March, 1997.
 Paper presented: Epidemiological Studies of Malaria in Southern Ghana: Entomological Aspects.
- Armah, G.E.** XIVth International Congress for Tropical Medicine and Malaria, Nagasaki, Japan, November, 17-22, 1996.
 Paper presented: Purification and Crystallization of a complex of a major *P. falciparum* circumsporozoite protein and its monoclonal antibody.
- Armar-Klimesu, M** Mid-project review meeting of the WHO multi-country study on Promoting Food and Nutrition Security for the Vulnerable. 12th to 14th November, 1997. WHO Centre for Health Development, Kobe, Japan.
 Paper presented: The Accra Food and Nutrition Security study - A progress report. Workshop on Development of training modules on "Food Habits and Communication: Actions and Strategies". NATURA/NECTAR (Network of European Agricultural Universities and Scientific Complexes related with Agricultural Development/European Community Training Programme for Agricultural Universities in Southern Regions). 24th November to 5th December, 1997. Wageningen Agricultural University, Wageningen, The Netherlands.
- Dunyo, S.K.** Seminar on strategies to improve malaria control at district level in the context of reform in the health sector. Organised by the Ministry of Health, Accra at the Golden Tulip Hotel, 8-9 October, 1997.
 Paper presented: "Validity of home diagnosis of malaria in children in Southern Ghana.

Implications for community-based control".
Workshop on Lymphatic Filariasis Research
and Control in Africa, Tanga, Tanzania, April
14-18, 1997.

1. Paper presented: Scarification as a risk factor for rapid progression of filarial elephantiasis.
2. Bancroftian filariasis intervention trials in coastal Ghana: Study design and lessons from treatment and initial follow-up activities

Institute of Statistical, Social and Economic Research

Overview

The Institute continued to pursue its objective to provide high quality social science research environment accessible to the University, the people of Ghana and Africa in general.

The Research Fellows of the Institute were committed to providing guidance, support and advice to government in the fields of health financing, women in development, micro credit international trade, services, food security and agricultural development and general issues in economic and social development. In pursuit of this objective the staff of the Institute have been involved in collaborative research with the World Bank, the African Economic Research Consortium and other international research organisations.

The Institute in conjunction with the Economic Development Institute of the World Bank has been conducting Policy Analysis Workshops for African policy makers.

As a public service, the Institute continued to publish the State of the Ghanaian Economy Report which presents economic development in the previous year with a prognosis for the future.

Teaching Programmes

The Regular Certificate and Diploma Courses in Statistics attracted a large number of students and those who could not get admission onto the regular programmes due to inadequate resources, enrolled onto the long vacation course. The Master's Programme in Development Studies was approved by the Academic Board and the first batch of students were expected to come into residence at the beginning of the 1997/98 academic year.

Student Numbers

The student numbers for the year were as follows:

Certificate in Statistics	31
Diploma in Statistics	65

Staff

The Institute's two key positions of Director and Deputy Director remained vacant and were filled by Senior Members in acting positions.

There was one promotion to Associate Professorship grade. Staff position for the 1996/1997 was as follows:

1	Associate Professor
6	Senior Research Fellows
8	Research Fellows
1	Junior Research Fellow
1	Administrative Secretary
3	Teaching Assistants
3	Chief Administrative/Research Assistants
2	Principal Administrative/Accounting Assistants
1	Senior Research Assistant
4	Research/Administrative Assistants
13	Junior Staff

Publications

Asenso-Okyere, W.K.

Asenso-Okyere, W.K.;
Asante, F.A. and Nube, M.

"Understanding the health and nutritional status of children in Ghana. *Agricultural Economics*; 17 (1997) 59-74.

Asenso-Okyere, W.K.;
Osei-Akoto, I., Anum A.,
and Adukonu, A.

"Drug delivery and health workers' behaviour"
World Health Forum, 18 (1), 1997

Asenso-Okyere, W.K.
and Asante F.A.,

"Recent Performance of the Non-Traditional Export Sector in Ghana. *Legon Export Outlook* 1 (1), 1997

Asenso-Okyere, W.K.,
Benneth, G. and Tims, W.
(eds.)

"Sustainable Food Security in West Africa.
Kluwer Academic Publishers, 1997

- Asenso-Okyere, W.K.,
Nsowah-Nuamah, N.N.N.
and Albersen, P.
- "Characterising the Poor in Ghana: A Logit approach. In: Asenso-Okyere, W.K., Benneh, G. and Tims, W (eds) Sustainable Food Security in West Africa, Kluwer Academic Publishers, 1997.
- Asenso-Okyere, W.K.,
Asante, F.A. and Nube, M.
- Determinants of health and nutritional status of children in Ghana. In: Asenso-Okyere, Benneh, G. and Tims, W. (eds.) Sustainable Food Security in West Africa, Kluwer Academic Publishers, 1997.
- Asenso-Okyere, W.K.
and Dzator, Janet, A.
- "Household Cost of seeking malaria care: A retrospective study of two districts in Ghana. Social Science and Medicine 45 (5) 1997
- Asenso-Okyere, W.K.,
Dzator, Janet A., and
Osei-Akoto, I.
- "The behaviour towards malaria care A multinomial logit approach, Social Indicators Research, 39 (2), 1997.
- Nube, M., Asenso-Okyere,
W.K. and Boom, G.J.M.
- "Body mass index as indicator of standard of living in developing countries. European Journal of Clinical Nutrition, 51, 1997
- Aryeetey, E. and Udry, C.
- "The Characteristics of Informal Financial Markets in Africa", Journal of African Economies, Supplement to Vol.6, No.1, 1997
- Aryeetey, E. L. Senbet
and Udry, C.
- "Financial Liberalisation and Financial Markets in Sub-Saharan Africa", Journal of African Economies, Supplement to Vol.6, No.1, 1997
- Aryeetey, E.
- Rural Finance in Africa: Institutional Developments and Access for the Poor, Proceedings of the Annual World Bank Conference on Development Economics 1996, Washington D.C. 1997.

Aryeetey, E., H. Hettige,
M. Nissanke and W.F. Steel,

"Financial market Fragmentation and Reforms in four African Countries", World Bank Economic Review, Vol.11, No.2, 1997. Financial Fragmentation and Reforms in Sub-Saharan Africa, World Bank Technical paper No. 356, Africa Region Series, Washington D.C., March 1997.

Aryeetey, E.,

"Savings, Investment and Financial Development with Informal and Semi-formal Financial Markets in Africa", African Development Review, Vol.9, No.1, African Development Bank, Abidjan, June 1997.

Ahadeke, Clement

"Agrarian Structure and Social Organisation in a Risk-Prone Environment: A Comparison of the Birfor Dagara and the Lobi People of Burkina Faso" Population And Environment 17 pp 323-342 (1996).

"Breastfeeding, Sanitation and Diarrhoea as Factors in Child Health: A Study of Large Scale Survey Data from Ghana and Nigeria" Journal of Biosocial Science, 29 pp 501-517 (1997).

Bortei-Doku Aryeetey, Ellen
and E. Aryeetey

(1996) Operation, Utilization and Change in Rotating Susu Savings in Ghana, ISSER Technical Publication No.59, University of Ghana, Legon

Anarfi, J.K.

(1997) "Vulnerability to Sexually Transmitted Disease: Street Children in Accra" Health Transition Review Supplement to Vol.7 pp 281-306

[with Caldwell, J.C. and
Caldwell, Pat]

1997 "Mobility, Migration, Sex, STDs and AIDS" and AIDS: An Essay on Sub-saharan Africa with other parallels" in Herdt, G. (Ed.) Sexual Cultures and Migration in the Era of Aids, Clarendon Press, Oxford, pp 4-54.

Anarfi J.K., Appiah E.
and Awusabo-Asare, K.

(1997) "Livelihood and the Risk of HIV/AIDS Infection in Ghana: The case of female Itinerant Traders". Health Transition Review, Supplement to Vol.7, pp225 - 242.

Awusabo-Asare, K.
and Anarfi J.K.

(1977) "Health Seeking Behaviour of Persons with HIV/AIDS in Ghana." Health Transition Review, supplement to Vol. 7, pp243-256.

(1997) "Postpartum Sexual Abstinence in the Era of AIDS in Ghana" Health Transition Review, supplement to Vol.7, pp 257 - 270.

Tsikata, Dzodzi

(1996) "Gender, Kinship and the Control of Resources in Colonial Southern Ghana" in Palriwala, R. and Risseeuw, C (eds). Shifting Circles of Support: Contextualising Kinship and Gender in South Asia and Sub-Saharan Africa, Sage Publications, New Delhi, Thousand Oaks and London.

(1997) "Gender Equality and the State in Ghana: Some Issues of Policy and Practice" in Imam, A., Mama, A. and Sow, F. (eds). Engendering African Social Sciences in the 1990s, CODESRIA, Dakar.

Conferences/Workshops/Seminars

Anarfi, J.K.

Symposium on Social Sciences and AIDS in Africa - Review and Prospect - Saly Portudal, Senegal in November 4-8, 1996.

Seminar on Systems and Dynamics of West African International Migration, December 1996, Dakar, Senegal.

Workshop on Multi-partnered Sexuality Networking in Eastern and Southern Africa

- Durban, South Africa 7 - 8 February 1997
Symposium on Women and AIDS - Abidjan, Cote d'Ivoire, 19th - 21st May 1997.

Bortei-Doku Aryeetey, Ellen

Round-table Conference on Artisanal Fisheries of West Africa -Cotonou, Republic of Benin, May 12 - 14, 1997.

Conference on Fisheries Policy Research in Developing Countries - Issues, Priorities and Needs at the North Sea Centre Hirtshals, Denmark, June 2 - 5, 1997.

Transfer of Ownership in Participatory Community Development: Working Out the Strategies in Ghana.

Development and Project Planning Centre (DPPC) University of Bradford.

- Aryeetey, E. New Series Discussion Papers, No. 68, 1996.
Senior Policy Seminar of the African Economic Research Consortium in Abidjan, Cote d'Ivoire, November 11 - 17, 1996.
Biennial Research Workshop of the Africa - Asia Collaborative Research Project of the AERC in Nairobi, Kenya, November 28 - December 8, 1996.
Oxford University Centre for the Study of African Economies, April 17 - 18, 1997.
Paper presented: Financial Risks and Market Structure in Sub-saharan Africa.
Workshop by the Foundation on Debt and Development (FONDAD) 10 - 11, July 1997.
Paper presented: Regional Integration; Experience in Africa.
- Botchie, G. International Seminar on Sustainable Rural Development in Sub-Saharan Africa, U.S.T., Kumasi; July 21 - 25, 1992.
Paper presented: Rural Poverty, District Development Plans and Financing in Ghana.

Regional Institute for Population Studies

The Regional Institute for Population Studies (RIPS) was established in Accra in 1972, to provide facilities for demographic training and research for English-speaking Sub-Saharan African countries, following an agreement signed between the United Nations and the Government of the Republic of Ghana in 1971. Since its inception in 1972 the Institute has played a significant role in human capacity development in Africa, especially in the training of population specialists.

The objectives of the Institute are principally as follows:

- i. To provide training courses in population and related fields;
- ii. Organise and undertake research in all aspects of population and related fields both at its headquarters and in the member States served by it;
- iii. Organise in co-operation with appropriate national services and specialised agencies workshops, seminars and meetings on national, sub-regional and regional population problems;
- iv. Provide at the request of the governments of the member States such advisory services as may be within its competence;
- v. Provide documentation in the various fields of population with respect to Africa to research workers and to national, sub-

regional and regional organizations.

Membership of the Institute comprises Eritrea, The Gambia, Ghana, Kenya, Lesotho, Liberia, Malawi, Namibia, Nigeria, Sierra Leone, Somalia, the Republic of South Africa, Sudan, Swaziland, United Republic of Tanzania, Uganda, Zambia and Zimbabwe.

Overview

The training and research activities of the Institute during the period under review may be seen against the backdrop of the ongoing programme of restructuring initiated by the Institute in September 1992, as part of an initial step towards effective regionalisation of the Institute. The objective of the restructuring exercise is to reduce cost of running the Institute to enable the member States who are the direct beneficiaries of the programmes of the Institute to take up ownership of the Institute and responsibility for its management, including contributing financially to its upkeep. The restructuring programme has involved the adoption of new salary scales and conditions of service, revision in the contents of the M.A. in Population Studies programme to make it more responsive to the development needs of the member States, and scaling down of the contribution of the UNFPA to the Institute, with increased management responsibility conferred on the local UNDP Office and the University of Ghana instead of the ECA. It has in addition involved a reorganization of the administrative management structure of the Institute with the merging of the UN and University of Ghana administrative units under the headship of the Administrative Secretary.

Apart from a few major areas of difficulty mentioned in this report, particularly that of funding, the restructuring programme of the Institute is progressing smoothly. Mainly as a result of the non-contribution of member States to the upkeep of the Institute in the face of the reduced levels of contribution from the UNFPA in response to the restructuring exercise, the Institute continued to operate under severe economic hardship throughout the academic year. Apart from contributions received from the Governments of the Republic of South Africa and Lesotho, no other member State of the Institute contributed to the Institute's upkeep during the year in support of the UNFPA and the Government of Ghana. With regard to UNFPA's commitment to the Institute there was reduced financial contribution to the Institute. In addition, the Fund was unable to provide fellowships to the Institute in October 1996, at the start of the academic year. Therefore, the Institute was unable to enrol candidates for the M.A. degree programme in Population Studies at the beginning of the academic year as may have been expected. However, in April 1997 UNFPA provided eight fellowships through its regional programme resources to which the Government of Ghana added three with funds from the UNFPA country-programme resources. With the 11 fellowships made available to the Institute, the Institute was able to resume academic work for the M.A. degree course in May 1997.

In connection with the need for the Institute to respond to the current policy changes in funding of the UNFPA and the demands of the current programme of restructuring, the UNFPA in collaboration with the ECA fielded

a Mission to Accra from 30 June to 3 July, 1997, to discuss the future of the Institute with the Government of Ghana and the University of Ghana. The Mission held a three-day meeting at the Institute with representatives of Government, the University of Ghana and some selected population specialists from 30 June to 2 July 1997.

At the meeting with the joint UNFPA/ECA Mission the representative of the UNFPA explained to the participants that in line with the post ICPD Programme of Action adopted by its Executive Board in 1995, the Fund had adopted new policy initiatives to shift emphasis in funding from the regional demographic training institutions including RIPS, to country-level training institutions, in order to produce the critical masses of population specialists still needed in the Africa region. In this regard the Fund would continue to provide financial assistance to the Institute up to December 1999, when its present regional programme cycle is expected to end. However the UNFPA will encourage member States to support candidates to the Institute with resources from the UNFPA-supported Country Programmes of the respective member States. The ECA representative on the other hand informed the meeting that the ECA Council of Ministers had decided, based on the report of five missions sent to member States/Institutions in February/March 1997, that population studies plays an important role in the socio-economic development of Africa, and that RIPS should remain as a regional institute with its present affiliation to the University of Ghana, to continue to serve the training and research needs of English-speaking member States.

At the end of the meeting a number of observations were made with regard to conditions that need to exist in order that the Institute may continue to function as a regional institute as recommended by the ECA Council of Ministers. These are:

Member States need to pay up their contributions to the Institute. This will go a long way to ensure sustainability of the programmes and activities of the Institute;

Need to provide adequate qualified staff for the Institute, including the appointment of a substantive Director and Deputy Director;

Harmonization of the salaries of the regionalised posts and the University of Ghana posts in order to eliminate the dual salary structure prevailing at the Institute.

This will enable the Institute attract qualified teaching staff to teach at the Institute.

Diversification of sources of funding for the Institute;

Review of student stipend and payment of tuition fees to generate income for the Institute; and

Assessment and curriculum revamping and expansion of the Institute's programmes to respond to the needs of the member States and also make RIPS a Centre of Excellence.

In order to facilitate a smooth transition of the Institute to a regionalised status, the meeting decided that the UNFPA and the ECA should convene a meeting of the Governing Council of the Institute, which is the final decision making body of the Institute, to review the Institute's activities and discuss

its future. The 17th meeting of the Governing Council of the Institute was therefore held at the University of Ghana during 1-3 December, 1997.

Classroom Training

As a result of the delay in the provision of fellowship support to the Institute, which resulted in the commencement of academic work for the M.A. degree course as late as May 1997, the Institute is considered to have lost one academic year in terms of classroom training for the M.A. in Population Studies programme.

Academic work for the three M.Phil candidates from Ghana, Kenya and Nigeria, enrolled in March/April 1996 and two Ph.D candidates from Nigeria who were enrolled in March 1994 continued uninterrupted.

The Institute was unable to mount any ad hoc training programmes during the year under review due to resource unavailability and lack of staff.

Staffing

The Institute continued to operate with a limited number of academic staff during the academic year, though the situation in respect of administrative and other support staff remained stable and adequate. With the departure of the Acting Director of the Institute for a new duty post at Addis Ababa, Ethiopia, in August 1996, there remained only two permanent teaching staff members at the Institute to carry out the teaching programme of the Institute. Of these two encumbered teaching positions, one was funded by the UNFPA while the other was by the University of Ghana. Dr. E.O. Tawiah, Demographer/Sociologist/Specialist in Population and Development took over from the previous Acting Director as Officer-in-Charge of the Institute in September 1996.

With the limited number of staff available at the Institute, the University of Ghana appointed a new female teaching staff member for the Institute in October 1996. However this staff member was unable to assume duty at the Institute until 3rd September 1997. Luckily however, one teaching staff member originally on the payroll of the University of Ghana returned to duty at the Institute at the end of September 1996, following completion of his Ph.D programme at the University of Southampton in the United Kingdom. The staff member concerned was appointed by the UNFPA in April 1997 to fill the position of Demographer/ Statistician/Specialist in Population and Development made vacant by the departure of the previous Acting Director. Effectively therefore there were only three permanent teaching staff members at the Institute during the academic year, with the exception of the staff who though appointed in October 1996, joined the staff in September 1997.

With four teaching staff members at post as at September 1997, there remained six teaching positions to be filled, including those of the substantive Director made vacant in June 1994, and a Demographer/Economist/Specialist in Population and Development which has never been filled since the beginning of the restructuring programme. All the six positions continue to remain vacant at the time of writing this report. Two of these are expected to be filled by the UNFPA while the remaining four positions are expected to

be filled by the University of Ghana.

Research

Student Research

As part of the training programme for the M.A. in Population Studies programme, the students each year conduct a demographic research in a selected area in Ghana. This activity could not be carried out during the academic year as there was no enrolment for the M.A. programme. However research work for the two Ph.D candidates from Nigeria and the three M.Phil candidates from Ghana, Nigeria and Kenya continued normally. The two Ph.D candidates completed their programme in April and June 1997 respectively and are awaiting the defence of their theses pending submission of the reports of the external examiners. Two of the three M.Phil candidates have very recently completed their studies and submitted their theses for examination, whilst the third candidate is expected to complete the programme by June 1998

Staff Research

Tawiah, E.O.	Determinants of Maternal Health Care in Ghana.
Teklu, Tesfay	Fertility Transition in Ghana Changes in the Determinants of Infant and Child Mortality in Ghana.
Kwankye, S.O.	Adolescent Sexuality, Contraception and Reproductive Health in Ghana.

Extension Service

Tawiah, E.O.	Officer-in-Charge of the Institute, provided support to the Ghana Institute of Journalism (GIJ) as resource person for the Institute's International Course on Population Communication.
Teklu, T.	Co-ordinator of the M.A. degree programme, participated in the meetings of the International Organising Committee of the Union for African Population Studies (UAPS) Scientific Conference on the Africa Region in the 21 Century, as the Institute's representative on the Committee.

Kwankye, S.O.

Lecturer/Research Fellow, participated in seminars and workshops organised by the Population Impact Project (PIP) of the Department of Geography and Resource Development as Associate Project Director. He also collaborated with the National Population Council Secretariat as a representative of the Population Impact Project on their nationwide dissemination and sensitization seminars on Population and Development and Adolescent Reproductive Health in Ghana.

Conferences, Seminars and Workshops

Tawiah, E.O.

Conference on Ghana Population and AIDS Project (GHANAPA) organised by the Ghana National Population Council Secretariat, and held at the Novotel, Accra, during 27-29 January, 1997.

Dissemination Seminar on Adolescent Reproductive Health held at Novotel, Accra, on 13 March, 1997.

Second Meeting of the Follow-up Committee on the Implementation of the Dakar/Ngor Declaration and the ICPD-PA, organised in Addis Ababa, Ethiopia, by the Economic Commission for Africa (ECA), during 13-14 June, 1997.

Second General Assembly of the African Population Commission (APC) organised in Addis Ababa, Ethiopia, by the African Population Commission during 16-19 June, 1997.

Meeting with UNFPA/ECA Mission to RIPS to discuss the future of the Institute organised by the UNFPA/ECA, and held at the Institute during 30 June - 2 July, 1997.

Teklu, T.

First Meeting of the International Organizing Committee of the Union for African Population Studies (UAPS) in preparation for the General Conference of the African Population in the 21st Century, held at the Ganale Hotel in Dakar, Senegal, during 25-27 April, 1997.

Kwankye, S.O.

National Advocacy Workshop on the theme "Empowering Ourselves to Change Population

Policy and Programme", organised by the Ghana National Population Council Secretariat and held at the Novotel Hotel, Accra, during 19-22 March, 1997

Workshop on Participatory Rural Appraisal organised by Care International, Ghana, during 23-27 June, 1997 and held at the District Assembly Hall in Tarkwa, Western Region, Ghana.

The Third Social Science and Health

International Conference held under the theme "African Health in the 21st Century" jointly organised by the Social Science and Medicine Africa Network (SOMA-NET), Council on Health Research (COHIRE), Health Systems Research Programme, WHO/HSR and the SOMA-NET, Zimbabwe Chapter, during 20-24 July, 1997, and held at the Holiday Inn, Crowne Plaza, Monomopata, Harare, Zimbabwe. Mr. Kwankye presented a paper entitled "Adolescent Sexuality and Health in Ghana".

Seminar on "Family Planning Programme structure, Cost and Performance", organised in La Cote d'Ivoire, Abidjan, during 29-30 July, 1997, by the Evaluation Project, University of North Carolina at Chapel Hill, U.S.A. Mr. Kwankye jointly presented a paper with Professor John S. Nabila on the topic "Vertical and Integrated Structures on Family Planning Programmes in Ghana".

Kwaa, Ama K.

Seminar on the theme "Challenges of the University Hospital Administration" organised by the Ghana Association of University Administrators (GAUA) Legon Branch, on 21st February, 1997 and held at the Basement of the Great Hall, University of Ghana.

Meeting with the UNFPA/ECA Mission to discuss the future of RIPS organised by the UNFPA/ECA and held at the Institute during 30 June - 2 July, 1997.

Tetteh, J.O.

Workshop on "UNFPA Financial/Accounting Procedure for National Project Personnel", organised by the UNFPA, Accra, from 14-17 May, 1997, and held at the Miklin Hotel,

Bosompem, D.

Accra.

Workshop on "UNFPA Financial/Accounting Procedure for National Project Personnel", organised by the UNFPA, Accra, from 14-17 May, 1997, and held at the Miklin Hotel, Accra.

Balme Library

Introduction

The Library had a quiet and peaceful year which was a reflection of the calm and tranquility on campus in general. The Library was able to provide commendable service to its clientele despite its perennial problems. Among these were the thin staff on the ground (especially at the Senior Member grade) overcrowding resulting from increased student numbers and inadequate book supply. It is hoped that steps being taken to remedy the situation would yield the desired results and solve the problems or at least reduce them.

Equipment

Photocopiers

The two Nashua photocopiers which had been in use for close to seven years finally proved uneconomical to maintain and had to be boarded. Happily, these were replaced with two new powerful ones after some hard bargaining with the Finance Officer. Still, two machines for a university library are not good enough.

PCs

Under a DANIDA assistance programme, one new PC was acquired to augment the existing ones. These have made it possible to automate some cataloguing activities and speed up work. Barcoding of books started in earnest.

Projects

CD-ROM Project

The CD-ROM Project under which the Balme Library received free subscription to several CD-ROM databases ended in December, 1996. Unfortunately, all efforts to get the University to pick the subscription failed. No new databases were received in 1997. The CD-ROM Management Committee could meet only a couple of times. However, with the acquisition of a laptop computer, Balme Library staff went round to various departments to demonstrate use of the CD-ROM and to show academic staff what databases were available. It was a success story.

E-Mail

The Electronic Mail Project continued to be very popular among the University community. Subscriptions from outside campus have also increased. It is hoped that with time the service will become fully self-sustaining.

DANIDA Project (ILL/DD)

This project which is the brain-child of the International Federation of Library Associations and Institutions (IFLA) and financed by DANIDA is a programme to help Third World University libraries get needed educational material. In addition to the exploratory workshop held in Ghana in April, 1996, six librarians from the five Universities and the CSIR were sent by DANIDA for training in inter-library lending and document delivery. This trainers' training took place partly in the UK and partly in Denmark from 16th May to 19th June, 1997.

Upon the trainers' return, a two-week workshop was organised for twenty-five librarians from the Universities and Polytechnics, November 10 - 21, 1997. Further activities are planned for the future. A steering committee and an implementing committee have been set up to see to the success of the project.

Conservation of Rare Books

The Embassy of France continued to assist with the rehabilitation of rare books. Some badly needed materials and tools were supplied as well as chemicals to treat old books. In addition one member of staff from the Bindery, Mr. F.A. Andrews, was sponsored to undertake book restoration in France at the Bibliotheque Nationale de France. He was away from 14th to 29th November, 1996.

In the context of this project, the Embassy mounted a book and photo exhibition in the Balme Library from 16th to 30th December, 1996. Part of the aim was to demonstrate how old books could be restored and saved.

Automation of Library Process

During the year, the Library acquired a powerful PC which it is using as a server which will eventually be hooked to other computers to provide a network for our operations. The local area networking of the Cataloguing Department was progressing satisfactorily.

Staff Matters

Senior Members

Mrs Theodosia S.A. Adanu was appointed Junior Assistant Librarian on April 1, 1997, later promoted Assistant Librarian (Professional).

Mr. J.O. Anekuedee and Daniel Opoku were promoted from Junior Assistant to Assistant Librarian (Professional).

Mrs. V. Dodoo was re-appointed Sub-Librarian (Academic) and Miss Gifty O. Boakye was also re-appointed Assistant Librarian (Academic). There are still ten vacancies in this grade.

Mr. K.A. Kedem, who had been on leave of absence, formally resigned from the service of the University on April 1, 1997 and Mrs. C.O. Kisiedu, University Librarian, retired at the end of September, 1997.

Senior/Junior Staff

For quite some time now, the Library has been short of staff. Last year, fourteen Junior Library Assistants were appointed to fill some vacancies and replace those who had left the service.

During the year, three more resigned and one transferred to the Finance Office, Legon. There are still twelve vacancies to be filled.

Mr J.T. Nartey, University Binder and Mr. E.K. Tetey, Assistant Transport Officer, retired at the end of September, 1997.

Book Stock

During the year under review, the Library purchased only 67 books while the World Bank sent 191 books to its depository library. Also, a total of 1,374 books were received as gifts; 69 were received on exchange and 47 as legal deposit. The total bookstock now stands at about 365,000.

Conferences/Seminars

Kisiedu, C.O. (Mrs) University Librarian, Mr. G.D. Astagodo and Mr. Daniel Opoku attended the Annual General Meeting of Ghana Library Association held from 19th - 22nd March, 1997 at Winneba.

The Committee of University Librarians and their Deputies organised a seminar on Academic Library Management, from 25th - 29th November, 1996. All the Senior Members participated in the seminar.

The University of Ghana, through the Ghana National Committee (GNC) of the INFODEV Project, and in collaboration with Computer Network System, organised a Training Workshop on Networking in Ghana from January 30th to February 14, 1997, on top of the University Bookshop, Legon. Mrs. C.O. Kisiedu, Chairperson of GNC, Messrs O. Barfi-Adomako, A.K. Martey and Foster K. Amfo, participated in the Workshop.

Kisiedu, Christine O.	Attended the following Seminars, Workshops and Conferences Seminar on University Libraries in Africa from 5 - 8 December, 1996 in Maseru, Lesotho.
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The CD-ROM Pilot Project Workshop and the Ninth AAU General Conference in Lusaka, Zambia, from 8th - 20th January, 1997.

A special session of the Conference of Ministers of UN Economic Commission for Africa in Addis Ababa, Ethiopia, from 4th to 8th May, 1997

A seminar organised jointly by UNESCO and IFLA with the theme: "Internet Awareness Raising Seminar for Southern Africa" in Pretoria, South Africa, from 9th - 27th July, 1997. She presented a paper titled: "Telematics in Africa Libraries: The Ghanaian Experience, and Recommendations for Regional Library Networks". She also visited some Library Networks in the Republic of South Africa. IFLA '97 Conference in Denmark from 19th August to 7th September, 1997.

- Martey, A.K.** Attended course in Inter-library Lending and Document Delivery in the U.K. and Denmark from 16th May to 19th June, 1997. Five other librarians from sister Universities in Ghana attended this course
- Amekuedee, J.O.** IFLA '97 Conference in Denmark from 19th August to 7th September, 1997.
- Barfi-Adomako, O.** Network Technology Workshop and attended the INET '97 Conference organised by the Internet Society from 15th - 27th June, 1997 in Kuala Lumpur, Malaysia.
- Amfo, Foster K.** Singapore-UNDP (TCDC) Fellowship Programme in "Information Technology Management" conducted by the Institute of Systems Science, National University of Singapore, from 14th to 25 July, 1997
- Armah, A. L. (Mrs)** Workshop on Internet Connectivity at the Michigan State University and Washington D.C. from 28th July to 22nd August, 1997. The Workshop was organised by the Michigan State University, H-Net Humanities and Social Sciences Online, the African Studies Centre and the West African Research Association.

Gifts

The Library continued to receive gifts and other forms of assistance from our traditional benefactors. Principal among them were: The British Council United States Information Service, American Association for the Advancement of Science (AAAS); the French Embassy, Canadian Organisation for Development through Education (CODE) through Ghana Book Trust. Others were the World Bank, Book Aid International, World Islamic Call Society, Soroptimist International Club of Accra, and Rotary Club of Accra. Special mention must be made of journals donated to the Library by the late Dr. C.A. Aekah, through the executors of his will.

Individuals like Professor Kwamina Panford of Northeastern University, Boston, Mass., organised alumni and sent consignments of books and journals to us.

We thank them all for their invaluable assistance

Centre for Social Policy Studies (CSPS)

Director: Professor Nana Apt van Ham

Introduction

On October 1996, the Academic Board of the University approved the establishment of the Centre for Social Policy Studies (CSPS) within the Faculty of Social Studies at the University of Ghana. CSPS operates under the underlisted Advisory Board:

- * The Dean, Faculty of Social Studies (chairperson)
- * The Director of ISSER (Deputy Chairperson)
- * The Director, CSPS
- * Representative, Ministry of Employment and Social Welfare (MESW)
- * Representative, Ministry of Health
- * Representative, Ministry of Local Government and Rural development
- * Representative, Ministry of Education
- * Representative, National Development Planning Commission
- * Representative, Ghana National Commission on Children
- * Representative, National Council on Women and Development
- * Representative, UNICEF

Staffing

By the end of June 1997, only the Director of the Centre, Professor Nana Agyemang Danquah, had been properly appointed. While waiting for the proper take-off of the Centre via the setting up and functioning of the Board and nominations for two committees, the Centre has had to operate with temporary /part-time/national service and even volunteer staff. Hopefully this situation will soon be rectified as the following approved initial staffing requirements have already been submitted to the University Registrar for action.

CSPS Staffing Requirements 1997/98

- 1 Documentation officer
- 1 Librarian
- 1 Technical Officer
- 1 Accounting Officer
- 1 Administrative Assistant
- 1 Secretary
- 1 Messenger/Cleaner
- 1 Driver

Objectives of the Centre

The main objectives of the Centre are:

- strengthening national capacity to generate the necessary information for the development of a viable social welfare policy.
- creating greater awareness of policy issues in Ghana; and * supporting participatory development of policies and programmes of action through research and training.

Functions of the Centre

The functions of the Centre are:

- to create a network of people interested in policy issues which enable grassroots participation on a more equalised power basis;
- to produce and distribute a newsletter;
- to train 'non-researchers' on how to do research;
- to run information workshops for grassroots workers and produce workshop packages;
- to carry out policy research, and
- to maintain a resource centre.

As a preliminary to the co-ordinated policy action necessary to improve social development in Ghana, the Centre is expected to focus on the following policy areas to conduct basic research which hopefully will become useful tools for development planners.

These selected policy areas are:

- The development of the child;
- Poverty;
- Family Welfare, Nutrition and Household Dynamics;
- Health;
- Gender Issues;
- Ageing Issues;
- Community Participation and Welfare;
- Environmental Issues;
- Labour Issues and
- Population and development issues.

Considering the potential contributions of CSPS toward the betterment of Children and Women in Ghana, UNICEF has agreed to support the initial costs of setting up the Centre as part of the GOG/UNICEF 1996-2000 MPO agreement to strengthen national capacities for social policy oriented research.

UNICEF's specific targets for assistance to CSPS for 1996/97 were;

- to support infrastructural set up of the Centre at the University;
- to assist in meeting the initial staffing and administrative costs of the Centre; and
- to support the Centre in conducting studies, networking, seminars and workshops which are relevant to social policy.

UNICEF has expended an amount of \$50,000 to support infrastructural set-up of CSPS at the University, including office and library renovation, provision of basic furniture, computers and software, communication lines and office supplies. It has donated books, periodicals and bulletins to the Centre's library and trained two University librarians in Data Trek software package. UNICEF has also provided two vehicles on loan to the Centre.

Main achievements

Studies and Publications

To meet the basic aim of producing data for development planning and maintaining a Resource Centre, CSPS has with UNICEF and MESW support carried out the following studies within the last academic year. These are:

1. A desk study on The Child and Work. (completed)
2. A desk review on Ageing in Ghana (Supported by the Ministry of Employment and Social Welfare: Completed.)
3. Impact on household decision-making and well-being of children. Investigation to cover all three ecological zones of Ghana. (Northern sector completed).
4. International female migration and the impact on children. (on-going : to be completed end November 97).

In addition to the above studies, UNICEF has supported the Centre to publish six policy research documents. They are:

- Listening to girls on the street tell their own story.

- Street children's knowledge about AIDS.
 - Bearing the weight: 'Kayayoo' Ghana's girl working child
 - A profile of street children in Kumasi
 - Children in Difficult Circumstances: Ghanaian children in institutions; and
 - Community Mobilisation.
- The first four publications are out of press remaining the last two.

Social Index Maps:

To meet government targets set in improving the life of the average Ghanaian as envisioned in the 2020 Vision document, there is now an increasing awareness of the need to develop social indicators which are crucial in tracking the impact of the adjustment programme on the poor.

In this respect CSPS has with UNICEF support begun work on developing a series of ready reference social index maps of Ghana based on available country data. These maps will be updated periodically and will be beneficial to University teaching as well as social development planning.

The following maps are completed and available in the Centre:

- Adult Female Illiteracy, By Region (Percent of women aged 15 to 49 years who cannot read)
- Inadequate Maternal Care During Delivery, By Region (Percent of births at which no trained health care personnel were present during delivery)
- Child malnutrition: Children under 3 years who were stunted, By Region.
- Lack of Access to Drinking Water, By Region. (Percent of households using unprotected source of drinking water).
- Population density for 1996, By Region.
- Lack of Access to Sanitation, By Region. (Percent Households with no sanitation).
- Under -Five Mortality Rates, By Region.
- Access to Immunization, By Region. (Percent of infants 0- 11 months vaccinated with BCG).
- Infant Mortality rates, By Region.

Library

UNICEF has assisted in the renovation and furnishing of a reserve Library (HEYWARD). To date 22 boxes containing books, periodicals and bulletins have been received from UNICEF, New York. Presently the Heyward library has a total of 620 volumes made up of social science books, periodicals, journals and bulletins. With part-time and volunteer librarians, 367 of these have been given proper classification numbers. The processing work continues.

Documentation Unit

As of June 1997, 1,080 books from the Social Work Library and the Heyward Reserve Library have been catalogued and processed on the computer. This process is continuing steadily.

Networking

The Centre is already collaborating with the Ministry of Employment and Social Welfare (MESW), AMA/District Assemblies and some NGOs (HelpAge Ghana, RESPONSE, CEDEP and CENCOSAD in particular) to develop comprehensive national policies in respect of old age, street children and other urban related issues

(SPS was represented at the following policy meetings during the year

- MESW/RESPONSE Policy Workshop on Ageing Sogakope, April, 1997
- WCAR economic and social policy network meeting, Accra, 21-25 April 1997.
- UN-GOG Retreat on special initiative for Africa Elmina, 25-26 April, 1997
- MESW/RESPONSE Street Children workshop for District Assemblies: Sogakope and Sunyani September, 1997.

The Centre will continue the building up of a network of people and organisations interested in social policy issues in and out of Africa. To this end a Newsletter will be started in the course of next academic year (1997/98). The Centre's recently developed web page on the Internet is already receiving feedback.

Human Development Report

CSPS has reviewed for the UNDP office, Accra, the recently published 1st Ghana Human Development Report.

Training

In accordance with its mandate to build the capacity of social service organisations, CSPS supported the participation of three nominees of the Centre for the Development of People (CEDEP) in a training course on Food and Nutrition Security held at the University of Development Studies, Tamale from November, 4-29, 1996.

Workshops

Last October, with support from the World Bank, the Centre hosted a post-Beijing workshop titled 'Voices of African Women' which enabled African women from six countries to come to Ghana and share ideas and network with Ghanaian women in the social service field. The conclusions of this workshop will be included in a volume to be published by Avebury, UK, next year, titled, *Maintaining the momentum of Beijing*.

Conclusion

Given the necessary infrastructural support, the Centre could be effective and viable in meeting an important national need of connecting academia to policy makers in a concerted effort to achieve sustainable development in this country.

The Ministry of Employment and Social Welfare has supported a desk review study on Ageing which was a central document for the Ministry's recently planned policy workshop on ageing in Ghana. Friedrich Ebert Foundation has called for research proposals from the Centre. More needs to be done in the future. Other international agencies and bilateral as well as Government agencies have to be made aware of the existence of the Centre and encouraged to get involved in its research and programme activities. This will be part of the mandate of CSPS in its second year of operation.

I would like to place on record the names of two persons whose untiring efforts at getting the Centre running has helped bring CSPS this far. They are:

Ken Williams, Country representative of UNICEF and Prof. James Anquandah, Dean of the Faculty of Social Studies, University of Ghana.

Counselling and Placement Centre

Overview

The Counselling and Placement Centre is a self-contained service unit of the University which supplements other facilities in the University that promote the welfare and optimum development of students.

To achieve this the Centre strives to offer a conducive atmosphere in which students can "be in crisis in" and express their concerns. Confidentiality is assured to all students who use the facility. Students are free to choose any counsellor they wish to consult except when they are referred to see a Specialist. Consultation is free.

Services provided are not limited to students but are extended to staff and dependents of the University community. Outreach programmes are also offered to Senior Secondary Schools and church groups.

Programmes

The academic year started in September and the following activities were successfully implemented:

Preventive Counselling Programmes

a. Orientation for Freshmen

During the regular orientation programme for freshmen the Acting Director explained what services the Centre provides and who can come for help.

Another programme, "Life on Campus", was presented to Freshmen on 18th October, 1996. Topics treated at the Seminar included "Time Management", "Socialization" and "Extra Curricular Activities".

b. Graduate Students Seminar

A seminar was organised for Graduate Students on the topic, "Demands of Graduate Work" on 25th October, 1996. It was well attended and the Dean of Graduate Studies exhorted them to work consistently in order to meet deadlines.

c. Mature Students Seminar

Considering the fact that there are many matured students on campus a special seminar was held for them on 1st November, 1996. Topic discussed was "Re-entering Academic Life: Special Problems of Mature Students".

d. How to Study Effectively

A seminar on the topic "How to Study Effectively" was organised for students on 8th November, 1996. In addition Counsellors worked with students individually and in groups on how to study. Students were also helped to plan and implement time-tables. A programme was presented on Radio Universe on "Proper Management of Time for study and other social activities".

e. Familiarization Meeting with Disabled Students

The disabled were met to discuss their needs and concerns. Their main needs were facilities to improve learning. They talked about library, cassettes for recording and some wanted parts of their fitted limbs to be replaced.

f. Seminar on Sex and Sense

The Director of Planned Parenthood Association of Ghana (PPAG) enlightened students on sex and sex related problems and family planning devices.

Entrepreneurship Development Programme

Young Entrepreneurship Development and Fund (YEDAF) International, a programme run by a Non-Governmental Organisation (NGO) was presented

for interested students. There were three groups of students and each met twice a week for five hours to acquire entrepreneurship skills.

Counselling

Counselling services were available to all students during the year. Services were extended to students from other tertiary institutions, staff and their dependents and a few referred patients from the University Hospital.

Some of the problems presented during the year were:-

- Difficulty in choosing courses and electives;
- Social problems related to development and maintenance of relationships;
- Shyness/Lack of self-esteem;
- Financial problems.
- Anxiety arising from academic, social pressures;
- Stress resulting from various concerns of life;
- Dissatisfaction with courses offered them.

Many students were dissatisfied when they realised that they had to continue with them in second year;

Failure at the Medical School Entry interview caused many students to be depressed. The main source of stress was their belief that some students with lower GPAs were admitted. Interviews were also conducted late and rejected candidates could not register for other courses because they were already full.

Students' Use of Centre

First year students formed the largest number of students who sought counselling. Their concerns were about courses assigned them, accommodation, workload, low-performance at Inter-Semester Assessment, confusion about Level 100 courses and general adjustment problems.

They were followed by second year students who had failed some FUE papers and did not know how to combine the two levels' work. Many Level 100-200 students who were dissatisfied with subjects offered them at level 100 got more depressed at the beginning of the Semester when they realized they still could not make new changes.

Level 300 students were mostly concerned with choosing a major/minor or combining. A lot of them were not informed about the advantages and disadvantages of each choice.

Final year students were mainly concerned with career prospects and postgraduate opportunities. Few who had not satisfied Departmental or University requirements also sought counselling.

Psychiatrist and Psychologists

The problems presented this year were minor psychiatric problems. A few were on admission at the psychiatry hospital, others also deferred their courses. A few of the depressed students had emotional problems before they were admitted. Transition into University made them worse. Students' use of the Centre has shown a remarkable increase and it is hoped that both full-time and part-time Counsellors will continue to work together amicably to address the numerous concerns of students.

Other activities of the Centre included publicity of the Centre's activities on Radio Unvers, talks on Career Planning for second cycle institutions and church groups, guiding applicants to the University in the completion of their forms and counselling them.

Tertiary Education Project for the Provision of Career Advisory Services in Ghanaian Universities

This project was one of the Technical Assistance consultancies under the Tertiary Education Project awarded to the Midwest Universities Consortium for International Activities (MUCIA) Columbus, Ohio, U.S.A. The contract was to assist, strengthen and improve the quality of Career Advisory Services in the Universities. It was also to assist develop a stronger co-ordination between trade and industry on one hand and graduates on the other. The Project Management Unit of the Ministry of Education requested that the Centre houses the project. On the 2nd July of 1996 the Consultant reported for duty. She worked for a year with the University of Ghana, Kwame Nkrumah University of Science and Technology and University of Cape Coast. MUCIA nominated Dr. Rebecca Miller Dedmond, a licensed professional and Career Counsellor of the Virginia Department of Education as Consultant.

The major activities included:

- a. Six workshops on career planning and development which were spread over one year. Beneficiaries of the workshops were staff of the Counselling and Placement Centres of the three Universities and some staff from the Guidance Units of the Ghana Education Service Regional Offices. Participants planned comprehensive student development programmes for their various Universities; did time and task analysis; learnt to establish Career Resource Centre; were introduced to internet and how to "access information on World Wide Web (ww); practised the use of the instrument "Career Orientation and Planning Profile" (COPP) which was to be adapted for use in the Universities.
- b. Visits to Employers and Business houses.
- c. Video -taping management partners.

- d. Working tour of the three Universities
- e. Assembling and Production of Operational Manuals.
- f. Procurement and installation of equipment and software.

As a result of these activities, team members from the three Universities achieved the following:-

- Increased students' interest in the Centre's activities
- Improved facilities
- Acquisition of skills in
 - Computer
 - accessing www
 - e.mail
 - administering and scoring COPP
 - fax
- Acquiring a whole wealth of knowledge in:-
 - writing vision statements
 - setting career development goals
 - planning time and tasks
 - establishing a management partnership council (Legon already had an Advisory Board)
 - building student managed portfolios.

Certificates of participation were presented to the team members

Career Orientation Programme

An elaborate programme was planned for students to develop appropriate skills in Career Development. Students of Level 300 and 400 were put in three groups and for one hour a week for ten weeks as they participated in the Career Development programme. Other students from Level 400 also took part in a crash programme during the long vacation. Students learnt to evaluate their strengths, weaknesses and matched them with jobs available. They acquired job-hunting skills, how to write resumes and application letters, how to prepare for interviews. They had mock interviews done on campus by some employers and were assisted in securing jobs.

Colloquia with Employees

A series of colloquia were organised during the year. Ten organisations were invited to give talks to students and educate them on employment opportunities, entry levels, educational and other requirements, conditions of service, advancement opportunities and nature of jobs.

Organisations that accepted and participated in the programme included:-

- a. Ghana Armed Forces

- b. Volta River Authority
- c. Pioneer Tobacco Company (which provided refreshment for students)
- d. Astek (which provided students with Astek products)
- e. Mobil Oil
- f. Ghana Commercial Bank
- g. Ghana Immigration Service
- h. VALCO

Student Numbers

Students' use of the Centre improved greatly during the year. At the beginning and towards the end of each Semester, an average of 15 students visit the Centre a day. There have been occasions that as many as 30 students sought counselling in a day.

Part-time counsellors saw an average of four students a day.

About 600 students benefitted from individual counselling while another 100 participated in our group counselling programmes throughout the year.

An average of 100 attended each Preventive Counselling activity. The colloquia were well attended. Four hundred students took part in the Pioneer Tobacco Company colloquia probably because they were refreshed.

As the student population increases, we expect many more to use the facilities that the Centre provides.

Staffing

After the retirement of the former Director, no new Counsellors have been employed. There is currently one Counsellor who also acts as Director, combining both counselling, administrative and community duties.

Full-Time

1 Acting Director	E. E. Bonsi
1 Administrative Assistant	A. Wiafe
1 Clerk	E. E. Bondzie
1 Messenger	A. Akrong

Part-Time Counsellors

Lamprey, J.J.	Psychiatrist, Part-Time Senior Lecturer, University of Ghana Medical School, Psychiatrist-in-Charge, Valley View Clinic, Dzorwulu.
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Sefa-Dedeh, Araba	Clinical Psychologist/Lecturer, University of Ghana Medical School.
Schroeder, Rose	Counselling Psychologist/Lecturer, Department of Psychology, University of Ghana.
Bannerman, C.V.L.	Retired Director and Counsellor.

Research Activities

Alex, Wiafe	A study was conducted on the job vacancies advertised in the "Daily Graphic." The main aim of the study was to identify types of advertisements, the positions being advertised and the qualifications required so that students can be guided into these jobs. The greatest demand for the non-graduate level was for secretarial personnel, teachers, and technicians. About 95.6% of all advertisements came from the private sector. For graduate/professional level advertisements, greatest demands were for administrators, engineers, mostly in the private sector.
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Publications

Wiafe, A. and Dedmond R. (Mrs) 1997 "Postcard from Africa" Newsletter of American Vocational Association, Spring Issue Page 10 and 14.

Conferences/Seminars/Worshops

During the period under review, five staff of the Centre attended six workshops on Career Development. Four were held at Legon while one each was held at Cape Coast and Kwame Nkrumah University of Science and Technology.

Six Seminars were held for students on Preventive Counselling.

Ten Colloquia were also held by various organisations for students.

Bonsi, E. E.	GAUA Seminars Seminar on AIDS Counselling, Responsibility:- Read paper on "Human Growth and Development" 1996 Seminar on Counselling Responsibility:- Read paper on "Human Sexuality" 1997.
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procured. Counsellors' rooms have air-conditioners and new furniture was also provided.

c. **Benefits to University**

The improved services at the Centre have resulted in a congenial environment in which the students learn. Their personal problems and those related to their academic work have been solved as a result of counselling. Many mishaps too have been prevented, especially from depressed students who could be violent at times. The Centre has indentified some administrative decisions which have not been very useful and recommended that they be changed.

Even though the Placement function of the University has continued to diminish, its Counselling function continues to gain considerable prominence, thanks to Radio Universe which advertises our programmes.

Graduate Studies

The programme of Graduate Studies made modest gains, during the year under review, in the areas of student enrolment and Graduate Student output.

Student Enrolment

Improvements continued to be recorded in Graduate Student enrolment especially in the Schools of Administration and Communication Studies, and Legon Centre for International Affairs. Expansion of facilities in these areas would have brought the dream of achieving the 20% admission target for graduate studies closer to reality.

The table below shows the admission statistics, as approved by the Board of Graduate Studies at the end of the 1996/97 academic year and corresponding figures for the previous year:

Details	1994/96	1996/97
1. No. of applications forms received	1,668	1,263
a.No. offered admission	575	598
b.Breakdown as follows:-		
Males	424	440
Females	151	158

2. No that registered	397	500
a Gender Breakdown		
Males	291	370
Females	106	130

Graduate Student Output

215 Graduate Students completed their programmes successfully during the 1996/97 academic year. This compares favourably with that of the previous year, 1994/96 (which was two academic years compressed into one due to the industrial action by UFTAG in 1995). The cumulative figure for the 1994/96 academic year was 370. A breakdown of the comparative figures for the two years were as follows.

Degree	1994/96	1996/97
Ph.D	10	4
M.D.	2	
D.Phil		1
M.Phil	194	65
M.B.A.	19	57
M.P.A.	8	24
M.A.	82	18
M.P.H.	8	20
Graduate Diploma	48	26
Total	371	215

The 1996/97 academic year spread of graduating students by Faculty was as follows:

FACULTY	PH.D		M.PHIL		MA		MBA		MFA		GRADUATE			
	MPH		D.PHIL		DIPLOMA									
	M	F	M	F	M	F	M	F	M	F	M	F	M	F
ARTS	1		5		1									
SOCIAL STUDIES			2	3	2		8	9				13	13	
SCIENCE	2		14	6										15
AGRIC.	2		12	3										
ADMIN.								43	14	17	7			
TOTAL	5		65		18				57	24	26		20	

It is also worthy of note that the first batch of students pursuing the Master of Development Management (MDM) degree at GIMPA (under the University's supervision) were scheduled to graduate in the 1996/97 academic year.

A new Faculty - based programme in Development Studies, at ISSER, was also approved for commencement in the 1996/97 academic year. The first batch of 10 students was approved for admission during the year under review.

Course Credit System

Graduate programmes joined other programmes in the University under the course credit system during the 1996/97 academic year. A revised Graduate Handbook reflecting the change over is currently in the final stages of compilation.

School of Administration

Overview

The School of Administration continued the expansion of its programmes during the 1996-97 academic year. The resilience and dynamism that have characterized the School's development in the past were again in evidence during the session. The total student enrolment for 1996-97 was 1081. This represents 23.8% increase over the figures for the previous year.

The breakdown of enrolment at School of Administration (SOA) since 1993/94 is as follows:

Programme	1992/93	1993/94	1994/96	1996/97	1997/98
Diploma In Accounting	59	67	82	95	110
Diploma in Public Administration	54	59	84	91	99
B.Sc. Administration	316	347	412	516	623
BA Administration	99	126	144	158	239

MBA	49	52	94	140	204
MPA	21	21	56	80	101
Ph.D				1	3
Total	598	672	872	1081	1379

As is projected under the Strategic Plan of the School, great increases occurred at the graduate level. A strategic objective of the School is to raise graduate studentship to 50% of the entire student population of the School by the year 2000.

Faculty Movements

The academic staff strength stood at 36, compared with 31 during the 1994/96 session. The increase is interesting in view of the poor remuneration of the university teacher.

In the area of non-academic staff, the School's strength in 1996/97 was 67, two short of the 1994/96 figure.

The following members of faculty were on various types of leave during the year under review.

Mr. A. Gemegah	Study Leave (Ph.D programme)
Mr. M.A.R. Bah	"
Mr. A.Q.Q. Aboagye	"
Mr. Y Boachie-Danquah	" (Part Time, Ph.D Programme)
Mr. K. Domfeh	(Part Time, Ph.D Programme)

The School of Administration suffered a great loss in the sudden death of Dr. Alex Donkor, lecturer in Finance, in February, 1997. In the brief period of his presence at the School, Dr. Alex worked so hard that through his singular efforts, the SOA has now been recognized as a centre of excellence in the area of Finance Education.

On a positive note, new faculty appointments were made with respect to

Mrs. Adelaide Kastner, Lecturer in Marketing
Mr. Dan Ogbarmey Tetteh, Lecturer in Marketing
Dr. S.N. Buatsi, Lecturer in Marketing
Dr. S.C.K. Buame, Lecturer in Entrepreneurship.

Prof. J.B.K. Aheto, Professor of Accounting and Finance

The following retired from the service of the School during the period.
Mr. F.S.K. Agbeve, Lecturer in Accounting.

On-going Research

Asibuo, S.K.	"Decentralization, Participation and Capacity Building: Lessons from the Ghanaian Experience."
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Gyasi, M.A.K.	"The Future of Accountancy Education in Ghana"
Arku, J.S.	"A Study of the Accounting Policies and Procedures of Ghana Telecom Company Ltd."
Otieku, S.K.	"Taxation and Investment Flows in Ghana - A Study of the Tax Policy Planning and Administration in A Developing Economy."
Mensah, A.H.O.	"A Study of Ghana's Textiles/Garment Industry"
Takyi-Asiedu S.	"Development in Management Science."
Poku, K.A.	"Decentralization in Health System in Ghana" "A Study of Self-Perception of Public Health Administrators and Development in Ghana" "Characteristics of Condom Purchasers in Selected Cities and Towns in Ghana"
Domfeh, K.A.	"Environmental Problems and Laws in Ghana" "Institutional Aspects of Urban Environmental Management: The Case of Accra".
Osei, K.A.	"Asset Pricing and Information Efficiency of the Ghana Stock Market"
Boachie-Danquah, Yaw	"Privatisation in Ghana"
Appiah, Francis	"The State and Bureaucracy" "Civil Service Reforms in Ghana" "Bureaucracy, Capacity Building and Good Governance"
Kastner, A. (Mrs)	"Metatheory and Competitive Advantage"
Tetteh, Ogbarmey D.	"Internationalization of Ghanaian Business" "Work values and Business Ethics"
Puplampu B.B.	"Expatriate Adjustment: An Alternative Conceptualization".
Boye, S.S.	"Manufacturing Practices in Ghana - The Impact of Information Technology on Organizations"

- Woode, S.N "Ethics in Management"
- Nkrumah, S.A. "Decentralization and Good Governance in Ghana"
"Decentralization and Export Promotion in Ghana and Denmark"
Bureaucratic Response to Power Sharing in Ghana".
- Publications**
- Poku, K.A. and K. Kyegyir-Aggrey "Advertisement and Promotion of Alcoholic Beverages in Ghana: A Health Hazard Ignored" **The Journal of Management Studies** Third Series Vol.2, Jan-Dec., 1995 pp.31-45.
- Abdulai, A.I. "Management Culture: A Comparative Analysis of American and Japanese Management" **The Journal of Management Studies**, Third Series, Vol. 12, Jan-Dec. 1995, pp.73-94.
- Osei, K.A. "The Efficiency of an Emerging Foreign Exchange Market: The Case of the Forex Bureau Market of Ghana" **The Journal of Management Studies**, pp. 116-126.
- Ogbarmey Tetteh, Dan and Adelaide Kastner, "Kiku Company Ltd, A Promising Export Business" **Legon Export Outlook** Vol.1, No.1 June, 1997, pp. 19-22.
- Domfeh, K.A. "Collaborative Forest Management in Ghana" in E.K. Boon & Luc Hens, (E d s) . **Environmental Management in West Africa**. (Brussels, VUB, 1997) pp. 271-288
"Environmental Problems of Urban Growth" **Grassroots News**, NALAG Vol. No.2 pp.1-2. June 1997.
- Appiah, F. "State and Bureaucratic Accountability" **The Journal of Management Studies**, Forthcoming.
- Woode, S.N. **Values, Standards and Practices in Ghana Organizational Life** Accra, Asempa Publishers, 1997.

Nkrumah, S.A. "Promotion of Export in Ghana - Perceptions of Non-Traditional Exports" **Legon Export Outlook**, Vol.1, No.1, June 1997, pp.11-15.

Conferences

Domfeh, K.A. Seminar on "Key Economic and Legal Instruments for Environmental Management in West Africa" Sogakope, Ghana April 28 - May 2; July 21 - 25 and July 23 - August 1, 1997.

Workshop on Administration Systems in Africa: "Professionalism and Decentralization of Administrative Organizations in Africa" Harare, Zimbabwe, September 2-5, 1997.

Nkrumah, S.A. 2nd Ghana Export Sector Development Forum: Theme: Exports and Strategic Alliances 23rd July 1997. University of Ghana, Legon, Paper Presented: "Local Government Support for Export Business - Preliminary Comments".

Workshop on Administrative Systems in Africa, August 27 - 29 1997. Paper Presented "Decentralization as Element in Good Governance System in Ghana". University of Bergen - Norway.

Appiah, Francis Workshop on Administrative Systems in Africa, 2nd - September, 1997, at University of Zimbabwe, Harare.

Ogbarmey Tetteh, D. 2nd Ghana Export Sector Development Forum, University of Ghana, Legon 23rd July 1997, Paper Presented: "Export Promotion in Ghana. Macro Issues."

Kastner, Adelaide 2nd Ghana Export Sector Development Forum, University of Ghana, Legon 23rd July, 1997, Participant.

Poku, K.A. Conference of Association of Health Administrators, Koforidua, November 25th - 29th 1997

Kwegyir-Aggrey K. Conference of Association of Health Administrators, Koforidua, November 25th - 29th 1997

Benefactors

The School of Administration during the 1996-97 year continued to receive financial and material support from a number of business houses, donors and Alumni. The new benefactors during the year were the following.

Danida provided \$500,000 to support links arrangement between the School of Administration and the Aalborg University in the area of International Business.

The Ghana Stock Market sponsored the 1997 Management Day to the tune of €3 million

Coopers and Lybrand donated €2 million for classroom renovation.

Agricultural Development Bank donated €20 million for the establishment of a Student Independent Learning Centre.

Special Events

The Annual Management Day was held on May 14, 1997 under the chairmanship of Dr. P. Kuranchie, the Managing Director of Agricultural Development Bank. The theme was "Emerging Financial Markets and their Impact on Ghana's Economy", the Management Day was sponsored by the Ghana Stock Market.

The second Ghana Export Sector Development Forum was held on July 23rd 1997. It brought together researchers and practitioners in the area of exports to exchange ideas.

The Second Awards Night of the School of Administration was held on December 15, 1996 for socialization among the family of the staff of School of Administration, to receive a progress report from the Director of the School and to honour hardworking staff.

A new Journal, **The Legon Export Outlook** was launched in July, 1997 to serve as medium for dissemination of ideas on international business.

The World Bank approved funding to the School for the purpose of training entrepreneurs in the area of Non-Banking Finance.

School of Communication Studies

Staff

The staff strength remained stable, though Mr. Kwame Karikari continued his sabbatical leave while Mr. Kwadwo Bosompem had an extension to his study leave. At post were: Ms. Audrey Gadzekpo, Ag. Director; Dr. A. K. Bonnah Koomson; Dr. Kwasi Ansu-Kyeremeh; Mrs. Margaret I. Amoakohene and Mr. Nana Ohene-Ntow. In addition, there was one Fulbright Fellow from the University of Kansas, Prof. Adrienne Rivers. Part-time lecturers were Mr. Kwaku Mensa-Bonsu, Mr. M.A. K. Gyasi of the School of Administration, and Mr. David Ghartey-Tageo.

Students

The School admitted 28 students to the Graduate Diploma programme. Candidates for the M.A. and M.Phil. in Communication Studies were 5 and 2 respectively.

Courses

I. **Mass Communication**

1. Mass Communication
2. Media and Society
3. New Technologies in Communication
4. Development Communication

II. **Communication Research**

1. Introduction to Communication Research
2. Statistics in Communication Research

III. **Print Media**

1. Editing
2. News Reporting & Writing
3. Graphics of Communication/Desktop Publishing
4. Advanced Reporting

IV. **Public Relations**

1. Introduction to Public Relations
2. Advanced Public Relations

V. **Advertising**

1. Introduction to Advertising
2. Advanced Advertising

0 **Electronic Media**

1. Introduction to Electronic Media (Broadcast Journalism)
2. Radio Production
3. Television Production VII. **Other**

1. Social Psychology
2. Media Law
3. Media Management
4. Public Opinion

Extension Work

As part of the School's programme to support improvements in media standards and sustain press freedom, we continued our programme of Continuing Education for Journalists which was funded by the European Union through the Friedrich Ebert Foundation. The 2-year programme ends in December, 1997.

Research and Publications

Kankari, K.

Books: Editor - Ethics in Journalism. Case Studies of Practice in West Africa.

Research: with K. Ansu-Kyeremeh: Who reads the Daily Graphic? Profile of Readers of the Daily Graphic.

Coordinator of: "Democratic Governance Survey in Ghana", with three others.

Bonnah-Koomson, A.K.

Books are - "A Manual of Business and Economic Reporting for Journalists", with Audrey Gadzekpo. "A Handbook for Election Coverage. "Editor of "Prospects for Private Broadcasting in Ghana".

Other research and papers include: "A Study of Ethical Violations by Ghanaian Journalists," commissioned by the PANOS Institute, Dakar, May 1995.

"Democratic Governance in Ghana under the 1992 Constitution," a research collaboration with three others commissioned by the Institute of Economic Affairs, Accra, July, 1996.

"How to be Fair and Objective in Electoral Reporting", a paper presented at a seminar on Electoral Reporting organised by PRINPAG.

"The Role of the Ghanaian Media through the Lens of the 1992 Elections", paper presented at a colloquium organised by the University of Ghana Alumni Association November 28, 1995.

"Media Coverage of Rural Communities Seeking Improvement Through Independent Broadcasting," a paper presented at a forum on Rural Radio Broadcasting, Winneba, January 9 - 11, 1996.

Ansu-Kyeremeh, K

Books are: "Communication Education and Development", a revised enlarged ed. currently being published by the Ghana Universities Press.

Other research and papers include: "Who reads the Daily Graphic? Profile of Readers of the Daily Graphic", with Kwame Karikari, funded by the Graphic Corporation. "Who Reads the Newspapers? A Ghanaian Readership Survey" with Audrey Gadzekpo. "Democratic Governance in Ghana under the 1992 Constitution", with three others, 1996.

"The Truth can only come from outside: Is foreign radio more credible? Paper prepared for the 8th Macbride Round Table on Communication, Seoul, Korea August 24 - 27, 1996.

"Culture of Silence: Change without continuity in an African communication framework", paper prepared for the Scientific Conference of the International Association for Mass Communication Research, Sydney, Australia, 18 - 22 August, 1996

"The role of the Mass Media in National Development", a presentation at Ghana Armed Forces Staff College seminar.

Amoakohene, Margaret

Was elected to the Executive Council of the Institute of Public Relations, Ghana, as the honorary secretary. Her research includes: "Challenges in Electronic Media Management: An Investigation of Media

Ownership and Usage Patterns Among Different Socio-Economic Groups in Ghana," January 1995

"Attitudes of the Marketing Fraternity to Advertising and Sponsored Programs on TV: Implications for Strategic Brand Communication Planning in the Ghanaian Context", May 1996.

Other Papers are: "Rural Development through Independent Radio", paper delivered at Rural Broadcasting and Independent Stations Seminar, Winneba, 9-11 January, 1996. "Mid-term Review of Media Performance in the Electoral Process", paper delivered at an APR/GSA roundtable discussion, October 19, 1996.

"Preparing the PR Practitioner for the Empowerment of Civil Society: A Case of PR Council for Communication Education Biennial, Cape Town, South Africa.

"Types of Communication". Choosing Appropriate Media of Communication for Extension Work", paper presented at a seminar organised by the Rural Forestry Division of the Forestry Department, Bolgatanga, December 17-20, 1995

"Preparing and Writing the Boss's Speech", paper delivered at a workshop for District Public Relations officers of SSNIT, July 1996.

School of Public Health

Background Information

The School of Public Health was established during the 1994/95 Academic Year to provide courses at the MPH, M.Phil and Ph.D. levels. A National Diploma in Public Health is envisaged later. The School's philosophy is based on the "Public Health Schools without Walls" concept that ensures among other things that students acquire not just the theory of public health but also hands-on field experience to gain competencies necessary for the practice of public health in Ghana.

The first class of 12 Physicians and Dentists was admitted in January 1995 and 9 of them successfully finished their MPH programme in February 1996. The University Congregation for the award of degrees took place on March 27, 1997.

The second intake of students, twenty in number, started their programme in May 1996 and finished in June 1997. In this second class there were thirteen physicians, five graduate nurses, one pharmacist and one chemist from the Environmental Protection Agency. The first foreign student to study in the School, was a nurse from Kenya. All the students this year satisfied the requirements for the MPH degree. In 1997/1998 academic year the School has admitted 25 students, as established in the Development Plan. This is a 25% increase over last year and almost triple the 1995 intake.

During the first semester this year, the School, on the advice of its Advisory Board applied for and was granted "Subvention status" under the Ministry of Education. This implies that the School would regularly have its subvention for salaries and other basic expenses paid for by the Government of Ghana through the Ministry of Education

The programme this year benefited from the lessons of the first year of the school. Unlike the 1994/95 academic year there were no interruptions due to problems in the university. The abrupt resignation of the Assistant Registrar, who has not yet been replaced, greatly strained the administration of the School. The work of the school increased this year with the larger intake, and senior members, part-timers, field supervisors and support staff were kept very busy.

Accommodation

Offices

During the year, the Department of Statistics generously allocated 5 offices in their new building to the School. This has improved office space in the School, and the School is grateful to the Head of the Department of Statistics. However, there is still a degree of overcrowding as the School employed more research assistants, an assistant for the Director and 3 other junior staff. There are now 18 senior and support staff sharing seven offices. The need for more room for the School however remains quite acute.

It is hoped that resources would become available in the not-too-distant-future for the School to have a place of its own on the piece of land near the Noguchi Memorial Institute of Medical Research, that the University has allocated for permanent buildings.

Student housing

The School renewed the lease on Henaku House, Haatso, where 15 of the 20 students stayed during the year. Whilst they were in the field on their district residency programme, the School was able to house 14 part-time students on a short-term course in health management. A new hall of residence has been built by the University for graduate students. Students

have since moved to the Valco Trust Postgraduate Hostel.

Staff

Dr. Omar B. Ahmad joined the School in July 1996 as a Lecturer and Coordinator of the School Age Health Research Project funded by the McConnell Clark Foundation. Mr. Jacob van der Puije of the Ministry of Health was appointed Senior Administrative Assistant in February 1997. The post of Assistant Librarian was taken up by Mrs. Mary Crentsil. Four National Service personnel were posted to the School during the year. Mrs. Angela Adjaye, a graduate of the University of Cape Coast has been retained from this group as the Assistant to the Director. Two other secretarial staff and a messenger were also employed. Mr. Obuobi, Senior Lecturer at the School of Administration of this University, who coordinates the course in Health Management in the School, elected to spend his sabbatical leave here. Ms. Amerley Ollennu, the Assistant Registrar of the School resigned for personal reasons in February 1997.

Courses

There were slight modifications to the MPH programme after a review of the first year's programme. These modifications were approved by the Academic Board of the University.

The orientation course during the first week was much more substantial and was better organized. It focussed not merely on an acquaintance with the University, the libraries and other facilities but also with the use of English, dissertation writing and an introduction to computing and the internet.

A new course on the Biological Basis of Public Health, was instituted to assist non-clinicians. This course reviewed basic molecular biology and its relevance to public health. As it turned out, both physicians and non-physicians found the course very useful.

The Statistics and Research Methods course was expanded to allow more time for teaching and tutorials. The Epidemiology course was also split into two - basic epidemiology and disease problems of Ghana, and given more teaching time.

The more significant modifications were with the Field Residency part of the programme, in response to suggestions made at the Review Meeting in 1995, and from the

external examiners (Prof. A. Lucas, Nigeria; Prof. H. Addy, UDS, Tamale in February 1996). After the first semester, students now spend two weeks in their allocated districts, so as to familiarise themselves with the district programme and to start the process of choosing a dissertation topic in consultation with the District Health staff, much earlier than last year's. Students were also given the option to write articles suitable for peer-review journals. No student took this option, as they all preferred to prepare the dissertation.

Another change was in increasing the number of credits for the Field Practice part of the residency from 6 to 8, whilst keeping the credits for the dissertation at 6 to indicate the relative importance the School attached to the Field Practice, and to the acquisition of specific competencies.

Students this year were given the possibility of choice in the electives. Last year's students had all intended to be district medical officers of health and had mostly the same backgrounds and interests. This year's group with a more diverse background was able to choose electives among the taught courses offered. Special electives that allowed a student to pursue in depth a particular topic of research and reading with a senior member engaged in a particular field were offered. Only a few students, however, took advantage of this. All students during the year had many occasions to present papers or critique journal articles, many of them written by senior members who were present at these seminars.

Field Visits

All students were able to visit the Navrongo Population-based Research Programme. They also visited the Western Region, the mining area, for a better appreciation of the effects of gold and other mining activities on the environment and on communities in Ghana. During the year students carried out many other shorter term visits to sites of public health interest. These involved visits to the National Public Health Laboratories, the Atomic Energy Research Centre, sanitary installations in the city of Accra, and visits to the offices of some of the external support agencies such as WHO, UNICEF, UNFPA, USAID etc

District Residency Programme

The participants to this year's orientation course for field supervisors, which was held in the School included senior regional, district health administrators, and academic staff, both full-time and part-time. The course was assisted by experts from the University of Cape Coast Department of Education.

In 1997, students were allocated to 20 Districts. There was at least one field residency district in each of the 10 regions of the country. This was an increase of 8 from the previous year. The Danish government, through its external aid organisation, DANIDA, greatly assisted the School with a grant to improve the living conditions and office accommodation in 17 of the districts. This cost 5 million cedis or \$2,500 per district on the average. As part of this grant there will be an upgrading of communication systems between 4 district health offices and the School. DANIDA, UNFPA and UNICEF assistance enabled the School to support student projects in the field. Each student as part of the field work was required to keep a log book, to write a Situation Analysis of the district, a Management problem and a Disease Control problem apart from the research and preparation of the dissertation. All these outputs by each student were graded as part of their final examination.

Seminars

The Public Health Seminars, held during the year on Tuesdays, were well attended. Some of these seminars were led by staff of the External Development agencies in the health sector, and some by visiting public health specialists. Students during the year were encouraged to attend seminars organised by other institutions and agencies. The students always made their presence felt with useful comments and questions. One notable seminar, was the West African Congress on Environment and Health, in Accra in June 1996. One student also attended a seminar in Nairobi where she read a paper on "Improving TB Patient Compliance with Treatment through the use of Intensified Health Education to Community Health Committees (CHCs) or Community Clinic Committees (CCCs)."

Short Term- Courses

The School was able to run a twenty-week part-time certificate course in Health Service Management for 14 senior medical and health personnel from January to July 1997, with the support of the West African Post Graduate Medical College and the Ministry of Health, Ghana. All the 14 participants successfully completed the course. This was the first time the School had managed such a short-term programme. It is the expectation that the School will be asked to run more of such courses.

Library

The School now has a small library with a full-time Assistant Librarian. Thanks to the British ODA or DFID, the World Bank, and many other supporters, almost all basic public health texts are now available for reading. There is an increasing number of journal subscriptions.

Examinations

All the 20 students passed their examinations. This included the examination of the dissertation, and the final comprehensive oral. The External Examiners were Dr. Fred Wurapa of the WHO Regional Office, Brazzaville and Prof. Ola Daniels of the Department of Community Health of the University of Sokoto Medical School.

Meetings

Meetings of the statutory Boards/Committees - the Advisory Board, the finance committee and the management committees took place as scheduled. The research committee has not met often but this should be remedied with the appointment of a new Assistant Registrar.

Review Meeting

The Second Review Meeting of the MPH programme took place in the University from March 24th to 28th, 1997. At this meeting the students presented their field reports and proposals for their dissertations. It was thought that students should be allowed more time to present their papers than was given this year. There were detailed discussions about the field residency programme and various suggestions were made for evaluating the programme.

Dr. M. Tshimanga, from the University of Zimbabwe School of Public Health, Harare, and Dr. E. Tumushabe, District Medical Officer, representing the Institute of Public Health, University of Makerere, Uganda, attended the meeting. The visitors visited the Dangme-West District, and met the District Health Officer and staff.

Also present at this review meeting were 6 out of the 9 first graduates of the School, who described how the MPH course had benefited them. All these graduates apart from one who is undertaking further training, have gone back to the field mainly as District Medical Officers of Health. Two of them acted as field supervisors to two of this year's class in their districts.

A report of the meeting is under preparation.

Work by Senior Members

The teaching staff includes 5 full time Senior Members, 20 Senior Members from other Institutes, Schools and Departments of the University

and from the Ministry of Health, and 30 part-time Field Supervisors (District Health Officers - Regional). The idea of using part-time experts who work in the field is very much appreciated by all. It is hoped in the coming year to engage one or two more full-time senior members.

During the year, the full-time Senior Members apart from their teaching, tutorial and research work in the School, also engaged in consultancies, lectures to other agencies, which sometimes included travel outside Ghana.

Links

The School continues with the link arrangements through The British Council, with the Liverpool School of Tropical Medicine. The school maintains close ties with the sister SPIWOWs in Uganda and Zimbabwe. The workshop on developing core training in various modules was held in Elmina, Ghana from April 28th to May 2nd 1997, with the support of the Rockefeller Foundation. It was attended by 14 participants from Zimbabwe, Uganda, South Africa, North America and other African countries and was very successful and strengthened links among the Schools.

The School has offered collaboration with the London School of Hygiene and Tropical Medicine on a study of Health Financing in Ghana and Burkina Faso. The office of the programme will be based in the school.

The School, in partnership with the Department of Obstetrics and Gynaecology of the Ghana Medical School, is participating in the work of the Reproductive Health Working Group of the International Clinical Epidemiology Network. This will be a "Collaborative Study of bacterial diagnosis and other infections of the lower genital tract and their association with pregnancy outcome: a randomized control trial"

Support to the School

During the year the School received generous support, financial and material, from various organisations either for the maintenance of the teaching programme or for research. Material support included books, computing equipment, teaching equipment and consumables such as files, papers and writing materials.

The main source of our income has been the Government of Ghana and the underlisted donor agencies to whom the School is most grateful.

Budget

<u>Year</u>	<u>Income</u>	<u>Expenditure</u>
1994	€ 153,700,000	€ 119,786,019
1995	112,146,667	103,207,862
1996	139,539,962	169,890,891 ²

² The value of the cedi (¢) has changed dramatically from about 500 cedis to the US dollar, in 1994 to 2,200 cedis by July 1997.

The major donors were:

1. UNFPA which gave general support to student work.
2. DANIDA refurbishing of 17 districts, and support for the improvement of financial administration of the School.
3. DFID (formerly UK ODA) provided books and numerous items for teaching - projectors, video and tape recorders, copiers etc.
4. British Council/ODA support for the link arrangement with Liverpool School of Tropical Medicine, that allowed visits by the School's Senior Members to Liverpool, the purchase of books and a printer.
5. WHO, Brazzaville provided office equipment, which included an overhead projector, printer, television set and flip chart stands.
6. UNICEF provided a copier and also supported the study by a student on Maternal Mortality in the Yendi district.
7. Rockefeller Foundation supported the School with resources for meetings and travel, salary and a revolving fund for student computers.
8. Clark Foundation support to the School-Age Health Project, salary, travel and through the UNOPS a study to strengthen the management of the School.
9. USAID a heavy-duty copier, computers and accessories, printers and books.

Significant Meetings Attended/Papers Read

- Ofosu-Amaah, S. - Keynote Address "Sanitation in Ghana - the Way Forward" at the Launch of the Ghana Public Health Movement, June 1996.
Keynote Address on "The Health Crisis in Africa" to the EU/Finish Ecological Study Programme, Secaps Hotel, June 22nd 1996
Keynote Address on Adolescent Reproductive Health in Ghana at the Ghana Adolescent Health Summit held in Accra by the National

Population neil. March 13, 1997.
American Public Health Association. APHA
New York November 1996. Speaker at the
seminar on "The Sustainability of Health
Programmes: The Danfa Experience".
Special Advisor: Technical and Research
Advisory Committee of the Global TB
Programme WHO, Geneva May 1997
The ECA/UNICEF Forum on the Cost of
Recovery in the Social Sectors - Health &
Education in Sub-Saharan Africa. Addis
Ababa. June 1992

Pappoe, Matilda

Trip to Uganda - Mbarara from September
21st - 28th 1996.

Attended: (1) Strategic Planning Workshop
for the Institute of Public
Health - Makerere University.
(2) Schools of Public Health
Without Walls meeting. The
10-day meeting was sponsored
by the Rockefeller Foundation.

Outcome:

Participated in discussions which resulted
in a Draft Strategic Plan for the Institute of
Public Health of the Makerere University.
Sharing of ideas regarding the
programmes and teaching field practice
evaluation process of the three Schools of
Public Health Without Walls in Africa.

Trip to Addis Ababa - Ethiopia from
January 23rd - February 4th 1997.

Represented the School on a Ghana
Delegation which attended a consultation
to operationalise Reproductive Health, in
the African Region. Consultation was held in
Addis Ababa, Ethiopia and was sponsored
by the UNFPA. Read a paper entitled
"MIS for Reproductive Health the Ghana
Situation".

Trip to Boston, Massachusetts (USA)
from May 29th - June 7th 1997.

Participated in discussions with colleagues
at the Centre for Development Studies of
Harvard University, to reshape a proposal
for a collaborative project with School of
Public Health (S.P.H) Burden of Disease
Analysis and Social Burden Analysis.

- Attended a workshop of Experts on Gender, Equity and Health. Contributed to discussion on research needs of developing countries.
- Antwi, Phyllis** Participated in the Evaluation of the Uganda Public Health School Without Walls programme from 14th - 21st September 1996 and Strategic Planning Workshop from 22nd - 26th September 1996. Participated in the Evaluation of the Social Mobilization programme for the Expanded Programme on Immunization in the Western Region in January 1997. This programme was funded by the Canadian Public Health Association/World Vision International. Attended the Fourteenth Annual Meeting of the International Clinical Epidemiology Network held in Penang - Malaysia.
- Ahmad, B. Omar** Workshop on Measurement of Health Equity held on July 17th - 18th 1997 at Harvard Centre for Population and Development, Cambridge, MA, USA. Workshop on School-Age Health Research Agenda, May 15th - 17th 1997 held at Inst. of Public Health, Muhimbili University College of Health Sciences, Dar es Salaam, Tanzania. BRAC, ICDDR, B Joint Project Analysis Workshop, April 21st - 28th 1997, Harvard Centre for Population and Development, Cambridge, MA, USA. Workshop on Global Health Equity, November 14th - 17th 1996, City University of Rome, Italy. Using Cost-Effectiveness and Burden of Disease to Define National Control Priorities and Essential Packages of Care. Stowe, Vermont, USA. November 1996. Workshop on the Navrongo Health Research Centre Surveillance System Software. June 1996. Population Council, One Dag Hammerskjold Plaza, New York.
- Enyimayew, Nana K.A** Participant in International Workshop on Health Care Financing. Organised by the World Bank. 10th - 13th March, 1997 Washington D.C.

Working Group on Sustainable Health Services for Christian Health Association Organised by the World Council of Churches - 19th - 24th May 1997.
Module Development Workshop for Public Health Schools Without Walls, Elmina, Ghana. April 1997.

Quainoo, A.B. Coordinator for Occupational Health and Dr. G. Afenyadu, a past student of the School attended the meeting on Public Health Schools Without Walls held in Mbarara, Uganda from 25th - 28th September, 1996.

Consultancies and Research Activities

School Wide Research

(a) The School Age Child Health Research Initiative supported by the Edna McConnell Clark Foundation (New York, USA) is undertaking a two-year initiative aimed at assessing the impact of both disease burden and social burden on the health of school-age children.

The first phase is directed towards a comprehensive and thorough review of the existing literature on the health of the school-age child. It covers health issues ranging from child growth and development to the psycho social aspect of health. This phase is nearly completed. The second phase of the initiative involves a quantitative assessment of disease-burden and social burden in school-age children.

(b) Private Practice: A new study on Private Medical Practice started with Mr. A. Obuobi as Principal Investigator. This study aims at investigating the distribution and functions of private practitioners in the Greater Accra Region.

Individual Activities

Ofosu-Amaah, S.

"A Study of WHO's Support to Countries."

Based on the London School of Hygiene and Tropical Medicine, with multi-donor support. Was team leader for studies in Tanzania and Ethiopia, and drafted the two Country Reports.

UNDP - Study group on Human

Development Member of the Advisory

Panel. Output:- Ghana National

Human Development Report. June 1997.

Consultant to UNICEF Office, Sierra

Leone on the Health Programme. 1st to

10th October 1996, to review the PHC

programme of Sierra Leone.
UNICEF/UNECA. Forum on Cost sharing in
the Social Sectors of Sub-Saharan Africa.
June 1997.

Pappoe, Matilda

In collaboration with Prof. J. Nabila and Dr.
Clara Fayorsey, conducted a study entitled
"Situation Analysis for Adolescent
Reproductive Health Needs in Ghana". Report
is being developed into a book.
In Collaboration with Dr. John Anarfi of
ISSER, have started research into the Social
economic and cultural dimensions of
prostitution. Research is being conducted in
the Eastern Region of Ghana and funded by
GTZ AIDS programme for west and central
Africa.
Completed a survey on the Changing
profile of prostitutes in the Accra -
Tema Area. Findings will be presented
at a roundtable, at the 10th International
Conference on AIDS and STD in Africa in
December 1997.

Ahmad, A. Omar

AIDS: Risk Perception as a Determinant of
Health Behaviour Modification.
Is the effect of Maternal Education on
Child Survival a function of context?
Measurement of Health Inequality in
Developing Countries.

Enyimayew, Nana K.A.

Engaged as an Organisation and
Management Consultant for DANIDA.
Terms of Reference included technical
support to the Upper Regional Health
Administration in planning, monitoring and
evaluation of health services.
Evaluation of the Health Services of the
Presbyterian Church of Ghana. An
Evaluation to assess progress made after 10
years of health services re-structuring. June
1997. Ghana.

Publications

Ofosu-Amaah, S. et al

"Implementation of the Bamako Initiative:
Strategies in Benin and Guinea" in the Int.
J. of Health Planning and Management ed.

Knippenberg et al Vol.2. Supplement 1.
June 1997.

- Pappoe, Matilda** Report on the Situational Analysis of Adolescent Reproduction Health Needs in Ghana, by Prof. J. Nabila, Dr. Clara Fayorsey and Dr. Matilda Pappoe is being developed into a book.
- The Changing Profile of Prostitutes in the Accra Tema Area will appear in the Conference Proceedings; It is also being modified for publication, at a later date.
- Ahmad, A. Omar** Bicego, G. O.B. Ahmad, 1996: Infant and Child Mortality. DHS Comparative Studies No. 20. Calverton, Maryland: Macro International, Inc.
Stewart, K. and O.B. Ahmad: Illustrative Analysis: Comparative Analysis of Reproductive Health Behavior. DHS Comparative Analysis Series. (1997 forthcoming).

Visitors

Dr. Ebrahim M. Samba, Regional Director WHO Brazzaville accompanied by the WHO Representative Ghana, Dr. M. Mandara.

Mr. M. Bailin, President and Dr. J. Cook, Senior Health Adviser of the McConnell Clark Foundation, New York;

Prof. Malcolm Potts, of University of California, Berkeley, USA.

Dr. P. Lamptey, Family Health International, Snr. Vice President AIDS Programs. Project Director, AIDS CAP, Washington D.C.

Japan Team in the Joint USA-Japan Collaboration in Support to health in selected developing countries :- Prof. Tanahashi, Tokyo Keizai Univ., F. Saito, and M. Kobayama;

Tsune Kasuga, health consultant

Visit to the School by the Reviewers of Navrongo Community and Family Planning Project supported by the Rockefeller Foundation.

German Min. of Foreign Affairs: Dr. Herbert Krumbain.

Ms. Lisbeth A. Levey, Director, Project for African Research Libraries SSA Program.

Mrs. L. Hunter, WHO/AFRO Librarian

List of Full-Time Senior Members

1. Prof. Samuel Ofofu-Amaah
Director, Co-ordinator (Seminars)
2. Dr. Matilda Pappoe
Co-ordinator (Social Sciences)

3. Dr. Phyllis Antwi
Course Co-ordinator and Family Health
4. Dr. Nana K.A. Enyimayew
Field Co-ordinator
5. Dr. Omar B. Ahmad
Co-ordinator (School Age Health Study)

Part-Time Senior Members (Co-ordinators)

1. Dr. A.B. Quainoo
Occupational Health
2. Prof. E. Laing
Human Ecology, The biological basis of Public health :Epidemiology
3. Mr. Noye Nortey
Environmental Health
4. Prof. Oracca-Tetteh
Public Health Nutrition
5. Dr. E.K.Batsa
Population Studies
6. Prof. G. A Ashitey
Epidemiology II Disease Control.
7. Prof. R.Biritwum
Biostatistics and research methods.
8. Mr. A. D Obuobi
Management.

MPH ADMISSIONS 1994/95 - 1997/98

Students	1994/95	1996/97	1997/98
Physicians	10	13	11
Dentist	2	-	-
Nurses		5	5
Pharmacist		1	2
Verterinary Surgeon			4
Other			10
Total	12	20	25
Graduated	9	20	25
Foreigners		1	2
Female	1	5	10
MOH	10	18	15

M.Phil ADMISSIONS 1994/95 - 1997/98

Students	1994/95	1996/97	1997/98
Physicians			1
Dentist			
Nurses			
Pharmacist			
Veterinary Surgeon			
Other			
Total	0	0	1
Graduated			

UNIVERSITY OF GHANA MEDICAL SCHOOL

Department of Anaesthesia

Overview

The Department has continued to face acute problems with staffing , offices, and clinical workload and constant disruptions in clinical services due to major problems in the hospital but has been able to remain on its feet. A lot of things have been initiated to improve the situation in the coming year.

Staffing Position as at September 1997

Academic Professor (Part-time)	1
Senior Lecturer (On Sabbatical Leave)	1
Lecturers	4
Research Staff	
Senior Staff	1
Junior Staff	1

Courses Taught/Number of Students

CRP in the 1st clinical year of the coordinated course.
MB ChB Pt. II. 58 students in groups of 7 or 8 for a period of 5 weeks each.
(ie. 8 groups)

8 Lectures were also given to Dental Students in their 2nd clinical year (4 students)

Postgraduate Lectures were given to Diploma in Anaesthesia and Ophthalmology candidates.

Research

- (a) Caudal Anaesthesia for children at Korle-Bu.; Prof. Elegbe, Dr. Lamptey
- (b) Regional Anaesthetic techniques, : Dr. Baddoo, Dr. Boni, Dr. Coker
- (c) Pain relief at Korle-Bu.; Dr. Coker, Dr. Lamptey, Dr. Boni
- (d) Use of Propofol in Sedation and Anaesthesia at Korle-Bu.: Dr. Baddoo

Publications

"Successful Resuscitation of a Morbidly Obese Patient with Asystole after Spinal Anaesthesia". (Accepted for the West African Medical Journal).

Conferences/Seminars/Workshops

- (a) West African College of Surgeons meeting in Dakar, February 1997. Attended by Dr. H. Badoo and Dr. E. Lamptey
- (b) All African Anaesthetic Congress, Harare, Drs. Boni, Coker and Lamptey attended. Dr. Boni presented a paper on "Setting Standards for Anaesthetic Practice in Ghana".
- (c) The Society of Anaesthetists on West Africa (SAWA) was organised by the Department in Accra. Dr. Badoo presented a paper on "Interscalene Blocks"
- (d) The Ghana Anaesthetists Society Meeting. March and November 1997 at Korle-Bu.

Visitors

Dr Alice Edler, Co-Chairperson on Overseas Training Program (OTP) of the American Society of Anesthesiologists (ASA) visited Accra to find out the suitability of the Department for a joint program with the ASA. .

It has been an eventful year and it is the hope of all that with the expected arrival of more staff, the promised offices for the Department, Teaching and Research can be improved.

Department of Anatomy

Overview

The Department has functioned creditably within the year under review in the areas of teaching, research, and extension activities. Our income generating activities continue to excel. The recent paving of the driveway brings to completion the construction of the new mortuary. Plans have been initiated for the acquisition of a new hearse to augment the present fleet.

Staffing Position as at September 1997

- (a) Academic/Research Staff (6)

Prof. F.N.L. Engmann, a former Dean returned to the Department on a part-time appointment in September 1996

Promotions

1. Rev. Prof. A.S. Ayettey; from Associate Professor to Professor. He has also been appointed Vice-Dean.
2. Dr. C.N.B. Tagoe; from Senior Lecturer to Associate Professor.

Resignation

Dr. W.K. Kesse, Senior Lecturer, resigned from the University on 1st September, 1997.

Courses Taught/Number of Students

Course

- i. Gross Anatomy, Histology, Embryology and Neuroanatomy to Medical and Dental students.
- ii. M. Phil, and Ph.D
- iii. Applied anatomy for the West African Postgraduate Medical College Primary Fellowship Examination candidates (General Surgery, Ophthalmology, Anaesthesia and Obstetrics and Gynaecology).
- iv. Specialist course in Anatomy for Perioperative and Intensive Care nurses.

Student Numbers

90 undergraduates (Level 300) comprising 80 medical and 10 dental students. 1 part-time Ph.D

Research

1. Cardiac and salivary gland ultrastructure.
2. Studies on neural fold fusion and neural tube wound healing.
3. Comparative studies of the placenta in different haemoglobin genotypes.
4. Studies on the effect of stick chewing on pH of whole/mixed saliva after eating Ghanaian meals.
5. Differential embryotoxicity of enantiomeric drugs.

Publications

Full Papers

Ayettey, A.S.; Navaratnam, V; Tagoe C.N.B.; Chem, I-Li and Yates, R.D.

(1996) Morphometric Study of Specific Heart Granules in the Grey Seal (Helichoerus

- Hewitt, R.L.; Ayettey A.S.;
Akers, D.L.; and Yates, R.D.
(1996) "New Nomenclature for Femoral
Vessels. Journal of Vascular Surgery.
24:906-907
- Eck, M.K.; Yuan, L; Duffy, L;
Ram, P.T.; Ayettey, A.S.;
Chen, I-Li; Cohn, C.S.; Reed,
J.C. and Hill, S.M
(1996) "A Sequential Treatment Regimen
with Malatonin and All-Trans-Retinoic Acid
Induces Apoptosis in MCF-7 Human
Breast Tumour Cells." (In press) Cancer
Research.

Conferences/Seminars/Workshops

- Tagoe, C.N.B. Summer Meeting of the Anatomical Society
of Great Britain and Ireland in Edinburgh,
UK, July 1997.
- Ayettey, A.S., Tagoe, C.N.B.,
Lawson, A.L., Addai and
Dennis, E. (Mrs)
The 7th International Congress of the
Anatomical Society of West Africa, in Jos,
Nigeria in April 1997: Rev. Papers read and
published in the Book of Abstracts were as
follows:
"Anatomy Teaching Programme - The Tulane
Experience" - Rev. Prof. A.S. Ayettey.
"The Effects of Colchicine on the Basal Lamina
of the Neuroepithelium of the Chick Embryo"
- A. Lawson and M.A. England.
"Ultrastructure of the Sinu-Atrial Node"
A.S. Ayettey.
"Cardiac Ultrastructure" - A.S. Ayettey.
"Ultrastructural Features of Ventricular
Myocytes in the Hamster and Insectivorous
Bat: a Morphometric Study" - E. Dennis.
"Differential Embryotoxicity of Enantiomeric
Drugs: an Example with Chloroquine"
C.N.B. Tagoe and Dr. Ofori-Adjet.
"Neural Tube Defects - Towards an
Understanding of their Aetiology and
Prevention" - A. Lawson and M.A. England.
"Ultrastructure of the Human Placenta in
Sickle Cell Disease" - F.K. Addai and C.D.
Ockleford.

"Recent Advances in Comparative Studies of Mammalian Myocyte Morphometry" - R.D. Yates; A.S. Ayettey; C.N.B. Tagoe and V. Navaratnam (1997). Book of abstracts XIVth International Symposium on Morphological Sciences; Beijing, China.

Department of Basic Dental Science

Staffing Position as at September 1997

(a) Academic Staff		
Full time	8	
Part time	2	
(b) Senior Staff		4
(c) Junior Staff		5

Course Taught/Number of Students

Dentistry	
BDS II	16
BDS III	6
Final Part I	6
Final Part II	6
Final Part III	2

Research

Newman, M.	Profile of Orthodontic patients attending the Dental Clinic. Dental health Status of Children attending the Dental School Clinic.
Nartey, N.O.	Oral Candidians' in Breast feeding infants. Leukocyte changes in Burkitts Lymphoma patients.

Parkins, G. Ultrastructure of Major Salivary gland of Pipistrellus: pipistrellus insect-eating bat. Oral Carcinoma and relationship with viruses.

Nyarko, E.A. Management of Facial Fractures. Effects of dietary habits on composite restoration in the Ghanaian patient. The outcome of endodontic treatment under difficult conditions at the Korle-Bu Teaching Hospital (1991-1995) Ameloblastoma in the Ghanaian patient. Fibrous lesion of the facial Region seen at Korle-Bu.

Publications

Nyarko, E.A. "The Use of LA in the Management of Facial Fractures." Ghana Medical Journal - (Paper Submitted)

Parkins, G. "Large Sublingual Lipoma" - British Journal of Oral and Maxillofacial Surgeons (October 1997)

Conferences/Workshops

Nyarko, E.A. Annual Conference of West African College of Surgeons, held at Dakar. (February 1997) Ghana Dental Association Annual Conference, Accra (June 1997)

Parkins, G. Annual Scientific Conference of British Oral and Maxillofacial Surgeons, Buxton, England. (June 1997)

Benefactions

- (a) Degussa Company (Ghana Representative):- Donated Light Curing Machine with composites.
- (b) Dr. & Dr.(Mrs.) Francis Mante, University of Pennsylvania:- Donated Phantom heads and Dentoforms.
- (c) Ghana Professional Club of Ontario:- Donated Aspirating Syringes (1.8cc) Endodontic Files, Screws for Aspirating Syringe, Canadian Dental Association Journals.
- (d) Valco Trust Fund:- Sponsored Dr. Parkins to attend the Annual Scientific British Conference of the British Oral and Maxillofacial Surgeons, Buxton, England.

(e) Dr. Frank King:- Donated Dental Burs and Acrylic Teeth

Visiting Professors/Lecturers

- (a) Visiting Lecturer in Periodontics
Dr. K.O. Savage, College of Medicine, University of Lagos.
- (b) Visiting Lecturer in Dental Materials Science
Dr. E.K. Kpedekpo, Okomfo Anokye Teaching Hospital, Kumasi.

Extension Services - 1996-97

The School started Dental examination and recording of the incidence of dental diseases in selected schools in Accra. This will be extended nationwide depending on the availability of funds.

Department of Biochemistry

Overview

A significant development during the year was the establishment of a Molecular Biology Unit. Two staff offices were refurbished and fully equipped. A Technician trained in current molecular biology methodology will manage the unit. The Department will offer services in pre-natal diagnosis and chromosomal aberration analysis to the community.

Staffing Position as at September 1997

(a) Academic Staff	3
(b) Senior Staff	5
(c) Junior Staff	2

Dr. Alex Nyarko, Acting Deputy Director, Noguchi Memorial Institute for Medical Research, Legon, was appointed Part-Time Lecturer.

Course Taught/Number of Students

<u>Course</u>	<u>No. of Students</u>
Medicine Level 300	76
Dentistry Level 300	11

Research

Despite the limitation of the staffing situation, senior members/staff of the department continued with research in the following areas:

Asante-Poku, S.	Medical Genetics: Spartaine-Debrisoquine Polymorphism Ghanaians.
Amoah, A.G.B.	Diabetes: Non-Insulin Dependent diabetics and hypertensives.
Oppong, S.Y	Nutrition and Energy Balance: The role of nutrition in health and disease.
Asante, S.O.	Parasite Biochemistry (Malaria and Trypanosomes): Activity of Trypanocidal Strychnos dinklagei

Publications

None

Conferences/Seminars/Workshops

Asante-Poku, S. and Oppong, S.Y.	Senior members/staff of the Department in cooperation with the Centre for Clinical Genetics, Korle Bu, organised a 2-day seminar on Genetic Screening in Pregnancy and Newborns
Amoah, A.G.B.	West African Origins of Non Insulin Dependent Diabetes Mellitus in African Americans. February 6 to 17, 1997. First Regional Workshop on Cardiovascular Disorders in Sub-Saharan African Cardiomyopathy and Hypertension - Yaounde, Cameroon (Dr A.G.B. Amoah) February 2 to 5, 1997.

Benefactions

The Department gratefully received gifts of equipment and a set of books from the Department of Biochemistry, University of Tulane, U.S.A. The equipment included four computers, a spectrophotometer, three waterbaths and a micro-centrifuge.

The Department received the journal of Biochemical Education (a quarterly publication) from the International Union of Biochemistry and Molecular Biology, U.K

Visitors

Dr. Kwame Anyane-Yeboah, M.D, Professor of Clinical Paediatrics and Director, Division of Clinical Genetics, Columbia University, New York and U.S.A. was the guest of the Department on August 6 and 7, 1997. The possibility of starting a joint research program on pre-natal diagnosis of hemoglobinopathies and chromosomal abnormalities was discussed.

Centre for Tropical Clinical Pharmacology & Therapeutics

Staffing Position as at September 1997

(a) Academic Staff	2
(b) Senior Staff	6
(c) Junior Staff	3

Courses Taught/No. of Students

- (a) Level 400 Pharmacology
- (b) Level 500 Coordinated Course (Clinical Pharmacology, Endocrinology & General Medicine)
- (c) Final Year Medical Students - Clinical Instruction in General Medicine
- (d) Postgraduates preparing for Part I FWACP - Clinical Instruction in General Medicine.

Research

Ofori-Adjel, D.

The role of folate deficiency in *P. falciparum* malaria. - Funded by the Health Foundation, New York, U.S.A.

Monitoring the Efficacy of Chloroquine as first line antimalarial drug. Funded by the World Health Organisation/Ministry of Health.

Pattern of malaria admissions at the Korle-Bu Teaching Hospital - cerebral malaria in children and adults. Supported by University of Ghana Medical School.

Preparation of formularies and treatment guidelines for different levels of health care professionals based on Ghana's Essential Drugs List. Funded by the Ministry of Health of Ghana.

Drug use intervention studies relating to rational prescribing and dispensing.

Pharmacogenetic studies in collaboration with the University of Aberdeen, Scotland.

Funded by Wellcome Trust, incorporating the training of a Ghanaian PhD student.

Monitoring and Evaluation of the Ghana Diabetes Project - Funded by Eli Lilly S.A. Geneva.

Ofei, Francis

Ghana Diabetes Project Monitoring and Evaluation; Patient and public attitudes about diabetes

Self-care behaviour among Ghanaian diabetics.

Diabetes foot lesions in Ghana

Publications

Ofori-Adjei, D. and Arhinful, D.

"The Effect of Training on the Clinical Management of Malaria by Medical Assistants in Ghana." Soc. Sci. Med. 1996;42(8):1169-1176.

Mate-Kole, M.O., Yeboah, E.D. Affram, R.K.,

Ofori-Adjei, D and Adu, D.

"Haematolysis in the Treatment of Acute Renal Failure in Tropical Africa: A 20-Year review at the Korle Bu Teaching Hospital. Renal Failure 1996;18(3):517- 524.

Bosu, W.K. and Ofori-Adjei, D.

"Survey of Antibiotic Prescribing Pattern in Government Health Facilities of the Wassa West District of Ghana." East Afr Med J 1997;74(3):138-142.

"A 1-Day Survey of Drug Prescribing Patterns in the District General Hospital of the Wassa West District of Ghana " Tropical Doctor 1997; 27:222-226.

- Mingle, J A A., Ofori-Adjei, E., Ofori-Adjei, D., and Sakkey S O.O. "An Outbreak of Influenza A(H3N2) in Accra in 1996." Ghana Medical Journal 1997;31a: 799-801
- Ofei F, Harel S, Newkirk J, Sopwith M, Taylor R "Effects of an Engineered Human TNF- α Antibody (CDP571) on Insulin Sensitivity and Glycaemic Control in Patients with Non-Insulin Dependent Diabetes Mellitus." Diabetes 45:881-885 1996
- Nyarko A K., Adubofour K.O.M., Ofei F., Kpodonu J., Owusu S.K. "Serum Lipid and Lipoproteins Levels in Ghanaians with Diabetes Mellitus and Hypertension." Journal of the National Medical Association 89:191-196. 1997.
- Adubofour K.O.M., Ofei F., Mensah-Adubofour J., Owusu S.K. "Diabetes in Ghana." In Diabetes in Africa, Eds. Geoff Gill, Jean-Claude Mbanya, George Albert. FSG Communications Ltd. Chap. 10:83-88. 1997
- Brakohiapa L.A., Quaye I.K.E., Amoah A.G.B., Harrison E.K., Kennedy D.O., Kido Y., Ofei F. "Blood glucose responses to mixed Ghanaian diets in Health adult males." WJMJ Vol. 16 No. 3:170-173. 1997.

Conferences/Seminars/Workshops

- Ofori-Adjei, D. Scientific Session, Annual General Meeting of Ghana Medical Association, October, 1996.
Role Organizer of Scientific Symposium
Paper. An Overview of Prescribing in Ghana Annual General Meeting, West African College of Physicians, Ghana Chapter, November 1996. **Paper:** Trends in Clinical Presentation of Malaria at Korle-Bu Teaching Hospital (Co-author - Dr. Eugenia Ofori-Adjei)
 First International Conference on Improving Use of Medicine (ICIUM) - State of the Art and Future Directions, Chiang Mai, Thailand, April 1-4, 1997.

Role: Member, International Scientific Programme Committee Chairman, Final Plenary Session

Papers: 1. "Improving Use of Medicines by Health Providers in Primary Care"(multi-authored Review Paper)

2. "The Impact of Three Forms of Educational Interventions on Dispensing Practices."(Co-author - Armeyaw, MM)

3. "Evaluation of Provider-Client Interaction in the Distribution of Oral Contraceptives by Private Drug Outlets in Ghana Using the Simulated Client Method." (Co-author - Arhinful, D)

4. "The Impact of Group Development of Treatment Norms on Prescribing at PHC levels in the Greater Accra Region, Ghana." (Co-authors Agyepong I, Anum P and Arhinful D)

Workshop on "Developing Ghana-Dutch Research Collaboration for Development", Amsterdam, the

Netherlands, May 1997.

Workshop on "Strengthening Research in Support of Health Sector Reforms in Ghana", Novotel Accra. February 1997

Role : Member of Preparatory Committee and Editor of Workshop Report.

Ofei, F.

"Drug Advertising in Ghana" - 38th Scientific Meeting of the Ghana Medical Association, National Conference Centre, Accra 7th November 1996. Organised by Ghana Medical Association.

Global Medical Conference, Indianapolis, Indiana, USA, 18- 20 June 1997. Organised by Eli-Lily & Co., USA

American Diabetes Association Conference Boston, Massachusetts, USA. 21-24 June, 1997. Organised by American Diabetes Association.

"Challenges of Diabetes Education in Developing Countries". 16th International Diabetes Federation Congress, Helsinki, Finland. 21 - 25 July 1997. Organised by International Diabetes Federation.

"Burden of Disease Study. The School-Age Child Initiative." Great Hall, Legon. Organised by School of Public Health, University of

Ghana, Legon. 4 - 5 September, 1996.
 "1st African Course on Problem-Based Pharmacotherapy Teaching" Cape Town, South Africa. Organised by University of Cape Town, South Africa. 25 November - 6 December, 1996.
 Training Workshop for Data Collectors and Data Managers CTCPT, UGMS, Accra. Organised by Monitoring and Evaluation Group of the Ghana Diabetes Project. Sponsored by Eli-Liy & Co. 21-25 April, 1997.
 "Causes and Management of Hepatic Coma and Diabetes Coma". Intensive Care Nursing Workshop, Accra. Organised by Ministry of Health. 17th July, 1997.
 4th Indepth Training Course on Rational Pharmacotherapy Teaching, The Netherlands. Organised by International Network for the Development of Pharmacotherapy Teaching (INDEPTH) University of Groningen. 21-29 August, 1997.
 "Diabetes An Emerging Public Health Problem". Non- Communicable Diseases Programme. Secaps Hotel, Accra. Sponsored by Ministry of Health. 23-24 October, 1996.
 'Overview of hypertension and its management'. Personalising drug choices in hypertension management.
 Hypertension Update for Health Care Professionals. Auditorium UGMS, Accra. Sponsored by Faith Medical Agency. 8th March, 1997.
 'Diabetes Management - The state of the art'. 10th Ghana Diabetes Association Scientific Meeting. Novotel, Accra. Sponsored by Ghana Diabetes Association and Novo-Nordisk, Denmark. 12th August, 1997.

Honours

Ofori-Adjei, D.

Elected Member of the New York Academy of Sciences, April 1997
 Member, WHO Expert Working Group on ATC classification and DDD assignment of drugs. April 1997.

Department of Chemical Pathology

Overview

The Department of Chemical Pathology was involved in teaching research and services to patients at the Korle-Bu Teaching Hospital.

Staffing Position as at September 1997

(a) Senior Member	1 (on contract appointment)
(b) Superintendent Technologist	2
(c) Senior Technologist	1
(d) Chief Research Assistant	1
(e) Principal Research Assistant	1
(f) Senior Research Assistant	1
(g) Technologist	1

Courses Taught/No. of Students

<u>Course</u>	<u>No. of students</u>
Level 400 BSc (Medical Science) Degree	72
Diploma in Medical Laboratory Technology (DMLT)	12
Postgraduate Training	8

Research

The department is involved in a number of research projects.

- (a) Research projects for the DMLT students.
- (b) Departmental research projects including:
 - Reference values of thyroid hormonal.
 - Update of reference values for biochemical analytes.
 - Plasma lipid and lipoprotein profile of type 11 diabetic patients at Korle Bu Teaching Hospital.

Publications

None.

Conferences/Seminars/Workshops

Maddy, S.Q. Went to U.S.T. Kumasi to examine Medical Students and MSc thesis.
 Attended a workshop at Sogakope for

curriculum development for B.Sc Medical Laboratory Training.
Attended a workshop on "Strategic Plans and Policy Framework for the Implementation of Laboratory Programmes 1996-2001."

Benefactions

None.

Department of Child Health

Overview

The department continued with its original mission of teaching undergraduate students the basics of Child Health and Care with emphasis on children in the tropical setting. Postgraduate students' preparation for the West African Postgraduate Medical College Fellowship Examinations also continued as before. In the year under review, one candidate passed the Part I Examinations while another passed the Primary Examination of the West African College. The department, however, recorded a decline in the enrolment of Postgraduate doctors.

73 medical students enrolled for the Final MB Ch.B Part I course in Child Health in the year. At the main examination 67 candidates passed, while 5 of the referred students were successful in the following supplementary examinations.

Staffing Position as at September 1997

(a) Academic/Research Staff	8
(b) Senior Staff	1
(c) Junior Staff	3

Courses Taught/No. of Student

Course	No. of Students
Level 300	
Level 400	
1st Clinical Year	
MB ChB Pt.I (Child Health)	73
MB ChB Pt.II	

Teaching was carried out by seven senior members during the year. Prof. J.E. Neequaye returned to post in March 1997 after two years absence on sabbatical leave. Dr. O.P. Rodrigues was granted a further year of leave of absence. Dr. J.T. Arthur retired in September 1997. The main lecturers for the year were:

Prof. J.O. Oliver-Commey	Professor & Head of Department
Prof. J.E. Neequaye	Professor
Dr. A.G. Boohene	Senior Lecturer
Dr. J.T. Arthur	Senior Lecturer
Dr. J.E. Welbeck	Senior Lecturer
Dr. E. Ofori-Adjei	Lecturer
Dr. B.Q. Goka	Lecturer

Research in the Department

Major research in the department was concentrated on Malaria and its presentation in children in the Accra Metropolis. Data was also collected on the clinical spectrum of renal disease in children. Further research work was carried out on cancers - blood and tissue - in children in Accra.

Publications

Hviid L, Kurtzhals J.A.L.,

Dodoo D., Rodrigues O., Roun.

A. Commey, J.O.O., Nkrumah,
F.K.

The T-Cell Response to Plasmodium Falciparum Malaria in a Population in which Malaria is Endemic. Infection and Immunity. 1996; 64(10):4359-4362.

Dakubo, G.B.D., Commey, J.O.O.

"Acute Respiratory Infections in Children 0-3 years: Comparative Findings in Emergency Rooms in Two Hospitals in Ghana and Zimbabwe." W. Afr. J. Med. 1996; 15: 181-185.

Kurtzhals J.A.L., Rodrigues, O.

Addae M., Commey J.O.O.,

Nkrumah F.K., Hviid L.:

"Reversible Suppression of Bone Marrow Response to Erythropoietin in Plasmodium Falciparum Malaria." Br. J. Haematol. 1997. 169-174.

Hviid L., Kurtzhals J.A.L.,

Oliver-Commey, J.O., Nkrumah,

F.K., Theander T.G.

Rapid Re-Emergency of T-Cells into the Peripheral Circulation following Treatment

of Severe and Uncomplicated Plasmodium Falciparum Malaria." Infect and Immune 1997; 65: 4090-3.

Armah G.E., Hori H.,
Anyanful A., Mingle J.A.A.,
Commey J.O.O., Kamtiya K.
Nkrumah F.K.

"Rotavirus Subgroups/Subtypes and Severity of Associated Diarrhoea Disease in Ghana." African J. of Health Sciences (In Press).

Welbeck, J.E and Afua J.
Hesse:

"Pattern of Childhood Malignancy in Korle Bu Teaching Hospital, Accra, Ghana," West African Journal of Medicine (In Press).

Welbeck, Jennifer .E.

"Sinus Histiocytosis and Massive Lymphadenopathy (SHML) in 2 Ghanaian Brothers." Tropical Doctor. (Submitted)

Ofori-Adjet, E.

"Congenital Adrenal Hyperplasia Causing Infant Deaths in a Family." Ghana Med. Journal Vol. 31a, 1997, P.796-798.

Mingle, J.A.A., Ofori-Adjet,
E., Sackey, S.O.

"An Outbreak of Influenza A (H3N2) in Accra in 1996." Ghana Med. Journal, Vol. 31a, 1997, P.799-801.

Conferences/Seminars/Workshops

Welbeck, Jennifer E.

The 1st European African Paediatric Congress in South Africa in March 1997 where she had a poster presentation titled "Birth Asphyxia in Korle Bu Hospital".

Oliver-Commey, J.O.;
Arthur, J.T.; Boohene, A.G.;
Welbeck, J.E. and Goka, B.Q.

National Congress of the Ghana Paediatric Society in September 1997 where Prof. Oliver-Commey made a presentation on "Paediatric Postgraduate Education in Ghana." Drs. Boohene, Welbeck and Goka were elected onto the Executive Council.

Benefactions

- (a) Generous anonymous donation to the department allowed the purchase of an overhead projector suitable for clinical meetings and student teaching.

- (b) The Merchant Bank donated an Ultra-modern electrocardiographic machine for clinical monitoring of children with cardiac problems.
- (c) The St. Michael's Anglican Church of Korie Gorno donated two nebuliser machines to the department for student demonstration and the management of acute asthmatic attacks in children.
- (d) Ministry of Education through the World Bank Assistance to Tertiary Education Programme donated
 - an airconditioner
 - a centrifuge
 - a microscope
 - 5 weighing scales
 to the Department of Child Health.

Visitors

None.

Department of Community Health

Overview

There were no major changes in the academic and research programmes of the Department which continued to train medical students to understand the major health problems that affect the health of communities and methods of solving them.

Staffing Position as at September 1997

- (a) Academic Staff 5
- (b) Senior Staff 9
- (c) Junior Staff 16

Courses Taught/Number of Student

<u>Course</u>	<u>No. of students</u>
Junior Clerkship	78
Integrated Course	78
Final Part I (Class of 1997)	73
Final Part I (Class of 1996)	58

Research

- (a) Adolescent Reproductive Health
- (b) Hospital Statistics
- (c) Primary Health Care (PHC)

Publications

- Biritwum, R.B., "Sylla, M., Diarra. "Evaluation of Ivermectin Distribution in Benin, Cote d'Ivoire, Ghana, and Togo: Estimation of Coverage of Treatment." Annals of Tropical Medicine & Parasitology. Vol. 91, No.3, 297-305 (1997).
- Biritwum, R.B. "The Use of Models in Determining Disease Prevalence." Ghana University Press 1996; ISBN: 9964-3-0233-9.
- Nyame, P.K. and Biritwum, R.B. "Epilepsy: Knowledge, Attitude and Practice in Literate Urban Population, Accra, Ghana." WJMJ Vol. 16 No.3 Aug.-Sep. 1997.
- Osei, L. and Comney, J.O.O. "Drug Compliance Among Adult Ghanaians at the Korle Bu Teaching Hospital." (Submitted to Ghana Medical Journal).
- Stephens, Akerman, C.M., Avle, S., Mata, P.B., Campanario, P., Doe, B. and Tetteh, D. "Urban Equity and Urban Health: Using existing data to understand inequalities in health and environment in Accra, Ghana and Sao Paulo, Brazil" in Environment and Urbanization Vol. 9, No.1, April 1997.

Conferences/Seminars/Workshop s

- Biritwum, R.B. Workshop on Adolescent Reproductive Health, March 14, 1997, Research Findings of adolescent Fertility behaviour and Contraceptive use and AIDS awareness study. Visiting Research Fellow, Liverpool School of Tropical Medicine (Feb. 1997, Link arrangement between School of Public Health and Liverpool School of Tropical Medicine).

SRN Course (Affiliated Group)
Public Health Nursing School

Prof. L. Osei
Prof. L Osei
Mrs. E. Tetteh
Mrs. E. Otieku-Boadu

Boards and Committees of the Universities

Senior members served on various Boards and Committees including the Academic Board of the University and the Board of the Medical School.

Ministry of Health

Professors G.A. Ashitey, L. Osei and Biritwum served on Advisory and Technical Committees of the MOH.

Examinations

The following senior members were external examiners

Ashitey, G.A.	School of Public Health, Addis Ababa University West African Postgraduate College
Osei, L.	School of Public Health West African Postgraduate College
Biritwum, R.	School of Public Health University of Sierra Leone West African Postgraduate College

Collaborative Work

Ghana Village Project

The Department continued to play supervisory role over the Ghana Village Project II undertaken by the International Federation of Medical Students Association. Evaluation of the 2-year Project at Ofaakor was completed in December 1996; The Department supervised the Final Long Term evaluation of Project I at Ojobi. A preliminary report has been produced.

University of Alabama Research Training Programme

The Department received the third batch of social work students of the above university, who undertook a 2 - month research training programme in health related fields.

Conclusions/Recommendations

The teaching and research activities were discharged satisfactorily this year. It is strongly recommended that in view of the increasing intake of students, more field stations and logistics as well as staff must be procured.

Department of Haematology

Overview

The Department continued with undergraduate teaching of Medical Students and Diploma in Medical Laboratory students with a high rate of passes. Involvement with postgraduate teaching for doctors and oversight of the Centre for Clinical Genetics also continued.

The number of patients being managed continues to rise. The department is being organised to investigate identified haematological problems in the society.

Staffing Position of Department as at September 1997

- | | |
|-----------------------------|---|
| (a) Academic/Research Staff | 3 |
| (b) Senior Staff | 3 |
| (c) Junior Staff | 4 |

Courses Taught/Number of Students

Course	No. of Student
Level 400	67
1st Clinical Year	76
Diploma in Medical Laboratory Technology	10

Research

- Investigation of Haemolysis in Malaria in conjunction with Department of Paediatrics and DANIDA.
- School age health initiative in conjunction with School of Public Health.
- Prevalence of HCV in Blood Donors
- Natural history of Chronic myelocytic leukaemia in Korle- Bu.

Publications

Acquaye J.K., and Aryee M.E.,

"Blood Demand in a Teaching Hospital in Ghana. West Africa J. Medical 1997, 16,97-10.

Kwarko, H.A, Bentsi, K.

"An Unusual Cause of Priapism." Ghana Medical Journal. 1997, 319,812 - 841

Conferences/Seminars /Workshops Attended

None

Benefactions

The department received marrow aspiration and trephine needles from Barclays Bank.

Visitors

None

Department of Medicine and Therapeutics

Overview

The Department of Medicine and Therapeutics, the second largest department in the Medical School, has 4 units of general medicine with a total of 13 Senior Members. The Department runs courses for undergraduates in their clinical years and also for postgraduates working for higher professional examinations. All Senior Members are also engaged in various research projects in addition to a very heavy service load which entails supervising the day to day activities of a very busy, emergency and referral hospital.

Staffing Position of Department as at September 1997

(a) Academic/Research Staff	13
(b) Senior Staff	5
(c) Junior Staff	7

Courses Taught/Number of Students

The Department, being a clinical department is engaged at any one instance in teaching students from at least 2 if not all 3 clinical years. During the course of the academic year, the Department ran the following courses:

- (a) **Introductory course - Clinical Medicine 1st Clinical Year - 4 weeks.**
This course consisted of daily 1 hour lectures followed by clinical demonstration on the ward in 2 sessions (morning - 2 hours, afternoon - 2 hours).
- (b) **Junior Clerkship - 10 weeks x 2 1st Clinical Year Students**
This is a coordinated course undertaken in conjunction with the Department of Surgery. The course consists of daily 1 hour lectures for 20 weeks in addition to bedside teaching and tutorials in the wards
- (c) **Senior Clerkship - 10 weeks**
This course is provided for students in their final year and is a more concentrated and detailed course in Internal Medicine.
- (d) **Dermatology Course - 2nd Clinical Year Students.**
This course consists of ten 1 hour weekly lectures, and clinical out-patient sessions for small groups for 8 weeks.
- (e) **Postgraduate Programme**
This programme is structured for young medical officers, middle grade doctors and residents who have been formally admitted on to the professional postgraduate course to work for the Fellowship of the West African College of Physicians

<u>Course</u>	<u>No. of Students</u>
(a) Introductory Clinical Course Medicine & Surgery	78
(b) Junior Clerkship in Medicine/Surgery	78
(c) Senior Clerkship in Medicine	56
(d) Dermatology Course	
(e) Postgraduate Course in Internal Medicine	11

Research in the Department

Owusu, S.K. and Amoah, A.G.B.	Diabetes Care Management in Ghana.
Owusu, S.K.	Beta cell secretion, insulin sensitivity and glucose effectiveness in glucose tolerant, non-diabetic first degree relatives of Ghanaian type 2 diabetic patients and healthy control subjects.
Nyame, P.K.	Epilepsy Strokes

- Ofori-Adjci, D. The role of folate deficiency in P. Falciparum malaria - Funded by the Health Foundation, New York, USA.
Monitoring the Efficacy of chloroquine as first line antimalarial drug. Funded by the World Health Organization/Ministry of Health.
Pattern of malaria admissions at the Korle Bu Teaching Hospital - Cerebral malaria in children and adults. Supported by University of Ghana Medical School.
Preparation of formularies and treatment guidelines for different levels of health care professionals based on Ghana's Essential Drugs List. Funded by the Ministry of Health of Ghana.
Drug use intervention studies relating to rational prescribing and dispensing.
Pharmacogenetic studies in collaboration with the University of Aberdeen, Scotland. Funded by Wellcome Trust, incorporating the training of a Ghanaian PhD Student.
Monitoring and Evaluation of the Ghana Diabetes Project. Funded by Eli Lilly S.A. Geneva.
- Mate-Kole, M.O. Ongoing work on Histological features of nephrotic syndrome in Ghana.
Ongoing work of Chronic Renal Failure, Causes in Ghana.
- Addy, J.H. Genetic Epidemiology of Hypertension in collaboration with Dr. Scott Williams, Dept. of Genetics, Meharry Medical College, Nashville, Tennessee.
An ongoing research project entailing field and clinical work in Accra, and laboratory work at Department of Genetics, Meharry Medical College, Nashville and Department of Medicine, Korle Bu Teaching Hospital/ University of Ghana Medical School.
- Affram, R.K. Renal Diseases in Ghana.
Chronic Renal Failure in Ghana, The size and the problem.
Management of HIV AIDS.

- Hesse, I.F.A. Study of the genetic basis and the involvement of the renin-angiotensin system in Familial Hypertension in Ghana.
Incidence of pulmonary tuberculosis in Korle Bu.
The relationship between HIV infection and TB in Korle Bu.
The situation of multi-drug resistant TB in Korle Bu.
Emergency management of Asthma in Korle Bu.
Normal respiratory function indices in Ghana.
The effect of exercise on expiratory flow indices in children in Ghana.
- Addo, H.A. Aquagenic Pruritus - A Clinical Study.
Patch Testing in Contact Dermatitis.
- Amoah, A.G.B. Diabetes Admissions
Stroke Register (with Prof. Nyame).
Diabetes Care Disease Management Project -DCDP(with Prof. Owusu)
Africa America Diabetes Mellitus Study (AADM) (with Prof. Owusu)
Patterns of Heart Diseases in Ghanaians (with Dr. Kallen, NCTC)
Ofei, F. Ghana Diabetes Project
Monitoring and Evaluation; Patient and public attitudes about diabetes
Self-care behaviour among Ghanaian diabetics.
Diabetes foot lesions in Ghana.
- Nkrumah, K.N. Preparation of Protocol for Study of Hepatitis, B & C serology in "at risk group" at Korle Bu Teaching Hospital
Upper and lower gastrointestinal endoscopy for suspected Peptic ulcer diseases, and inflammatory bowel disease.

Publications

Owusu, S.K., Osei, K.
Schuster, D.P., and
Amoah, A.G.B.

"Race and Ethnicity Determine serum Insulin and C-Peptide concentrations and Hepatic Insulin Extraction and Insulin Clearance: Comparative Studies of Three Populations of West African Ancestry and White Americans". *Metabolism* 1997, 46:53- 58

- Owusu, S.K., Nyarko, A., Adubofour, K., Ofei, F, and Kpodonu, J
 "Serum Lipid and Lipoprotein Levels in Ghanaians with Diabetes Mellitus and Hypertension." J. Natl Med Assoc. 1997; 89: 191-196.
- Owusu, S.K. Questions and Answers on Tropical Medicine and Infectious Diseases. Ghana Universities Press. Accra 1997 (a 110 page book on the above topics)
Diabetes in Africa Chapter 10 Edited by Geoff Gill, Jean-Claude Mbanya and George Albertu PSG Communications Ltd Cambridge 1997.
- Nyame, P.K., Awadzi, K., Opoku, N.O., Attah, S.K., Addy, E.T., Luke, B.O., Kshirsagar, N.A.
 "The Safety and Efficacy of Amocarzine in African Onchocerciasis and the Influence of Ivermectin on the Clinical and Parasitological Response to treatment." Annals of Tropical Medicine and Parasitology. Vol. 91. No. 3, 281-296 (1997).
- Nyame, P.K. and Biritwum, R.B.
 "Epilepsy: Knowledge, Attitude and Practice in Literate Urban Population, Accra, Ghana." West African Journal of Medicine Vol. 16 no.3, August- September 1997.
- Ofori-Adjei, D and Arhinful, D.
 "The Effect of Training on the Clinical Management of Malaria by Medical Assistants in Ghana." Soc. Sci. Med. 1996;42(8): 1169-1176.
- Mate-Kole, M.O., Yeboah, E.D., Affram, R.K., Ofori-Adjei, D and Adu, D.
 "Haematolysis in the Treatment of Acute Renal Failure in Tropical Africa: A 20-year Review at the Korle Bu Teaching Hospital." Renal Failure 1996; 18(3):517-524.
- Bosu, W.K. and Ofori-Adjei, D.
 "Survey of Antibiotic Prescribing Pattern in Government Health Facilities of the Wassa West District of Ghana." East Afr. Med. J.

1997; 74(3):138-142.

"A 1-day Survey of Drug Prescribing Patterns in the District General Hospital of the Wassa West District of Ghana." Tropical Doctor 1997; 27: 222-226.

Mingle, J.A.A., Ofori-Adjet, E.,
Ofori-Adjet, D. and Sackey S.O.O.

- "An Outbreak of Influenza A (H3N2) in Accra in 1996. Ghana Medical Journal 1997; 31a:799-801.

Mate-Kole, M.O., Wiredu, E.K. and Addy, J.H.

"Polymyositis and Dermatomyositis Associated with Non-Malignant Systemic Diseases" Ghana Medical Journal, Vol. 30, pp 697-703; 1996.

"Polymyositis and Dermatomyositis Associated with Non-Malignant Systemic Diseases." 1996, 30, 697-703.

Addy, J.H.

"Cold and Posture-Induced Cardiovascular Reactivity in Normotensive Ghanaian," Ghana Medical Journal, 1996, 30, 732-737. Editorial Ghana Medical Journal Vol. 30, 1996, 689-690

'Ghana Medical Journal is now up to date'.

Mate-Kole, M.O., Yeboah, E.D.,

Affram, R.K., Ofori-Adjet, D.,
and Adu, D.

"Haematolysis in the Treatment of Acute Renal Failure in Tropical Africa: A 20-year Review at the Korle Bu Teaching Hospital, Accra. Renal Failure 18(3), 517- 524(1996).

"Blackwater Fever and Acute Renal Failure in Expatriates in Africa." Renal Failure 18(3) 525-531 (1996).

Hesse, I.F.A., and Nuamah,

"Pattern of Outpatient Treatment of Hypertension in Korle Bu Teaching Hospital, Accra." West Africa Journal of Medicine 1997, Vol.16(3), pages 133-138.

Hesse, I.F.A.

"Multiple Lung Abscesses Due to Concurrent Mycobacterium Tuberculosis and Other Necrotizing Bacterial Infections." Ghana Medical Journal. 1996. Vol. 30, pages 751-755.

- Amoah, A.G.B (1996) "Landry-Guillain-Barre-Strohl Syndrome in Pregnancy: Case Report." East African Medical Journal 73: 623-624
- Frimpong Boateng, K and Amoah A.G.B (1997) Delayed Diagnosis and Repair of Total Bronchial Rupture: a Report of Two Cases. East African Medical Journal 74:114-115.
- Brakohiapa, L.A., Quaye, I.K.E., and Amoah, A.G.B et al (1997) "Blood Glucose Responses to Mixed Ghanaian Diets in Healthy Adults." West African J. Med. 16:170-173.
- Osei, K., Schuster, D.O., Owusu, S.K., Amoah, A.G.B (1997). "Race and Ethnicity Determine Serum Insulin and C-Peptide Concentrations and Hepatic Insulin Extraction and Insulin Clearance: Comparative Studies of Three Populations of West African Ancestry and White Americans." Metabolism, 46, 53-58.
- Ofei F., Hurel S., Newkirk J., Sopwith M., Taylor R. "Effects of an Engineered Human TNF- α Antibody (CDP57) on Insulin Sensitivity and Glycaemic Control in Patients with Non-Insulin Dependent Diabetes Mellitus." Diabetes 45:881-885. 1996
- Nyarko A.K., Adubofour K.O.M., Ofei F., Kpodonu, Owusu S.K. "Serum Lipid and Lipoprotein Levels in Ghanaians with Diabetes Mellitus and Hypertension."
- Adubofour K.O.M., Ofei F., Mensah-Adubofour J., Owusu S.K. "Diabetes in Ghana." In Diabetes in Africa, Eds. Geoff Gill, Jean-Claude Mbanya, George Alberti. FSG Communications Ltd., Chap. 10: 83-88. 1997.
- Brakohiapa L.A., Quaye I.K.E., Amoah A.G.B., Harrison E.K., Kennedy D.O., Kido Y., Ofei F., "Blood Glucose Responses to Mixed Ghanaian Diets in Healthy Adult Males." W.A.J.M Vol. 16 No. 3:170-173. 1997.

Conferences/Seminars/Workshops

- Owusu, S.K.
- Africa-America Diabetes Mellitus Genome Project - Inaugural Meeting of Participants. February 11-13. Howard University College of Medicine, Washington, U.S.A.
 - Ghana Medical Association 39th Annual General Conference, October 29 - November 2, 1997, Kumasi.
- Nyame, P.K.
- Workshop on Medical Research in Ghana, May/June 1997 by Ministry of Health. Paper on "Problems of Clinical Research in Ghana."
- HNRAA/DDM/East/Southern Africa Workshop. Regional Workshop in Harare, Zimbabwe on May 26-29, 1997 on "Initiatives in Health Care Financing. Lessons Learnt."
- Symposium on "Resurgence of Tuberculosis in Ghana." West African College of Physicians - July 25th 1997.
- Society of Private Medical Practitioners at Takoradi, 8th August 1997. Paper on "Modern Management of Stroke".
- Update on "Spinal Disorders"; 18-22nd August 1997. Organised by Trust Hospital, Accra and the Hospital for Special Surgery, New York, USA. Chaired a Session.
- Ofori-Adjei, D.
- Scientific Session, Annual General Meeting of Ghana Medical Association, October, 1996. **Role**: Organizer of Scientific Symposium. **Paper**: An Overview of Prescribing in Ghana
- Annual General Meeting, West African College of Physicians, Ghana Chapter, November 1996. **Paper**: "Trends in Clinical Presentation of Malaria at Korle-Bu Teaching Hospital" (Co-author - Dr. Eugenia Ofori-Adjei)
- Workshop on "Strengthening Research in Support of Health Sector Reforms in Ghana". Novotel Accra. February 1997. Role Member of Preparatory Committee and Editor of Workshop Report.
- First International Conference on "Improving Use of Medicines (ICIUM) - State of the Art and Future Directions." Chiang Mai, Thailand, April 1- 4, 1997.

Role Member, International Scientific Programme Committee.
 Chairman, Final Plenary Session
 Papers: 1. "Improving Use of Medicines by Health Providers in Primary Care" (multi-authored Review Paper)
 2. "The Impact of Three Forms of Educational Interventions on Dispensing Practices" (Co- author - Armeyaw, M.M)
 3. "Evaluation of Provider-Client Interaction in the Distribution of Oral Contraceptives by Private Drug Outlets in Ghana Using the Simulated Client Method" (Co-author - Arhinful, D)
 4. "The Impact of Group Development of Treatment Norms on Prescribing at PHC Levels in the Greater Accra Region, Ghana" (Co-authors - Agyepong I, Anum P and Arhinful D)
 Workshop on "Developing Ghana-Dutch Research Collaboration for Development," Amsterdam, The Netherlands, May 1997.
 Role: Preparation of Background Papers and Rapporteur.

Mate-Kole, M.O.

Faculty Board Meeting, Lagos - July 1997.
 West African College of Physicians Meeting, Banjul, The Gambia. November 15 - 20, 1997.

Addy, J.H.

Annual General and Scientific Meeting of the Ghana Medical Association : International Conference Centre, Accra, November 1997.
 International Workshop on "Medical Science Writing, Editing and Peer Review." Organised by the African Journal of Medical Practice in Nairobi, Kenya. 17th to 22nd March 1997.
 International Congress on "Biomedical Peer Review and xGlobal Communication." September 17-21, 1997.

Affram, R.K.

Africa Association of Nephrologist Meeting, Nairobi, Kenya 23-29 September 1996.

Addo, H.A.

Pan African Congress of Dermatology, Abidjan, Cote d'Ivoire, 13-16 February 1997.

- Arnoah, A.G.:B. Workshop on "Diabetes Care for Regional Diabetes Health Care Teams" in Accra, February, 1997.
 Training Workshop for Selected District Health Care Personnel from Southern Ghana, April and June 1997.
 Paper presented on "Medical Aspects of Iodine Deficiency" at a Symposium on Iodine Deficiency as a Health Problem in Ghana organized by the Ghana Medical Association July 1997.
- Ofei, F. 38th Scientific Meeting of the Ghana Association, National Conference Centre, Accra. Paper on "Drug Advertising in Ghana". 7th November 1997.
 Global Medical Conference, Indianapolis, Indiana, USA 18- 20 June 1997.
 American Diabetes Association Conference, Boston, Massachusetts, USA. Organised by American Diabetes Association. 21-24 June 1997.
 16th International Diabetes Federation Congress, Helsinki, Finland. Organised by International Diabetes Federation. Paper: "Challenges of Diabetes Education in Developing Countries". 21-25 July 1997.
 Workshop on "Burden of Disease. The School-Age Child Initiative," Great Hall, Legon. Organised by School of Public Health, University of Ghana, Legon 4-5 September, 1996.
 Workshop on "1st African Course on Problem-based Pharmacotherapy Teaching," Cape Town, South Africa. Organized by University of Cape Town, South Africa. 25 November - 16th December 1996
 Training Workshop for Data Collectors and Data Managers. (T(PT, UGMS, Accra. Organised by Monitoring and Evaluation Group of the Ghana Diabetes Project, Sponsored by Eli-Lily & Co. 21-25 April 1997
 Intensive Care Nursing Workshop, Accra. Organised by Ministry of Health. Paper: "Causes and Management of Hepatic Coma and Diabetes Coma. 17th July 1997.

Workshop on "4th Indepth Training Course on Rational Pharmacotherapy Teaching," The Netherlands. Organised by International Network for the Development of Pharmacotherapy Teaching (INDEPTH), University of Groningen 21-29 August, 1997.

Benefactions

None

Visitors

None

Department of Microbiology

Overview

There were no major changes in the activities undertaken by the Department. The activities comprised mainly undergraduate and Postgraduate teaching, research and provision of laboratory service to the Korle Bu Teaching Hospital generally.

Staffing Position of Department as at September 1997

Senior Members	2 + 2 Part Time
Senior Staff	11 + 1 on contract
Junior Staff	11

Courses Taught/Number of Students

Members of the Department taught the following courses:

- (a) B.Sc. (Medical Science) Level 400 for Semesters 7 and 8. Daily Paraclinical lectures for 66 students.
- (b) DMLT Course II - Semester 3 and 4. Paraclinical lectures for 8 students

- (c) The Department gave lectures in Microbiology to postgraduates from other Departments in the Medical School preparing for Primary Examinations of the West African Postgraduate Colleges.
- (d) The Department participated in teaching Human Biology to Second Year BA/BSc Nursing Students. Weekly Paraclinical lectures for 25 students.

Research in the Department

- (a) Dual HIV-1/HIV-2 Infections in Ghana - Virology and Immunology.
- (b) Search for Markers in Relapsed Cases of Burkitt's Lymphoma.
- (c) Nutritional Status and intestinal parasitism in children in rural environment.
- (d) Epidemiology of Cryptosporidium Parvum infection in rural Ghana. Dr. Mercy Jemuna Newman, Senior Lecturer, while on sabbatical leave in Virginia (USA) during the year, was involved in the following research work:
 - (a) Lactoferrin as a diagnostic marker for inflammatory sexually transmitted disease and acute respiratory infections.
 - (b) Enteroaggregative E. Coli detection by HEp-2 assay
 - (c) Non-invasive gastric acid analysis.
 - (d) Neonatal urinary tract infection and septicemia.

Publications

- Mingle, J.A.A. "HIV-1 and HIV-2 in Ghana, West Africa: Community Surveys Compared to Surveys of Pregnant Women." West African Journal of Medicine, 16 (92) May-June 1997 - 102-108.
 "An Outbreak of Influenza A (H3N2) in Accra," 1997 Ghana Medical Journal, 31a 799-801.
- Newman, M.J. and Anyebuno, A. "Common Causes of Neonatal Bacteraemia in Accra, Ghana." 1995, East African Med. J., 72 805-808.
- Hagan, M, Wright E, Newman, M, Dolin, P., and Johnson, G. (1995) British J., Ophthalmology, 79: 1024 - 1028.
- Newman, M.J. (1996) "Multiple Resistant Salmonella Group G Outbreak in Neonatal Intensive Care Unit" West African J. Med. 15.165-169.

Conferences/Seminars/Workshops Attended

- Newman, M.J. Research day University of Virginia Science Centre
WHO - University of Virginia Collaborative Meeting February 1997.
107th Association of American College, San Francisco, November, 7-12th, 1996.
- American Association of Microbiology. (97th General Meeting), Miami, May 4 - 8th, 1997.

Extension Work

- Mingle, J.A.A. External Examiner in Microbiology - College of Medicine and Allied Health Sciences, University of Sierra Leone.
External Assessor for Promotion of Senior Members at Professional Level - University of Science and Technology, Kumasi.
Resource Person : the School-Age Child Initiative - School of Public Health, University of Ghana.
- Anteson, R.K. Consultant Parasitologist, the Integrated Family Planning.
Nutrition and Parasite Control Project (IP) - PPAG.
Chairman, National Steering Committee of the I.P. - PPAG.
Member, Medical Advisory Board, La Mansaamo Kpee.
External Assessor for Promotion of Senior Member at Professional Level, the University of Sierra Leone.
External Assessor for Promotion of Senior Member at Professional Level, the University of Science and Technology, Kumasi.
External Examiner in Microbiology, University of Science and Technology, Kumasi.
Reviewer
 West African Journal of Medicine
 Ghana Medical Journal
- Newman, M.J. Volunteer and Chairperson of Medical Advisory Board,
Planned Parenthood Association of Ghana.

Member, Advisory Council of the Prison
Ministry of the Presbyterian Church of
Ghana.
Editor, Ghana Medical Journal

Boards and Committees of the University

Senior Members of the Department served on various Boards and Committees including the Academic Board of the University and the Board of the Medical School.

Benefactions

- (a) Terry Fox Run for Cancer Research - Courtesy of Canadian High Commission. Proceeds to support Burkitts Tumour Project of the School.
- (b) ECFMG - Dell Computer and Printer.

Department of Obstetrics and Gynaecology

Overview

The Department of Obstetrics and Gynaecology has been involved in teaching and training Undergraduate and Postgraduate medical students. It played an active part in Midwifery training, and it provided Obstetrical and Gynaecological Services for patients who attended Korle Bu Teaching Hospital. There have also been Research activities in the Department. Four senior members have been conducting clinics and doing minor surgery at Legon Hospital since July 1997.

Staffing Position as at September 1997

Academic Staff - 13

Dr. T.S. Ghosh left for good in November last year

There are also four Consultants who are employed by Ministry of Health.

Dr. B.D.R.T. Annan has been appointed Medical Administrator of the Korle Bu Teaching Hospital

Courses Taught/Number of Students

MB Ch.B Part I 73 students

There were two undergraduate courses - a Junior Clerkship and a Senior Clerkship. The students were in three batches for the Junior Clerkship and they came in two batches for the Senior Clerkship. Their activities included lectures, seminars, tutorials ward rounds and bed side work and emergency duties. They had a 2 week revision course before the MB Ch.B Final Part I examination.

There are 10 postgraduate students at various stages of training. Their activities included Ward rounds, Clinic Work, Operative Obstetrics and Gynaecology, Emergency Duties, Seminars and Tutorials. Revision Course were organised for them before each major examination. They are prepared for the Fellowship examinations of the West African College of Surgeons.

Dr. Agbeka was away in United States of America from 23rd March, 1996 to 4th August 1997 for his external rotation. He came back with the following qualifications:

1. Diploma in Tropical Medicine
 2. Diploma in Travellers' Health
 3. Master degree in Public Health
 4. Masters' degree in Tropical Medicine.
- He is preparing for the Part II Fellowship examination.

Dr. Frimpong - served at Nkwakaw Holy Family Hospital and Akosombo Hospital for a total of six months. He went to Northern General Hospital in Sheffield for a 3 month attachment.

Dr. Anipa served at Nkwakaw Holy Family Hospital and Akosombo Hospital for a total period of six months.

He went to St. Bartholomew Hospital in London for a 3 month attachment

Examinations

August 1997	MB Ch.B Final Part I Examination
No. of Candidates	73
No. of Passes	72
Credits	4
September 1997	MB ChB Final I Supplementary Examination. The only candidate passed the examination.
April 1997	Dr. K. Amofa passed the Part II (Final) examination conducted by the Faculty of Obstetrics and Gynaecology of the West African College of Surgeons.
April 1997	Dr. J. Clayman passed the Primary Fellowship examination.

Research

Obed, S.A.	Perinatal mortality at Korle Bu Teaching Hospital - a critical look at the problem. Prevention of eclampsia.
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Armah, J.O. and Seffah, J.D.	Ultrasonography in Obstetrics and Gynaecology.
Nkyekyer, K.	Non-helical course of the Umbilical Vessels as a Fetal Risk Marker.
Collison, A.H.K.	The cervix in patients with chronic pelvic inflammatory disease.
Lassey, A.T.	Haemoglobin Study in Pregnancy - Dr. A.T. Lassey Epidemiological and Tubal Factors in Ectopic pregnancy - Case Controlled Study. A survey of the Housemanship in Korle Bu Teaching Hospital.
Armah, J.O.	Fetal Monitoring.
Kwawukume, E.Y.	Needs Assessment to Determine the Technical Capacity and Capability of the University of Ghana Medical School and the School of Medical Sciences of the University of Science and Technology to provide Reproductive Health Training that meets national needs and standards. Current Management of Sickle Cell Disease in Pregnancy. Semen morphology and pregnancy. Infection Prevention Practices in the Department of Obstetrics and Gynaecology, Korle Bu Teaching Hospital and Komfo Anokye Teaching Hospital. Surgical Technique to avoid blood loss and blood transfusion in Myomectomy.
Collison, A.H.K.	- The use of chaperons by male doctors during intimate examinations of female patients. -- What female patients think about the use of Chaperons during intimate examination by male doctors.
Collison, A.H.K. and Adanu, R.M.K.	Hysterectomy and blood transfusion.
Wilson, J.B., Collison, A.H.K., Richardson, D., Senah, Kwafie, G.	Prevention of Maternal Mortality.
Annan, B.D.R.T.	Prevalence of Dental disease in pregnancy - Korle Bu Teaching Hospital.

Parity, Birth interval and Family Planning experience of mothers delivered at Korle Bu Teaching Hospital.
Malaria Prophylaxis in Ghana.
Norplant acceptability at Korle Bu Teaching Hospital

Publications

Seffah, J.D. and
Kwawukume, E.Y.

"A Review of Prolonged Pregnancy at Korle Bu Teaching Hospital Accra." Ghana Medical Journal Vol. 30, 719-722 1996

Seffah, J.D. Wilson, J.B
Kwame-Aryee, R.A.,

"The Use of an Oxytocic Agent in the Management of the 3rd Stage of Labour." Ghana Medical Journal. Vol. 31a 785-788 1997.

Collison, A.H.K.

"A Successful Pregnancy in a Patient with a Solitary Kidney" - Ghana Medical Journal Vol. 31a 820 - 822, 1997.

"Tuberculosis of the Endometrium" - Ghana Medical Journal Vol. 31a 815-819, 1997.

Wilson, J.B. Collison,
A.H.K., Kwofie, F., Richardson,
D., Senah, K.A., Tinkorang, E.K.,

"The Maternity Waiting Home Concept. The Nsawam, Ghana Experience." International Journal of Gynaecology and Obstetrics. Vol. 59 (Suppl. No.2) S165 - 172, 1997.

Senah, K.A., Richardson, D.,
Kwofie, G., Wilson, J.B.
Collison, A.H.K.,
Tinkorang, E.K.

"From Abandoned Warehouse to Life-Saving Facility. Pakro Ghana" - International Journal of Gynaecology and Obstetrics Vol. 59 (Suppl No.2) S91-97, 1997.

Lassey, A.T.,

"Caesarean Section prompted by Late Diagnosis of Dead Fetus Due to Multiple Congenital Anomalies." Ghana Medical Journal. Vol. 30; 749, 1996.

Obed, S.A., Armah, J.O.,
Wilson, J.B.

"Advanced Maternal Age and Pregnancy." West African Journal of Medicine. Vol. 14 198-201, 1995.

- Kwawukume, E.Y., Ghosh, T.S., "Vanishing Twins and Ultrasonography." Ghana Medical Journal. Vol. 30. 723-725, 1996.
- Ayebono, M., Kwawukume, E.Y. "Birth Before Arrival at Korle Bu Teaching Hospital, Accra." Ghana Medical Journal. Vol.30. 726- 731, 1996.
- Johnson, T.R.B., Kwawukume, E.Y. Maternal Mortality: "An International Perspective - Intrapartum Obstetrics." Repke, J.T. Churchill Livingstone. New York. 1st edn. PP 541-553, 1996.
- Kwawukume, E.Y., Ghosh, T.S., "Extra Peritoneal Hypogastric Artery Ligation in Control of Intractable Haemorrhage from Advanced Carcinoma of the Cervix and Choriocarcinoma." East African Medical Journal. Vol. 73 PP 147-148, 1996.
- Jumah, K.B., Collison, A.H.K., "Comparative Study of Hysterosalpingography and Laparoscopy in the Management of Infertility in Ghanaians." - Ghana Medical Journal. Vol. 29, No. 1. 625-629, 1995.

Conferences/Seminars/Workshops

- Nkyekyer, K. "Reproductive Health Research Methods Course" - Baragwanath Hospital, Johannesburg, South Africa 21st July 1997 - 15th August, 1997.
- All Senior Members "Annual Conference and Scientific Session of the Society of Gynaecologist and Obstetricians of Ghana - April 1997.
Papers read.
- Seffah, J.D., Ghosh, T.S. - "Primary amenorrhoea with Normal Breasts Development Diagnosis and Social Implications."

- Collison, A.H.K. and Obed, S.A. "Annual Conference and Scientific meeting of the West African College of Surgeons" Dakar, Senegal 23rd February 1997 1st March - 1997.
Paper read:
- Obed, S.A., "Determinants of Maternal Mortality in eclampsia at Korle Bu Teaching Hospital, Accra."
"Morbidity and Mortality from Uterine Perforation in Induced Abortion at the Korle Bu Teaching Hospital, Accra."
- Collison, A.H.K. Was elected Chairman of the Faculty of Obstetrics and Gynaecology for a second term in office.
- Seffah, J.D. Ghana Surgical Society Meeting - April 1997.
Paper Read: A Review of PalrhLPJ 'H@Hd Nkyeyjer, K. Ghana Surgical Society Meeting, KATH, Kumasi, 6th December, 1997.
Papers read:
- Seffah, J.D., Ghosh, T.S. - "Burst Abdomen - Management with Smead Jones Method of Abdominal Closure."
- Nkyeyjer K. "Arrival in the Labour Ward in the Second Stage of Labour Any prognostic significance?"
- Seffah, J.D. Ghana Society of Anaesthetists meeting, Korle Bu Teaching Hospital, November, 1997.
Paper read: **Maternal and Fetal Complications of Diabetes in Pregnancy.**
- Collison, A.H.K., Wilson, J.B. and Apea-Kubi, K.A. 15th World Congress of the International Federation of Gynaecologists and Obstetricians (FIGO) Copenhagen, Denmark - August 1997.
- Wilson, J.B. First World Congress on Maternal Mortality - Marrakesh, March 1997.
Paper read: **Preventing Maternal Mortality - The West African Experience.**

**Workshop for USAID Health Officers,
Nanjiki, Kenya. June 1997.**

Paper read: **Improving Emergency
Obstetric Care to reduce maternal
mortality.**

Wilson, J.B. and Collison, A.H.K.

Miru Conference on "Preventing Maternal
Deaths in Ghana. The PMM Experience."

Paper read:

**a. Quality of Care - Receivers perceptions
b. Community interventions - Maternity
Waiting Home.**

**c. Nsawam Experience Lessons learned
and future direction**

a. Quality of Care Hospital inventory
b. Improving quality of Care - an intervention

Collison, A.H.K., Armah, J.O.,

Apea-Kubi, K.A., Annan, B.D.R.T.

and Kwawukume, E.Y.

"Contraceptive Teaching Update" Workshop
organised by University of Ghana Medical
School and the School of Medical Sciences of
the University of Science and Technology
in collaboration with JHPIEGO, March 10-
15 1997. Koforidua.

Clinical Training Skills for Reproductive
Health Professionals - 2nd - 13th June, 1997.
Koforidua.

Instructional Design Skills Workshop for
Reproductive Health Professionals
September 12st to October 3rd. 1997.
Koforidua.

Lasley, A.T., Nkyekyer, K.,

Seffah, J.D. and Obed, S.A.

Second Clinical Training Skills Workshop
for Reproductive Health Professionals.

November 16-28th 1997. Drs. A.H.K. Collison,
B.D.R.T. Annan and E.Y. Kwawukume
were facilitators

Obed, S.A.

"Adolescent Reproductive Health" Seminar -
Tema. September, 1997

Wilson, J.B.

Conference on "Women's Health and
Development." Canadian Society for
International Health. Ottawa, Canada.
November, 1997.

Symposium on "Socio-Cultural Factors Underlying Maternal Mortality and Medical Consequences " University of Newfoundland. November, 1997.

Lassey, A.T. "Advanced Fistula Surgery Course" - Addis Ababa Fistula Hospital, Ethiopia - September, 1997.

Annan, B.D.R.T. "Contraceptive Technology Update for Health Workers." Ghana Social Marketing Foundation - December 1996.
Ghana Health Insurance Scheme. "Accreditation Instrument update" - August 1997.
Seminar on "Infection Prevention - Private" Medical and Dental Practitioners Society of Ghana May 1997.
Ministry of Health/Universities Workshops on "Strengthening Research in Support of Changes in Health Sector." Vision 2020 - February, 1997
"Lactation Management Course for Health Workers" - November 1996.

Collison, A.H.K. Training of Trainers Workshop on "Safe Motherhood Clinical Management Protocol" - Ministry of Health - November 1996.
Workshop on "Needs Assessment and Curriculum Development for a Diploma in District Hospital Practice" - West African Postgraduate Medical College. 3rd - 5th December, 1997.

Examinerships

Collison, A.H.K., Wilson, J.B. and Armah, J.O. Fellowship Examinations. Faculty of Obstetrics and Gynaecology, West African College of Surgeons.

Klufio, C.A. and Wilson, J.B. MB ChB Final Part I examination, School of Medical Sciences. University of Science and Technology, Kumasi.

Apea-Kubi, K.A., Lassey, A.T. and Obed, S.A. National Midwifery Examinations

Workshops and Courses Run in the Department

- Collison, A.H.K. and Peterson,
Post Abortion Care (PAV) training for four
Burkinabe Physicians - September, 1997.
- Armah, J.O. and Seffah, J.D.
Training Courses in "Clinical Ultra-
sonography for Medical Officers - November
1997.
- Armah, J.O., Annan, B.D.R.T.
and Collison, A.H.K.
Training of Doctor/Nurse Teams in
Minilaparotomy and Norplant Implant
Insertion and Removal."
- Lassey, A.T.
Breastfeeding Workshops for Health providers
from Korle Bu Teaching Hospital and
Mamprobi Polyclinic sponsored by UNICEF.
- 6 Workshops from September 1996 - March
1997.
- Armah, J.O. and Seffah, J.D.
Practical training on "Ultrasonography in
Obstetrics and Gynaecology for Medical
Officers."

Visitors

Dr. Robert Fraser from University of Sheffield visited us in April 1997. He helped with Revision Courses for postgraduate doctors preparing for the Part I and Part II Final Fellowship examinations of the West African College of Surgeons.

Professor E.O. Akande, Programme Manager, Special Programme of Research, Development and Research Training in Human Reproduction, WHO, Visited us on 13th May, 1997 to discuss areas of possible collaboration between their programme and our Department within the context of their mission goal of supporting capacity building for research in reproductive health.

Dr. Thomas E. Elkins from John Hopkins University and Dr James Blythe from St. John's Merry Medical Center, St. Louis visited us in May, 1997 and October, 1997 respectively in connection with the Carnegie - Ghana Postgraduate Programme in Obstetrics and Gynaecology.

Dr. R. Walley from Grace General Hospital, Newfoundland, Canada visited us on 19th November, 1996 and again on 1st December, 1997 to discuss a fistula project and research into the management of postpartum haemorrhage.

The Minister of Health, Honourable Dr. Eunice Brookman Amussah visited us in March, 1997 to acquaint herself with the problem of overcrowding in our wards and at the clinics.

Main Problems

On 23rd March the storm that hit Accra ripped off the roof from the part of our building that houses the Neonatal Intensive Care Unit (NICU) and the labour wards and as a result babies needing intensive care were transferred to one end of the third floor maternity ward which was converted into a temporary NICU.

We have had frequent breakdown of our lifts and therefore difficulties in moving pregnant patients around in the maternity block.

We have had occasional water shortage making work in the Department and especially in the labour wards and theatres very unpleasant.

Department of Pathology

Overview

The Department of Pathology started the year very proactive. All Senior Members and Senior Staff had gone through a SWOT Analysis of the Department and an internal memorandum had been prepared aimed at confronting our weaknesses, motivating staff and taking advantage of opportunities. Great strides have been achieved in the service provision to the delight of all our Clinical colleagues.

The teaching load continued to increase.

- (a) Two Semester General and Systemic Pathology Courses at Level 400.
- (b) Forensic Pathology at MB ChB Part I Level.
- (c) Autopsy technique at MB ChB Part II.
- (d) Two Semester Diploma in Medical Laboratory Technologist Course.
- (e) BSc Nursing course.
- (f) Critical Care and Preoperative Nursing Course.
- (g) Diploma in Ophthalmology.
- (h) Postgraduate Basic Science Course and the
- (i) Intradepartmental Postgraduate Teaching Programme which comprises a biweekly journal analysis and seminar and a weekly black box (Surgical Pathology on-slide teaching).

To this will be added the new vertical integration special Pathology Course for MB ChB Final Part I and II which would involve student centered weekly Clinico-Pathological conferences.

Dr. Daniel Osei was appointed as a Research Fellow and he is due to start in January, 1998.

The year was spent reorganising our postmortem data. A database on 10,000 autopsies (1994 - 1996) has now been established and the 1997 data is now being collated for a comparative study postmortem as an Epidemiological tool in Ghana.

The major causes of death in Ghana have been established from the data and the surgical Pathology data is also being reorganised to reflect some aspects of morbidity in Ghana.

The Department is collaborating with the NMIMR and the Department of Paediatrics in a Danida sponsored Malaria Research Project

Retrospective research into Female Genital Schistosomiasis, Male Breast Cancer, Gestational Trophoblastic Diseases and Cervical Cancer are in progress and proposals on prospective autopsy studies on the following are in preparation:

- (a) Causes of splenomegaly in Ghana.
- (b) Causes of cardiomegaly in Ghana.
- (c) Organ distribution of miliary tuberculosis.
- (d) HIV status of patients with miliary tuberculosis and tuberculous meningitis
- (e) Renal diseases in Ghana.
- (f) Seasonal variations in Pyogenic and Tuberculous meningitis

Drs. Yao Tettey and E.K. Wiredu continued their work on Placental Pathology and Still Births.

Challenges for the future include ongoing discussions with the Royal College of Pathologists to support the Department as a Reference Laboratory in the West African Subregion. It is hoped that would bring with it support for an Immunocytochemistry Laboratory

Staffing Position of Department as at September, 1997

- (a) Academic Research Staff-4
- (b) Senior Staff-3
- (c) Junior Staff-5

Courses Taught/Number of Students

Course	No. of Students
Level 400	73
MB ChB Part I (Forensic Pathology)	72
MB ChB Part II (Autopsy)	65
DMLT	4
BSc Nursing	25
Postgraduate Basic Science Course	8
Diploma Ophthalmology Course	15

Research

- (a) Postmortem as an epidemiological tool.
- (b) Female Genital Schistosomiasis
- (c) Male Breast Cancer
- (d) Gestational Trophoblastic Disease
- (e) Autopsy Study of Chorocarcinomas

- (f) Cancer of the Cervix
- (g) Cancer morbidity and mortality
- (h) Causes of renal disease - an autopsy study
- (i) Immunopathology of malaria
- (j) Tuberculosis
- (k) Placental Pathology and Still births

Publications

Lassey A.T., Tettey Y., Kesse W.K.

(1996) "Caesarian section prompted by late Diagnosis of Dead Fetus Due to Multiple Congenital Anomalies. Ghana Medical Journal ; 30 :749 - 751.

Mate - Kole M.O., Wiredu E.K.
Addy J.H.

(1996). "Polymyositis and Dermatomyositis Associated with Non-Malignant Systemic Diseases. Ghana Medical Journal; 30 : 697 - 703.

Tettey , Y, and Wiredu E.K.

(1997). "Autopsy Studies on Still Birth in Korle-Bu Teaching Hospital. Pathological Finding in Still Births and their Placentae." West African Journal of Medicine 16 (1) : 12 - 19.

Tettey, Y.

(1997). "Choriangioma of Placenta - A Case Report." Ghana Medical Journal ; 31 : 823 - 85.

Conferences/Seminars/Workshops

Akosa, A.B.

South African Congress of Dermatologist Conference in Johannesburg April, 1996.
Paper read: The sweat gland in inflammatory dermatosis.
Association of Professors of Pathology UK meeting Newcastle UK November, 1997. Invited as guest of the President of the Royal College of Pathologists UK. Professor RMN MacSween.

Wiredu, E.K.

21st Annual General and Scientific Meeting of the West African College of Physicians Freetown, Sierra Leone 18th - 20th November, 1996.

Tettey, Y.

21st Annual General and Scientific Meeting of the West African College of Physicians Freetown, Sierra Leone 18th - 20th November, 1996.

Seminar on "Grantsmanship" - GIMPA, 3rd - 5th December, 1996.

Workshop on "Burden of Disease" - Organised by the Public Health School - University of Ghana, 4th - 5th September, 1996.

Seminar on "Malaria Research in Ghana." Organised by the Noguchi Memorial Institute for Medical Research 25th - 26th March, 1997.

Priority identification workshop on the "School Age Child Health Initiative" - School of Public Health, University of Ghana, 16th October, 1997.

"The School - Age Child Health Initiative" - priority setting workshop. Organised by the School of Public Health, 4th December, 1997.

Benefactions

Unilever donated a Photomicroscope and a Fluorescent Microscope to the Department.

Social Security Bank also donated a Photomicroscope to the Department.

Professor Akosa donated a Muratec 4500 A4 paper Fax machine to the Department.

Visitors

Professor Elesha, Head of Department of Morbid Anatomy, University of Lagos Medical School and Chief Examiner (Pathology) of the Faculty of Laboratory Medical, West African College of Physicians was our external examiner.

Invitations

Professor Akosa was invited as External Examiner for Pathology at the School of Medical Sciences, Kumasi in May, 1997.

Dr. R.K. Gyasi was also invited as an External Examiner for Pathology at the School of Medical Sciences, Kumasi in September, 1997.

Department of Pharmacology

Overview

The 1996/97 Academic year was uneventful, permitting the Department to run its academic programme without interruption.

The year started and ended with the same staff strength (both academic and technical). The tutor : student ratio (1:24) was poor but despite this, the students' performance at the BSc. (Medical Science) Level 400 Examination was very satisfactory; 2 out of 72 students failed in Pharmacology as a subject three were referred in a course.

The large number of students per practical set-up (20:1) is unacceptable. This unsavoury situation, occasioned by inadequate teaching equipment, made the practical class disinteresting to many a student. The Department needs additional teaching equipment.

The lack of research equipment serves as a major disincentive to faculty; research proposals remained on paper and research activity stalled. The Department is yet to receive a recorder under the IDA assistance, while effort by the Department to acquire equipment has not been successful as yet.

National Investment Bank contributed fifteen million cedis (€15m) towards the rehabilitation project in the Department which is nearing completion.

The Department submitted a proposal for BSc. (Hons.) programme to commence in 1998/99 academic year. The BSc. Course is the first phase of a programme for local training and development of academic staff.

Staff Position of Department as at September 1997

(a)	Academic/Research Staff	3
(b)	Senior Staff	3
(c)	Junior Staff	3

Course Taught/Number of Students

Course	No. of Students
Medicine	
BSc. (Medical Science) Level 400	67
Dentistry	
BSc. (Medical Science) Level 400	5
Nursing	
Diploma in Nursing	20
Postgraduates	10

Research

- (a) Screening of medicinal plant for their therapeutic potential.
- (b) Screening of foods of animal origin for antimicrobial residues.

Publications

None.

Conferences/Seminars/Workshops

Dr. A.B.A. Prempeh: First African course in Problem-based Pharmacotherapy Teaching. 25th November - 6th December 1996.

Benefactions

National Investment Bank € 15 million.

Visitors

Dr. A. Sowunmi, Head of Pharmacology Department, University of Ibadan, Nigeria. He served as External Examiner for the BSc. (Medical Science) Level 400 Examination in Pharmacology.

Department of Physiology

Overview

The Department continued to exist despite the slow attrition. One senior member, Dr. K.K. Atsina was granted study leave during the last quarter of the year, reducing the number of staff further.

Morale has, however, been better this year. All in all, the Department functioned satisfactorily and just met all its obligations. There is a need for recruitment of more academic staff.

Staff Position as at September, 1997

Academic Staff

Professor	1 (on contract)
Senior Lecturers	2 (both with responsibilities in other depts.)
Lecturer	1
Research Staff	0

Senior Staff

Principal Technician	2 - 1
Senior Technician	1

Junior Staff

Assistant Technician	4 - 2
Secretarial Staff	2

Course Taught/Number of Students

Course	No. of Students
BSc (Medical Science) Level 300	
PHYG 301	84
PHYG 302	84
PHYG 304	84
PHYG 306	84
PHYG 308	84
Diploma in Medical Laboratory Technology	
PHYG 001-8	14
BSc Nursing Level 200	
NURS 202	32
Diploma Part I Nursing	8

Research

Addae, S.K. and
Hesse, I.F.A.

Medical History of Ghana

Study of the genetics basis and the involvement of the renin-angiotensin system in Familial Hypertension in Ghana.
Incidence of pulmonary tuberculosis in Korle-Bu.

The relationship between HIV infection and TB in Korle-Bu.
The situation of multi-drug resistant TB in Korle-Bu.
Emergency management of Asthma in Korle-Bu.
Normal respiratory function indices in Ghana.
The effect of exercise on expiratory flow indices in children in Ghana.

Antwi, D. A study of Physiological correlates of physical activity using A single question method.
Effect of meal frequency on serum lipids in healthy volunteers
The effect of physical exercise on plasma cholesterol profile in healthy sedentary subjects versus volunteers in physical training.

Publications

Addae, S. History of Western Medicine in Ghana; 1880 - 1960
Evolution of Modern Medicine in a Developing Country; Ghana 1880 - 1960

Hesse, I.F.A. and Nuama, I. - "Pattern of Outpatient Treatment of Hypertension in Korle-Bu Hospital, Accra." West Africa Journal of Medicine, 1997, Vol. 16 (3), pages 133-138.

Hesse, I.F.A. "Multiple Lung Abscesses Due to Concurrent Mycobacterium Tuberculosis and other Necrotizing Bacterial Infections." Ghana Medical Journal. 1996, Vol. 30, pages 752-755.

Antwi D.A., Kaslow R.H. and Narinder, S. Neuroendocrine Influences in Models of Animal Obesity.

Conferences/Seminars/Workshops

Addae, S.K. Conference on "Medicine and the Colonies" held at Oxford University, July 1996.

Antwi, D. FACEB (Federation of American Societies for Experimental Biology) congress Annual Meeting in Washington DC (April 14th - 17th, 1996)

Benefactors

None.

Department of Psychiatry

Relocation

The relocation of the Department from the Accra Psychiatric Hospital to Korle-Bu continues to be one of the main preoccupation of members of the Department. As at now no definite information is known as to when building works on the new Academic Department will start at Korle-Bu. We continue to hope in optimistic anticipation.

Perennial Problems

- (i) Unreliable delivery of mails to and from Korle-Bu.
- (ii) The late arrival of students to the Accra Psychiatric Hospital for Clerkship.
- (iii) Limited accommodation facilities for both staff and students.
- (iv) The inadequate number of residents and lecturers in Department is a constant source of worry to all Senior Members.

Retirement of Professor C.C. Adomakoh from the Department officially would be a loss to the Department and would further create more crisis in personnel. He will be greatly missed and the Department wishes him happy retirement.

Courses Taught/Number of Students

Courses

- (a) Medical Psychology for the Junior Clerkship in Community Health
- (b) Assessment in Clinical Psychology, (M.Phil 1, Clinical Psychology)
- (c) Practicum training in Clinical Psychology for M.Phil 2
- (d) Professionalism and Ethics, for M.Phil 1, Clinical Psychology
- (e) Substance Abuse, in Science and Technology, MA course, LECIA

Service Responsibilities

The provision of medical/psychiatric care to many inpatients and large numbers of outpatients are carried out dutifully by staff but under immense stress because of the poor and trying conditions that staff must work in, not to mention the low staff-patient ratio.

Academic Programme

We continue to offer lectures and clinical instructions during clerkship to both junior and senior years. We are updating syllabuses and programmes we offer to students to prepare them fully so as to be confident enough to

manage basic psychiatric problems which incidentally form about 60% of outpatients seen in General Hospitals and Clinics.

Research

A number of research projects are either on-going or completed. Also the numbers of publications from staff this year have been encouraging.

In Clinical Psychiatry there have been projects/supervision/publications involving senior members:

- Ewusi-Mensah, I. The Impact of Displacement on Refugee Mental Health. (ref. Liberian refugees in Budumburam), May 1996. Project designed to determine:
Stress levels of refugees living in settlement camps.
Life experiences of bereavement as a psychological stressor in refugees.
Coping strategies adopted by refugees.
Instrument : The Harvard Trauma Questionnaire. With Sylvia Child
Postgraduate student in Psychology, York University, Canada.
Supervision
The Indigenous Treatment of Mental Illness in Ghana from World War II to the present and its impact on Public Health Policy.
With Maame Ewusi-Mensah. Undergraduate in the Arts, Harvard University. U.S.A. May 1996.
- Ofori-Atta, A. L. Patient Profile of the psychology unit of the Accra Psychiatric Hospital
Baseline study of alcohol Consumption Patterns in 4 communities of the Upper West Region.
Factors which affect patient acceptance back into family after psychiatric hospitalization.
- Dua, A.N.and Sefa-Dedeh, A. Multi-country study on Visual Perception and Cognition among school-aged children, related to health. The study involves Ghana, Kenya and Tanzania. The Ghana team is sponsored by W.H.O./Partnership For Child Development.
M.Phil thesis : Cognitive style in Depressives
A study of symptomatic and remitted Unipolar Major Depressives of the Accra Psychiatric Hospital.

Publications

- Turkson S.N.A., "Psychiatric Disorders among University Students 1987-1994." Ghana Medical Journal Vol.30, December, 1996.
- Turkson S.N.A. and Dua, N. "A study of Psychiatric Referrals in Accra, Ghana". Ghana Medical Journal Vol.30, December, 1996.
- Turkson S.N.A. and Asante, K. "Psychiatry Disorders Among Offender Patients in the Accra Psychiatric Hospital". West African Journal of Medicine Vol. 16 No.2 May-June, 1997.
- Turkson S.N.A. and Asamoah, V. "Common Psychiatric Disorders Among the Elderly Attending on General Psychiatric Outpatient Clinic in Accra, Ghana: A five year Retrospective Study (1989-1993)". West African Journal of Medicine Vol.16 No.3 August-September, 1997.
- Ofori-Atta, A.L. and Sefa-Dedeh, A. "Gender Issues in Health Care overlap with those surrounding the Mental Health Needs of Communities or could they be the same thing? A Needs Assessment Study in the Upper West Region of Ghana".
Source : Submitted in September 1997, to the SAPES, a Southern African Academic Journal on Social Issues.
"Professionalism, Ethics and Gender in Health Care Provision." Source: DANIDA Documentation, Accra Office, February, 1997.
"The Communication Skills Workshop".
Source : HSSP, Danida Documentation, Accra Office, Oct. 1996.
"Community Mental Health for Community Development Workers".
Source : HSSP, Danida Documentation, Accra Office, Feb., 1997

Conferences/Seminars/Workshops

Ewusi-Mensah, I.-

Workshops :

Attended workshop on "Teaching of Drug Addiction in Medical Schools from a Global Perspective in Abidjan, Ivory Coast.

Under the auspices of (U.N.D.C.P.) United Nations Drug Control Programme November 1996.

Attended workshop on "Communication Skills" organised by Drs. A.O. Ofori-Atta and Sefa-Dedeh for Nurses, Doctors, and Administrators in the Upper West Region.

Organized workshop on "The Concept and Treatment of Mental Illness in African Traditional Psychiatry" at Biriwa.

Attended by Psychiatrists and Medical Anthropologists from University of Basle, Switzerland, and a participant from Department of Religions, University of Ghana Joint project between Basle and Department of Psychiatry, University of Ghana Medical School (UGMS) currently under consideration of which the Medical School will be officially informed in due course.

Also plans to establish Centre for Medical Anthropology and Psychiatry are being considered pending availability of funding from Switzerland. The School will be informed accordingly.

Supervision

Factors determining the selection of traditional or orthodox treatment of mental illness by patients/relatives. With Brandes Butler - Undergraduate in Psychology, Harvard University, U.S.A. - November, 1997. The Indigenous Treatment of Mental Illness in Ghana from World War II to the present and its Impact on Public Health Policy.

This was done with Maame Ewusi-Mensah, an Undergraduate student in the Arts, Harvard University, U.S.A. May 1996.

Ofori-Atta, A.L.
Conferences

Partnership Africa : Reshaping Swedish Foreign Policy towards Africa. Abidjan,

February 1997. Paper presented : Letter to Sweden - regarding the Aid relationship, development issues, and the need for more openness in partnership.

Stockholm, June 1997 Paper presented : 2nd letter to Sweden : regarding the terms of equal partnership.

Annual General Meeting of the World Bank :Hong Kong September 1997 series of meetings on corporate responsibility in social and community issues.

Workshops

Communication Skills Workshop, October, 1996

Gender, Professionalism and Ethics, February, 1997 These were organized and given by Drs. A.L. Ofori-Atta and Sefa-Dedeh to Nurses, Doctors and Administrators in the Upper West Region.

Mental Health for Community Development Workers. This was organized with Dr. Ohene. Trained Medical Assistants from the Upper West Region in Psychiatry together with Drs. A. Sefa-Dedeh, S. Ohene, Ewusi- Mensah, J.B. Asare and Prof. Adomako.

Dua, N.A.

Workshops and Extension Work:

Meeting on Final Analysis of the Multi-Country Study on Visual Perception and Cognition among School-Aged Children, Related to Health education" held at Kisumu, Kenya 16th - 25th April, 1997. Sponsored by W.H.O. (DRD)/Partnership For Child Development.

Workshop on "Adolescent Reproduction Health" held at Y.M.C.A., Accra, Ghana". July 7th - 8th, 1997. Paper read: "Drug and Alcohol Abuse Among Youth."

FIDA Workshop on "Domestic Violence". Novotel, Accra, Ghana , July, 15, 1997.

PPAG Family Life Education Week. Symposium on "The Youth's Responses to the Challenges of Their Time. Y.M.C.A., Accra 23rd September, 1997.

Sefa-Dedeh, A.

Workshops

Communication Skills Workshop, October, 1996

Gender, Professionalism and Ethics, February, 1997. These were organized and given by Drs. A.L. Ofori-Atta and Sefa-Dedeh to Nurses, Doctors and Administrators in the Upper West Region.

Hosted the Annual Research Review Meeting of the WHO TDR Taskforce on the School-aged Child in Accra, August, 4-8.

Papers Presented: "Supervision, Mental Development, and the Media." Presented at the Ghana National Commission on Children's Workshop on Children's Rights, June 1997.

"Witchcraft Mentality in Ghana: Attribution for Emotional Turmoil and Assertion of Power and Mastery." Presented at the Tamale Institution for Cross Cultural Studies' Conference on Witchcraft and Development, May 1997

"Stress Management for the Dentist." Paper presented at the Ghana Dental Association's Annual Dental Congress, June 1997.

Department of Radiology

Overview

The department of radiology at the Korle Bu Teaching Hospital has 4 general purpose radiography equipment; tomographic unit, 3 fluoroscopic screening machines, angiography, ultrasound and computed tomography CT suite. In addition, the chest clinic and the Korle Bu Polyclinic have general purpose equipment. There are two mobile machines and one dental equipment.

Staffing Position of Department as at September 1997

(a) Academic/Research Staff	3
(b) Senior Staff	Nil
(c) Junior Staff	Nil

Courses Taught/Number of Students

Course	No. of Students
Level 300	Nil
Level 400	Nil
1 st Clinical Year	Nil
MB ChB Pt.I	80
MB ChB Pt.II	80

Research in the Department

Jumah, K.B.	Value of Brain CT in psychiatric patients. Brain CT in the evaluation of strokes in Ghanaians. Value of Brain CT in patients with seizures. Bone Age Atlas in West Africans Case Report Calcification of Posterior urethral valve.
Kotei, C.N.	The use of ultrasound in measuring spleen size in sicklers.

Publications

Jumah, K.B. and Gordon-Harris, L.	"Common Faults in Filling of Radiological Request Forms." <u>East African Medical Journal</u> Vol.12, No.2, 1996. "Case Report - An Unusual Presentation of Tuberculosis of Skull Vault."
Jumah, K.B,	"Case Report - An Unusual Complication in a Diabetic after Lohexol (Omnipaque) Lumbar Myelography." <u>West African Journal of Radiology</u> Vo.4, No.1, 1997; 2-4.
Jumah, K.B., Gordon-Harris, L. and Nzeh, D.	"Study of Common Faults in Radiological Reports as Seen By Requesting Clinicians."
Jumah, K.B. and Pupilapu, B.	"Review of Myelograms in Evaluation of Spinal Lesions Prior to Advent of Computed Tomography (CT) Scan in Ghana." Accepted for publication 2 nd April, 1997 - <u>West African Journal of Medicine</u> .

Conferences/Seminars/Workshops

- Jumah, K.B.** Annual scientific meeting, West African College of Surgeons, Sierra Leone, January 1996 paper presented - "Radiological Investigation of Infertility. A multidisciplinary approach."
Annual scientific meeting, West African College of Surgeons, Dakar, Senegal February 1997 - "Chest imaging of the intensively cared patients."
West African Association of Radiologists Scientific Meeting - Port Harcourt, April, 1997 - "Value of CT in Psychiatric Patients."
East African Neuro-Radiologist conference, Kampala, Uganda Oct., "1997 Brain CT in the Evaluation of Strokes in Ghanaians."
Co-ordinator for National Training Programme for Obstetric Ultrasound June, October, 1997.
- Kotel, C.N.** Co-ordinator Ultrasound workshop organised by the Department Surgery School of Medical Sciences, KNUST.
Conference in Germany - October, 1997.
- Brakohiapa, W.O.** Co-ordinator for National Training Programme for Obstetrics Ultrasound June, October, 1997.

Benefactions

None.

Visitors

None.

Department of Surgery

Overview

The Department of Surgery with its 680 beds and 16 units is the largest Academic Surgery Department in the West Africa and probably Black Africa.

The department is in need of new equipment for Urodynamics studies, Extracorporeal shock wave treatment of Kidney Stones and Radiotherapy, Laser surgery Laparoscopic surgery (Key Hole Surgery) etc.

The Paediatric Theatres need renovation. We also need equipment for the Resuscitation and Crash room of the Accident Services Centre and for Arthroscopy etc. We need new surgeons, increased number of specialists, residents and housemen for teaching research and service on the various specialised units. There is general shortage of anaesthetists to assist surgical interventions teaching and research.

There is urgent need for offices for the Departments of Surgery and Anaesthesia. We also need research rooms and equipment for Laboratory research.

Staff

(a) University Full Time Academic/Research Staff	19
(b) On Sabbatical Leave	1
(c) Part Time Lecturers	4
(d) Research Assistants	3
(e) Senior Administrative Assistant	1
(f) Secretarial Staff	2
(g) Messengers	2

Academic Programmes

Undergraduates

(a) 1st Clinical Year (Junior Clerkship)	72
(b) MB. ChB Part II (Senior Clerkship)	73
(c) Passed in Surgery 1997 Final Part II	55
(d) Supplementary October 1997 Final Part II	3 c/p
(e) Graduate	0

Postgraduate/Residency Programme

(a) Part I and II FWACS	13
(b) Preparing for Primary FWACS	6
(c) Residents preparing for Part I FWACS	3
(d) Residents preparing for Part II FWACS	9
(e) Residents Specialities are as follows:	
Surgery	6
Ophthalmology	2
Cardiothoracic Surgery	1
Paediatric Surgery	1
Neurosurgery	1
Urology	1
Plastic Surgery	1

83% Pass Rate in West African College of Surgeons (WACS) Examinations in October 1997 from Department of Surgery

5 of 6 Candidates i.e. 83% passed in the WACS Examination held in Ibadan in October 1997. The candidates are:

Dr. (Mrs) Edith Ackuako	Final Part II	Ophthalmology (Specialist Ophthalmologist)
Dr. N. A. Adu Aryee	Final Part II	Surgery (Surgeon)
Dr. Segbenu (C. K. Amenuveve)	Part I	Surgery
Dr. (Mrs) V. A. Essuman	Part I	Ophthalmology
Dr. K. Poku	Primary	FWACS Surgery

Higher Degree

Doctor of Medicine in Surgery University of Ghana.

For the first time Dr. S. B. Naaeder, a Senior Lecturer in Surgery was awarded M.D., University of Ghana at the 1997 Congregation.

Conferences

The members of the Department of Surgery attended several local and international conferences and presented various papers.

1. Members participated fully in the West African College of Surgeons 37th Annual Conference in Dakar, Senegal February to March 1997.

Afua Hesse	Read a paper on Intussusception
Yeboah, E.D.	Read a paper on the uses of Trans-rectal Ultrasound in the Diagnoses of Prostate Diseases.
Darko, R	Read a paper on "Complications of Gall Bladder Surgery"
Naaeder, S.B.	Read a paper on "One Stage Resection of Sigmoid Volvulus".
Baako, B.	Read a paper on uses of Adjuvant Chemotherapy in the Treatment of Breast Cancer.

2. Joint Meeting of Ghana Surgical Research Society and Club of 60 British Association of Surgeons. This was the first such meeting in Ghana held on 27th - 29th September 1997.

Yeboah, E.D.	Read a paper on 110 Iatrogenic Injuries of the Genito-Urinary Tract.
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Darko, R. Read a paper on "Complications of Gall Bladder Surgery".

Archampong, E. G. Read a paper on "Post Graduate Residency Training in West Africa".

3. 24th World Congress Conference of International Urological Society Montreal 6/9/97 to 12/9/97.
Prof. E. D. Yeboah, Dr. R. Darko and Dr. Bentsi read a paper on 110 cases iatrogenic Injuries of Genito-Urinary Tract in West Africa.
Prof. J. K. M. Quartey gave a State of the Art Lecture on Vesico-Vaginal Fistulae.
4. Laparoscopic cholecystectomy (Key Hole Surgery) was performed at Korle-Bu Hospital for the first time on 29th September 1997 by the joint team of British Surgeons of Club 60 and Ghanaian Surgeons led by Dr. R. Darko and Dr. B. Ribetro.

Publications

Yeboah, E. D. et al 110 Consentive Iatrogenic Injuries of the Genito-Urinary Tract in West Africa 1997. British Journal of Urology Vol. 80 Supp. 2 Page 347.

Klufio, G. O. Varicocelelectomy. What Benefits to the Infertile Ghanaian Male? Ghana Medical Journal 1993/94 27-28; 549-553.

Naaeder, S. B., and Archampong, E. G. (1995) One Stage Resection of Acute Sigmoid Volvulus. British Journal Surgery 1995; 82; 1636-9.

Research Activities

Gastro Intestinal Endoscopy
Typhoid Diseases
Malnutrition in Surgical Patients
Oestrogen Receptors in Breast Cancer
Breast Cancer
Colorectal Cancer
Carcinoma of Prostate
Hepatobiliary Diseases
Fistula in Ano
Thrombo-Embolism and
Peripheral Vascular Diseases
Impotence (Male Erectile Dysfunction)

Portal Hypertension
Surgical Management of Heart Diseases
Male Infertility
Surgical Management of Heart Diseases
Male Infertility
Injuries of Genito Urinary Tract
Haematuria
Retention of Urine
Carcinoma of Prostate and Benign Prostatic Hyperplasia
Thyroid Disorders
Burns
Congenital Deformities
Intestinal Obstruction in Children
Hydrocephalus
Tuberculosis of the CNS
Cervical Spondylosis
Musculoskeletal Injuries
Osteomyelitis
Management of Injured Patients

Sabbatical Leave

Dr. B. Puplampu, Lecturer in Neurosurgery, is on Sabbatical Leave in U.S.A.

Extension Services

Extension Services at Korle Bu Teaching Hospital

The consultants/doctors look after 680 beds at the Korle-Bu Teaching Hospital.

Out-patients Clinics at the Korle-Bu Teaching Hospital total of 130,000 patients were seen by the consultants of their teams of the Department of Surgery.

Admissions: A total of 16,483 patients were admitted in the various units of the Department at the Korle-Bu Teaching Hospital.

Operation: A total of 16,602 operations were performed, of these 3,914 were major and 13,418 were minor.

Legon Hospital

Extension Services at the Legon Hospital and Planned Day Care Surgery Centre at Legon

Since June 1997 a number of Lecturers and Specialists have been conducting regular clinics in Surgery, Urology, Eyes, Orthopaedics at Legon Hospital. Some minor surgical operations are being performed. It is planned to establish a Day Care Surgical Centre at Legon Hospital.

Book Development

Reprint of the 2nd Edition of **Principles and Practice of Surgery including Parthology in the Tropics** with Prof. E. A. Badoe, Chief Editor was published.

Examiners for West African College of Surgeons 1996/97

Prof. E. A. Badoe
Prof. E. G. Archampong
Prof. E. D. Yeboah
Dr. S. B. Naaeder
Dr. R. Darko
Dr. G. O. Klufio
Dr. Frimpong Boateng
Dr. M. Iddrissu

New Developments National Cardiothoracic Centre

This new Centre is undergoing extensive expansions under the able directorship of Dr. K. Frimpong-Boateng, Cardiothoracic Surgical Specialist in Charge.

Reconstructive Plastic Surgery, Burns and Leg Ulcer Centre

A new 73-bed Plastic Surgery, Burns and Leg Ulcer Center under construction by the Ministry of Health with assistance of Prof. J. C. Mustarde, the Scottish Plastic Surgeon was commissioned by President Rawlings on 28th May, 1997. Mr. A. G. Laing FRCS, FWACS and Mr. F. Mork, FRCS, FWACS are the Consultants who are manning the new Centre.

Computerised Tomography Unit

This new unit in the Radiology Department has helped in the teaching, service and research of surgical patients.

Renovation of the Surgical Block

The main surgical block of 7 floors has been renovated together with its 10 theatres and recovery wards and patients moved back to the Block on 10th September, 1997.

A new radiotherapy unit is partially opened at the Korle-Bu Teaching Hospital and has enhanced the teaching, treatment and research of cancer cases.

The ophthalmology unit has received a lot of essential equipment from the ODA of the British Government.

Gastrointestinal Endoscopy Unit

A new service has been set up to help gastric ulcer patients in conjunction with the Radiology Department.

The renovated theatres in the surgical block and its new Endoscopy suite are soon to be put back in use.

Accreditation visit from the West African College of Surgeons to the Department of Surgery on 13th August, 1997 for accreditation of the Teaching programmes for Residents/Specialists.

Visitors to the Department

Visitors to the Department included Prof. J. C. Mustarde, Prof. O. O. Adekunle and 10 Eminent British Surgeons from Association of Surgeons of Great Britain and Ireland.

Benefactors to the Department

The major benefactor is the Government of Ghana assisted by the Japanese Government, the British Government, the German Government and others who have helped expand the teaching service and research facilities of the Department of Surgery.

Conclusions

The year 1996/97 has recorded tremendous growth of the Department in physical facilities and developments of new specialties as cardiothoracic, Vascular and Plastic and Reconstructive Surgery as well as Laparoscopic Surgery (Key Hole Surgery). The Department has extended its service activities to the Legon Hospital.

We have also established new links with academic departments in the United Kingdom especially Scotland, Sheffield and the University of McGill and University of Virginia Charlottesville U.S.A.

THE UNIVERSITY HOSPITAL

The University Hospital was commissioned in 1957 to primarily cater for the health needs of members of the University community, namely students, staff and their dependants.

However with the fast development of the environs over the years, the Hospital now provides service for patients located as far as Aburi which is about 20 kilometres away from Legon. The University Hospital has thus assumed the status of a District Hospital. Its main referral point is Korle-Bu Teaching Hospital.

The University Hospital is headed by a Medical Director with five supporting Medical Officers.

It has 10 departments namely, Medical, Nursing, Pharmacy, Laboratory, Xray, Records/Statistics, General Administration, Catering, Housekeeping and Environmental Health Unit.

The University Hospital also runs Specialist Clinics in the afternoons and Consultants from the University of Ghana Medical School consult in Paediatrics, Obstetrics and Gynaecology, Dermatology, General and Orthopaedic Surgery, Ophthalmology, Urology and Internal Medicine.

This has contributed immensely in cutting down the number of cases referred to the Korle-Bu Teaching Hospital.

The Hospital has also established a Primary Health Care Outreach Programme aimed at teaching and advising students, pregnant women, nursing mothers, and the general public about personal hygiene, good diet, child care, including immunization against childhood communicable diseases, family planning and school health services.

The Hospital is also used by both foreign and local students for their projects theses as well as for practical attachment. Currently there are over 15 students taking their projects theses with the Hospitals.

The Hospital faces some logistic problems due to the fact when it was first established in 1957, the student population was only 240. There has however been a tremendous increase in student intake over the years (the current student population is over 9,000). Furthermore due to the accelerated manner in which the area has developed and the increased population, the existing facilities most of which are obsolete, are no longer able to contain the pressure. This impedes the smooth running of the Hospital. There is therefore the need to expand the facilities and get modern equipment to enhance effective, efficient and quality health care delivery.

The Deputy Minister of Health, Mr. S. Nuamah-Donkor, recently paid a working visit to the Hospital and the indications are that efforts are far advanced to help improve upon the facilities at the Hospital.

The Hospital has received generous donations from a number of organisations, including Soroptimist International Club, Micro-Project Unit

of the European Union, the Canadian High Commission, Royal Danish Embassy, VALCO, SSNIT, Social Security Bank, Vanguard Assurance Co. Ltd., Ministry of Mines and Energy, and Charismatic Evangelistic Ministry.

The Hospital is most grateful to all these benefactors and would welcome all forms of assistance both in cash and in kind, that will help it achieve its mission of providing quality health care.