

PREFACE

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Last academic year was the Golden Jubilee of the University of Ghana. Activities were planned and held for the whole year, and these were organised with all zeal and seriousness because the past fifty years had marked an enviable performance of the University's mandate ie to teach, research and serve.

In spite of the Jubilee activities, many of which were of national character, the University did not lose sight of the pursuance of its mandate for that particular year.

Thus this report reflects the proportion of academic work done during the year under review, and if the account given is viewed together with activities particularly pertaining to the Jubilee activities, it should give a fair idea of how strenuous the past year has been.

I would like to reiterate the fact that work in the University continues to be executed under very difficult circumstances. However, we believe that with the introduction of reasonable levels of academic facilities user fees, many departments will now be able to begin to acquire essential equipment that would facilitate academic work. Gradually, we can build up our stock of academic facilities to be able to provide quality education.

It is gratifying to see efforts made by various departments and faculties to generate resources to supplement that of management to ensure that the University is sufficiently endowed to be considered a deserving member of renowned centres of excellence all over the world.

In an age where technology has become so vital to academic work, the University has spared no effort to pursue the acquisition and provision of all the necessary infrastructure in order that this University does not lose out. This endeavour, started a couple of years ago, is ongoing, for which reason the University would welcome any kind gesture toward achieving its goals. Meanwhile the University is most grateful to all organisations which have made very substantial grants towards its physical development and equipment base. Our thanks go particularly to the Government of Ghana, various diplomatic missions, non-governmental organisations, industry and individuals.

Our sincere thanks and gratitude go to Senior Members, Senior and Junior Staff, the student body, and indeed to Ghanaians as a whole, for the support and encouragement this University continues to enjoy from them.

Ivan Addae-Mensah
Vice-Chancellor
March 18, 2000

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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)

There was a phenomenal increase in the number of postgraduate admissions. In addition, there was a substantial increase in the number of B.Sc. (Hons) students specializing in Agricultural Economics.

Staff

One member of the teaching staff was on study leave. The courses offered by the Department were taught by nine teaching staff, two of these were on post retirement contract. The Department continued to be under the Headship of K. Yeri Fosu.

Research

- Al-Hassan, Ramatu
- Equity Implications of Reforms in the Financing and Delivery of Agricultural Extension Services. Project R6470 CA. in Collaboration with University of Reading-Completed.
 - Improving Market Access for Maize Producers in Ghana's Remote Areas. In Collaboration with Wye College. Project Funded UK Department for International Development, under the Crop Post Harvest Research Programme- Project is near completion.
 - Farm, Non-Farm Linkage Potentials of the Cassava Sub-sector in Ghana. Prepared for the Agriculture in Economic Development Service of the FAO, Completed. Effect of Cash Crop Production on Household Food Supply, Labour Utilization and the Participation of Women. Funded by the Dutch Government under the SADAOC short-term Project. Research is ongoing.
- Amegashie, D.P.K
- (With J. A. Dadson). Employment and Income Generation in the Lower Volta Basin (Phase II). A socio-economic component of the Lower Volta Environmental Impact Studies by Volta Basin Research Project.
 - (With Ramatu Al-Hassan). An Evaluation of Projects Receiving Aid for Increased Production (KR-2) in Ghana. Prepared for the Embassy of Japan, Accra, Ghana.
- Andah, E.K.
- Poverty Alleviation and Economic Development in Ghana (In Progress).
 - (With A.A. Dankyi, H. Sanders, M. Morris and M. Ahmed). Economic Impact of Public Investment in Maize Research and Extension in Ghana, 1979-1997.

- Asante, V. O
- Economic Policy Reforms and Competitiveness of Export Fish Tuna Processing Technology in Ghana.
 - (With others). Food Trade, Infrastructure and Food Security.
 - Food Trade Infrastructure: Availability, User Cost and Effect on Food Marketing Systems in Ghana.
 - Ghana's Agriculture, Food Development Strategy and Policy Implications.
- Baah, K. O.
- Cooperative Development in an Adjustment Era: The Case of Ghana.
 - Economic Impact of Agricultural Research: Pineapples in Ghana.
- Dadson, J.A.
- (With Gayle Morris). Cross-Border Trade Issues in Ghana.
 - (With J. A. Allotey, L. J. Gyamfi-Fenteng and N. K. Ankudey). Coastal Wetlands Management: Socio-Economic and Land Use Issues.
- Egyir, Irene S.
- (With V.K Nyanteng, V. Owusu Asante and Others). Trade and Infrastructure Project: Long-Term Project of the SADAOC Foundation, RESEAU GHANEEN, June 1998- June 2001.
 - (With Ramatu Al-Hassan). The Effect of Cash Crop Production on Household Food Supply, Labour Utilization and the Participation of Women in the Production of Selected Cash Crops. June 1998 - June 1999.
 - Economics of Pesticide Use. (In Collaboration with GTZ).
 - (With Ramatu Al-Hassan). Farm, Non-Farm Linkage Potentials of the Cassava Sub-Sector in Ghana. Completed.
- Fosu, K. Yerfi
- Macroeconomic Policies, Incentives, Infrastructure and Innovations for Agriculture.
 - Trade and Exchange Rate Policies' Effects on Incentive Structure: A Six Sector-Six Factor General Equilibrium Model.
 - Technology Policy for Agriculture in Ghana.
 - Modern Econometrics to the Rescue of Traditional Econometrics: A Mission Unaccomplished.
 - Economic Policy Reform and Agricultural Technology in Ghana II: Agrobiological Technology.
 - Macroeconomic Policies, Agriculture, Development and the Environment (on-going).
- Sarpong, D. B.
- Technology Absorption, Learning Curves and Pineapple Export Industry in Ghana.
 - (With Achel Sando). Multiattribute Analysis of Agricultural Lending Decisions in Ghana.
 - (With Boateng Saka, S.). Exports of Non-Traditional Crops and Food Security in Ghana: The Case of Yam.
 - (With Aggor, Devine). Comparative Financial Evaluation of Artisanal Fish Smoking Ovens.
 - (With Ali, Ibrahim M.). An Econometric Analysis of the Producer Price of Cocoa in Ghana.

Publications

- Al-Hassan, Ramatu
- (With Michael Warner and Jonathan Kydd, 1999). Review of Changes to Farming Systems in Northern Ghana (1957-1994). In Natural Resource Management in Ghana and its Socio-economic Context. Ed. Roger Blench. pp. 85-113. Overseas Development Institute. Chameleon Press Ltd.

- (With Vincentia Canacoo and Francis Srofenyoh, 1998). Reforms in the Financing and Delivery of Agricultural Extension Services; Ghana Case Study. In: Reform in the Financing and Delivery of Agricultural Extension Services: Case Studies from Africa, Asia and Latin America. Working Paper 98/3, pp. 29-81. Ed. Abigail Mulhal. Kate Warren and Chris Garforth; Agricultural Extension and Rural Development Department, University of Reading.
- (With Vincentia Canacoo, Owuraku Sakyi-Dawson and Francis Srofenyoh, 1998) Equity Implications of Reforms in the Financing and Delivery of Agricultural Extension Services in Ghana. Research Report Submitted to Agricultural Extension and Rural Development Department, University of Reading.
- (With Irene Egyir, 1999). Agriculture and Rural Growth: The Case of the Cassava Sub-Sector in Ghana. Research Report Prepared for the Agriculture in Economic Development Service of the FAO.
- (With S. O. Saaka, 1998). Challenges of Bushfire Control and Prevention in Northern Ghana. Report Prepared for PACIPE/Ghana.
- Process Documentation of the Post-Harvest Component of the Pilot Village Infrastructure Project (1998). Prepared for Technoserve/ Ghana and the Ministry of Food and Agriculture.

- Baah, K. O. - "Cooperative Development in an Adjustment Era: The Case of Ghana." Submitted for Publication to the Journal of Ghana Studies, c/o Department of History, Texas A & M University, USA.
 "Economic Impact of Agricultural Research: Pineapples in Ghana." Submitted for Publication to the Journal of Rural Reconstruction, Chanakypuri, New Delhi, India.

- Dadson, J. A. - (With Gayle Morris). "Ghana: Cross-Border Trade Issues." Report of a Study Submitted to IBI and USAID, June, 1999, 60pp.
 - (With J. A. Allotey et al.). "National Wetland Management Strategy for Ghana." Report of a Study Sponsored by the Department of Wildlife, Accra, 1998. 58pp.
 - "Conflict Resolution and Strategic Management of Development." IDEP, Dakar, July 1999. 10pp.

- Egyir, Irene S. - (With Ramatu Al-Hassan, 1999). Agriculture and Rural Growth: The Case of the Cassava Sub-Sector in Ghana. Research Report Prepared for the Agriculture in Economic Development Service of the FAO.

- Fosu, K. Yertfi - "Public Policy and the Demand for Fertilizer in Ghana", in, Economics of Agrochemicals. Published by Ashgate, Aldershot, United Kingdom for the International Association of Agricultural Economists, 1998.
 "Monetary Policy, Credit Market Liberalization and the Supply of Institutional Agricultural Credit in Ghana." Competitive Paper The 57th Seminar of the European Association of Agricultural Economists, Wageningen, The Netherlands, September 23-26, 1998.
 (with N. Heerink). "Rural Services and Infrastructure: Social and Physical Infrastructure", in, The Social Dimensions of Policy Reforms. European Commission, Belgium, 1998.
 (with N. Heerink). "Food Security and Nutrition: Implications of Policy Reforms with a Case Study from Ghana", in, The Social Dimensions of Policy Reforms. European Commission, Belgium, 1998.

- Sarpong, D. B.
- Growth in Ghana - A Macroeconometric Simulation Integrating Agriculture. Ashgate Publishers, UK, 1997, ISBN: 1 85072 673 9.
 - A Model of Ghana (II), in. Uebe, Gotz: World of Economic Models: A Catalogue of Typical Specifications of Economic Models. Avebury, Aldershot, UK, 1995, pp. 125-129.
 - EEC and the Ghanaian Economy: A Business Fluctuation Linear Dependence Test. Discussion Papers in Statistics and Quantitative Economics, Universitat der Bundeswehr, Hamburg-Germany, No. 74, March 1997.
 - A Trade-Linkage Model of Ghana-EU: Ghana-UK-Germany Trade Axis (Part I: Linkage Model Estimation), Discussion Papers in Statistics and Quantitative Economics, Universitat der Bundeswehr, Hamburg-Germany, No. 75, March 1997.
 - Ghana Integrated to the World Economy: Focus on Ghana-UK-Germany Trade Linkage Model. Diskussionspaper No. 59. HWWA-Institution for Economic Research, Hamburg-Germany, 1998.

Conferences/Seminars/Workshops

- Al-Hassan, Ramatu
- (With Irene Egyir). Issues of Response of Rural Producers to Emerging Markets for Africa's Processed Cassava: The Case of Ghana. Pre-Conference Workshop on Globalization, Agribusiness and Agricultural Development held in Nashville TN. 7-8 August, 1999.
- Andah, E.K.
- Water Resources Management in Ghana - Seminar. Accra, Ghana. Paper: Economics and Financing in Ghana.
 - Agricultural Growth and Development Strategy (1997-2007) Seminar. Accra, Ghana.
 - Agricultural Services Sector Investment Programme - Workshop. Elmina, Ghana.
- Asante, V. O.
- The 5th Annual Workshop of the African Technology Policy Studies Network. Manzini, Swaziland, South Africa. November 6-13, 1998.
 - Trade Research Workshop Reseau SADAOC. Bamako, Mali. April 3-9, 1999.
 - Trade Research Workshop Reseau SADAOC. Ouagadougou, Burkina Faso. November 1-6, 1999.
- Dadson, J.A.
- "Peoples Participation in Rural Development", Miklin Hotel. Accra, 21-25 September, 1998 (Chair and Resource Person).
 - "Cassava Processing and Industrial Development in Ghana". A one-day Workshop Organised by UNIDO. Accra, March 16, 1999, 80pp. (Chair and Presenter).
 - (With G. Morris). "Ghana: Cross-Border Trade Issues. An Analysis of Patron-Client Relationship." USAID/EAGER/IBI-Sponsored Conference at Gaborone, Botswana, 18-20 October, 1999.
- Egyir, Irene S.
- Workshop on Agricultural Input Subsidy. Accra, Ghana. August 25, 1998.
 - Training Workshop on Agricultural Research Techniques for Scientists (Social Sciences), Accra, Ghana, October 19-30, 1998.
- Fosu, K. Yerfi
- European Association of Agricultural Economists Seminar 1998 on "Agricultural Markets Beyond Liberalization." Wageningen, The Netherlands. September 23-26, 1998.

- Steering Committee Meeting. Cocoa Policy Research Network. Abidjan, Cote D' Ivoire. October 12 - 13, 1998.
 - Regional Seminar on "Effects of Liberalization on the Cocoa Sector in Africa." Abidjan, Cote D' Ivoire. November 16-18, 1998 (Chair and Resource Person).
 - Training Workshop of African Technology Policy Studies Network (ATPS). Kumasi. June 14-18, 1999 (Resource Person).
 - Economic Policy Workshop of the African Economic Policy Research Consortium. Accra. May 29-June 3, 1999.
- Sarpong, D. B.**
- Training Workshop of the African Technology Policy Studies (ATPS) Network. Kumasi. June 14-18, 1999.
 - Symposium on Operations Research 1997 (SOR '97): Friedrich-Schiller-Universitat Jena-Germany. September 3-5, 1997.
 - Workshop: HWWA-Institution for Economic Research. Department of Economic Development - Hamburg-Germany, 21 April, 1998
- Extension Work**
- Al-Hassan, Ramatu**
- Organised two Workshops in Afram Plains and West Gonja Districts on Research Findings of the Maize Market Access Project. Presently helping Stakeholders in the two districts to pursue the Implementation of the Recommendations of the Research.
 - Resource Person for the Task Force on Ghana Cocoa Sector Development Strategy of the Ministry of Finance
- Amegashie, D. P. K.**
- Awareness Creation on Local Resource Mobilization for Community-Based Projects in Selected Villages in the Lower Volta Basin.
- Asante, V.O.**
- Extension Works on Economic Analysis and Marketing. UNDP/FAO National Poverty Reduction Programme. Weija, Accra, Ghana. November, 10, 1998 (Resource Person).
- Baah, K. O.**
- Chairman, Akyem Bosome Rural Bank.
 - Resource Person, Intersectoral Committee for the Development of Cooperatives.
- Dadson, J.A.**
- Chairman and member of UG-Cornell Linkage Project involved in extension among farmers in the Afram Plains in collaboration with World Vision International, Ghana.
- Egyir, Irene S.**
- Field Visits and Focus Group Discussions During Field Surveys in Selected Villages.
 - Workshop and Seminar Participation.
 - Guidance and Counselling for Pre-SSS Students.
- Fosu, K. Yerfi**
- (With others). Formulation of Strategies and Preparation of Materials for the National Technology Policy Dialogue Programme.
 - (With others). Formulation of a Research Programme for Examining the Implications of Domestic and Global Liberalization for Cocoa Policy in Africa: for DFID (United Kingdom) and the French Development Corporation (France).

Benefactors

- * V. Owusu Asante received an award from the following institution:
African Technology Policy Research Network (ATPS)
- K. Yerfi Fosu received awards from the following institutions:
(With others), Carnegie Corporation of New York, USA
European Association of Agricultural Economists(EAAE)
DFID (United Kingdom)
African Technology Policy Studies Network (ATPS)
- * D. B. Sarpong received a grant from Alexander von Humboldt Stiftung, Germany.
- * Alexander von Humboldt Stiftung, Germany donated books worth two thousand D. M. and computer with accessories worth about thirteen thousand D. M. to the Department.

DEPARTMENT OF AGRICULTURAL ENGINEERING

Overview

The Agricultural Engineering Department makes possible many cooperative research projects. The department's curricula and research are therefore tailored to consider the prevailing climatic, geographic and other conditions that influence agriculture in Ghana and the agricultural aspects under the following headings:

- Agricultural Mechanization
- Irrigation and Land Development
- Structures and Rural Development and Agriculture
- Agricultural Post-Harvest Technical Technology

The staff concerned with teaching the knowledge dealing with the problems and conditions are organized into sections within the department under the above headings

Cooperative research with Agricultural Economics and Farm Management includes studies on optimizing the size of various kinds of mechanized farms, the effect of diversification on net return, effect of mechanized training upon the success of the farm and the economics of irrigated farming.

Courses

Courses are offered jointly with other Departments in the following areas:
Graduate Degrees (M.Phil, Ph.D. in Soil & Water Engineering.

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

- 2-Year Diploma in:
 - General Agriculture (NDA)
 - Agricultural Engineering (NDAE)
 - Post-Harvest Technology (NDPT)

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:

- Senior Lecturers (3) - (One on leave of absence and the other on sabbatical leave)
- Lecturers (3) - (Two on study leave outside the country)
- Part-time Lecturers (5)
- National Service Personnel (1)
- Senior Staff (4)
- Junior Staff (4)

Research

- Mahama, A.A. - Animal Traction Technology Generation, NARP, Tillage Implements.
- Seidu, M. - Sabbatical leave (Univ. of Cape Coast)
- Ahenny-Mickson, S. - Water Management Strategies for Valley Bottom Rice Production in the Kwaebibirim district (Kade) - On going
- Water Management on the Vertisol (Clay Soils) at Kpong - On going
- Bani, R.J. - Leave of Absence
- Jostah, M. N. - Study leave (Ph.D. Program, Univ. of Calif. Davis)
- Kra, E.Y. - Study leave (Ph.D. Program, Utah University)

Publications

- Mahama, A.A. - 1999: The effect of the animal drawn mouldboard plough without the Coulter on Traction in Ghana. Journal of Ghana Science Association (Special Edition) Sonlife Press & Services, Accra Vol. 2 No. 2 p. 32-35.
- 1999: Agricultural Mechanization and the Mechanization and the Environmental Degradation in Ghana//Proceedings of the 17th Biennial Conference (Special Edition) Ghana Science Association. Sonlife Press & Service. Accra. p.276-280.

- Boama, J.K. 1999: Land Preparation and Moisture Conservation with Rice Cultivation in the Northern Region of Ghana. Journal of Ghana Science Association (Special Edition). Sonlife Press & Services, Accra Vol. 1 No. 1 p.41-45

Conferences/Workshops/Seminars

- Mahama, A.A.
 - 1999: Ghana Institution of Engineers Conference, Accra.
 - 1st NARP Biennial Conference 16 - 20 Nov. 1998, Accra.
 - Ghana Science Association Biennial Conference, Univ. of Ghana, Legon, 1999
 - Abdulai, Y. 1998: Modifications of the Donkey Cart for Wider Exploitation. (Paper presented at the International Conference on Agricultural Engineering, 20 - 25 Sept.) Univ. of Cape Coast, Ghana.
 - Mensah, E. 1998: The Use of Bamboo Plant as Harnessing Component for Animal Traction. (Paper presented at the International Conference on Agricultural Engineering, 20 - 25 Sept.) Univ. of Cape Coast.
- Bobobee, E.Y.H.
 - Mahama, A.A. 1998. Animal Traction Technology Resource. Mapping in Ghanaian Research System Workshop). "Sustainable Agricultural Production & Food Security" 16-20 November. Accra International Conference Centre.
- Abenny-Mickson, S.
 - 1999: Management of Vertisols: A Comparison of Strategies - Paper presented at the Soil Science Society of Ghana Meeting. 16-19 February.

Extension

- Mahama, A.A.
 - Chief Examiner - SSCE "W.AEC"
 - Participation in the National Best Farmers Exhibition at Trade Fair. Accra. Dec. 1998.
 - AGROSCOPE Guest - Topic - Agricultural Engineering in Ghana.

DEPARTMENT OF AGRICULTURAL EXTENSION

Overview

The Agriculture Extension Department continues to emphasise Agricultural Extension, Rural Development and Poverty Alleviation, as the focus of its teaching, research and extension activities. The guiding perspective in all these has been an emphasis on bottom-up approaches to technology development and dissemination. In line with the above perspective a focus on appropriate mechanisms and organisational forms for enhancing equity in access to extension, appropriate technology, adaptive financial services, enhanced access input and output markets, improved management of social amenities, increased critical awareness for human development have constituted aspects of the work in the Department.

Our vision for the year under consideration, and the years ahead, is to evolve into a National Centre for Agricultural Extension and Rural Development Research and Documentation. To this end, efforts have been made to intensify the post-graduate programme and faculty research. Post-graduate students admission has increased from three students in 1993/94 academic year to between 8-10 from 1995 till now. Our greatest challenge with regards to our post graduate work has been the absence of substantive lecture/seminar room for the post-graduate work. At the under-graduate level, the department still does not have an audio-visual laboratory for training students, no vehicles to convey students for field practicals in extension work. There is an urgent need for provision of post-graduate lecture/seminar room, audio-visual laboratory and vehicles for field extension work.

The Department has currently undertaken a restructuring of its courses programme to make it more relevant to the changing needs of agriculture and rural development in Ghana. In the current year, we are developing a Short Courses Programme in the field of Extension and Rural development.

There are six full-time permanent lecturers instead of the required eight. However, two of the lecturers are on study leave, one abroad and the other local. The Department is therefore using the services of one part-time Senior Lecturer. Positions for four Research Fellows remained unfilled. The Visiting Scholar who served the Department for two academic years - 1997/98 and 1998/99 has returned to Nigeria. The Administrative Assistant has continued to contribute greatly to the improved running of the Department.

Courses

The courses covered three levels - namely National Diploma, B.Sc. Agriculture, Post-graduate levels (M.Phil and Ph.D). At the B.Sc. and National Diploma levels, courses in Agricultural Extension and Rural Development continued to be core courses for all students. These include:

B.Sc (Hon) Agriculture

Diploma in General Agriculture (NDA)

Diploma in Agricultural Engineering (NDAE)

Diploma in Post-Harvest Technology (NDPHT)

Diploma in Animal Health (NDAH)

In addition, our courses continued to be taken by all under-graduate students of Department of Home Science, and some students from other Departments and or Schools in the University.

Academic areas covered are Introduction to Extension, Extension Programme Development, Extension Methods, Communication in Extension, Rural Sociology, Comparative Extension Systems, Education and Training, Management and Organisation, and Practical Extension. Additional areas for the post graduate level are Theoretical Foundations of Extension and Research Methods. In addition, staff of the Department continued to teach Extension Management Course of the Diploma in Agricultural Administration, offered by the Ghana Institute of Management and Public Administration (GIMPA).

Staff

The courses of the Department were taught by seven teaching staff; of these, one was a Visiting Scholar on Sabbatical Leave, and the other was on post-retirement part-time contract. One member of the Department is on leave of absence.

Research

- | | | |
|--------------------------|---|---|
| Fiadjoe, F.Y.M. | - | Study of Extension Practice in the Dangbe West District of the Greater Accra Region (On-going). |
| | - | Study of the Nature of Research Findings and their Implications for Extension Message Development (On-going). |
| Atengdem, P.B. | - | Development and transitions of farming systems in Northern Ghana: A Historical Perspective. ILEIA - NGLWG Collaborative Research Programme, March 1998. |
| | - | Programme Development Research for the Northern Network for Development Sponsored by ISODEC, May, 1998. |
| Ackah-Nyamike, E.E. Jnr. | - | (With O. Sakyi-Dawson) Agriculture Survey (Crops and Livestock) for the Protected Areas Development Programme (PADP) in the Bia and Ankasa Protected Areas. ULG/WD Research Programme. |
| Boateng, S.D. | - | (With A.A. Ladele). The latent effects of development actions on the environment and the socio-economic well-being of the Afram Plains Communities in the Eastern Region of Ghana. |
| Sakyi-Dawson, O. | - | Improving Financial Services for Renewable Natural Resource Development in Ghana: Establishing Policy guidelines for the informal sector. Collaborative Research between University of Ghana and University of Reading. Funded by Department for International Development (DFID) U.K. Policy Research Programme R6471 CA. (On-going). |
| | - | (With Ramatu-Alhassan, Vincentia Canacoo, Francis Srofenyoh) Equity Implications of Reforms in the Financing and Delivery of Agricultural Extension Services in Ghana. A Collaborative Research between University of Ghana/University of Reading, U.K. funded by Department for International Development (DFID), U.K. Policy Research Programme R6470 CA. June, 1998. |
| | - | Adoption Barriers for Efficient Domestic Energy Use in Refugee Sites. Collaborative Research between University of Ghana/GAMOS Ltd. U.K. Funded by the Department for International Development (DFID) U.K. (On-going). |

Extension activities

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|-----------------|---|--|
| Fiadjoe, F.Y.M. | - | Improving Agricultural Work with Women Farmers'. Study Report for FAO, Sept. 1998. |
| | - | Rationalisation of Extension Services Provided by Cocoa Services Department (CSD) of Cocobod and Department of Agricultural Extension Services of the Ministry of Food and Agriculture. Study Report for Cocobod, July 1998. |

- Ackah-Nyamike, E.E. Jnr. - Member, Artisanal Fish Processing Project Management Committee
 - Member of Agriculture Faculty Board
 - Academic advisor for Level 400
 - Departmental Examination Officer
- Atengdem, P.B. - PRA evaluation workshop for PRONET and CEDEP Staff of the CSA/USAID Programme, May 1998.
 - Evaluation and Programme Development ECASARD, June 1998.
 - Programme Evaluation of PCG-KCCO - Assisted Agricultural project in Northern Ghana August-September 1998.
 - Management Training for Project Managers of ACDEP, Sponsored by ETCC, September 1998.
 - PRA Training for CSA/USAID Project Staff, October 1998.
 - Impact Assessment Training for Manager of ACDEP Projects - November 1998.
- Sakyi-Dawson, O. - (With Francis Beinpuo) Review of Bessla Rural Bank's Performance and Proposed Business Plan. Prepared for ISODEC, Ghana, January 1998.
 - (With E.E. Ackah-Nyamike Jnr.) Agriculture and Livestock survey of Bia and Ankasa Projected Areas. Report prepared for the Protected Areas Development Project/LG Consultants/EU/Wildlife Department, December 1998.

Publications

- Boateng, S.D. - (With A.A. Ladele). "The Latent effects of development actions on the environment and the socio-economic well being of the Afram Plains Communities in the Eastern Region of Ghana". To be published in October 1999 by the International Journal of Environmental Education and Information.
- Sakyi-Dawson, O. - Financial Services provision and financial services needs in the Ghanaian RNR Sector. Technical Research Report to DFID, 1997.
 - Financial Services for RNR Development in Ghana - Establishing Policy Guidelines for the Informal Sector. Technical Research Report to DFID, 1998.
 - (With J.H.M. Jones, N. Harford and A. Sey) 1997. The Contribution of the Informal Financial Sector to Sustainable Renewable National Resources (RNR) Management in Ghana. Proceedings of the First International Conference on Sustainable Rural Development in Sub-Saharan Africa. K.N.U.S.T., Kumasi, Ghana, August 1997 (Forthcoming).
 - (With J.H.M. Jones). Interface between Rural Financial Intermediaries in Ghana: Implications for linking informal and formal Financial Sectors. Proceedings of the Conference on Financial Institutions in the Political Economy, organised by the Nordic Africa Institute, Rosendal, Norway 11th-14th June 1998 (forthcoming).
 - (With R. Al-hassan, V. Canacoo, I Srofenyoh). Equity Implications of Reforms in the Financing and delivery of Agricultural Extension Services. Report for DFID Policy research programme. June 1998.

Conferences, Seminars, Workshops and Symposia

- Fiadjoe, F.Y.M. - (With S.D. Boateng). "Influence of Human Behaviour on the Sustenance of the Forest Reserve Base."; Ghana Science Association 20th Biennial Conference, K.N.U.S.T., Kumasi.

- Ackah-Nyamike, E.E. Jnr. - (With S.D. Boateng). Meeting the needs of rural people; the role of the Home Economist. 33rd Biennial Conference of Home Economics Association of Ghana. Workshop on Equity Implications of Reforms in Agricultural Extension Services in Ghana, July 1998. University of Reading Joint Workshop.
- Private Sector Participation in Extension delivery in Ghana. Agricultural Extension Dept. Legon. Seminar.
- Ladele, A.A. - "Sustainability issues in Agricultural Technology in Africa: The role of Research - Extension - Farmer Linkage". A paper presented at the International Conference on Agric. Engineering. Cape Coast University. 20-25 September, 1998.
- Atengdem, P.B. - Equity Implications of Reforms in the Financing and delivery of Agricultural Extension Services in Ghana. University of Ghana/University of Reading Joint Workshop. July 1998.
- Sakyi-Dawson, O. - "An Introduction to the Study on Equity Implications of Reforms in Extension in Ghana." Paper presented at the Workshop on Equity Implications of reforms in Extension in Ghana. University of Ghana/University of Reading Joint Workshop. 21st July 1998.
- "Experiences of Financial Sector linkages in Ghana." Workshop on Improving Financial Services for RNR development in Ghana; Establishing policy guidelines for the informal financial Sector. Organised by Agricultural Extension Department, University of Ghana. Legon and AERDD. The University of Reading, U.K. Sunyani. May 1998.

DEPARTMENT OF ANIMAL SCIENCE

Staffing and teaching

The Department welcomed back Professor R.K.G. Assoku who had been away for three years. His presence helped to strengthen the existing staff in the Animal Health division in the Department. Also welcomed to the Department was Dr. K. Amaning-Kwarteng from ARS, Legon on full transfer. The Department contributes towards finding solutions to the multitude of problems besetting the Livestock industry in Ghana through research by Senior members. Lack of Logistics continues to hamper effective delivery of lectures especially in the area of practicals. Transport is invariably not available at the right time to convey students to the farms. Possibility of establishing a small livestock farm at the University Farm (near Botanical Gardens) for effective teaching of practicals in the Department should again be revisited. This will not require any transport to convey students to the farm for practicals, since the farm when established will be within walking distance.

Courses

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

VI.Phil and Ph.D. Program

- | | | |
|--------------------|----|-----------------------------|
| 1. Animal Breeding | 4. | Meat Science & Technology |
| 2. Nutrition | 5. | Microbiology and Immunology |
| 3. Physiology | 6. | Pasture and Fodder Science |

Student Numbers

Ph.D.	4
M.Phil	8
B.Sc. Level 400	16
B.Sc. Level 300	25
B.Sc. Level 200	54
NDA (General) II	31
NDA (General) I	32
NDAH I	5
NDAH II	5

Staffing Position

* Professor	1
** Associate Professor	2
Senior Lecturers	6
Lecturer	1
Part-time Lecturers	3
Chief Technician	1
Senior Technician	3
Administrative Assistant	1
Technician	1
Assistant Technician	2
Technical Assistant	1
Typist	1
Senior Headman	1
Messenger/Cleaner	1
Labourer	1

Research Activities

The Department continues to collaborate with Department of Animal Production and Extension Services, Department of Ministry of Food and Agriculture (MOFA) in research into Swine and Small Animal Production and Animal behaviour. Among the areas of research undertaken by staff had included the following:

1. Periparturient behaviour in Djallonke sheep and West African Dwarf goats.
2. Behavioural interactions between ewes/does and their offspring.
3. Determination of immunoglobulin levels in Lambs and kids.
4. The use of agricultural by-products in swine nutrition and their effects on carcass characteristics.
5. On-farm development of dry season feeding package for the ruminant livestock producer.
6. Herd structure and life history analysis of beef herds.
7. Diagnosis and Epidemiology of Bovine fascioliasis in Ghana.
8. Bovine cysticercosis in slaughter houses in Accra and Tema.
9. Influence of processing on Nutrient composition and quality of mucuna seeds.
10. Effect of pasture improvement on carrying capacity.
11. Microbial load of fish meat from public market and Meat Laboratory
12. Consumption Studies on pork and pork products.
13. Utilization of Meat Animal by-products in Ghana.
14. Carcass Characteristics of Sanga bullocks raised on pasture.

Publications

- Barnes, A.R. and Fleischer, J.E. - 1998. Growth rate and carcass characteristics of indigenous (Ashanti Dwarf) pig. *Ghana Journal of Agric. Sci.* (In Press).
- Fleischer, J.E. and Barnes, A.R. - 1999. A diagnostic survey of the present state of pig industry in the Greater Accra Region of Ghana. *Ghana Journal of Agric. Sci.* (In Press).
- Asante, Y.A.; Opong-Anane, K. and Awotwi, E.K. - 1999. Behavioural relationships between Djallonke and Sahellian ewes and their Lambs during the first 24 hr. post partum. *Appl. Animal Behav. Sci.* (In Press).
- Awotwi, E.K.; Agbodza, S.; Opong-Anane K. and Fianu, F.K - 1999. Periparturient behaviour of the West African Dwarf goat. *Ghana J. Agric. Sci.* (In press).
- Ahunu, B.K.; Osei-Amponsah, R.; Osei, J.B. and Aboagye, G.S. - 1999. Population analysis of beef herds in Southern Ghana. *Indian J. of Anim Sci.* 69(10): 806-810.

Conferences/Seminars etc

- Fleischer, J.E. - Rural Poverty Alleviation Seminar at University of Ghana, 24th-25th March, 1998. (Paper Read: Livestock production in the alleviation of rural poverty: the role of the Animal Science Department).
- First Biennial National Agricultural Research System Workshop. Accra. Nov. 1998 (Paper read: On-farm dry season feeding trial for sheep on the Accra plains).
- Ahiadzro, D.D.; Avorgbedor E.K. and Awumbila B. 11th G.S.A.P. conference held at KNUST on 24th-29th August 1999 (Paper read: On-farm evolution of dry season feeding package for the small ruminant producer in the Accra plains).
- Attrams, K.; Fleischer, J.E and Barnes, A.R - 11th G.S.A.P. Conference held at KNUST on 24th -29th August, 1999. (Paper Read: The Use of pineapple peels and rice bran mixture as alternate energy sources to maize in pig diet).

- Amamie-Kwarteng, K. - 11th G.S.A.P. Conference held at KNUST on 24th - 29th August, 1999. (Paper Read: Nutrient composition and preference of different forms of mucuna by sheep).
RELC Zonal Meeting, May 19th, 1999.
(Paper Read: Intensive Feeding Strategies for ruminants).
- Awumbila, B. - Regional Workshop on Tropical Zoonoses organized by Noguchi Memorial Institute for Medical Research. (Papers Read:
(i) Rabies in Tamale Municipality.
(ii) An Assessment of street Food Safety in the Ga District. Zoonotic Implication.)
- Addae, P.C.; Oppong-Anane, K. and Awotwi, E.K. - First Biennial National Agricultural Research System Workshop. Accra, and Nov. 1998 (Paper read: Estimation of serum immunoglobulin concentrations of kids within the first 48 hours post partum using a rapid refractometer method).
- Addae, P.C.; Oppong-Anane, K. and Awotwi, E.K. - 11th G.S.A.P. Conference held at KNUST on 24th-29th August, 1999. (Paper read: Behavioural response of parturient West African Dwarf goats and their kids to separation).
- Osei-Amponsah, R.; B.K. Ahunu, Osei, J.B.; Aboagye, G.S. and Kissiedu, H.W.A. - First Biennial National Agricultural Research System Workshop. Accra, Nov. 1998 (Paper read: Reasons for disposal in some beef herds in Southern Ghana).

* The Professor has retired effective 1st October, 1999.

** One Associate Professor has retired effective 1st October, 1999.

DEPARTMENT OF CROP SCIENCE

Overview

The basic functions of the Department, namely teaching, research and extension were carried out as in previous years.

Teaching programmes were run for Doctorate, Masters, Bachelors and Diploma students. About 50% of the final year B.Sc. Agricultural students specialized in Crop Science. The postgraduate programmes continued to receive good

patronage from both within and outside Ghana. The Department, in collaboration with the Department of Zoology (Faculty of Science) continued to teach the M.Phil. Entomology course under the Insect Science Programme.. The National Diploma in Postharvest Technology (NDPHT) programme was also co-ordinated by the Department.

Academic staff in the Department continued to participate in the National Agricultural Research Project (NARP) research. In addition, staff continued to carry out their individual research, some of which were with external collaborators.

In the area of extension, most members maintained their involvement in public works and activities, thus promoting the image of the University. Some staff also appeared on radio programmes to discuss their research findings. During the University's 50th Anniversary Celebrations, the Faculty of Agriculture produced a video programme which featured the research activities of the Department. Most members of the teaching staff also attended conferences to interact and present their research findings.

In spite of many efforts made, the problems of the Department continued to be:

- Inadequate space for staff and increasing student numbers
- Inadequate tools and equipment, especially microscopes, computers and tractors for the University farm on campus.
- Lack of departmental transport
- Unavailability of water in the University farm for student projects and also for other research activities.

Courses

Courses offered at the undergraduate and postgraduate levels include:

- i. Basic courses in Microbiology, Entomology, Plant Pathology, Genetics and Statistics
- ii. Basic and advanced courses in Plant Physiology, Crop Production/Agronomy, Breeding, Entomology and Pathology of various Tropical Crops.

Student numbers

Student enrolment in the various courses were as follows:

Ph.D	6
M.Phil. II Crop Science	3
M.Phil. I Crop Science	5
M Phil Entomology	8
Level 400 (B.Sc. Final Year)	24
Level 300 (B.Sc. Second Year)	20
Level 200 (B.Sc. First Year)	48
NDA II (Diploma Final Year)	30
NDA I (Diploma First Year)	29
NDPHT II (Diploma Post-harvest Final Year)	7
NDPHT I (Diploma Post-harvest First year)	12

Staffing position

Department	CROP SCIENCE	
Professors		2
Senior Lecturers		4
Lecturers		7

Teaching Assistants	3
Part-time Lecturers	2
Chief Technician	1
Principal Technician	2
Senior Technician	1
Technician/Research Assistant	2
Assistant Technician	4
Technical Assistants	1
Administrative Assistant	1
Senior Clerk	1
Typist	1
Driver	1
Senior Headmen	1
Headman	2
Messenger-Cleaner	
Labourer	3

University Farm

Technical Assistant	1
Tractor Operator	1
Senior Headman	1
Security	2
Labourers	2
Headmen	2

Research

Crop Production Research

- Amoatey, C.A.(Mrs.)
- Use of organic and inorganic mulch in the control of *Cyperus* in pepper spp.
 - Use of poultry manure and cowdung in the cultivation of Pepper.
 - Influence of plant spacing on weed control in tomato.
- Blay, E. F.(Mrs.)
- Soil amendment studies in shallots.
 - Molecular characterization of tomato, pigeon pea, cocoyam etc.
 - Colchicine induced polyploidy in onions.
- Danquah, E.Y
- IAEA/UG Project "Improvement of cocoyams (*Colocasia esculenta* and *Xanthosoma sagittifolium*) using irradiation and tissue culture.
 - NARPP Project "Evaluation of genetic resources of maize for drought tolerance".
 - Molecular characterisation of sorghum, groundnuts and pearl millet.
- Kumaga, F.K.
- Bradyrhizobial inoculation and phosphorus fertilizer effects on soybean and bambara groundnut.
 - Fertilizer effects on the growth and yield of cassava.
- Olori, K
- Morphological and physiological characterization of Bambara groundnut accessions.

- Population effects on the growth yield of cowpea.
- Ofosu-Anim, J. - Effect of growth retardants on the height of pawpaw seedlings.
- Effect of organic manure and inorganic fertilizer on the growth and yield of french bean.

Crop Protection Research

- Ayertey, J. N. - The Lager Grain Borer Problem in Africa.
- Obeng-Ofori, D. - Use of phytochemicals against field and storage pests.
- Assessment of damage caused by storage pests to cocoa beans.
- Oduro, K. A. - Post harvest Diseases of root crops.
- Offei, S. K. - Molecular analysis on the phytoplasma infection of coconut palm and associated insects.
- Studies on the banana streak viral disease of *Musa* spp.
- Molecular characterisation of root and tubers, and tomatoes.

Publications

Refereed papers

- Ayertey, J. N. - Vowotor, K. A. and Meikle W. G., (1998) Intraspecific Competition in Larvae of the Larger Grain Borer, *Prostephanus truncatus* (Horn) within Maize Grains. *Insect Sci. Applic* 18(3),171-175
- Meikle, W. G., Borgemeister, C., Camara, M. and Markham, R. H. (1999). Studies on predation of *Prostephanus truncatus* (Horn) (Col.: Bostrichidae) and *Sitophilus zeamais* Mots. (Col.: Curculionidae) at different densities on maize by *Teretriosoma nigrescens* Lewis (Col.: Histeridae). *J. Appl. Ent.* 123, 265-271.
- Aryeetey, J. N. - Niassy, A., Torto, B., Njagi, P. G. N., Hassanali, A., and Obeng-Ofori, D. (1999). Intra and interspecific aggregation responses of *Locusta migratoria migratorioides* and *Schistocerca gregaria* and a comparison of their pheromone emissions. *J. chem. Ecol.* 25(5) 1029-1042.
- Meikle, W. G., Holst, N., Nansen, C., Boateng, B. and Markham, R. H. (1999). Developing decision – support tools for post-harvest pest management in grain stores in West Africa. In: C. Borgemeister, A. Bell, O. Muck and M. Zweigert (Eds.) *From Biological Control to a Systems Approach in the Post-Harvest Sector – Stored Product Protection of on-farm maize in Sub-Saharan Africa*. Proc. of an IITA/GTZ meeting on: 'Integrated control of insect pests in rural maize stores, with particular reference to the larger grain borer *Prostephanus truncatus* (Horn) (Coleoptera: Bostrichidae), and the future development of the post-harvest sector in sub-Saharan Africa', IITA, Cotonou, Benin, October 1997, p.145-155.

- Danquah, E. Y. - Blay, E. T. and Anim Kwabong, G. (1998). The influence of sett size on growth and production of ginger. *Ghana journal of science* (Accepted, November 1998).
- Kumaga, F. K. - J. Owusu-Ensaw and S. K. A. Danso (1998). The influence of Bradyrhizobium japonicum inoculation on nodulation and nitrogen accumulation in promiscuous soybean (*Glycine max* (L.) merrill) cultivars. *Agronomie Africaine*. Numero Special (1), 137 – 144.
- (1999). Klu G. Y. P. Testing of induced mutants of winged bean (*Psophocarpus tetragonolobus* (L.) DC) for nodulation and phenotypic performance. *Ghana Journal of Science* (Accepted).
- Kumaga, F. K., Ofori, K. and Coblavie C. S. F. Effect of time of planting on growth, flowering and seed yield of Bambara groundnut (*Voandzeia subterranea* (L.) Verde.) (Paper submitted to Ghana Journal of Science).
- Ofori, K. - Bennet-Lartey, S. O. (1999). Heterosis in cowpea landraces from Ghana. *Ghana Journal of Agricultural Science* (Accepted April 1999).
- Ofori, K., Gamedoagbao, D. K. and Blay, E. T. (1999). Multivariate analysis of genetic diversity of garden eggs. *Agronomie Africaine* (submitted).
- Ofori, K. and Ampomah, D. S. (1999). Field plot techniques for yield evaluation of Bambara groundnut. *Experimental Agriculture* (submitted).
- Obeng-Ofori, D. - Reichmuth, C. E., Jembere, B. and Hassanali, A. (1998). Toxicity and protectant potential of Camphor, a major component of essential oil of *Ocimum kilimandscharicum*, against four stored product beetles. *International Journal of Pest Management* 44 (4), 203 – 209.
- Obeng-Ofori, D., Torto, B., Njagi, P. G. N. and Hassanali, A. (1998). Aggregation pheromone complex of the desert locust, *Schistocerca gregaria* (Forsk.) (Orthoptera: Acrididae): Current status. *Journal of the Ghana Science Association* 1 (1), 69 – 83.
- 1998. Effectiveness of vegetable oils in enhancing the activity of essential oil constituents of *Ocimum* plants for the protection of stored grains against insect infestation. *Ghana Journal of Science* (accepted).
- Akuamoah, R. K. - Obeng-Ofori, D. 1998. An overview of neem research in Ghana. *Proceedings of the International Seminar on the Potential of neem trees*, 27th – 30th October, 1998. Hotel Marina, Dodowa, Ghana pp 33 – 37.
- Ofori-Anim, J. - (1999). Effect of water stress on the chemical composition and assimilate distribution to soybean seeds at different nodal position. *Ghana Science Association Journal* (Accepted).
- Offei, S. K. - Onwuna-Kwakye, M. and Thottappilly (1999). First report of East African Cassava Mosaic (Begomovirus) in Ghana. *Plant Disease* 83, 877.

Papers presented at conferences

- Blay, E. T. - Kumaga, F. K., Ofori, I. and Danquah, E. Y. (1998). Crop production technologies in rural poverty alleviation. Paper presented. Seminar on Poverty alleviation, 24th – 25th March, 1998. University of Ghana, Legon, Sponsors: JICA/University of Ghana.

- Ofori, K.
- Kumaga, F. K. (1998). Morpho-physiological characterization of Bambara groundnut accessions in Ghana (Paper presented at the First Biennial National Agricultural Research System Workshop. 16th – 20th November 1998. Accra).
 - Ofori, K., Kumaga, F. K. and Dzietror A. (1998). Cultural and Socio-economic factors affecting annual food legume production in Southern Ghana (Paper presented at the First Biennial National Agricultural Research system workshop. 16th – 20th November 1998, Accra).
- Blay, E. T.
- Danquah, E. Y., Offei, S. K. and Korley, J. (1998). Esterase isozyme variation in twenty-three accessions of tomato. Paper presented at the First Biennial National Agricultural Research System Workshop. 16th -- 20th November 1998. Accra Conference Centre. Sponsors: NARP/CSIR.
 - Blay, E. T., Danquah, E. Y., Offei, S. K. and Amadu, S. B. (1999) Morphological and molecular variation in 48 accessions of cocoyams. A paper presented to Ghana Science Association Conference 8th – 13th August. 1999. University of Ghana. Legon.
 - Danquah, E. Y., Fosu-Nyarko, J. and Dosoogla J. (1999). Isozyme and protein polymorphism in seventeen accessions of groundnuts. Paper presented, 21st Biennial Conference. Ghana Science Association. 8th – 13th August, 1999. University of Ghana. Legon.
- Danquah, E. Y.
- Blay, E. T., Osae, M. W. and Alifo, Y. (1999). Isozyme polymorphism in 8 accessions of sorghum. Paper presented at Ghana Science Association Conference. 8th – 13th August 1999. University of Ghana. Legon.
 - Blay, E. T., Fosu-Nyarko, J. and Dosogla, J. (1999). Isozyme and storage protein polymorphism in 17 accessions of groundnuts. (*Arachis Hypogea*). Paper presented at Ghana Science Association Conference, 8th – 13th August 1999. University of Ghana. Legon.
 - Blay, E. T., Osae, M. W. and Alifo, Y. (1999). Isozyme polymorphisms in eight accessions of sorghum (*Sorghum bicolor* L. Moench). Paper presented, 21st Biennial Conference. Ghana Science Association, 8th – 13th August. 1999, University of Ghana. Legon.
 - Lokko, Y., Dixon, A. G. O., Offei, S. K. and Danquah, E. Y. (1999). Genetic analysis of incidence and severity of cassava mosaic disease in shoot apices. Book of Abstracts. Paper presented, 21st Biennial Conference. Ghana Science Association, 8th – 13th August. 1999. University of Ghana. Legon.
- Ofori-Anim, John
- Effect of transplanting seedlings in compost on yield, fruit quality and incidence of wilt diseases in tomato. (*Lycopersicon esculentum*).
 - Genetic analysis of incidence and severity of cassava mosaic disease in shoot apices. Book of Abstracts. Paper presented, 21st Biennial Conference. Ghana Science Association, 8th – 13th August. 1999. University of Ghana. Legon.
- Offei, S. K.,
- Ofori, C. and Amoatey, H. (1999). Incidence and seasonal variation in symptom expression of banana streak disease in naturally infected micropropagated plantains (*Musa spp.*). Book of Abstracts, 21st Biennial Conference, Ghana Science Association. 8th – 13th August, 1999. University of Ghana, Legon.

- Offei, S. K., Ofoosu-Nyarko and Quicoe, R. N. (1999). Molecular analysis of Cape St. Paul wilt disease (CSPWD) of coconut and associated insects. Book of Abstracts. 21st Biennial Conference. Ghana Science Association, 8th – 13th August, 1999. University of Ghana, Legon.
 - Amponsah, N. T. and Offei, S. K. (1999). Localisation and transmission of *Phomopsis longicolla* (Hobbs) in seeds of soybean (*Glycine max*). Book of Abstracts. 21st Biennial Conference, Ghana Science Association, 8th - 13th August, 1999. University of Ghana, Legon.
- Ofori, K.
- Kumaga, F. K. (1998). Morpho-physiological characterization of Bambara groundnut accessions in Ghana (Paper presented at the First Biennial National Agricultural Research System Workshop, 16th – 20th November 1998, Accra).
 - Kumaga, F. K. and Dzietror A. Cultural and Socio-economic factors affecting annual food legume production in Southern Ghana (Paper presented at the First Biennial National Agricultural Research system workshop, 16th – 20th November 1998, Accra).
 - Nuerter, B. N., Doku, E. V., and Wonkyi-Appiah, J. B. A survey of oil palm based cropping systems in Ghana. (Paper presented at the First Biennial National Agricultural Research Systems Workshop, November 16th – 20th, 1998, Accra).
 - Nuerter, B. N., Ofori, K., and Doku, E. V. Intercropping food crops in oil palm in Ghana:- Nutrient dynamics, soil moisture retention and solar interception by the oil palm. (Paper presented at the First Biennial National Agricultural Research Systems Workshop, November 16th - 20th, 1998, Accra).
- Obeng-Ofori, D.
- Survey of some indigenous plants as source of repellents, toxicants, feeding deterrents and protectants in storage against major stored product insect pest in Ghana. (Paper presented at the First Biennial National Agricultural Research Systems Workshop, November 16th – 20th, 1998, Accra).
- Kumaga, F. K.
- Ahenkora-Marfo, E. and Ofori, K. Evaluation of some leguminous cover crops for weed control in oil palm plantations. (Paper presented at the 21st Biennial Conference, Ghana Science Association, 8th – 13th August, 1999. University of Ghana, Legon).
- Ofori, K.
- Nuerter, B. N., Asamoah, T. E. O. and Doku, E. V. Economics of intercropping food crops in oil palm. (Paper presented at the 21st Biennial Conference, Ghana Science Association, 8th - 13th August, 1999. University of Ghana, Legon).
- Obeng-Ofori, D.
- Ofori, K. Survey of some indigenous plants as source of repellents, toxicants, feeding deterrents and protectants in storage against major stored product insect pest in Ghana. (Paper presented at the First Biennial National Agricultural Research Systems Workshop, November 16th – 20th, 1998, Accra).

- Akuamoah, R. K. and Aidoo, I. E., 1998. Protectant potential of stam weed *Chromolaena odorata* and mahogany tree *Khaya senegalensis* against the maize weevil *Sitophilus zeamais* and the cowpea beetle, *Callosobruchus maculatus* in storage. First Biennial National Agricultural Research Systems Workshop, November 16th – 20th, 1998. Accra). International conference centre, Ghana.
- Ankra, A. D. 1999. Efficacy of neem extracts for the control of insect pests of cabbage in Ghana. Book of Abstracts XIVth International Plant Protection Congress (IPPC) Jerusalem, Israel. July 25th – 30th 1999. Pp.30.
- Patterson, M. K., 1999. Managing pests of French beans, *Phaseolus vulgaris* with non-synthetic insecticide. 21st Biennial Conference, Ghana Science Association, 8th – 13th August, 1999. University of Ghana, Legon).
- Sackey, J., 1999. Potential of neem extracts for the control of pests of okro *Abelmoschus esculentus* (L) Moench in Ghana. 21st Biennial Conference of the *Ghana Science Association* 8th – 13th August, 1999, University of Ghana, Legon.
- Akuamoah, R.K., 1999. Efficacy of plant extracts and oils for the protection of cowpea against infestation by *Callosobruchus maculatus*. IOBC WPRS/ILB SROP working group meeting on 'Integrated protection of stored products. August 22-24, 1999, BBA Berlin, Germany.
- Ofori, K. 1999. The use of indigenous plants by small scale farmers for the protection of stored products against pest infestation in Ghana. IOBC WPRS/ILB SROP working group meeting on 'Integrated protection of stored products." August 22-24, 1999, BBA Berlin, Germany.

Conferences attended

- | | |
|----------------|---|
| Amoatey, C. A. | <ul style="list-style-type: none"> - Workshop on curriculum development in agroforestry July 4 -7, 1999. - African network for agroforestry education (ANAFE). July 29 – 31, 1998. Kenya. |
| Ayertey, J. N. | <ul style="list-style-type: none"> - Workshop on Entomopathology and Stored Product Pest magement. IITA and CABI BioScience IITA-PHMD. Cotonou, Benin. November / December, 1998. - 2nd BioNET International Global Workshop (BIGW 2). Cardiff, Wales, U.K. August 1999. - LGB Risk Assessment Project: Mid-term International Technical Meeting, Miklin Hotel, Accra, September, 1999. |
| Blay, E.T. | <ul style="list-style-type: none"> - 21st Biennial Conference, Ghana Science Association, 8th – 13th August, 1999. University of Ghana, Legon. |
| Danquah, E.Y. | <ul style="list-style-type: none"> - Seminar on poverty alleviation. March 24-25, 1998. University of Ghana. Legon. - First biennial national agricultural research system workshop, 16th - 20th November, 1998, Accra conference centre. - 1st FAO/IAEA Research coordinating meeting on the coordinated research programme on the genetic — improvement of underutilised and neglected crops, 7th - 11th December 1998. Vienna. Austria. |

- Root and tuber improvement (RTIP) workshop "Standardisation of the documentation system for root and tuber germplasm in Ghana". 24th – 25th June 1999. Bunso.
 - 21st Biennial conference, Ghana Science Association. 8th - 13th August, 1999, University of Ghana, Legon.
 - Regional training course on "Molecular characterization of genetic biodiversity in traditional and neglected crops selected for improvement through mutation techniques". Pretoria, South Africa. 6th – 17th September 1999.
- Kumaga, F.K.**
- First biennial national agricultural research system workshop. 16th - 20th November, 1998. Accra.
- Obeng-Ofori, D.**
- International seminar on the potential of neem in Ghana. 27th – 30th October, 1998. Dodowa, Ghana.
 - First biennial national Agric systems workshop 16th – 20th November, 1998, Accra.
 - IOBC working group conference on integrated protection of stored products 22th - 24th August, 1999. Berlin, Germany.
 - 21st biennial conference of Ghana Science Association 8th – 13th August, 1999. University of Ghana, Legon.
- Offei, S. K.**
- Seminar on poverty alleviation. 24th – 25th March, 1998, University of Ghana.
 - First biennial National Agricultural Research System workshop. 16th – 20th November, 1998, Accra Conference Centre.
 - Yam Disease Project workshop, NRI – Ghana collaborative project, 8th – 10th February, 1999, Tamale.
 - 21st Biennial Conference, Ghana Science Association, 8th – 13th August 1999, University of Ghana, Legon.
- Ofori, K.**
- First Biennial National Agricultural Research Systems workshop. 16th – 20th November, 1998. Accra.
- Olosu-Anim, J.**
- 21st Biennial Conference, Ghana Science Association, 8th – 13th August, 1999, University of Ghana, Legon.

Benefactions

Barclays Bank donated a Pentium Computer to the Department on 9th of September 1998.

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 and facilities. The Department was given the use of one of the non-residential facilities on campus. This we call the Home Science annexe, near the Department of Mathematics. For this year therefore, space for both offices and lectures was no more a problem. 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. The new facility has provided adequate lecture rooms and improved the office situation for lecturers greatly. However, there is still an urgent need for bigger laboratory space for several courses.

As a result of the larger classes, 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 4 students. Dr. Hevi-Yiboe the lecturer in charge of Family Resource Management continued to explore ways to achieve this.

The two departmental vehicles, a V.W. Combi bus and V.W. Golf are both old and need replacement. This year, the two vehicles spent more time at the workshop than on the road making the running of the department a little more challenging than normal. A 53 seater bus would be needed for conveying students to the villages for Extension Practicals and field trips in addition to a smaller vehicle for administrative purposes.

The Department is still engaged in a restructuring exercise to make the programme more relevant to the changing needs of families and the development needs of our country, Ghana. As a result, it is hoped that the name of the Department would be changed to a name that reflects what the Department is about. This process is already far advanced.

The number of lecturers at post remained at seven (7) as the previous year. The M.Phil in Home Science programme which had to be suspended due to lack of lecturers has been revived. Four students were admitted for the 1998/99 academic year in the three different areas of Home Science namely: Child Studies, Family Resource Management and Textiles and Clothing.

Courses

Courses were offered in the following programmes:

- | | | | |
|----|----------------------------------|---|------------------|
| 1. | National Diploma in Home Science | - | 2 year programme |
| 2. | BSc in Home Science | - | 3 year programme |
| 3. | BA with Home Science | - | 3 year programme |
| 4. | M.Phil in Home Science | - | 2 year programme |

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. It is hoped that soon, the Department would grow into a Faculty.

Student numbers

M.Phil Programme	4
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Bachelor Programme		
Level 200	-	34
Level 300	-	28
Level 400	-	<u>14</u>
Total	-	<u>76</u>
Diploma Programme 1st year	-	35
2nd year	-	25
	-	<u>60</u>
Total student number 4 + 76 + 60	=	<u>140</u>

Staff positions

5	Senior Lecturers - (2 on contract)
2	Lecturers
4	National Service Persons
2	Senior Staff
6	Junior Staff

Mrs. Edith Francois and Mrs. Nabilla Williams came back from their Sabbatical Leaves, and are currently on contract after retirement. Dr. Lactitia A.P. Hevi-Yiboe continued as Head of Department.

The Department got an administrative assistant to assist with the administration of the Department towards the end of the 1997/98 academic year and he has been at post since then.

Research (on going)

O-Danquah, Angelina	-	Production and consumer acceptability of soy-based yoghurt
Opate-Obrisaw, Clara	-	Research project on Improved Traditional Weaning Meals Completed. Protein quality was determined by rat assay; nutrient analysis was done and the meals fed to malnourished children to assess the capacities of the meals to restore growth.
Francois, Edith	-	Co-ordinator for the International Federation for Home Economics XIXTH World Congress to be held in Africa for the first time and specifically in Ghana at Accra.
Hevi-Yiboe, A.P. Lactitia	-	Family Values in Contemporary Ghana.
	-	Types of fuel used by households in Tema
	-	Factors that influence the choice of Elective subjects by girls in the SSS.
	-	Attitude of men at Ayigya near Kumasi towards Family Planning.
	-	Use of the seeds of <i>Pachira Insignis</i> in Food Products.
Nti, C.A.	-	Studies on Level of Usage of Iodated Salt in rural communities in Ghana.
	-	Household Food Availability and Food Consumption Behavior in Ghana.

Research Papers in Press/Accepted for Publication

- O-Danquah, Angelina - Development and Consumer Acceptability of Soymilk-based Yoghurt Paper presented at Ghana Science Association 21st Biennial Conference, University of Ghana, Legon 8-13th August, 1999.
- Hevi-Yiboe, A.P. Laetitia - 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 at The Staff Village (The Home Scientist).

Publications

- Hevi-Yiboe, A.P. Laetitia - Foods and Dishes of the Northern Ewes of the Volta Region. (A Chapter in a Book - A Handbook of Eweland Volume II. (Publisher: Woeli Publishing Services, Accra.
- Opare-Obisaw, Clara - Hevi-Yiboe, A.P. Laetitia 1999: The Cost of Balanced Diets at the Household Level. (Journal of the Ghana Science Association - Special Edition: Vol. 1, No. 1 pp 57-66). Publisher - Ghana Science Association.
- 1998: Students' Patronage and Views on Operations and Services of Food Vendors. Journal of Consumer Studies and Home Economics, Vol. 23, No. 3 pp 139-146. Publisher: Blackwell Science Ltd.
- Fianu, A.G. Docea, Esmeranda Bentil 1998: Male Junior Secondary School Students' Preference for Topics Under the Subject 'Life Skills'. Journal of ARAHE, Vol. 5, pp 151-156. Publisher: ARAHE (Asian Regional Association for Home Economics).
- Hevi-Yiboe, A.P. Laetitia 1999: The Cost of Balanced Diets at the Household Level. Journal of the Ghana Science Association - Special Edition Vol. 1, No. 1 pp 56-66. Published by Ghana Science Association.
- Nti, C.A. et al - 1999: Influence of Women's Workload on their Nutritional Status in Selected Communities in Ghana. Journal of Consumer Studies & Home Economics, Vol. 23, No. 3: 165-170.
- 1999: Growth Pattern of Breastfed Infants in Accra. Journal of ARAHE, Vol. 6, No. 1, 46-50.
- 1999: Exclusive Breastfeeding Practices among Working Mothers in Accra: Problems and Coping Strategies. Journal of ARAHE: Vol. 6, No. 2: 77-82.
- Plahar W. A. 1999: Household Food Availability and Food Consumption Behaviour in the Middle Belt Districts of Ghana. A Project Report submitted to SADAOC Foundation, ISSER, University of Ghana, Legon.
- 1999: Determinants for Effective Adoption of Improved Fish Preservation Technology and the Implications on Family Nutrition. A Project Report submitted to the Ghana/Netherlands Artisanal Fish Project, Food Research Institute, Ghana.

Conferences/Seminars/Workshops/Symposia

Fianu, A.G. Docea - **Ghana Home Economics Association (GHEA)/Canadian Home Economics Association (CHEA), Saskatoon Branch Partnership Project Workshop on Training Teacher (TOT), Training Tutors in the Teaching of "Home Economics, August, 1999, Accra, Ghana Responsibility: Co-ordinator of the Project.**

Hevi-Yiboe, A.P. Laetitia - **Ghana Home Economics Association (GHEA) and Canadian Home Economics Association (CHEA), Saskatoon Branch Partnership Project Workshop on Training of Teacher (TOT) in the teaching of Home Economics, August, 1999.**
- **Ghana Home Economics Association Annual General Meeting, April, 1999, Takoradi Holy Child Training College.**
- **Two weeks course on Family Counselling at the Presbyterian Women's Centre Abokobi, August, 1999.**

Four of the lecturers at post namely - Mrs. Docea Fianu, Mrs. Edith Francois, Dr. Laetitia Hevi-Yiboe and Mrs. Clara Opare-Obisaw attended the GHEA, April General Meeting at Holy Child Training College.

Benefactions

Mr. Dolley donated c500,000 towards the re-roofing of the shed at the Department's Nursery School.
Miss Lydia Nyako, a past student also donated three aluminium trays to the Nursery School.

DEPARTMENT OF SOIL SCIENCE

Overview

The Department's activities during the year under review, covered teaching at both the undergraduate and the graduate levels, research spanning across basic, strategic, and adaptive modes, and extension work involving soil surveys and extension services to farmers. We continued to examine ways of restoring and increasing the productivity of degraded soils. We also continued to look for the causes and solutions to the rapid decline of soil organic matter and explored ways of improving soil fertility through the use of microorganisms and recycling of nutrients to enhance crop performance and yields.

or through the application of phosphate rock alone or in combination with poultry manure. We intensified our studies on the ecology of rhizobia in Ghanaian soils, nodulation, and biological nitrogen fixation of some important grains, pasture, and multi-purpose trees. The Department is increasingly incorporating modelling into its research activities as a tool for selecting treatments, examining various rainfall or soil management scenarios and/or for extrapolating site- and season-specific research results to similar locations. We are still actively participating in the research in the Volta Basin, focusing mainly on the soils and land-use in the Lower Volta Basin after three decades of impoundment of water in the lake.

Courses

At the undergraduate level, the Department offers courses in Soil Foundation and Development, Soil Morphology, Soil Mineralogy, Soil Classification, Physical Properties of the Soil-Plant Environment, Soil Physics, Physical Properties in Relation to Soil Productivity, Soil-Plant-Water Relations, Biochemical Properties of Soils, Soil Fertility and Production, Soil Microbiology, and Soil Chemistry. At the postgraduate level, we offer courses in the four broad Soil Science disciplines, viz. Soil Biology (includes Soil Biochemistry and Soil Microbiology), Soil Chemistry, Soil Physics and Pedology.

Student numbers

The number of postgraduate students decreased from eight to seven with the completion of a Ph.D and an M.Phil Dissertation and enrolment of one M.Phil student. Currently, the Department has six M.Phil and one Ph.D student who are at various stages of their research on basic and strategic problems. Student numbers at the undergraduate level are:

NDA I	-	30
NDA II	-	5
B.Sc. Agriculture Level 200	-	64
B.Sc. Agriculture Level 300	-	23
B.Sc. Agriculture Level 400	-	7

Staff

The staff currently at post is six. Dr. S.G.K. Adiku resumed duty from one and a half years leave in Germany and France and Dr. (Mrs.) Stella Asuming-Brempong returned to post after obtaining her Ph.D degree in Soil Microbiology from the Michigan State University, USA. Professor E. Owusu-Bennoah was granted a year's leave of absence to enable him undertake a national assignment as the Deputy Director General of the Council for Scientific and Industrial Research (CSIR). Dr. M.K. Abekoe was also granted a year's study leave to do postdoctoral research in modelling soil phosphorus availability and uptake in paddy rice at the West African Rice Development Association (WARDA) in Cote d'Ivoire.

Research

As indicated earlier, our activities spanned across basic, strategic, and the applied research continuum. Generally, the research activities sought solutions to declining soil productivity and in some cases understanding the processes governing the regeneration and degradation of soils. In the area of Soil Microbiology, our studies focused on (a) the use of microorganisms and the recycling of nutrients to enhance crop yields in environmentally sound way, and the need to manage the microbial community such that nitrates are not lost from ecosystem. The major research areas in Soil Microbiology include (a) ecology of rhizobia in Ghanaian soils, (b) nodulation and nitrogen fixation of important grain, pasture/cover and tree legumes in Ghanaian soils, (c) soil organic matter enhancement for sustainable agricultural production, (d) relating the community structure of autotrophic ammonia oxidisers to nitrogen mineralization, and (e) intensifying the use of green manure (e.g. Azolla and Sesbania) in lowland rice cultivation. In these research agenda, we hope to reduce the need for artificially manufactured inorganic fertilizers, intensify the use of green manure in lowland rice and provide the population structure of nitrifying bacteria in Ghanaian soils. In Soil Physics, we examined the problems posed by spatial and temporal

variability of rainfall on agricultural productivity, particularly the hindrance to development, testing and adoption of technology. Because the use of field experimentation alone to assess technology would involve multi-location trials which are expensive and time consuming, we resorted to using crop modelling techniques. When validated and linked to climate and soil processes, models enable the assessment of crop performance under a wide range of management and environmental conditions. Current research therefore focused on modelling the Soil-Plant-Water interactions and the application of crop modelling in agricultural planning and decision making. Linked to this research focus is the need to determine experimentally the interaction between water and nutrient uptake by crops and definitions and effects of water and nutrient stresses on crop performance and yield. We continued to participate actively in research in the Volta Basin. Our focus in the basin has been on soils and land-use in the Lower Volta Basin, three decades after the construction of the dam. The need to examine salient aspects of the environment in areas near the lake was envisioned by the Volta River Authority which commissioned the Lower Volta Environmental Impact Studies to the Volta Basin Research Project at Legon for execution. Three M.Phil research theses have been completed under this project. The theses topics were (a) Pedological differences in a Cambisol in the Lower Volta Flood plains, (b) Characterization and improvement in the properties of some saline soils in the Coastal savanna zone (Volta estuary), and (c) Small-farmer Management of floodplain disturbed by damming: Case study of the Lower Volta Basin in Ghana. Other research areas that are being undertaken by members in the Department include: (a) quality evaluation and management of polluted soils in Accra, (b) improvements in productivity of saline soils of the Coastal Savanna zone, (c) nitrogen and water interaction on yield of maize grown on Vertisols, (d) influence of the amount and kinds of organic and inorganic amendments on two acid soils from south western Ghana, (e) effect of phosphorus on the nodulation, nitrogen fixation, and yield of tree legumes, (f) phosphorus uptake by pigeonpea in iron-bound phosphorus (Fe-P) amended soil, (g) phosphorus availability to maize from Togo rock phosphate amended with poultry manure and triple superphosphate, and (h) evaluation of Muriate of Potash as a potential for improving urea fertilizer efficiency on some agricultural soils in Ghana.

Publications

During the period under review, we published the following scientific papers:

- | | | |
|-----------------|---|--|
| Adiku, S.G.K. | - | Rose, C.W., Gabric, A. Braddock, R.D., Carberry, P.S. and McGown, R.L. 1998. An evaluation of the performance of maize and cowpea in sole and intercropping systems at two savanna zones in Ghana: A simulation study. 'MODEL-IT Applications of Modelling as an Innovative Technology in the Agri-Food Chain' Acta Horticulturae. |
| Amatekpor, J.K. | - | 1999. Soils and land-use in the Volta Basin: State of the Art. Pages 91-105, In: Gordon, C. and Amatekpor, J.K. (Editors). The Sustainable Integrated Development of the Volta Basin in Ghana. VBRP, Legon, Accra. |
| Dogbe, W. | - | Fening, J.O. and Danso, S.K.A. 1999. Nodulation of legumes in inland valley soils. Symbiosis (Accepted for publication). |
| Gordon, C. | - | Amatekpor, J.K. (Editors) 1999. The Sustainable Integrated Development of the Volta Basin in Ghana. Volta Basin Research Project, Legon, Accra, 159 pp. ISBN: 9988-0-0237-8. |
| Rubin, J.A. | - | Gordon, C. and Amatekpor, J.K. 1999. Causes and consequences of Mangrove deforestation in the Volta estuary. Ghana: Some recommendations for ecosystems rehabilitation. Elsevier Science Limited, Marine Pollution Bulletin 37, Nos. 8-12 441-449. |

- Tiedje, J.M. - Asuming-Brempong, S., Nusslein, K., Marsh, T.L. and Flynn, S.J. 1999. Opening the black box of soil microbial diversity. *Applied Soil Ecology*, 386: 1-14.

Conferences/Seminars/Workshops

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

- Amatekpor, J.K. - Kufogbe, S.K. and Duadze, S.E.K. 1999. Remote Sensing Application for Land-use/Cover Change Studies in the Lower Volta Basin of Ghana. Proceedings of Africa GIS 1999 Conference in Accra 21 - 24 June 1999. (in press).
- Asuming-Brempong, S. - Flynn S.J. and Tiedje, J.M. 1998. The effect of long term 2, 4-D application on soil nutrient transformation and microbial community structure. In KBS LTER SITE. All investigators program meeting July 22-23. Michigan State University E. Lansing. W.K. Kellogg Biological Station, Hickory Corners, MI. USA. 57pp.
- Flynn, S.J. and Tiedje, J.M. 1999. Assessing the population of 2,4-D degraders in both microcosm and field studies. 98th General meeting of the American Society for Microbiology, Chicago, Illinois. U.S.A. May 1999.
- Atsivor, L.A. - Dowuona, G.N. and Adiku, S.G.K. 1999. Changes in the properties of soils under three land systems in the sub-humid zone of Ghana. Proceedings of the Soil Science Society of Ghana 16th Annual General Meeting. February 16-19 1999. Ghana Cocoa Research Institute, New Tafo.
- Dogbe, W. - Fening, J.O. and Danso, S.K.A. 1999. Increasing productivity and contribution of legumes to cropping systems in Ghana. The role of elite inoculants. Proceedings of the Soil Science Society of Ghana 16th Annual General Meeting February 16-19, 1999. Ghana Cocoa Research Institute. New Tafo.
- Dorgbetor, W.K. - Amatekpor, J.K. and Dowuona, G.N. 1999. Pedological differences in a Cambisol in the Lower Volta Floodplain. Proceedings of the Soil Science Society of Ghana 16th Annual General Meeting February 16-19, 1999. Ghana Cocoa Research Institute, New Tafo.
- Dowuona, G.N. - Atsivor, L.A. and Adiku, S.G.K. 1999. Multi-criteria analysis of three land use systems in the sub-humid zone of Ghana. Regional Workshop on Farmers and Scientists in a Changing Environment. 22-26 Feb. 1999, Cotonou, Benin.
- Laryea, K.B. - Owusu-Bennoah, E. and Abenney-Mickson, S. 1999. Management of Vertisols: A comparison of strategies. Proceedings of the Soil Science Society of Ghana 16th Annual General Meeting February 16-19, 1999. Ghana Cocoa Research Institute, New Tafo.
- Yeboah, E. - Danso, S.K.A. 1999. The effect of crops/crop combinations on some indices of yield and some nutrient dynamics. Proceedings of the Soil Science Society of Ghana 16th Annual General Meeting February 16-19, 1999. Ghana Cocoa Research Institute, New Tafo.

AGRICULTURAL RESEARCH STATION - KADE

Administration

Prof. Afreh-Nuamah was granted two-year leave of absence with effect from 1st February 1999. Dr. J.K. Osei was appointed Research Officer-in-Charge of the Station with effect from 1st February 1999.

Staff

Dr. Hotsonyame returned from study leave at University of Guelph, Canada and assumed duty on 1st March 1999. Dr. Tsatsu Adogla-Bessa was appointed as Research Officer on 15th March 1999. Mr. Adjei-Nsiah was appointed as Research Officer on 1st October 1999.

Senior Members at post and their areas of research are as follows:-

Name

Designation

Area of Specialisation and Research Programme

Prof. Afreh-Nuamah	Assoc. Prof	Integrated Pest Management
Dr. J.K. Osei	Snr. Res. Officer	Plant Biotechnologist Yield improvement in tropical tree crops Rapid field multiplication of tree crops
Dr. K.G. Ofosu-Badu	Res. Officer	Plant Physiologist. Improvement in quality of upland rice. Improvement of soil fertility with compost
Dr. G.K. Hotsonyame	Res. Officer	Farming Systems Research
Dr. Tsatsu Adogla-Bessa	Res. Officer	Pasture Agronomist
Mr. E.K.S. Ahiekpor (On contract)	Snr. Res. Officer	Oil plam Agronomist
Mr. S. Adjei-Nsiah	Res. Officer	Rubber/Plantain Agronomist

Other Staff Members

There were 8 Senior Staff and 147 Junior Staff members at post during the year.

Retirements

One Senior Member, one Senior Staff and three Junior Staff members retired with effect from 30th September 1999.

Training Fellowships and Workshops and Conferences

1. A review workshop on ARS Kade/ADRA Ghana/MOFA/Department of Co-operative citrus project was held at the Station from 24th-26th May, 1999. The workshop focused on what MOFA staff should know and do to assist farmers to maintain their citrus orchards, and what the Department of Co-operatives should do to organise the farmers into co-operative groups to market their fruits

4. Leventis students from ARS Legon were trained at ARS Kade from 13th to 24th September, 1999.
5. 40 farmers from Jasikan and Kpando districts in the Volta Region attended practical training course on tree crop nursery establishment and management at the station from 1st-26th March, 1999, and 6th-17th December, 1999 under the sponsorship of FORUM, a German NGO based in the Volta Region.

Student Visits

Students from Senior Secondary Schools in Ghana continue to visit the station to see research work and management of Tree Crops and the integration of sheep with plantation crops. The following schools visited the station during the year.

1. St. Joseph's Training College, Bechem, B/A
2. Presbyterian Women's Training College, Aburi, E/R
3. Benkum Secondary School, Larteh-Akuapem, E/R
4. Nkawkaw Secondary School, Nkawkaw, E/R
5. Vitting Secondary Technical School, Tamale, N/R
6. St. John's Grammar School, Achimota, Accra, G/A
7. Asuom Secondary School, Asuom, E/R
8. Ningo Secondary School, Old Ningo
9. Abuakwa Senior Secondary School
10. Tema Parents' Association School

Hamada Rice Mill

The Japanese International Co-operation Agency (JICA) has donated a c150,000,000.00 rice mill to support the Faculty of Agriculture Rural Poverty Alleviation Programme. The mill was commissioned on 29th September, 1998. The Board of Faculty of Agriculture has provided guidelines for running the mill. A core group made up of the Dean of the Faculty of Agriculture, The Officer-in-Charge, ARS, Kade and Dr. K.G. Ofosu-Budu ses to the day to day running of the mill. A research group made up of the core group and one representative from each of the Departments of the Faculty and the other research stations has been formed to draw up a collaborative research programme on poverty alleviation with JICA. A loan of c30,000,000.00 has been granted by the University as seed money to operate the mill.

Commercialization

Commercial maize production - A thirty-acre maize farm was cultivated to produce maize for ARS, Legon for feeding poultry. About 30 tons (300 maxi bags) of dried maize was realized.

Publications

- Osei, J.K. - 1999 Rapid Field Multiplication of Plantain Using Benzyl adenine and coconut water progress reports. Inibap.

Income and Expenditure

The Income and Expenditure statement is as follows:-

JANUARY-SEPTEMBER 1999 INCOME AND EXPENDITURE

Citrus	-	25,480,450.00
Rubber	-	12,006,200.00
Cocoa	-	5,906,250.00

Nursery	-	1,897,000.00	
Palm fruits and oil	-	6,390,879.00	
Cottage industry	-	2,926,650.00	
Other crops	-	869,200.00	
Guest House	-	10,346,000.00	
Transport services	-	6,864,200.00	
Rent received	-	2,151,550.00	
Sheep	-	1,417,500.00	
Climic	-	1,481,450.00	
Corn mill	-	68,500.00	
Training courses	-	316,000.00	
Electricity	-	2,503,976.00	80,625,805.00
Repairs and Maintenance	-	12,459,741.00	
Transport Maintenance	-	10,137,702.00	
Tractor and Farm Implement	-	455,100.00	
Farms and Research	-	9,916,883.00	
Development	-	288,892.00	
Transport Fuel Charges	-	15,650,698.00	
Workman Clothing	-	1,707,110.00	
Furniture and Equipment	-	20,989,841.00	
Stationery	-	5,939,145.00	
Guest House and Hostel	-	5,976,130.00	
House Keeping	-	909,000.00	
Welfare and Amenities	-	644,000.00	
Conference and Training	-	580,000.00	
Transport Claims	-	2,814,100.00	
University Guest Centre	-	1,296,466.00	
Hospital and Health	-	14,960,985.00	
Electricity	-	44,141,775.00	
Postages and Periodicals	-	<u>777,240.00</u>	<u>149,644,808.00</u>
Deficit			69,019,003.00
Outstanding Bills			
Mobil Oil Ghana Ltd.	-	13,729,500.00	
Japan Motors	-	5,943,169.00	
Guest Centre	-	2,317,500.00	
Electricity	-	4,272,070.00	
Dr. Hotsonyame, G.K.	-	950,000.00	
Subsistence	-	<u>1,750,000.00</u>	28,962,339.00

AGRICULTURAL RESEARCH STATION - KPONG

Overview

The station continued to improve on its research output through the active participation in the DFID funded project: management of the perennial sedge *Cyperus rotundus* on Vertisols.

The problem of a shortage of housing still exists and there is an urgent need to renovate most of the houses at the station.

The three-kilometer access road to the Station was rehabilitated during June 1998 by the Feeder Road Department. The temporary grading of the road without gravelling has rendered the road just about motorable. It certainly would need attention in some parts before the heavy rains in June.

The Station took delivery of a 33-Seater Tata Bus from the Estates Organisation; in response to appeals made to the Vice-Chancellor for assistance in solving the problems of having to ride on a tractor trailer to and from work for about five years. The acquisition of the Bus has already enhanced the Station's out put in terms of land preparation, research and crop production.

Under the Government Public Investment Programme (PIP) work on the replacement of the one kilometer pipeline which commenced in July 1998, continued during the months of Nov. 1999-Jan. 2000. Work on the building of an office complex also commenced in December 1999.

The Station has embarked on a diversification of crop production Programmes to include maize and tree crops as a means of generating income rather than rely solely on rice, which has in the past been the main source of income generating activity. A hectare of mangoes has been planted to start with, and plans are advanced to increase the size of the plantation during the next major season. Seedlings of cashew have also been raised to plant. Citrus cultivation is also being considered for cultivation under a water harvesting project which has been submitted for consideration to the Ministry of Agriculture under the Manya Krobo District Assembly VIP programme.

The beef cattle programme which aimed at developing a breed suitable for the Accra Plains through Artificial Insemination (AI) was stopped in 1993 for lack of funds to import semen. The programme has in the meantime allowed natural mating to widen the N'dama base for a continuation of the project when funds become available.

The station still has problems with paying utilities like electricity and water. There have been attempts from ECG in particular to cut its services, because of the station's inability to pay its bills due to inadequate government subvention. The payment of hospital bills which is ever mounting, is another source of worry because the vote under items 2-5 cannot adequately cater for such huge bills. In this regard the suggestion, that health needs of the Station should be catered for under the umbrella of the University's general administration should again be emphasized.

Staff

- The total staff on role is 82 and consist of six Research Officers viz.:
- (1) Dr. E. O. Darkwa (Res. Officer-in-charge)
 - Dr. J. W. Oteng
 - Dr. K. Nyalemegbe
 - Dr. C. Oti-Boateng
 - Dr. M. Yangyuoru
 - Mr. Ampomah

(2) Eleven Senior Staff:

Mr. H. W. A. Kissiedu

Mr. A. D. Asemh

Mr. Simon Kotiste

Mr. Timothy Osaka

Mr. Alex Anom

Mr. D. K. Acquah

Mr. E. C. Dooson

Mr. Richard Darko

Mr. J. K. Noagbewornu

Mr. S. Y. Nyadzro

And (3) Sixty-Six Junior Staff

Appointments

Mr. Osei Amponsah was appointed Research Officer in October 1999.

Retirements

One Junior Staff-Narh Kwesi-ungraded Carpenter retired from the service of the University.

Research

The focus on research centered on rice, maize, legumes fruit vegetables and beef cattle programmes. Prominent also among the research highlights has been the development of suitable land forms to facilitate drainage on the heavy clays; Vertisols.

Rice

The trials of the ten elite varieties collected from West Africa Rice Development Association (WARDA) were tested. The results indicated that the Aromatic (Basmati Rice) Rice or "Perfumed Rice" which Ghanaian consumers love so much could be grown successfully at Kpong. Future research will therefore concentrate in this area by bringing more varieties from IRRI, India, Burma and Bangladesh since this variety attracts high premium price on the Ghanaian market. The Station is also for the first time researching into long duration (150 days) rice varieties with the view of selecting appropriate varieties for the extensive valleys in the Northern region which remain inundated for long periods. These varieties will be planted to mature at the receding end of the floods to facilitate harvesting and maintenance of grain quality.

Rice-Based Cropping System

This is a project sponsored by the National Agricultural Research Project (NARP). The main objective is to investigate the benefits of growing various vegetables (okra, garden egg, cowpea and water melon) grown in the minor rainy season/dry season in rotation with rice grown in the major rainy season. Preliminary results indicate that water use is considerably minimised in the minor rainy season/dry seasons when the above vegetable crops are grown instead of rice, thus greatly reducing production costs. Other aspects under investigation are soil nutrient dynamics and pest and disease incidence. The experiment is in its final stage.

Integrated Fertilizer-Manure Management in Lowland Rice

This is also a NARP sponsored project that involves a study on the effective use of organic manures (cow dung and poultry droppings), that are abundant in the Kpong area but not widely used for farming. Experiments are ongoing to determine how maximum benefit could be derived from these manures in the cultivation of rice. Cow dung and poultry droppings were applied on their own and also in combination with various levels of inorganic nitrogen fertilizer. The main experiment has been completed but the residual effect of the manures are being studied. Preliminary results, however, indicate that cow dung requires a longer period of decomposition to release nutrients and, therefore, needs an initial inorganic fertilizer supplement unlike poultry manure which has a higher content of readily available nitrogen, phosphorus and potassium. It has been found that by initially combining inorganic and organic fertilizers, a thorough decomposition is not required before application, thus enabling the organic matter to improve physical qualities of the soil as well as nutritional qualities.

Actual Evapotranspiration

The above NARP funded project has been completed and it is being analysed. The consumptive use of water has been determined experimentally and also empirically by calculation from agro-meteorological data. Comparisons will be made with the view of finding a good base for estimations of water requirement using climatic data. Such data are required for judicious use of irrigation water so as to minimise production costs. Rice is a crop that requires large quantities of water for its growth, but the cost of pumping water for irrigation is ever increasing.

Irrigation Studies

This project is also NARP funded. It is aimed at determining the frequency of water application and the cost effectiveness of various systems of irrigation in the cultivation of some vegetables on the Vertisols of the Accra plains. Three methods of irrigation are under study, namely: furrow, drip and the use of unglazed clay pots. These methods have been studied in the major and minor rainy seasons, during which supplementary irrigation was done. A final experiment is under way during the current dry season to determine irrigation water requirements under total irrigation (without water from rainfall).

Studies on the Management of *Cyperus rotundus*

The collaborative studies on the management of the, *C. rotundus* on Vertisols and vertic clays continued into its fifth year. The project which started in 1996 and was scheduled to end in August 1999 was extended for another year to end in August 2000. The project has budgeted for an additional fifty million cedis (c50 million) to cover staff costs, travel, consumable and the running costs of the project Land Rover. A successful Farmers field day was held on July 22, 1999 to highlight the objectives and results of the project and has since been shown on GTV. Dr. E. O. Darkwa, the co-ordinator of the project visited UK in November-December and presented a poster paper at a crop protection conference in Brighton. During the visit Dr. Darkwa also held discussions with his colleagues at the University of Bristol and plans were made for preparing dissemination material for farmers and the extension service in Ghana.

Rangeland Improvement by Sodseeding with *Stylozanthes hamata*

Researchers: Prof. F. Fianu and Rev. Dr. Amaning Kwarteng

The A. R. S. Kpong is one of the five sites in the country selected for studying the effects of rangeland improvement, by sod seeding with *Stylozanthes*. This is a NARP sponsored project and it commenced in 1998 at A. R. S. Kpong. The study is collaborated by four institutions; viz: University of Ghana, Animal Research Institute, University of development Studies and Animal Production Department (MOFA). The project is on-going and data is being compiled.

Evaluation of Improved Grass-Legume Pastures using Bullocks

Researchers: Prof. F. Fianu and Rev. Dr. Amaning Kwarteng

This is a NARP sponsored project and it commenced during the early part of 1998. There are two collaborating institutions namely, University of Ghana and Soil Research Institute (CSIR).

Status of Project: This project has come to a standstill for lack of funds and is awaiting a take over by AGSIP from NARP for the necessary funding.

Beef Cattle Improvement Programme

This is a joint research between A. R. S. Kpong and Animal Science Department, Legon. This is a long term study which commenced in 1962 at A. R. S. Legon. It has come to a stand still because of lack of funds to import semen. The project suffered a severe setback in 1998 as a result of diagnosis of T. B. infection. The first T. B. eradication programme (Tuberculosis Test) commenced in February 1998 and in that year 20 animals tested positive. The second phase of the programme commenced in February 1999 and 41 animals which tested positive have been eliminated by the test and slaughter method. Causes: (i) The Station's boundaries are open and cattle from the neighbouring kraals often graze into our paddocks and it is suspected that they are the sources of the infection. (ii) Inadequate housing which leads to over exposure of the animals as well as poor pasture contributes to reduced resistance of the animals thus predisposing them to the disease.

Measures to Reduce Infection: (i) Adequate fencing must be provided to prevent the intrusion of foreign cattle into the grazing lands of the Station. (ii) Funding should be sourced to improve the housing and the infrastructure of the project.

Research

- | | |
|----------------|--|
| Darkwa, E. O. | - Collaborative studies on the management of <i>Cyperus rotundus</i> . |
| | - Fungicidal evaluation as an integral part of the management of <i>Pseudocercospora</i> leaf spot on cowpea and okro. |
| | - Development of a weed management system in Maize-Legumes and vegetables cropping System based on conservation tillage and herbicide use. |
| Oteng, J.W. | - Rice-based cropping system - a rotation of vegetable crops grown in the minor rainy season/dry season with rice grown in the major rainy season. |
| | - Integrated manure-fertilizer management for rice production on the Vertisols of the Accra Plains. |
| | - Water Harvesting for integrated farming system in rural communities |
| | - Combined use of the soil moisture meter and the leaf moisture meter for the determination of crops water requirements on the Vertisols |
| | - Water management practices on the performance of citrus on the Vertisols |
| Nyalemegbe, K. | - Rice-based cropping system - a rotation of vegetable crops grown in the minor rainy season/dry season with rice grown in the major rainy season. |
| | - Integrated manure-fertilizer management for rice production on the Vertisols of the Accra Plains. |
| | - A study of methods of irrigation for the production of garden eggs on the Vertisols of the Accra Plains. |
| | - The effects of planting date and other climatic variables on the growth and yield of some crops (maize, cowpea, pepper, tomato and garden eggs) on the Accra Plains. |

- Oti-Boateng, C.
- The use of molecular techniques to determine nodulation requirements of the major grain legumes grown in Ghana
 - Evaluation of the nodulation requirements of the pasture legume *Srylosanthes hamata*
 - Evaluation of leguminous weed flora as cover crops on the coastal savanna
 - The effect of landform, cultural practice, plant density and herbicide on weed flora, growth, yield and nodulation of cowpea on the Vertisol
- Yangyuoru, M.
- Water Harvesting for integrated farming system in rural communities
 - Combine use of the soil moisture meter and the leaf moisture meter for the determination of crops water requirements on the Vertisols
 - Water management practices on the performance of citrus on the Vertisols
 - Use of the Theresa method for determining the optimal range of tillage operation on the Vertisols
 - Field testing and calibration of a soyabean model

Publications

- Nyalemegbe, K.
- J.W. Oteng (1998). Integrated manure-fertilizer management for rice cultivation on the Vertisols of the Accra Plains. Paper presented at the First Biennial National Agricultural Research System Workshop, National Agricultural Research Project (NARP), Council for Scientific and Industrial Research, Accra, Ghana, 16-20 November, 1998, 29-40. - in conference proceedings.
 - J.W. Oteng (1998). Integrated Azolla-fertilizer management for low land rice cultivation on the Vertisol. Paper submitted for the 4th African Farm Management Conference, Stellenbosch, South Africa, 26-30 January, 1988.
 - M.D. Dennett and L.C. Costa. (1998). Growth, nodulation and nitrogen fixation of *Vicia faba* at two crop densities and under contrasting soil moisture regimes. Paper presented at the Eighth Congress of the African Association for Biological Nitrogen Fixation, University of Cape Town, Rondebosch, South Africa, 23-27 November, 1998. - in conference proceedings.
 - (1999). Economic evaluation of pre-emergence herbicides for weed control in cowpea. Paper submitted for the 4th African Crop Science Conference, Casablanca, Morocco, 11-14th October, 1999.
- Oteng J. W..
- G. Kranjac-Berisavljevic, C. Oti-Boateng, M. Yangyuoru (1999): Recent Weather Changes in Ghana and Their Effect on Sustainable Agricultural Production, in the 21st Century. Gh. Geo. Assoc. Ann. Conf., Ghana, Koforidua, From the 25th to 28th August.
- Willcocks, T.J.,
- E.O. Darkwa, B.K. Johnson, K. Nyalemegbe, P.J. Terry, and M. Yangyuoru. (1999). Can sustainable agriculture feed the population of tropical countries for the next 25 years? - How can the production potential of Vertisols and vertic clays contribute to the demand for more food?. TAA Biennial Residential Seminar (Session 3: Physical inputs required), Edinburgh, UK, 25-26 September, 1999. - in conference proceedings.
- Yangyuoru M.,
- J. W. Oteng, G. Kranjac-Berisavljevic and C. Oti-Boateng (1999): Crops Water Requirements and Development of Efficient Water Use Results From A. R. S. Kpong, WMO/FAO/UNEP Roving Seminar, Accra Ghana, 1st - 12th November.

J. W. Oteng, C. Oti-Boateng and E. K. Asiedu(1999): Strategies and Options to Mitigate the Effects of Drought on Agricultural Production. WMO/FAO/ UNEP Roving Seminar, Accra. Ghana. 1st - 12th November.

Darkwa, E.O. - B.K. Johnson, K. Nyalemegbe, P.J. Terry and T.J. Willcocks. (1999). Control of *Cyperus rotundus* on Vertisols and vertic clays in Ghana. Paper presented at the Brighton Crop Protection Conference - Weeds, Brighton, UK. 15-18 November, 1999, 373-378. - in conference proceedings.

Workshop/Conference

Darkwa, E.O. - BCPC 1999 Conference on weeds (Nov. 1999)

Yangyuan, M. - WMO/FAO/UNEP "Roving Seminar on the Application of Climatic Data for Drought Preparedness and Management of Sustainable Agriculture", from the 1st - 12th November, 1999, Accra Ghana.

AGRICULTURAL RESEARCH STATION - LEGON

Overview

The Agricultural Research Station, Legon is one of the 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.

Efforts in the year under review were directed at strengthening income generating potential on the Station and to maximise utilisation of the animal production units. In this regard the Station's hatchery was put into operation. It is currently supplying day old chicks to the Station and other farmers. A sow unit adjoining the research piggery was also rehabilitated. The absence of pipe-borne water and the poor condition of the access road to the Station continue to top the list of the Station's problems.

Courses/practical training

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

The Leventis Foundation Farmers' Training Programme (LFFTP) took in the tenth batch of students for a ten month residential course in practical agriculture.

The Station 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 into residence for short term practical attachments. The Station registered many visits and excursions by JSS and SSS agricultural science students.

Staff

The Station has only two research officers at post: Dr. E.A. Canacoo and Dr. A. Naazie. Every effort is being put in to attract Research Officers to take up appointments on the Station.

Publications

- Canacoo, E.A.
- Arko-Mensah, Bosompem, K.A. and Akanmori, B.D. (1999): Prevalence of Toxoplasmosis infection in pigs in Ghana: Public Health Implications. Regional workshop on tropical zoonoses. Noguchi Memorial Institute for Medical Research, University of Ghana, Legon, February 3-4, 1999. (Abstract).
 - King, L.B., Awumbila, B., and Ofosu-Amaah, S. (1999): An assessment of street food safety in the Ga district: Zoonotic implications. Regional workshop on tropical zoonoses, Noguchi Memorial Institute for Medical Research, University of Ghana, Legon, February 3-4, 1999. (Abstract).
 - Tettey, M.K. and Awumbila, B. (1999): Rabies in Tamale Municipality. Regional workshop on tropical zoonoses. Noguchi Memorial Institute for Medical Research, University of Ghana, Legon, February 3-4, 1999. (Abstract).
 - Vanderpuije, W., Bosompem, K.M. and Akanmori, B.D. (1999): The prevalence of *Toxoplasma gondii* antibodies in Ghanaian sheep and goats. Regional workshop on tropical zoonoses, Noguchi Memorial Institute for Medical Research, University of Ghana, Legon, February 3-4, 1999. (Abstract).
- Naazie, A.
- Makarechian, M. and Hudson, R.J. (1999): Evaluation of life cycle efficiency in cow-calf systems of beef production. *Journal of Animal Science* 77: 1-11.
 - Smith, J.W. (1999): Modelling spatial and temporal ruminant livestock feed resources budgets under changing land use patterns in the moist savannas of Sub-Saharan Africa. (*for Agricultural Systems*).

Conferences/Workshops

- Canacoo, E.A.
- Regional Workshop on tropical zoonoses, Noguchi Memorial Institute for Medical Research, University of Ghana, Legon, February 3-4, 1999.

FACULTY OF ARTS

Overview

The Faculty of Arts comprises the Departments of Classics, English, Linguistics, Modern Languages, Philosophy, Study of Religions, the Language Centre, the School of Performing Arts which is made up of the Departments of Music, Theatre Arts, Dance Studies and the International Centre for African Music and Dance (ICAMD), as well as allied sections of the Institute of African Studies.

Students study for non-graduate diplomas and undergraduate and post-graduate degrees in departments within the Faculty, often combining courses from the Faculties of Social Studies, Law and the School of Administration. The Language Centre offers a special Proficiency Certificate in English for foreign students in addition to its onerous responsibility of teaching Language and Study Skills to freshmen. The Institute of African Studies also coordinates the teaching of the African Studies programme which is a requirement for graduation. The School of Performing Arts has become a point of attraction for a large number of foreign students desirous of learning African dance, drumming and music.

The Department for the Study of Religions continued to oversee the programmes of a number of colleges and seminars which are affiliated to the University and the Modern Languages Department played a similar role for the School of Translators of the Ghana Institute of Languages, Accra. The year also saw the initiation and conclusion of some link agreements and exchange programmes between some departments in the Faculty and other Universities. Among these were the Universities of Benin, Burkina Faso, Birmingham, Marc Bloch and Stanford.

The staffing situation in some departments and sections such as Classics, Philosophy, Arabic, Spanish, Swahili and Music remains critical. Most departments require more staff because of the increasing number of students. The resort to part-time lecturers is not an ideal situation.

Even though the problem of inadequate lecture rooms has been considerably alleviated, inadequate office space for faculty as well as books, journals and reading rooms for students make teaching and learning onerous. In the departments of Modern Languages and Religions, most lecturers are compelled to share offices. There is an urgent need to resurrect the abandoned Faculty of Arts complex and also reinforce security in the existing buildings.

Despite these constraints, the academic staff continued to fulfil their three fold obligation of teaching, research, and service to the public.

The year under review also marked the Golden Jubilee celebrations of the University of Ghana. The Faculty organised a week-long programme of activities including lectures, a symposium and a debate, drama, film shows and an awards night to honour some past and present members of the Faculty. The celebration provided the Faculty an opportunity to take stock of its performance in the past and prepare itself to face the challenges of the new millennium.

Reports by the various departments give a greater insight into their achievements, challenges and aspirations.

DEPARTMENT OF CLASSICS

Overview

There was no significant change in the situation in the department during the year under review. In spite of the large number of students, the staffing position remained very critical. Consequently, only a limited range of courses was made available to students. Also, staff ability for research was seriously hampered, as in the past.

Courses

As in the past few years, only core courses were offered for Level 100 - 300 students as well as students of the External Degree Centre.

Student numbers

Level 100	-	142
Level 200	-	160
Level 300	-	5
Level 400	-	Nil

Staff

The staffing position remained at 2, 1 Senior Lecturer and 1 Lecturer. This is obviously unsatisfactory and seriously threatens the very existence of the department.

Research

The broad areas of research were:

- (i) Life and thought of the ancient Greeks and their relevance for modern day Africa
- (ii) Roman North Africa
- (iii) Africans and women in ancient Roman literature
- (iv) Preparation of textbooks for teaching the Classics in Ghana

Publications

None were published during the year under review. However, some articles were submitted to journals for consideration.

Conferences

The staff participated in two workshops on Examinations and Test Development Procedures.

Benefactions

Nil

DEPARTMENT OF ENGLISH

Overview

During the 1997-98 and 1998-99 academic sessions, the Department of English managed to maintain a steady program of teaching, research and extension services in the face of precarious staff strength, increasing student numbers and limited resources.

Courses Taught

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 400 : Long Essay
- 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

Level 300/400: Electives

ENGL 307 : English Syntax
ENGL 308 : Phonology of English
ENGL 309 : Discourse Analysis
ENGL 312 : History of the English Language
ENGL 313 : Pragmatics
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 332 : Critical Issues in African Literature
ENGL 336 : Contemporary English Usage

Level 600

ENGL 600 : Research Methods
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 612 : Oral Literature
ENGL 615 : Post-Colonial Literature
ENGL 621 : Drama and Society in Africa

Admissions

The Department admitted the following numbers, for 1998-99.

Level 100	-	79
Level 200	-	160
Level 300	-	119
Level 400	-	68
Level 600 (1st Year)	-	5
Level 600 (2nd Year)	-	3
Foreign Students	-	40

Staffing Position

A number of staff on leave who were expected to rejoin the department failed to return, making the work load unbearably heavy on the few at post.

Ms. Edem Dzregah, lecturer, went on study leave as a Fulbright and Government of Ghana Scholar to work towards a Ph.D in English at the Indiana University in Pennsylvania, USA.

Dr. Soyini Madson and Dr. Adrienne Seward joined the department as Fulbright Scholars. Mr. A. Denkabe was away at the DuBois Institute, Harvard University as a Fulbright Fellow.

Conferences/Seminar/Workshops

August 1998, the Department participated in GESA English Studies Association conferences at Legon - several papers were presented from the Department.

- Komasi, Mabel
 - Presented a paper at the 1998 GESA conference at Legon, August 1998: **Critical Enquiry as a tool for Ensuring High Standards in Ghanaian Children's Literature.**
 - August 1999 Workshop and GESA conference, Ms. Komasi facilitated a workshop for Secondary school teachers with Gordon Adika on 'Learning Language through Literature'.

- Dako, Kari
 - Presented at GESA conference, Legon August 1998: *Pidgin as a Gender Specific Language in Ghana.*

- Wiredu, J.F./Angsotinge, G.
 - Presented at GESA conference, Legon August 1998: **Okonkwo, the father-figure in "Things Fall Apart".**

- Keleve, M.
 - Presented at GESA conference, Legon August 1998: **"On Please in English in Ghana".**

- Anyidoho, Kofi
 - Participated in a number of international seminars and conferences: African Literature Association Annual Conference, Austin, Texas, March 1998. Organized and chaired a special Round-Table by the 1998 African Humanities Institute Fellows on "Memory & Vision: Africa and the Legacy of Slavery". Also gave an Inaugural Address as the 1998-99 President of the African Literature Association.
 - "Re-Memory: An African Future". A Keynote Address at the Symposium on New Directions in Diaspora Research, organized as part of the Program of African Studies, Northwestern University, Golden Jubilee Celebrations: Living Traditions in Africa & The Diaspora: The Legacy of Melville J. Herskovits, April 3 - 5, 1998.
 - 11th Turin International Book Fair One-Day Conference on the Rapport Between Orality and Literacy in African Literature and History, Turin, Italy - May 25, 1998. Title of Paper: "Slavery & Memory: History as Script, History as Performance".
 - The Commonwealth Writers' Festival and Seminar, Kuala Lumpur, Malaysia, September 7-11, 1998. Paper Title: "The Sankofa Principle in Contemporary Ghanaian Arts: A Personal Reflection".
 - International Symposium on "Globalization & Social Sciences in Africa", Johannesburg: 14-18 Sept. 1998. Title of Paper: "National Identity & The Language of Metaphor"
 - 1998 African Studies Association Annual Conference. A Round Table presentation on "Fifty Years of African Studies in African Universities: The Case of Ghana".
 - "Memory & Vision: Africa and The Legacy of Slavery". A Public Lecture, delivered at the University of Iowa, November 4, 1998.

"African Literatures: Towards the 21st Century". An Excellency Visiting Professorship Public Lecture, El Colegio de Mexico, Mexico City June 25, 1999.

Research

Members of staff continued to do their individual research work on different aspects of language, literature and culture in spite of the heavy teaching load during the year.

- | | | |
|---------------------|---|--|
| Denkabe, A. | - | Worked on the question of the cultural turn in literary studies in Africa during his Fulbright Fellowship. His ongoing textbook project "English for Secondary School with D. Cobb, O. Sosu and H. Amartey-Quarcoo was taken to its final stage. He also made significant progress with his contributions to two other book projects "Gender Training in Ghana" edited by D. Tsikata and "Writing from the Prison House" an edition of writing by prisoners of conscience in Ghana done in collaboration with K. Karikari. |
| Amuzu, Koku | - | Made progress on his project "Post-Colonial Discourse: The Novels of Ayi Kwei Armah". |
| Angsotinge, Gervase | - | Was involved in writing teaching and learning materials for the University's Distance Education programme. He did research into the poetry of Seamus Heaney, and also did collection and analysis of the oral narratives of the Dagaaba. |
| Wiredu, J.F. | - | Began a book project on "Topics in Grammatical Studies". |
| Komasi, Mabel | - | Research is focused on Ghanaian children's literature, with particular attention to images of the girl child in Ghanaian children's literature. |
| Quarcoo, E. | - | Has been carrying out research into language of the traditional courts system in Greater Accra throughout the 1950s. |
| Dako, Kari | - | Did further research on "Pidgin in Ghana" and "Local Variety Markers" in Ghanaian English. |
| Anyidoho, K. | - | Serving as Preceptor of the 1998 African Humanities Institute, designed a multidisciplinary collaborative project involving researchers from a number of African and American universities. The Institute focused attention on "Memory & Vision: Africa and the Legacy of Slavery". As part of the program, he led the team on an extended field trip through Ghana, across to Burkina Faso, Togo and Benin. The main focus of the field trip was "Slave Routes: A Trail So Long Gone". |
| | - | Interviewer/Producer/Executive Producer, The African Heritage Series, Ghana Television—a weekly series since 1973. |
| | - | Producer & Executive Producer, Slave Routes: A Trail So Long Gone [A 15-Part Television Documentary on "Memory & Vision: Africa & The Legacy of Slavery"], 1999. |

Publications

- Anyidoho, Kofi
- "IntroBlues: A Poetic Voyage into SoulTime". In *Challenging Hierarchies: Issues & Themes in Colonial & Post-Colonial Literatures*. Eds. Leonard Podis and Yakubu Saaka. New York: Peter Lang, 1998: 231-245.
 - "Slave Castle. African Historical Landscape & Literary Imagination". *Drum-beat*: 21-32.
 - (With Anne Adams & Abena Busia), ed. *Beyond Survival: African Literature & the Search for New Life*. [Selected Papers of the 20th Annual Conference of the African Association]. Trenton, N.J: Africa World Press, [1999].
 - Et al. "Literature and the Burden of History". In *Beyond Survival: African Literature and the Search for New Life*. Trenton, N.J.: Africa World Press, 1999.
- Wiredu, J.F.
- *Organized English Grammar*. Ibadan: Academic Press.
 - *Organised English Structure* 1999.
- Dako, Kari
- 1998 ed. R.E. Obeng's *Eighteenpence*. With introduction and footnotes.

Special Programs

The English Department, through the CODESRIA African Humanities Institute Program, hosted two Group Study Abroad programs for visiting American students and faculty from West Chester University and from Goucher College.

Benefaction

The Department of English received a number of gifts during the period under review:

- A set of 21 selected books on Swiss Literature and Culture, donated by the Swiss Ambassador to Ghana, His Excellency Dr. Peter A. Schweizer.
- An IBM compatible Printer, donated by Soyini Madison, Visiting Fulbright Scholar.
- 4 Personal Computers with a set of 4 Printers and also a large box of selected books, donated by the Administration and Faculty of West Chester University in Pennsylvania. The gifts were made possible through the kind efforts of Dr. Chns Awuah of West Chester University, an alumnus of the Department of English, University of Ghana.

LANGUAGE CENTRE

Overview

During the year under review, the Language Centre continued to provide teaching, research and extension services under the constraints that apply generally to the University. Programmes in Language and Study Skills, Ghanaian languages, and English for non-Anglophones continued. Some members of staff have also been involved in 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 in January 1999.

The 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) 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].
- (2) The Ghanaian Language option in African Studies (AFST 260). In the year under review, the languages offered were Ga, Ewe, Fante, Akuapem, Asante, Dagbani, Dagari and Hausa.
- (3) Certificate of English Proficiency [Lang 001 through 012] for prospective students whose language of instruction at school was not English. These are mainly Francophones.

Student Numbers

In the Certificate of English Proficiency programme there were only 3 registered students. 500 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 numbered 7 full time Senior Members, 5 Senior Staff including 3 teaching staff and 6 junior staff.

Many teachers in nearby schools as well as faculty members from other Departments assisted the teaching of the Language and Study Skills and the Ghanaian Language courses.

Research

Research activities of academic staff were mainly on English in Ghana as well as English as a foreign language and the development of teaching materials for spoken and written English.

Conferences, Workshops & Seminars

Departmental Seminars:

- | | | |
|-----------------------|---|--|
| Nana Bram Okae II | - | On Aims and Objectives, Methods and Approaches, May 12, 1999.LC. |
| Amuzu, Evershed Kwasi | - | Social and Psychological Motivations for Codeswitching in Ghana, May 27, 1999, L C |
| Ahadzie, S.E. | - | Learning Centred Approach to the Teaching of Language and Study Skills, June 9, 1999.L C |
| Adika, Gordon S.K. | - | On Theme, Rheme and Text Analysis, 2 December, 1998, Department of Linguistics. |

Arhin, Vera	-	Handling Large Heterogeneous Classes. June 2, 1999. Department of Linguistics.
Conferences and Workshops		
Nana Bram Okae II	-	Second Workshop on Examination and Test Development Procedures. May 25- 26, 1999.
	-	Ghana English Studies Association Conference at UCEW 16-19 August, 1999.
Adika, Gordon S.K		Facilitator, Ghana English Studies Association Conference and Workshop on 'Literature and Language Development' at UCEW, 16-19 August, 1999
Amuzu, Evershed Kwasi	-	Second Workshop on Examination and Test Development Procedures. May 25-26, 1999. GHANA ENGLISH STUDIES ASSOCIATION Conference, UCEW, August 19-20, 1999.
Ahadzie, S.E.	-	Second Workshop on Examination and Test Development Procedures. May 25-26, 1999.
	-	GHANA ENGLISH STUDIES ASSOCIATION Conference, UCEW, August 19-20, 1999.
Arhin, Vera	-	GHANA ENGLISH STUDIES ASSOCIATION Conference, UCEW, August 19-20, 1999.
Swanzy, Cobbinah		Second Workshop on Examination and Test Development Procedures, May 25-26, 1999.
Andoh-Kumi, K	-	GTZ-ASTEP Planning Workshop, 26-28 April, 1999. Paper presented: 'The National Language Policy for Education: A Mirage.'
	-	USAID AIR Researchers Workshop on Improving the Quality of Education in Ghana at University of Cape Coast, 16-26th August, 1999.

DEPARTMENT OF LINGUISTICS

Overview

In the year under review, the Department of Linguistics continued to offer courses at the bachelor's, graduate diploma, master's and doctoral levels in Linguistics and Ghanaian Language Studies. For the first time since the introduction of the course credit system, the Department admitted Level 100 students.

Courses

As in previous years, courses taught in the Department included: General Linguistics Theory (Phonetics, Phonology, Syntax, Semantics), the Phonetics, phonology, syntax and semantics of Ghanaian languages (especially, Akan, Ewe, Dagaare, Ga and Dangme), Applied Linguistics, Theory of Translation, Sociolinguistics, Language and Culture, Oral Literature and Discourse analysis.

Student Numbers

Level 100 - 121	
Level 200 - 180	
300 - 101	
400 - 73	
Postgraduate Diploma	- 2
M.Phil I	- 8
M. Phil (GHLS)	- 1
M.Phil II	- 3
Ph.D	- 7

Staff

The Department had a 13-member teaching staff made up of four professors (three of whom are on post-retirement contract), four senior lecturers, four lecturers and a tutor. Professor Yankah was granted a ten-month leave of absence and Dr. Kofi K. Saah, Senior Lecturer, was appointed the Acting Head of Department. Dr. Francis Oyebade of the University of Ilorin, Nigeria, was appointed a Visiting Scholar to the department. Professors Florence A. Dolphyne and Alan S. Duthie retired from the University and were engaged on post-retirement contracts.

Research

Members of staff engaged in research activities in the areas of their expertise and interest. The Department continued with two major research projects in collaboration with two foreign universities. The first involves lexicographic and typological (syntactic and semantic) study of selected Ghanaian languages: Akan, Ewe, Ga, Dagaare, Buli and Gurune as well as a literacy programme in the Builsa area of the Upper-East Region jointly undertaken with the Linguistics Department of the Norwegian University of Science and Technology (NTNU) Trondheim, and funded by the Norwegian Research Fund for Universities (NUFU). The second is the Akan Dictionary Project, which is being undertaken in co-operation with the University of Zurich.

Final year students' workshops attended

The Department continued with its seminar series in which both staff and graduate students presented papers on their on-going research. The Department hosted the Legon-Trondheim Co-operation in Linguistics seminar on 4-9 March 1999. Members of staff attended and presented papers at both local and international conferences of such professional associations as the Linguistics Association of Ghana (LAG), the Ghana English Studies Association (GESA), the 2nd Colloquium on Gur Languages in Cotonou, Republic of Benin and others.

Below are the conferences, seminars and workshops attended by members of staff and papers presented.

- Agbedor, P.K
- "Ewe Personal Pronouns and Agreement", paper presented at Department of Linguistics Seminar, 10th March 1999.
 - Ghana English Studies Association (GESA) workshop, Winneba, August 16-18, 1999.
 - Legon-Trondheim Linguistics Project Annual Seminar, 4-9 March 1999.
 - Workshop on Evaluation and Test Development, University of Ghana, Legon, 25-26 May 1999.
- Agyekum, Kofi
- "Aspects of Persuasion in Akan Communication", paper presented at Department of Linguistics Seminar, 4th November 1998.
 - "Body Part Expressions in Akan", paper presented at the Linguistics Association of Ghana (LAG) conference, University of Ghana, Legon, 8th January 1999.
 - "Indigenous Education in Africa", paper presented to American tourists at Legon, 23rd July 1999.
 - Workshops on National Consultative council on Ghanaian Languages, GNAT Hall, Accra, 5th February & 30th April 1999.
 - Workshop on the Bureau of Ghana Languages, Accra Vocational Institute, 9th February 1999.
 - Workshop on the Bureau of Ghana Languages, National Museum, Accra, 24th August 1999.
 - "Report on the Akan Dictionary Project", presented at the Legon-Trondheim Workshop on Lexicology and Standardisation of Terms, Department of Linguistics, Legon, 4-9 March 1999.
 - Workshop on Examination and Test Development, University of Ghana, Legon, 25-26 May 1999.
- Akanlig-Pare, G.
- "Nominal Derivations in Buli", presented at the Afrika und die Globalisierung conference, University of Bayreuth, 8-10 October 1998.
 - "Some Remarks on Buli Serial Verbs", presented at the 2nd Colloquium on Gur Languages, Cotonou, 29 March - 1 April 1999.
- Anyidoho, A.
- "The So-called High Status of Women in Akan Society: Myth or Reality?", paper presented at the Semi-annual conference of the Linguistics society of Ghana, University of Ghana, Legon, January 1999.
 - "The enduring footprints of Madam Afua Abasa in the paths of time", paper presented at a Workshop of "Women Writing in Africa" (a Ford Foundation Association (GESA), UCEW, Winneba, 19-21 August 1999.
 - Colloquium of the Institute of Economic Affairs, Busua, 3-5 September 1999.

- Apenteng-Sackey, E.
- Workshops on National Consultative council on Ghanaian Languages, GNAT Hall, Accra, 5th February & 30th April 1999.
 - Workshop on the Bureau of Ghana Languages, Accra Vocational Institute, 9th February 1999.
 - Workshop on the Bureau of Ghana Languages, National Museum, Accra, 24th August 1999.
 - Legon-Trondheim Workshop on Lexicology and Standardisation of Terms, Department of Linguistics, Legon, 4-9 March 1999.
 - Workshop on Examination and Test Development, University of Ghana, Legon, 25-26 May 1999.
- Dolphyne, F.
- "The Akan Dictionary Project", paper presented at the 21st West African Linguistics Society conference, University of Cocody, Abidjan, Cote d'Ivoire, 26 July - 2 August, 1998.
 - "The Status of the Central Vowel in the Akan Language", paper presented at a Department of Linguistics seminar, 31st March 1999.
- Duthie, A.S.
- "Where to start the teaching of reading", paper presented at the conference of the Ghana English Studies Association (GESA), Winneba, August 1999.
- Dzameshie, A. K.
- "English and Ghanaian Languages: A Study of Language Contact Phenomena in Ghana", a paper presented at the annual meeting of the Linguistic Association of Ghana, University of Ghana, Legon, 8th January, 1999.
 - "Serial Verb Constructions in Ewe", a paper presented at the Legon-Trondheim Project Seminar, University of Ghana, Legon, 4th March 1999.
- Osam, K.
- "The schematic structure of personal ads in the 'P&P'. Paper presented at the Semi-Annual conference of the Linguistics Association of Ghana, University of Ghana, Legon, 8th January 1999.
 - "Verbal Alternations in Akan", paper presented at Legon Trondheim Linguistics Project Workshop, University of Ghana, Legon, 4-8 March 1999.
 - "The Death of the Indirect Object in Akan", paper presented at a Department of Linguistics seminar, 7th October 1998.
 - "Can't you feel the love in the 'P&P'?", paper presented at a Department of Linguistics seminar, 17th March 1999.
- Saah, K.K.
- "A Note on Tense and Aspect in Akan", paper presented at Department of Linguistics seminar, 11th November 1998.
 - "The Tense and Aspect System of Akan", a paper presented at a workshop on Lexicography, NTNU Trondheim, Norway, 8th December 1998.
 - "Constituent Focus and the Focus Position in Akan", a Guest lecture delivered at the Department of Linguistics, NTNU Trondheim, Norway, 14th December 1998.
 - Linguistics Association of Ghana (LAG) conference, University of Ghana, Legon, 8th January 1999
 - Legon-Trondheim Linguistics Project Workshop, University of Ghana, Legon, 4-9 March 1999.

Workshop on Examination and Test Development Procedures, University of Ghana, Legon, 25-26 May 1999.

- Saanchi, J.A.N. - Workshop on Examination and Test Development Procedures, University of Ghana, Legon, 25-26 May 1999.
- Yankah, Kwesi. - "African Folklore and the Challenges of a Global Lore", keynote address given at the American Folklore Society conference, Portland, Oregon, November 1998.
- "Africa in the Academic Media", paper presented at the workshop on "Communicating Africa", African Studies Programme, University of Pennsylvania in conjunction with Bryn Mawr, Haverford & Swarthmore Colleges, October 1998.

Publications

- Agyekum, Kofi - Introduction to Literature. Legon: Media Design, 1999. 60 pages.
- Anyidoho, Akosua - "The Influence of Socio-cultural Changes on ApaeE", in Beyond Survival: African Literatures and the Search for New Life. (African Literature Association Selected Papers Series.) Anyidoho, Kofi, Abena Busia & Ann Adams, Eds. Africa World Press, pp. 85-108.
- Yankah, Kwesi. - "African Folk and the Challenges of a Global Lore", *Journal of American Folklore* 112: 140-157, 1999.
- "Rhetoric: Anthropological Perspectives", in Mey, Jacob (ed.) *Concise Encyclopedia of Pragmatics*. Amsterdam, New York, Oxford: Elsevier, pp. 783-787.
- "The Question of Ananse in Akan Mythology", in Sutherland-Addy, Esi (ed.) *Perspectives in Mythology*. Accra: Goethe Institut, 1999, pp. 134-147.

Benefactions

During the year the department received a number of books and gifts from some individuals and organisations. Dr. S. G. Obeng, a former member of staff, presented some books to the Department. Professor Thomas Bearth of the University of Zurich sent current and back issues of the *Journal of African Languages and Linguistics*. The Utrecht Institute of Linguistics OTS in the Netherlands also gave the Department some books and paid for subscriptions to the *Linguistics Review*, *Journal of Child Language* and *Glott International* as a result of Dr. Saah's visit there in the 1997/98 academic year.

DEPARTMENT OF MODERN LANGUAGES

Overview

The Department has continued to offer courses at both the undergraduate and graduate levels. The French and Russian sections have also undertaken a revision of their academic programmes to keep them in tune with changing international trends. In addition to this the French Section has instituted an outreach programme to provide specialized practical language course for postgraduate students of other faculties.

The academic staff strength stands at 23 while the total number of students in all the five language sections of the Department is 907.

•	ARABIC	-	120
•	FRENCH	-	258
•	FRENCH M.A./M.PHIL	-	4
•	RUSSIAN	-	92
•	SPANISH	-	210
•	SWAHILI	-	223

Research

Sampson, K.A. - Comparative French-Akan linguistics
- Pragmatics of French in West Africa

Adam, G.N. - English in Russian lexical borrowings, with particular reference to computer terminology.

Conferences attended

Badasu, C.K.M. - "Le Chef - d'oeuvre inconnu: La peinture comme metaphore de l'ecriture". Conference organized by Alliance Francaise in conjunction with the Embassy of France, Accra, 5 November, 1999.
- "Arts ecritures du monde francophone et quete identitaire", University of Cocody, Abidjan, Cote d'Ivoire, 23-27 November, 1999.

Benefactions

During the year under review, IFESH-Ghana donated a consignment of ninety-seven (97) assorted Spanish textbooks to the Department.

DEPARTMENT OF PHILOSOPHY

Overview

The Department is gradually but steadily shedding its conservative outlook and entering the high-tech. era. A computer that had been sitting in a box for years has now been installed with all the necessary accessories including a modern printer and a UPS.

To ensure its smooth operation, a new standing fan has been purchased and the old air conditioner has been re-activated and the whole office has been secured with burglar proof iron windows and doors. As reflected in our latest letter heads the Department has access to fax machines and E-mail services while the intercom is complemented by a mobile phone by courtesy of the acting head of Department. Visitors can also be treated to cold iced water or drinks from a brand new table top fridge.

The Department is also grateful to the Goethe Institute for the generous donation of 75 Philosophy books to our Department Library in August 1999 and to Dr. Helen Lauer who received them on behalf of the Department. Parenthetically, the Department also thanks Dr. Helen Lauer for donating over 200 of her postgraduate books in Philosophy and comparative Religion to the Department in 1989. The oversight over the years is deeply regretted.

Staffing

A recent graduate of the University College of London Dr. Alba Papa Grimaldi (an Italian English) joined the faculty at the beginning of the academic year and has been teaching level 200 and 300 courses including Existentialism, Socrates and Plato, Empiricism and Rationalism.

Mr. Archampong has reported back from Sabbatical Leave but for health reasons his load is being shared by colleagues. Dr. Agyemang has been offered a three-months extension to his one year leave of absence at his request and is expected to return by January 2000.

The staffing position thus stands at six.

Gyekye, K.	-	Teaches 2 undergraduate courses per semester
Archampong, K.	-	Not in active service
Lauer, H.	-	Teaches 3 undergraduate courses per semester
Osei, J. (Rev.)	-	Acting Head of Department - Teaches 3 courses per semester
Grimaldi, Alba P.	-	Teaches 3 undergraduate courses per semester

Research during the year

Gyekye, K. He continues to research into Cultural Values, Tradition and Modernity. The Life and Works of Dr. J.B. Danquah. He is also actively involved in a U.S.-based research project into African Concepts of Consciousness.

- Lauer, Helen - She continues her research into the mathematical sciences, Time, Values, Truth and Development in Africa etc. She completed her B.A. in Mathematics course by the end of the 1998/99 academic year. She is also preparing three papers for the 11th International congress of Logic, Methodology and Philosophy of Science.
- Osei, J. - Continues to research into issues in Development, Democracy, Ethics and Philosophy of Religion, Culture, Human Rights, Church and state Relations, Fraud etc. He is involved in the U.S.-based African Concepts of Consciousness Project as well as the Institute of African Studies Research into Asante Chieftaincy Traditions.
- Papa-Grimaldi, A. - Her research interest is mainly in metaphysics, History of Philosophy and Phenomenology. She has however taken a serious interest since her arrival in Ghana in African culture and related epistemological and ethical issues.

Publications

- Lauer, Helen - Critical Notice: Tradition and Modernity by K. Gyekye. Philosophy Books January 1999 pp. 10 - 14.
Her anthology: Changing Values/changing Technologies has been sent to the publishers in the U.S.
- Osei, J. - "The Philosophical Basis of Human Rights in African Culture: The Akan Example. Human Rights issues in Ghana. Faculty of Law and Friedrich Ebert Edn. 1998 pp. 23 - 39.
- Christians and the Defence of Human Rights, Trinity Journal of Church and Theology Vol VII June 1998 Numbers 2, 2.
- Egoism vrs Altruism: A False Dichotomy in Ethics - accepted for publication by the Legon Journal of the Humanities for the 1999 edition. 'Fraud and Traditional African Ethics' in The Proceedings of the International Conference on Fraud and The African Renaissance Kampala Uganda June 1999. (forthcoming).
The Myth of the Golden Stool and Its Metaphysical and Moral Significance, pp 151, 160. Perspectives on Mythology edited by Esi Sutherland-Addy, Goethe Institute Accra 1999.
- Osei, J. - Continues to research into issues in Development, Democracy, Ethics and Philosophy of Religion, Culture, Human Rights, Church and state Relations, Fraud etc. He is involved in the U.S.-based African Concepts of Consciousness Project as well as the Institute of African Studies Research into Asante Chieftaincy Traditions.
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 - The Myth of the Golden Stool and Its Metaphysical and Moral Significance, pp 151, 160. Perspectives on Mythology edited by Est Sutherland-Addy. Goethe Institute Accra 1999.

Conferences/Seminars/Workshops/Symposia

- Gyekye, K.
- He presented a paper at the last J.B. Danquah Memorial Lectures organized by The National Academy of Arts and Science at the British Council Hall, Accra. The title of the paper was 'Beyond Cultures: Perceiving A Common Humanity'.
 - He also co-chaired the International CODESRIA Institute of African Studies and the Humanities. University of Ghana.
 - He also chaired the seminars organized by the research team from the US and Nigeria for the African Concepts of Consciousness Project.
- Osei, J.
- He was invited to read his paper - Fraud and Traditional African Ethics at the International Conference on Fraud and the African Renaissance in Kampala, Uganda. Owing to air ticket problems, the paper/abstract was read on his behalf.
 - He participated in the 1st Seminar on the U.S.-based African Concepts of Consciousness Project at Legon in July, 1999.
 - He also participated in the Workshop on Asante Chieftaincy Traditions at the Institute of African Studies in August 1999.
 - He continues to participate in the on-going Human Rights Forum organized by the Faculty of Law. The CHRAJ and the Frederick Ebert Foundation.

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DEPARTMENT FOR THE STUDY OF RELIGIONS

Overview

During the year under review the Department celebrated its first Open Day on 4th April 1999 as part of the 50th Anniversary Celebration of the University. The successful occasion was also marked by the inauguration of the Religious Students Association of Ghana (RESAG).

The Department ran a total of 76 courses over two Semesters at the Diploma, Undergraduate and Graduate levels of study. A number of Masters candidates successfully completed their studies and were awarded the Degree. The statistics of registered students are:

Programme	Number of Students
Diploma I	34
Diploma II	29
Level 100	99
Level 200	310
Level 300	186
Level 400	136
MA/M. Phil Pt. I	4
M. Phil Pt. II	5
Ph. D	3
Foreign Students	42
TOTAL	848

Extension work

Faculty in the Department continue to teach at the Accra Worker's College. The Department also continued to co-ordinate the special affiliation between the University and five Seminaries/ Theological Colleges. They are:

- Trinity Theological College
- St. Victor's Major Seminary, Tamale
- Christian Service College, Kumasi
- Ghana Baptist Seminary, Abuakwa - Kumasi
- St. Peter's Major Seminary, Pedu - Cape Coast.

Staffing

Ten members of the academic staff were at post during the year. Dr. Elisabeth Amoah returned from a year's sabbatical leave and Dr. Rebecca Ganusah who has successfully completed her doctoral studies at the University of Edinburgh returned to the Department. The teaching team was assisted by five National Service Personnel two of whom (Miss Ernestina Quist and Mr. Anthony Sumnaya Kumaseh) were recognised by the Department for their industry and dedication to duty.

Faculty members continued to research and participated in various workshops and conferences. They also offered their services and expertise to various religious bodies as resource persons as indicated below.

Research

- Atiemo, Abamfo Ghana. - Major Themes in the Theology of Contemporary Popular Christianity in Ghana.
- Ammah, Rabiatu - Women in Religion: Focus on the Impact of the Federation of Muslim Women's Association in Ghana.
- Dovlo, Elom - New Religious Movements from the African Diaspora in Ghana.
- Tracking Survey of Released Trokosi Women. [Population Impact Project/ International Needs Ghana. Project].
- Kudadjie, J.N. - Attitudes of the Ga and Dangme people to change and modernity as shown in their proverbs.
- Ideals, Aspirations and Actual Experiences of Methodist Ministers, Ghana.
- Omenyo, Cephas - Charismatic Renewal Movements in Mainline Churches in Ghana.
- Sulemana, Mumuni - Christian & Muslim Relations in Ghana.

Publications

- Ammah, Rabiatu - 'What Faces Us as Muslims Today' in *Ilm: The Magazine for the New England Muslim*, Vol.1, No.5, 1999, pp.10-11.
- Amoah, Elizabeth - "African Indigenous Religions and Inter-Religious Relations." *International Interfaith Centre*, Oxford, January, 1999
- "Baume am Flubufer" (The Riverside Trees, A Meditation on Psalm 1), in Psalm 1: wie ein Baum gepflanzt an Wasserbächen". Published by Deutsche Bibelgesellschaft, Stuttgart, 1999.
- Dovlo, Elom - "The Northern Outreach Program of the Presbyterian Church of Ghana" (with S.S. Sule-Saa) in *International Bulletin of Missionary Research* Vol.23, No.3, July 1999, pp.112-116.
- "The Theological Basis for Development" in Workshop Report on The Importance of the Church in Human Development, PCG, Abetifi, July 1999, pp. 77-91.
- Kudadjie, J.N. - With Joseph Osei, "Understanding African Cosmology: Its content and contribution to World-view, Community and the Development of Science" in

C.W. du Toit (ed.), Faith. Science and African Culture - African Cosmology and Africa's Contribution to Science. Pretoria: Research Institute for Theology and Religion, University of South Africa. 1998. Pages 33-64.

- Omenyo, Cephas. - "Work of the Spirit in proclamation and manifestation of the Spirit within the Church" (forthcoming) in Trinity Journal of Church and Theology.
- Yeboah, Brandford - "The Significance of the Concept of Shavuoth for the Celebration of Pentecost." Paper presented at the Conference of Reading the Bible from a Jewish Perspective, October - November 1998. The Hendrik Kraemer Institute, Oegstgeest, The Netherlands. (Forthcoming)
- "Reading The Bible With The Community: The Voice Of The Non-Literate African." University of Pretoria Conference on African Hermeneutics, August 7 - 10, 1999 (Forthcoming).

Workshops/Conferences/Seminars

- Atiemo, Abamfo - 'The charismatic movement and the mainline churches - the Ghanaian experience.' Workshop on the Charismatic Movement and the Mainline Churches. Organized by the Church of Central Africa - Presbyterian Biantyre Synod, Malawi. November 25, 1998 (Facilitator).
- 'Is there anything wrong about Christians becoming members of secret societies and mystical orders?' Workshop on New Religious Movements, Sects and Cults, (Osu Children's Home). Organized by Evangelism Committee of the Christian Council of Ghana. Participant: June 30 - July 6, 1999
- 'The theology of hope and the charismatic movement in Ghana.' International Reformed Theological Institute. Theologisch, Seminarium Hyde Park, Doorn. The Netherlands. Participant: July 13 - 17, 1999 Conference of the European Pentecostal-Charismatic Research Association, Academy of Missions, University of Hamburg, Germany. (Without presentation).
- Ammah, Rabiatu - 'Responsible Fatherhood: What the Qur'an Says' by Families Together Ghana, 23rd - 24th November 1998. British Council Hall, Accra.
- 'Conscientization and Empowering the Ghanaian Muslim Woman for National Development. The Role of FOMWAG', Columbia University (Institute of African Studies and Middle Eastern Studies), 3rd March 1999.
- Colloquium on Religion and Culture By Circle of Concerned African Women Theologians in Cape Town. South Africa. 16th - 21st December, 1998. (Without presentation).
- 'Sarah and Hagar's Heirs: The Changing Roles of Women in Judaism, Christianity and Islam' By Henry Luce, Forum in Abrahamic Religions. Project of University of Hartford and Hartford Seminary. at Hartford University, 10th - 11th May, 1999. (Without presentation).
- Amoah, Elizabeth - 'Religion, Innovation and African Indigenous Spirituality.' A Keynote Address, Conference of British Association of the Study of Religions, Wales 1998.
- Dovlo, Elom - 'The State and Religion: Complementing Agents for Change, Peace, Unity and Stability.' The Public Forum on Religious Tolerance, National Commission for Culture, National Theatre, Accra. 6th August 1998.

- 'Religious Bodies, Subsidiarity and Development'. Conference on Human and Economic Development - the Importance of Civil Society and Subsidiarity. Organised by the Catholic Academic Exchange Service. KAAD, Kumasi 12-16th November 1998.
- "Traditional barriers to the Development of Women". Association of Theological Institutions of Southern and Central Africa (ATISCA)/ Africa Christianity Project (ACP) Conference on Religion and Gender. Harare. 7th - 16th December 1998.
- 'Religion and the Integration of Cultures'. The CORDESRIA African Humanities Institute. THEME: National Cultures and Identity in Africa: The Relevance of Philosophy. University of Ghana. January 8, 1999.
- 'New Religions Movements in Ghana' University of St. Thomas, USA Study Tour Workshop. Institute of African Studies. 11th January 1999.
- 'God's Spirit And Sunday Morning Worship - The Challenge Of The Charismatic Movements' Keynote Address to the 4th Theological Consultation of the six (6) Member Churches of the Bremen Mission. Ho. 23rd February, 1999.
- 'Religion and Healing in Africa' Drew University Study Tour of Ghana Workshop. Institute of African Studies February 1999.
- The Pan Commonwealth Forum on Open Learning. 1-5th March 1999. Bandar Seri Bagawan. Brunei Darussalam. (Without presentation).
- The Pros and Cons of Religious Proliferation' ROTARY CLUB. Accra West, Ghana at Golden Tulip Hotel. 31st March 1999.
- 'The Theological Basis for Development' Paper presented to the Presbyterian Church of Ghana Seminar on The Importance of the Church in Human Development. Abetifi, 28th June 1999.
- African Association for the Study of Religion (AASR) Conference. Nairobi, Kenya 27th -30th July 1999. Theme: The Religions of East Africa and Their Study in the Age of Globalisation. Respondent to: i. 'Incorporation of African World Religion into other Religions' by Prof. A.B.A.T. Byaruhanga-Akiiki. ii. 'The Charismatic Churches in East Africa' by Rev. (Dr.) D. M. Mutungi.
- African Heritage Series/African Humanities Institute: 'Africa and the Legacy of the Slave Trade'. Television serial, Ghana Broadcasting Corporation, August/ September 1999. (Member. Resource Team).

Kudadjie, J.N.

- "Researching Morals and Rituals" at Second Gospel and Culture Workshop. Akrofi-Christaller Memorial Centre for Mission Research and Applied Theology. Akropong. 15th October 1998.
- "The Challenge of African Traditional Religion and African Culture" at Ghana Evangelism Committee Mission Strategy Seminar. Accra, 27th November, 1998. Theme: Contending for the Faith.
- "The Christian and Politics" at Presbyterian Church of Ghana Ga Presbytery Bible Study and Prayer Group Convention, Accra. 9th January, 1999.
- "The Church's Contribution towards realizing Social Justice" at Bible Week Symposium on Social Justice. Trinity College, Accra. 10th February, 1999.
- "The Church and Conflict Resolution towards the Millennium - Conflict in the Church" at Odjidja Hall Week Celebration Symposium. Trinity College, Accra. 25th March, 1999.

- "The Relevance of the Methodist Prayer and Renewal Programme" at National Congress on Evangelism and Renewal. Methodist Church - Ghana. Mawuli School. Ho. 6th May, 1999.
 - Methodist Church Nigeria Ministers Retreat and Consultation, Sagamu 29th June - 4th July, 1999. Theme: Vision for the next Millennium - Jesus the Heart and Soul of Evangelism.
 - "Scripture as the Interpreter of Tradition and Culture - Towards a Theological Perspective on Morals" at Akrofi-Christaller Memorial Centre for Mission Research and Applied Theology, Akropong. 11th August 1999.
 - "Biblical Teaching on Work and Work Ethics with observations on the Ghanaian Scene" at Nurses' Christian Fellowship Ghana 33rd Annual Conference. Bunso. 4th September 1999. Theme: Celebrating Nursing - The Past, the Present and the Future: The Christian Perspective.
- Mumuni, Sulemana
- 23rd - 24th November 1998. Rapporteur of Working Group 3 on - 2The Responsible Father - What The Qur'an Says.'
 - One day Seminar on Christian, Muslim Relations: The Ghanaian Experience, Legon, July 1999. Paper presented: 'Muslim, Christian Relations - The Muslim Perspective.'
 - One day Seminar on Education A Tool For Development, Accra (O'Reilly Sec. School), 17th September 1999. Paper presented: 'The Muslim Youth And Education.'
- Omenyo, Cephas
- International Reformed-Charismatic Dialogue, Seoul, South Korea. May 13-23, 1998.
 - Main Speaker, National Baptist Ministers' Conference, Mawuli School, Ho. 'Challenges that Independent Charismatic Churches pose to Mainline and Evangelical Churches in Ghana.' August 4, 1998
 - Facilitator, Church of Pentecost Pastors' Training Workshop, Church of Pentecost Bible Centre, Sowutuom, Accra. August 11-13, 1998.
- Yeboah, Brandford
- "The Significance Of The Concept Of Shavuoth For The Celebration Of Pentecost." Paper presented at the Conference of Reading the Bible from a Jewish Perspective, Hendrik Kraemer Institute, Oegstgeest, The Netherlands. October - November 1998.
 - "Reading The Bible With The Community: The Voice Of The Non-Literate African." Paper presented to the University of Pretoria Conference on African Hermeneutics. August 7 - 10, 1999.
 - Facilitator: March 1999 Workshop on Liturgy for Widowhood Rites, Abokobi Women's Centre.
 - Contributor: November, 1998/March, 1999 Workshop on Biblical Commentary: Writing In Akan. A project of the Akrofi-Christaller Memorial Centre for Mission and Applied Theology, with Assistance from African Theology Initiative.

Benefaction

The Department received:

1. Donation of books from Saudi Embassy in Ghana, Iranian Embassy in Ghana, Local Spiritual Assembly (LSA) of Madina Bahais of Ghana, The Circle of Concerned African Women Theologians, The Interdenominational

Theological Centre, The Lutheran World Federation, Mr. Soufla, Ghana Universities Press, Dr. Elom Dovi Dr Holgar Weiss, University of Helsinki, Finland and the al-Muntadah al-Islamiyyah, Foundation. The following journals were also received gratis, MID-STREAM, Ministerial Formation, Review of Religions, Newsletter on African Old Testament Scholarship, Theology in Context.

2. 1 ceiling fan for use in the Library from the graduating Diploma class (1997-1999).
3. 25 reams of A4 Photocopy papers from Mr. Nurdeen Saeed an alumnus of the Department.
4. A Cash donation of One Million Cedis, from Mr. Soufla, formerly of the Iranian Consulate.

SCHOOL OF PERFORMING ARTS

Introduction

Administration

Acting Director:

Dr. Martin Okyere Owusu, Senior Lecturer in Theatre Arts.

Head of Theatre Arts:

Mr. Asiedu Yirenkyi, Senior Lecturer in Theatre Arts

Head of Music:

Dr. W.O. Anku, Senior Lecturer in Music

Head of Dance Studies:

Mr. S. Asare Newman, Senior Lecturer in Dance.

Artistic Director, Abibigromma:

Aaron Gyabaah Yeboah, Lecturer

Drama Studio Manager

Mr. John Djisenu, Sen. Lecturer

The School of Performing Arts, established in the 1977-78 academic year, has three academic departments: Music, Theatre Arts, and Dance Studies. All three disciplinary areas offer 3-year diploma as well as B.A. courses. Music offers a B. Mus and an M.A./M.Phil programme, whilst Theatre Arts offers an M.F.A./M.Phil degrees. The School is planning to introduce a professional degree, Bachelor of Fine Arts, while it reduces the three-year diplomas to two year programmes.

The School has a very dynamic resident theatre company, Abibigromma, as well as a research wing, International Centre for African Music and Dance currently under the directorship of Professor Emeritus J.H. Kwabena Nketia. The Efua T. Sutherland Drama Studio is another major centre for the performing arts.

The School of Performing Arts continues to attract a great deal of patronage from international students and research scholars. During the year under review, the School offered both full and short courses to a large number of international students in the three areas of dance, drama and music. It also played host to a number of research students and scholars.

Department of Theatre Arts

The department 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.

Dance Department

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.

Department of Music

The Department of Music offered courses to over 100 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.

The Efua T. Sutherland Drama Studio

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

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.

The year under review has also seen the Studio ploughing back part of its profit into painting and general repairs. 400 new plastic chairs have also been purchased to add to the existing stock.

Abibigromma: 1997-98

Abibigromma the Resident Theatre Company of the School of Performing Arts, Legon, continue 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.

Objectives of the School

On the occasion of the 25th Anniversary of the establishment of the School, the then vice-chancellor, Prof. A. Sawyerr, reiterated the real objectives of the School thus:

"...one of the principal objectives of the separation of the School from the Institute (of African Studies) was to enable it to focus on "professional performance training as a cardinal aspect of the work of the School". Specifically the principal objectives of the School are:

- To provide University course in Music, Dance and Drama;
- To provide a programme of professional training for performers; and
- To serve as a focus of the performing arts in the University.

As a University institution the School, in focusing on the development and teaching of Ghanaian and African Art Forms, cannot afford to shut itself off from the vast wealth of Music and Art Forms existing outside Africa, not only in the African Diaspora, but also in both the orient and the west. Again, the University location obliges the School to be research-oriented, drawing not only on the researches of others, but especially on the work of Ghanaian art and culture scholars, both within the School and the Institute, and elsewhere. In brief, the School ought to be engaged in research, teaching, and experimentation in Ghanaian and African art forms, paying due attention not only to their roots in society, but also to developments elsewhere in the world. This should put the school in a position to make a contribution to the re-interpretation and development of African art and culture, providing a spur to creative thinking and activity in the field of national culture.

As a School of Performing Arts, the School should gear its programmes, infused as they must be with the results of the School's researches, to the provision of systematic and integrated training of performers in Music, Dance and Drama, and provide an outlet for creative work and the dissemination of knowledge of the arts, through its extension and vacation programmes, as well as regular full-time courses.

It would be impossible for the School to begin to meet these obligations in full if it were to operate in isolation from the Institute of African Studies and society at large. For it is vital for the School, in the development of its courses and the conduct of its outreach programmes, to be able to call upon the research product of the Institute in the area of art and culture.

Equally, the School cannot develop programmes or train authentic performers of our Music, Dance and Drama unless it reaches out for interaction with traditional performers and local audiences.

Achievements

The School of Performing Arts, the only institution of its kind in Sub-Saharan Africa, that combines the three disciplines of Drama, Music and Dance in the training of Middle and Management level manpower needs of several establishments in Ghana and, indeed, internationally, continues to play that role among other obligations and commitments: The Ghana Education Service (the largest beneficiary), The National Commission on Culture (with its numerous Centres for National Culture spread throughout the country, each requiring trained cultural and performing arts experts), our Universities

(where over ninety percent of the teaching staff of the School are alumni of the School of Performing Arts). The National Theatre of Ghana, G.B.C. (T.V. and Radio Programmes Producers and Directors), the numerous F.M. Stations, Video Film Production Outfits, Professional and Amateur Performance Groups and, not the least Universities in Africa, Europe, America, Canada, Japan, Korea, and other Far Eastern countries.

Through its productions and outreach programmes, the School continued with its enrichment of the cultural life of the University and surrounding communities. During the last academic year alone, for example, there were 10 major play productions, 24 one-acts, several Musicals and Choreographed dances by students and staff that attracted and educated as well as entertained many audiences in and around Legon. In addition, literature workshops were organized for students of 2nd Cycle institutions in several Regions in Ghana; also, through its Theatre for Extension Communication, and Drama in Education practical programmes, communities as far away as Upper East, Brong-Ahafo, Volta Region, Eastern, and local J.S.S. schools, were exposed to the benefits of Environmental cleanliness, population control, avoidance of Teenage Pregnancy, etc. Even in Accra, establishments like the Bank of Ghana, Ghana Telecom, Cocobod, Electoral Commission etc. were direct beneficiaries of effective communication of their objectives through drama, music and dance presentations.

The Nation and, indeed, the World continues to enjoy the artistic skills not only of the directors, actors, and technical expertise of the staff, but also of the playwrights, choreographers, and composers who provide the material for productions.

The School intends to continue with its commitment to teaching, research and extension programmes, embracing high academic goals and practical professional demands. However, the existing inadequate resources of space, equipment, transportation, and teaching aids, cannot, as has been emphasized before, support and sustain the expanding activities and increasing demands for true professional and academic manpower training for the Nation.

In fact, these needs were taken up by a Member of Parliament, Hon. Nkrumah Gyimah, an alumnus, in November 1999, and all the Honourable Members of the House, who spoke glowingly about the School, reiterated the urgent need for Government to address them without further delay. (See Parliamentary Debates: Official Report, Friday, 5th November, 1999: "Statements - School of Performing Arts Open Day Celebration" - {Col.816}).

ACTION PLAN: (VIS-A-VIS)

Essentials of the 1999-2001 Estimates

(a) Staff & Student Productions (1999-2000):

These are an essential academic and professional requirement for the School. Participation in productions/performances is a requirement for the award of diplomas/degrees in the performing arts. 18 Student Productions and 11 Staff/School Productions are planned for the year, with a projected cost of about one hundred and fifty million cedis. It is essential that reasonable provision be made for the School's productions programme. The School has been requested to lay on 4 Major Productions in connection with the University of Ghana's Golden Jubilee Celebrations

(b) The 1999 Theatre Season:

The Theatre Season has become an established outreach programme in which a sample of the School's productions for the year is presented to the community at large. It involves some production and publicity expenses as well as accommodation, feeding, transport expenses of a large number of students during the long vacation period.

(c) The Physical Infrastructure of on-going Project

For five years running, our request for work on the on-going project of the building complex has not been considered for final approval and funding. But with the creation of the new Department of Dance, the introduction of the new MFA/M.Phil degree programme in Theatre Arts, the sudden jump in our enrollment figures, and the increasing activities of the International Centre for African Music & Dance, the pressure on our old temporary structures has become unbearable. We must continue work now on the construction of our building complex.

It may be noted that at the moment the School has no lecture rooms large enough for even the relatively small classes of up to fifty students. With the expected rise in student numbers, a crisis is inevitable unless we can complete the new complex in time.

(d) **Equipment Needs:**

The School depends on lighting, sound, and video equipment for teaching, research, productions, and Outreach programmes. For several years now the old existing equipment have gradually deteriorated with constant use, with most of them now rendered useless or ineffective.

- **Video Equipment for Professional Quality Recording & Editing:** This will enable the School of Performing Arts to begin a serious programme of documenting several of its performances and major productions. Properly organized, this should eventually become a major library collection as well as an important source of income for the School. A fully equipped video-audio documentation unit is now an indispensable requirement for instruction in the performing arts. It will service not only the School but also other academic departments of the University. Our target several years ago to put all the basic equipment in place has been long overdue. A complete Audio-Visual Library is also required. This project is partly dependent on the completion of at least the second phase of the new buildings for the School.

- **A Computer System:** for efficient and fast preparation of scripts and other frequently used documents, and also for musical analysis, an important new area of research.

- **Lighting Equipment:** A computerized memory lighting control; a lighting control board with 24 or more channels; a portable intercom for communication between the backstage and the lighting booth; slide projectors; cables, etc.

- **Musical Equipment:** 3 Grand Pianos.

- **Costumes:** sewing machines, make-up kits; mannequins for drapery.

- **Tools for Set Design & Construction.**

- **A Good Quality Public Address & Amplification System.**

(e) **Transportation:**

The School has one overaged 45-Seater Neoplan Bus for movement of production personnel. But the bus is not suited to the movement of equipment and is too big to be used for organizational work. Besides, it breaks down ever so often and is thus unreliable. A new bus, an open truck and a Land Cruiser are needed to facilitate movement of performers, props and equipment and for organizational/administrative work.

(f) **Abibigromma, The Resident Theatre Company:**

With the coming into being of the National Theatre, the School of Performing Arts lost most of the original members of its Resident Theatre Company as well as costume, office equipment, special professional equipment, and direct government subvention available to the Company. Although the University has managed to maintain a small group to continue to serve as a laboratory for further professional training for our graduates, the company has been operating with virtually no funding for either equipment or for major productions. Unless something is done now to properly re-establish the School's Resident Theatre Company as a viable laboratory, we will be causing serious damage to an essential component of the training the School is expected to provide. It is therefore necessary for adequate budgetary provisions to be made for The Resident Theatre Company. The specific needs of the Company are being submitted as a Supplement to the School's main estimates.

With the recent approval for the new Department of Dance [with a new degree programme in Dance Studies] and also for the MFA/M Phil in Theatre Arts, we need to properly equip the new programmes to enable them take off without too much difficulty.

Over the years, with vigour, vibrancy and creativity Abibigromma has been able to live up to her artistic and cultural expectations and even beyond.

The beginning of the year saw an invitation from UNILIVER, to perform for them dances, plays and improvisation exercises. We honoured another invitation from UNDP and performed a play on children's rights, HIV/AIDS awareness and Ghana Motion a directed "Do Lord Remember Me" a play of black consciousness.

Dr. Martin Owusu directed *The Story Ananse Told*, while Dr. Abdallah directed two of his plays with us; *Verdict Of The Cobra* and *The Witch of Mopti*. We have also performed this year, *Tipawumli*, a dance piece, *Rape of Ramatu Sisters*, by Cecilia Yelpee, *The Queue* a play by Bill Marshall, and *Loyenet*, a play by Mr. Asiedu Yirenkya.

During the special OAU summit, which took place in Libya about a couple of months ago, Abibigromma was among the numerous theatre and cultural troupes all over the world invited to perform. The invitation was honoured.

In October this year a new Artistic Director in the person of Mr. Aaron Gyabaah Yeboah was appointed to head the group for two-year period.

We crowned our efforts of the year with a theatre season of African plays as well as traditional and choreographed dance pieces which run from the 11th of November to the 18th of December 1999.

In year 2000, we intend to put our energies to completing the process of producing Dr. Abdallah's Trial of Mallam Ilya, A Choreographed Dance piece by David Cofie, a musical, and finally, a new play by Ola Rotimi titled Man Talk Woman Talk to be directed by Aaron Yeboah. When these packages are ready we plan a nation-wide tour.

DEPARTMENT OF DANCE STUDIES

Overview

The activities of the Dance Studies Department were centred on teaching, research and productions aimed at producing personnel capable of facing up to the challenges of the contemporary dance world; such as the role of the dance in our communities, schools and theatres.

Courses

The department offered diploma and first degree courses in a variety of subject areas as contained in the University Handbook.

Student Numbers

Diploma 1	-	24
Diploma 2	-	18
Diploma 3	-	13
Level 100	-	63
Level 200	-	29
Level 300	-	10
Level 400	-	9

Staff

The department has three Senior Lecturers, one Lecturer and two part-time Lecturers.

Research

- Newman, S.A. - Looked at the issue of teaching of dance in first and Second Cycle Schools. Continued doing more work in Dance and Christianity and the devising of an African Dance Technique.
- Kwakwa, P. - "Music and Dance in our Culture". A collaborative research project with Dr. James Flolu (U.C.E.W) and Dr. Isaac Amoah (U.C.C.).
- Sowah, N.K.: - Effective teaching of Traditional Ghanaian Dances to people outside the culture
The role of Traditional Dances in the Global Village.
The relevance of teaching Course AFST 280 at the University of Ghana today.

Conferences, Seminars, Workshops, Productions

- Newman, S.A.: - Organised and staged a Christian Festival of Arts involving Music, Dance and Drama for seven days at Madina during which my past choreographed dances were performed.
- Attended an international conference on Dance and Christianity at Barbados, West Indies 15 - 22 November 1998 during which I lead a number of workshops and spoke at various places on Dance and Christianity in Ghana.
- Presented a paper on "Prospects of the Performing Arts in the 21st Century in relation to Dance" at an ASPA Week Seminar at the School of Performing Arts.
- Presented a paper on Dance in our Churches today at a Conference of Church Musicians organised by the International Centre for African Music and Dance.
- Produced two dance pieces during students performance in connection with the 20th Anniversary of the University of Ghana.
- Kwakwa, P. - Conference on Church Music organised by the International Centre for African Music and Dance.
- Sowah, N.K. - November, 1998: Guest Choreographer for the Hebrew-Israeli Theatre Dance Company in Israel.
- March 1999: Represented the Ghana Dance Ensemble at MASA 99 Festival in Abidjan, Ivory Coast. Gave 14 Dance Workshops to foreign and local groups.

DEPARTMENT OF MUSIC

Overview/Courses

The Department of music continues to offer courses in the following areas: M.Phil (2 years), M.A. (1 year), B.A./B.Mus (3 years), Diploma in General Music (3 years). The Department's current enrollment of 223 includes students majoring in music as well as a good number of non-majors. Courses in Music of Africa (Theory and Practical) continues to attract a growing number of international students (Visiting/Special/Exchange) under the University of Ghana linkage programme.

The following are the figures of registered students of Music Department.

Diploma in Gen. Music I	-	29
" " " II	-	29
" " " III	-	33
Level 100	-	73
" 200	-	12
" 300	-	7
" 400	-	3
M.A.	-	3
M.Phil I	-	8
" II	-	3
Foreign Students	-	23

The department's effort to enrich its programme continued this past year with particular focus on instrumental instruction. It would be recalled that there has been a steady decline in the attention given to music instruction in general in this country since the first Republic under the vision of Osagyefo Dr. Kwame Nkrumah. We would note that currently there are only a handful of institutions with any facilities at all for any kind of instrumental instruction in the first and second cycle schools. The attempts to keep this tradition going have been sporadic and largely out of private individual initiative.

Consequently, the quality of the music department's instrumental programme is a sad reflection of this reality. The Department lacks many instruments and incapable of keeping up with maintenance of existing ones.

Many of its students have never received any systematic instrumental instruction prior to their admission to the department which renders our programme adequate in comparison to what pertains elsewhere. For this reason the department has embarked on a renewed attention to this problem. We however believe that the few outstanding students ought to be encouraged to explore their potentialities to the maximum. For this reason we are happy to report that last year the department has presented two female final year students in its B.A. and B.Mus programmes respectively, in the first ever graduate recital. It is hoped that this would serve as a shining example to other aspiring students.

In addition to the above, we have identified a few instrumental ensembles that are undergoing tremendous nurturing and attention. This includes the brass band, which featured prominently during the University Golden Jubilee celebration and various other campus and off campus engagements. The others are, the choral ensemble, the popular music ensemble, string ensemble and the African Ensemble.

In all these, the work of the department is seriously hampered by lack of adequate facilities to enhance its programme effectively.

Donation to the Department

Last year the department received a box full of replacement strings for Violin, Viola, Cello and Guitar instruments, from the people of the Netherlands. We are pleased to report that another box containing a similar set of strings has been

received through the same source through the initiative of Mr. Marcell t' Sas. We thank our donors sincerely for their continued support.

Research

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

- Darkwa, Asante - 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.
- Computer in African music research.
- African Music in Education
- Amoah, G. M. - Collection and compilation of African folk tunes as suitable teaching materials for beginners in Violin
- Mpereh, Dina - Collecting of folk songs from various ethnic groups in Ghana
- Research on Gospel Music. Case study - Mary Ghan-Sah-Newman (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, John - Fela and the Black President Film, Glendora African Quarterly of the Arts (ed) Dapo Adeniyi, Lagos, Vol. 2 No.2 1997 pp. 057-73.
- Paper at ICAMD/CAN [Culture African Network conference, Accra 9-12 August 1999 entitled "Some Thoughts on Folklore Copyright"
- Ghana Entry for Rough Guide to World Music. Rough Guide Publications London 1999 (ed. S. Broughton, M. Ellingham and R Trillo) p 488-498
- Anku, W. O. - Teaching Creative Dynamics of African Drumming: A Cross-Cultural Teaching Approach: Music of the World's Cultures, ISME 1998 Pg. 75-84.

Conferences/Seminars/Workshops

- Anku, W. O. - Workshop on the teaching of African Music & Dance in Schools ICAMD 15-17th Dec. 1999.
- Collins, John - "Goombay: The Impact of Freed Slaves on African Popular and Neo-Traditional Music" Paper read at Atromusique Africama Colloquium, Bassam, Cote D'Ivoire 2-5 Dec. 1998
- "Ghana's Folk Tax: A Cultural Conundrum" Paper presented at the Regional Seminar on the Application of the UNESCO (1989) Recommendation on Safeguarding of Traditional Culture in African Countries, Legon 26-8th Jan., 1999.

Dzokoto, A.

Composition, transcription and arrangement of African Art Music. Guest Conductor.
National Symphony Orchestra and Director, Departmental Brass Band

INTERNATIONAL CENTRE FOR AFRICAN MUSIC AND DANCE (ICAMD)

DEPARTMENT OF THEATRE ARTS

Courses

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

Enrolment

Diploma 1st	Year	-	39
	2nd	Year	- 22
	3rd	Year	- 22
B.A.	Level 100	-	110
	200	-	85
	300	-	78
	400	-	45
M.F.A.	1st	Year	- 10
	2nd	Year	- 9
M.Phil	2nd	Year	- 1
Exchange(Foreign Students)		-	8

Theatre Arts Department

Courses at all levels cover 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 (T.E.C.); Playwriting, Writing, Production Participation; Theatre Laboratory: The Body and Voice.

Staffing

With the appointment of two new lecturers, the Dept. now has 3 Senior Lecturers (One on Sabbatical) 11 Lecturers, 2 part-time lecturers, 1 Administrative Assistant and 2 Junior Staff. The new faculty are Mr. Yaw Asare and Mr. Ossei Agyeman. Our staff strength is however reduced by the retirement of Ms. Yirenkyi. Mrs Awo Asiedu has also taken her study leave and will not be back to the Faculty until 2003.

Research

- Arkhurst, S. - Traditional Methods of Adult Education; Folktale Game Folksongs; Tradition for Development. The Relationship Between Management and Artistic. Folks, Media; Rural Communication and Development: Popular theatre.
- Aveh, A. - Locally produced video films and the impact on the people of Ghana: documenting Ghanaian art forms on video; Ghana Television programmes and viewers response.
 - Docudrama
 - Film policy and industrial growth.
- Owusu, M. - Traditional sources for the modern African stage.
 - Theatre for National Electioneering Process., Sponsored by Friedrich Ebert Stiftung and National Electoral Commission;
 - Evolving theatre from a Danish Folktale.
 - Exploration of relevant Directing Concepts.

Gyabaah Yeboah, Aaron

On going research in the following :

- New Approaches to Directing for the Contemporary Ghanaian stage.
- Theatre for bringing about positive socio-economic and political change. Towards an authentic African Theatre

Publications/Productions

- Arkhurst, S. - "Folk Media" Journal of Performing Arts Vol. 2 No. 1
- "Story writing and treatment of folk materials" Journal of Performing Arts
- "Ethnic and aesthetics of Popular theatre" (Handout)
- "Theory into practice: The Legacy of Boal" (Handbook)

- "31st DWM Family Planning Programmes in the Volta Region" Dec. 1995.
 - 1995-March 1996 (John Hopkins Univ. CCP Newsletter - CSMF)
 - Mother's Tears at the National Theatre, Sept. 1996. Director.
- Djisenu, J.K.
- "The Art of Drama". Legon Journal of Humanities No. 8 (1995) pp. 55-62 "The Art of Narrative Drama" Matatu Journal for African Culture and Society Forthcoming.
 - "The Scope of Drama and its Associated Controversies in the Ghanaian theatre Context". Submitted to Legon Journal of Humanities, 1996.
 - "Performance Spaces and Institutional Organisation in Ghana" Journal of Performing Arts Vol. 2 No. 1
 - Review of David Kerr's African Popular Theatre (London: Jams Currey Publishers, 1995)
 - Journal of Modern African Studies - Forthcoming.
 - Preparation of Technical Data of the National Theatre with ground plans and a lighting plot.
 - Technical co-ordinator and Stage Designer for PANAFEST 1994.
 - Secretary Design for WOYZECK (Video Documentation) 1995.
 - Trevor Rhone's Old Story Time. National Theatre (Scenery)
 - Milkhall Bulgakov's The Crimson Island
 - S.P.A. Staff Production (Technical Direction)
 - Oscar Wilde's the Importance of Being Earnest
 - G.I.S. Production (Lighting and Scenery)
 - George Bucher's Woyzeck. (A point production with Goethe Institute (Scenery)
- Owusu, M.
- "Tragic Drama: An African Dimension" Journal of Performing Arts Vol. 2 No. 1 (1996)
 - Video Documentation of production of James Bridie's Tobias and the Angel (Staff production, 1996).
 - Video Productions in 4 Languages of The Election a play (in two parts for Electoral Education in Ghana.
 - The Adventures of Sasa and Esi. (Ghana Publishing Corp. Revised and reprinted 1996).
 - Analysis and Interpretation of Ola Rotimi's The Gods Are Not To Blame. Afrique Publications, Accra, 1998.
 - African Drama:- analysis and Interpretation of J.C. deGraft's Through A Film Darkly & Sons and Daughters, Legon, 1992.
 - Drama of the Gods a study of seven African Plays. Omenana Publishers, Boston, 1984.
 - The Election, Theatre for Electoral Education in four languages(English, Akan, Ewe, Dagbani) sponsored by Friedrich Ebert Foundation & E.C. 1996.
 - The Parliamentarian theatre for Parliamentary education, sponsored by F.E.S., 1997.

Conference/Seminars/Workshops Attended

- Arkhurst, S.
- Workshop on Theatre for Development for 31st DWM. Volta Region in He from December, 1995 - March 1996 Sponsors : John Hopkins University Centre for Communication Programmes.
 - GSMF Seminar for Population Control Workers. at Maamobi, April 10-14, 1996. Resource Person.
- Owusu, M.
- Workshop on the Teaching of Dramatic Literature in 2nd Cycle Schools, National Theatre of Ghana. 1998.
 - Workshop on the Teaching of Dramatic Literature in 2nd Cycle Schools, Regional tour of Schools, 1994, 1996, 1997.
 - Workshop on the Teaching of Dramatic Literature in 2nd Cycle Schools, School of Performing Arts, 1990.
 - "Superstition on Our Screens" Conference on African Women in the Media. National Theatre. Accra. February, 1995.
 - "From Myth to the Stage: the Story Ananse told as Theatre in a Global Perspective", 1994.
- Djisenu, J.K.
- Trevor Rhone's Old Story time: National theatre (Scenery)
 - Mirkhall Bulgakov's the Crimson Island.
 - S.P.A. Staff Production (Technical Direction)
 - Oscar Wilde's The Importance of Being Earnest, G.I.S. Production (Lighting and Scenery)
 - George Bucher's Woyzeck. (A joint production with Goethe Institute) (Scenery)
 - "An Evening with Nature" G.I.S. Production (Lighting)
 - Shakespeare's As You Like It. G.I.S. Production (Lighting)
 - Martin Owusu's the Story Ananse Told G.I.S. Production (Lighting)
 - James Bridie's Tobias and the Angel.
- Aveh, A.
- Resource person for 1997-98 CODESRIA African Humanities Institute Fellowship Programme, under the theme: Memory and Vision: Africa and the Legacy of Slavery. Seminar presentation: Topic - "Re-presenting slavery." "The Films of Burnett, Gerima & Davis". CODESRIA African Humanities Institute, Programme, Legon, March, 1998.
 - Member of Technical Team for Video Documentation of the field trip of 1997-98.
 - CODESRIA African Humanities Institute Programme under the theme: Slave Routes: A Trail Long Gone, Feb. 1998.
 - In-country Co-ordinator, Grand Valley State University Summer 1998 Fulbright Group Project in Ghana (June-July 1998).
 - One-Day Forum on the Electronic Media under the theme: "Towards a National Communications Policy" organised by Ministry of Communications in Accra, September, 1998. Paper presented: "Policing Our Screens in to the Next Millennium".
 - Faculty of Arts, Intra-faculty lecture at Legon, 12 May, 1998. Paper read: From Celluloid to Tape : Contemporary, Motion Picture Production in Ghana."

Extension Work/Hobbies

- Arkhurst, S.
- Training NGOs in Effective Communication
 - Guest Director for Theatre Companies in Accra
 - John Hopkins University Communication Consultant
- Aveh, A.
- Video Filming
 - Writing and Reading
 - Served on Government delegation on Film to Ouagadougou.
- Djisenu J.K.
- Productions with Ghana International School: "The Story Ananse Told" March, 1996.
 - "The importance of Being Earnest" - Telecast live on G.T.V.
 - Matemasi, Drama Studio Monthly Programme (Co-ordinator)
 - Preparation of Technical Data of the National theatre with ground plans and alighting plot.
 - Lighting: G.T.P. launching of BMW 5 Series, June, 1996.
 - Elder, Legon Interdenominational Church.
 - Bicycle riding and sewing
- Owusu, M
- Writing, producing and directing plays for Electoral Commission, Educational tour of Second Cycle Schools, and Training Colleges on the effective teaching and study of dramatic literature.
 - Evolving a play from a Danish folktale for an International School Theatre Festival, Kobenhavn, Denmark.
- Gyabaah Yeboah, Aaron
- Consultancy Services in Theatre for Development.

FACULTY OF SCIENCE

Overview

The Faculty witnessed some modest growth in the 1998/99 academic year in terms of student numbers and staff strength. The growth in student numbers, unfortunately was not accompanied by an equivalent increase in the physical facilities. The combined total population of Level 100 students (300) and Level 200 students (400) was about five times the population of fresh students that was admitted into the Faculty ten years ago. Laboratory space and the number of basic equipment which have not changed much since that period constituted the major constraints, to the extent that the quality of practical work in most Departments seemed threatened. It became clear that if the situation remained unchanged, there would not be any significant increases in admission for some years to come. It is in this regard that we would wish if the Chemistry laboratory complex, which has been of much concern could be completed by the year 2000. We are however happy that a benefactor had agreed to provide an amount of US\$250,000.00 for the construction of a Physics Complex. When these projects are completed the Faculty hopes to increase its student intake.

The overall staffing position continued to be a source of worry. Four senior Professors retired but were re-engaged on contract. In all, twelve new Senior Members joined the Faculty during the year. The categories are: four full-time, four part-time and four Visiting Scholars.

The first batch of the Senior Secondary School leavers admitted into the Faculty in the 1994/96 academic year graduated at the end of the year. It was heartwarming to observe that in spite of the anxieties surrounding their admissions four years ago, three out of the eight students who obtained First Class Honours degrees in the Faculty came from this group, thus underscoring the adequacy of the preparations made by the Faculty for the 100 Level students.

The Faculty started the Environmental Science Programme, an inter-faculty and post-graduate programme with 8 M.Phil students. All of them passed the course work and were due to start their research projects in the 1999/2000 academic year. There were indications that this new programme might grow to become one of the best subscribed in the Faculty.

The Faculty organized a very successful Faculty Week as its contribution toward the Golden Jubilee Celebrations of the University. Apart from the usual Colloquium, the Faculty mounted exhibitions for the benefit of science students of second cycle institutions in the Greater-Accra and the Eastern Regions.

In March 1998, two technical investigators from Japanese International Co-operation Systems (JICS) of Japan International Co-operation Agency (JICA) came to the Faculty to ascertain the status of basic scientific education equipment which were supplied in 1988 by the Government of Japan. It was found out that some of the equipment were out of use because they were broken down or no consumables to operate.

In June 1999, the Government of Japan supplied all the spare parts and the needed consumables to the tune of JPY 12.75 m thus rendering all Japanese equipment in the Faculty operational. We are indeed grateful to the Government of Japan.

DEPARTMENT OF BIOCHEMISTRY

Overview

The year under review was no different from the previous years as regards finances and laboratory space for students. To cope with the increased numbers of biological science students admitted at Levels 100 and 200, who would like to study Biochemistry, the provision of a large laboratory which could accommodate between fifty and seventy students is long overdue. The hope of the Department earlier in the year for the acquisition of a high speed refrigerated centrifuge through an Italian government grant was dashed when the grant did not materialize. It is hoped that some other avenue would be used to purchase for the Department this all important and basic equipment for both teaching and research.

On a more happy note, the University Administration made available to the Department and the Department of Nutrition and Food Science the facilities at the Non-Resident Students Building adjacent to the Department of Biochemistry. Again, the Dean of the Faculty generously allowed the Department greater access to the Faculty's Computers and printer. These gestures are greatly appreciated.

Student Numbers

The student numbers registered in the Department for the year were as follows:

Level 200 (Mixed Group)	-	86
Level 300	-	134
Level 400 (Single Majors)	-	28
M.Phil I	-	9
M.Phil II	-	8

Conferences/Seminars/Workshops Attended

Gyang, F.N.	-	Attended the 20th African Health Sciences Congress and the 20th Anniversary Celebration of the Noguchi Memorial Institute for Medical Research at GIMPA, Ghana from April 19-23, 1999. He was the Chairman for the Malaria Immunology, Pathology and Chemotherapy Session.
Osei, Yaa Difie	-	Attended a Conference on Gender and Science and Technology in Accra between the 2nd and 5th July 1999.
Ady, Marian E.	-	Gave an Inaugural Lecture with the title "Putting Science into the Art of Healing with Herbs" in February, 1999.

Staff Research

Research in the Department during the year under review continued to be in the areas of :

- (i) molecular biology, chemotherapy, drug resistance and immunology of parasites of economic importance such as *Plasmodium falciparum*;
- (ii) mode of action and possible toxicity of antiasthmatic, anti-inflammatory, antidiabetic antianaemic and antimalaria medicinal plants;
- (iii) pollution monitoring by biochemical techniques;
- (iv) insecticidal activity of naturally-occurring substances from plants;
- (v) the use of molecular biology techniques in the identification of plant and microbial species.
- (vi) mode of transmission of drug resistance among microorganisms;
- (vii) molecular biology of gold leaching bacteria;
- (viii) mechanisms of hormonal action and
- (ix) possible uses of local foods and agricultural by-products.

Publications

- Asmah, R., Bosompem, K.M., Rodrigues, F.K., Osei, Y.D., Clement, C., Addy, M.E., and Wilson M.D. - (1999). Isolation and Characterization of Mineral Oxidizing Bacteria from the Obuasi Gold Mining Site, Ghana. In: Proceedings of the International Biohydrometallurgy Symposium IBS, San Lorenzo de Escorial, Madrid Spain pp. 657 - 662 Elsevier Publisher.
- Awandare G., Clement, C. and Addy M.E. - (1999). Efficacy of a Herbal Preparation as an Anti-Inflammatory Drug. A paper presented at the 20th African Health Sciences Congress; April 19 - 23, 1999 Accra, Ghana. Book of Abstracts p. 131 (Accepted for Publication)
- Clement, C., Gyang F.N., Rodrigues, F.K., Addy M.E., Armah, G.E. - (1999). Isolation and Partial Characterization of Bacteriophages as an Index of Antibiotic Resistance. A paper presented at the 20th and African Health Sciences Congress; April 19 - 23, 1999 Accra, Ghana. Book of Abstracts p. 147 (Accepted for Publication).
- Osei Y.D., Trebi, N.I.N. and Sampene-Donkor, E. - (1999). Isolation and Characterization of Bacteria and Plasmids that Inhabit some Waterbodies in the Accra Metropolis. A paper presented at the Faculty of Science Colloquium during the Golden Jubilee Celebration of the University of Ghana. (Accepted for Publication).
- Ofori, M.F., Deafoo, D., Staalsoe, T., Gyang, F.N., Kurtzhals, J.A.L., Koram, K., Hviid, L. and Akanmori, B.D. - (1999). Analysis of Antibody of *Plasmodium falciparum* expressed on the surface of the Malaria Infected Red Blood Cells. In: Proceedings of the 11th British Society of Parasitology Malaria Meeting September, 1999, London. (Accepted for Publication).
- Quashie, N., Ofori-Adjeci, D., Kurtzhals and Gyang, F.N. - (1999). Incidence of *Plasmodium falciparum* Recrudescence in Severe Malarial Anaemia. A paper presented at the 20th African Health Sciences Congress; April 19-23 Accra, Ghana. Book of Abstracts p. 64.

DEPARTMENT OF BOTANY

Overview

The Department managed to go through the 1999/2000 Academic Year with some difficulties related to lack of adequate funds to support the increasing number of students at Levels 100-400. Limitations in laboratory space and equipment necessitated practical schedules being held in shifts.

There is the need to make available more computers to the graduate and undergraduate students to enable them come abreast with the modern trends in this Computer age.

Textbooks are outdated and the numbers available for reference by the large number of students are woefully inadequate. It is anticipated that lecturers would be encouraged to compile their notes in a form of books for future use by the students

Staffing position

The staffing situation is still critical as part-time Lecturers have been engaged to supplement lectures until permanent members of staff are employed.

Student course and numbers (1998/1999 Session))

The Department continued to successfully run courses in Biology (for Levels 100 and 200) and Botany for (Levels 300 and 400) as well as M Phil.I programmes in different fields of study in Botany.

The student numbers are as follows 1998/99 Session

Level 100	-	298
Level 200	-	324
Level 300	-	96
Level 400	-	25
Mphil Part II	-	10
PhD's	-	8

Conferences and Workshops

Senior Members from the Department attended several National and International workshops within and outside the country during the year under review (1998/99). The papers presented are reflected in the list of publications.

Research activities

Laing, E. Emeritus	-	Genetics and heritability of Cowpeas (<i>Vigna unguiculata</i> Walp)
Clerk, G.C. Emeritus	-	Ultrastructure, Reproduction and Physiology of fungi.
Odamtten, G.T.	-	Post-harvest pathology and conservation of economic crops.

	-	Antimicrobial compounds in higher plants as control agents for plant pathogenic fungi.
	-	Fungal biodiversity and fungal biotechnology.
	-	Edible and poisonous mushrooms of Ghana.
Oteng-Yeboah, A.A.*	-	Systematic Botany Biodiversity Studies
Enu-Kwest, L. (+)	-	Ecophysiology of useful plants in Ghana. Autecology of some timber tree species.
Jumah, Angelina H.	-	Palynology, studies on the morphology of pollen flora in Ghana
*On Leave of absence +On sabbatical leave.		
Acheampong, Elizabeth	-	In vitro multiplication of plantain, cocoyam yam and other root tubers.
Amoah, Cecilia		Water quality; biological component of Sewage. Aquatic and Environmental Micro-biology.
Markwei, Carol	-	Studies on mineral nutrition of Vigna subterranea (Bambara groundnut) Xanthosoma mafafa (Cocoyam).
Ameka, G.K.		Ecology of Aquatic Macrophytes; Rheophytes of Ghana. Phycology
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 Piptadeniastrum africanum
Asante, I.K.	-	Quantitative genetics, Plant Breeding.
Annang, T.Y.	-	Decomposition of aquatic macrophytes by fungi.
Abbiw, D.K.	-	Ethnobotany with emphasis on use of plants in traditional medicinal practices.

Projects

The Department is undertaking the underlisted projects with International Organisations:

1. Darwin Initiative for Survival of Species on Conserving and Cultivating Medicinal Plants in Ghana (Participating organisations are Royal Botanic Gardens, Edinburgh, Botanic Gardens Conservation International, World Conservation Monitoring Centre, Aburi Botanic Gardens and the Remote Sensing Application Unit, Univ. of Ghana Legon).

2. Contribution of Home Gardens to in situ Conservation of Plant Genetic Resources in Farming Systems in Ghana (Participating countries in South and Central America. International Plant Genetic Resources Institute, Rome, Italy, Crop Research Institute, Plant Genetic Resource Centre, Bunso, Dept. of Nutrition and Food Science, Univ. of Ghana).
3. Multiplication of Sweet Potato Planting Materials (with the Root and Tuber Improvement Programme of the Ministry of Food and Agriculture).
4. GATSBY Research, Agriculture and Forestry and Fisheries to raise in Tissue Culture cultivars of plantains for the Ministry of Food and Agric.

The Department of Botany hosted the 2nd International Training Course in Plant Tissue Culture for Ten (10) Scientists from Cote d'Ivoire, Burkina Faso, Benin, Nigeria, Togo and Ghana. The course was to assist participants to acquire knowledge on how to improve farm yield, and make seedlings commonly accessible and preserve breeding materials for research and general use.

The course was held in the newly-expanded Tissue Culture Laboratory in the Department of Botany funded by the United Nations University, Institute for Natural Resources in Africa (UNU/INRA). This facility is expected to serve as a Regional Centre of Excellence and training of manpower in Tissue Culture.

Exhibition

The Department mounted an exhibition for 2nd cycle Institutions in the Accra Metropolitan Area as part of the activities of the Faculty of Science week during the Golden Jubilee Celebrations of the Univ. of Ghana.

Visitors

The following personalities visited the Dept. of Botany during the year under review:

Prof. Patricia Berjak, School of Life and Environmental Sciences, University of Natal, Durban South Africa, Dr. Chusei Yamada, Council Member, UNU, Tokyo, Terry Sunderland, Africa Rattan Research Project, Royal Botanic Gardens, U.K.; Prof. Sita Guinka Vice-Rector University of Ouagadougou, Burkina Faso; Dr. Jean Zida, Head, Dept. of English, University of Ouagadougou, Donald Gordon and Fiona Dennis both of the Botanic Gardens Conservation International, BGCI; George Owusu-Afriyie, Director, Dept. of Parks and Gardens
 Prof. G.A. McIntosh, Prof. N. Opong (Univ. of Georgia) Dr. Joyce Edwards (Savanna State University)
 Prof. Nataline Mathews (Kennsaw State University), Prof. W.S. Kisaabila (Univ. of Georgia). Prof. J.W. Tarkowski, Royal Danish School of Pharmacy, Denmark, Prof. Tadensz Sywule, Polish Academy of Sciences and Dept. of Genetics, Univ. of Gadense, Poland; Prof. B. Christensen Royal Danish School of Pharmacy.

Publications

- | | | |
|-----------------------------|---|---|
| Odamten G.T. and Amoah C. | - | (1999). Phylloplane mycoflora of pepper (<i>Capsium annum</i>) and some fodder plants and its possible pathological implications. Abstract No.29. 21st Biennial Conference of the Ghana Science Association p.51 (full Paper Ghana Science Association (in press) |
| Affrim K.B. and Clerk. G.C. | - | (1999). Growth and sporulation of twenty isolates of <i>Fusarium oxysporum</i> Sch.f.sp. <i>elaecides</i> Tovey from the Plantation of the Ghana Oil Palm Development Company. Abstract no. 30 21st Biennial Conference Ghana Science Association p.54. |

- Anyebuno G.W. and Odamtten G.T. - (1999). Inhibitory effect of aqueous leaf extract of *Tapinanthus bangwensis* on vegetative growth of the mycelium and sclerotium of five local strains of *Sclerotium rolfsii* Sac. Abstract no.33. 21st Biennial Conference of the Ghana Science Association p.53
- Odamtten G.T. and Hackman D.K - (1999). Seedborne fungi in maize (*Zea mays* L.) var Abeleehi and Obaatanpa from Ghana. Abstract no.34. 21st Biennial Conference of the Ghana Science Association p.55.
- Odamtten G.T. and Amoah C. - (1999). Influence of extracts of six local plants on germination capacity of sporangia of *Phytophthora palmivora* (Butl) Butl. causing black pod disease of cocoa (*Theobroma, cacao* L.). Abstract no.83. 21st Biennial Conference of the Ghana Science Association. pg.69
- Ameka G.K., De-Graft Johnson, K.A.A., Akuamoah R.K - (1999) a Chemical Survey of a Tropical Coastal Grassland Lake, and Weija Lake Abstract no.63. 21st Biennial Conference of the Ghana Science Association, p.62
- Annang T.Y and G.K. Ameka - (1999) Chemical constituents in five aquatic macrophyte species from the Weija Lake. Ghana Abstract No.60. 21st Biennial Conference of the Ghana Science Association, p.62
- Ameka, G.K. - (1999). The Distribution of Podostomaceae in Ghana Abstract No.32. 21st Biennial Conference of the Ghana Science Association. p.52.
- Adomako, J.K and Laing E. - (1999) Studies on Some Aspects of the Regeneration of *Piptadeniastrum africanus* (Hook F) Brenan. Abstract no.30 21st Biennial Conference of the Ghana Science Association p.52
- Oteng-Yeboah A.A.. - (1999) Mining Operations, Habitat Loss and Biodiversity in Ghana. *Journal of the Ghana Science Association (Special Edition) Vol.2 No.1: 10-18.*
- Ameka, G.K. and De-Graft-Johnson K.A. - (1999). The Sudd vegetation of Weija Lake Ghana. *Kirkia* 17(1). 1-9.
- Amoah C., Odamtten G.T. Agbodaze D.A. - (1996). Biochemical characteristics of *Pleisomonas shigelloides* isolated from prawns (*Macrobrachium* spp.) and water sampled from the shore-line of the Volta River, Ghana. *Ghana J. Sci.* 31-36: 105-108.
- Amoah C. and Oppong I.V. - (1999). Bacteriocidal and purification properties of *Moringa oleifera* on drinking water from the Lower Volta Basin, Ghana. In Proceedings 20th Africa Health Science Congress. In Press.
- Amoah C., Odamtten G.T., and Longmatey H. - (1999). Sensitivity of *Escherichia coli* and *Klebsiella pneumoniae* isolated from drinking water in the Lower Volta Basin to some commonly used antibiotics. In Proceedings 20th African Health Science Congress. In Press.

- Fening J.O. and Odamtten, G.T. - (1999). Influence of some pesticides on microbial cellulase decomposition in cocoa farm soils. *Journal of the Ghana Science Assoc. (Special Edition) Vol.1 (1): 50-56.*
- Asante, J.K. and Dixon, A.G.O. - 1999. Heritability studies of some cassava genotypes. *Ghana Journal of Science. Vol.39 (in press).*
 - 1998. Analysis of phenotypic stability in ten Cassava genotypes in three West African Countries. *Ghana Journal of Science. Vol. 38 (in Press).*
- Asante, J.K. - 1998. Environmental predictors of three Cowpea (*Vigna unguiculata* (L) Walp) Yield sub-characters. *Ghana Journal of Science. Vol.38 (in Press)*
 - 1998. Evidence of association between a quantitative character and a major gene in the cowpea (*Vigna unguiculata* (L) Walp). *Ghana Journal of Science Vol. 38 (in Press).*
- Ameka, G.K. - (1999). Preliminary survey of flora and fauna associated with water hyacinth (*Eichhornia crassipes* (Mart) Solm.) in Ghana. *Journal of Ghana Science Assoc. (Special Edition) Vol.1 (1): 46-49.*

DEPARTMENT OF CHEMISTRY

Overview

The 1998/99 academic year passed without incident in spite of some disturbing undercurrents. On the positive side, three of our students excelled at the BSc examination (one first class and two second uppers). Unfortunately, we continued to record a high failure rate in some of our courses at Levels 100 and 200. Once again, we have to report yet another year of disappointment over the completion of the New Chemistry Building. There have been no visible signs of improvement on that front.

At the undergraduate level, the large student numbers posed a problem, especially during practical sessions. Even though each practical session was repeated four times to enable small groups of students have hands-on experience, the limitations posed by glassware, circulatory cooling baths and heating isomantles often led to unacceptable situations like eight students handling one reflux set up. Even more alarming was the high rate of breakage of glassware. Unless a viable scheme is put in place to replace the broken items, practical instruction in this department may eventually grind to a halt. This is a

serious problem requiring the University's immediate attention. The cost of the replacement is simply too high to be met out of the Department's meagre budgetary allocation.

At the post-graduate level, research efforts continued to be hampered by non-functioning instruments and shortages of solvents, fine chemicals, and chromatographic absorbents. The rehabilitated infrared and ultraviolet spectrophotometers gave some limited respite but researchers in organic chemistry still had to wait for long periods whilst nuclear magnetic resonance and mass spectral data were acquired for them overseas. Sometimes, the much awaited spectra arrived incomplete - eg non-detection of exchangeable protons, non-determination of coupling constants, missing integration traces, absence of expansion of crowded regions - thereby limiting their usefulness. Researchers in analytical chemistry had to queue for limited access to instruments in sister research institutions but at an astronomical price. The service charges were so crippling that every effort will have to be made to get a functional atomic absorption spectrophotometer and a gas chromatograph within the University. 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 500 practical notebooks each week.

Courses

The usual undergraduate and MPhil programmes were run. With a great deal of reluctance, the Department was compelled to continue limiting practical instruction in the Level 100 programme to just one course, ie CHEM 103, on account of the large student intake and limited glassware. Unfortunately, this undesirable trend is creeping into the other levels as well. Indeed, practical instruction in the Department as a whole is seriously being compromised because the large numbers are being carried over into Levels 200, 300, and 400 thereby affecting the kind of practical sessions that can be meaningfully organized. The situation gives some cause for alarm because all the undergraduates share the same laboratory facilities and so the larger numbers at the lower levels are crowding out the final year students who are themselves increasing in numbers. Faced with the prospects of graduating students with a very low level of practical ability even in basic laboratory procedures, the Department was forced to replace the usual undergraduate project at Level 400 with a theoretical project and set practicals in an attempt to correct the deficiency. The MPhil Part I mini project suffered a similar fate. The rationale for the changes was that a series of set practical work would introduce candidates to a variety of basic skills covering as wide a scope as our facilities will allow rather than the narrow scope often associated with a particular project. The theoretical project component on the other hand would enable independent study, encourage the use of library facilities to gather information, and train candidates to organize and present data in a coherent format.

Student numbers

The following numbers were recorded for the First Semester.

Level 100	-	292
Level 200	-	361
Level 300	-	57
Level 400	-	27
MPhil Part I	-	7
MPhil Part II	-	2

In practice, attendance at lectures for Level 200 was higher than the figure indicated by about 80 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 returned from a year's leave of absence. Members at post continued to serve on various outside boards and committees such as the West African Examinations Council, 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 and as referees for scientific publications such as the Ghana Medical Journal and the Ghana Journal of Science.

Research

Research in the Department during the current session continued in natural products chemistry, synthesis and molecular recognition studies on some simple cyclophanes, petroleum chemistry, environmental chemistry, inorganic chemistry, analytical chemistry, and in the application of computers to education. Sadly but understandably, our natural product chemists are drifting away from structural studies on pure components to non-specific bioactivity studies on crude extracts. Our analytical chemists who, thanks to the instruments available at GAEC and WRRI, appeared to be faring slightly better are now facing such astronomical service charges that our meagre finances simply cannot cope. Clearly, the Department will have to redouble its efforts at rehabilitating/acquiring instruments otherwise research and the postgraduate programme will grind to a complete halt.

Staff Publications

- Carboo, D., Armah, A K, Darpaah, G A - Heavy Metal Levels and Physical Parameters of Drainage Ways and Wells in Three Mining Areas in Ghana; Journal of the Ghana Science Association, 1998, 1(1), 113-117.
- Adomaning, WA, Otoo, E, Osei-Akoto
Oppong, IV, Addae-Mensah, I Waibel,
R and Achenbach H - Isoflavones and Coumarins from *Milletia thonningii*. Phytochemistry
- Carboo, D, Serfor-Armah, Y
Nyarko, B J B, Osae, EK, Seku, F - Elemental Analysis of Some Green and Brown Seaweeds from the Coastal Belt of Ghana; Journal of Radioanalytical and Nuclear Chemistry, 1999, 242(1), 193-197
- Nartey, V K - Test Cells for the Investigation of Battery Reactions at High Internal Pressures; Journal of Applied Electrochemistry, 1999, 29, 421-428.
- Phillips, F L - Simulated Demonstrations; Proceedings of the 8th Faculty of Science Colloquium, University of Ghana, 1999, 51-56.

Conferences, Seminars, Workshops

First Biennial National Agricultural Research System (NARP) Workshop; Accra, November 1998. Two papers presented. (Insecticidal Properties of *Chromolaena odorata* and *Khaya senegalensis* - Dr R K Akuamoah, Dr D Obeng-Ofori, and Mr P B Filson; Protectant Potential of Siam Weed *Chromolaena odorata* and Mahogany Tree *Khaya senegalensis* Against the Maize Weevil *Sitophilus zeamais* (MOTs) and the Cowpea Beetle *Callosobruchus maculatus* (FAB) in Storage - Dr R K Akuamoah, Dr D Obeng-Ofori and Dr J E Aidoo).

Faculty of Science Jubilee Colloquium; Legon, February, 1999. Four papers presented. ('Dry Lab') Electrochemistry - Dr F L Phillips; Introducing CIRCUSTAT, a Statistical Package for Circular Statistics - Dr F L Phillips. Mr I Odom and Mr E A Boateng; Cleaning of Industrial Effluents from Textile, Food, and Petroleum Based Industries - Dr C K Akpabli and

Mrs N Taylor; Phycocolloids from some Ghanaian Seaweeds - Dr R K Akuamoah, Mr G K Ameka and Mr F R Okyere). **Launching of the proceedings of the Dodowa seminar on The Potentials of Neem Trees** organized jointly by the Goethe Institut and the University of Ghana; Accra, 21st July, 1999 (Coordinator: Dr A K Brimah)

21st Biennial Conference of the Ghana Science Association: Theme - Sustainable Food Industry in Ghana in the 21st Century. Legon, 8th - 13th August, 1999. Six papers presented (Water Quality of the Main Tributaries of the Densu River - Dr C K Akpabli and Mr G Drah; Preparation and Characterization of Glue from Animal Bones - Dr V K Nartey and Dr C K Akpabli; Physical and Chemical Analyses of Condensed Water from Industrial Air Conditioners - Dr V K Nartey; Synthesis of the Plant Growth Factors, agropyren and capillin via trimethylsilyl intermediates - Dr R K Akuamoah; Determination of the Stereochemistry of 4-chromenecarbaldehydes using Nuclear Overhauser Enhancements (nOe) - Dr R K Akuamoah; Chemical Investigations of the Stem-Bark of *Parkia clappertoniana* Keay - Dr C T Beni, Prof W A Asomaning, Dr R K Akuamoah and Mr G Duker-Eshun).

Network for Valorisation of Plant Material (Africa) sponsored by IDRC and UNESCO: Theme - Strategies for Transfer of Research Results to Users; University of Ghana, Legon, August 15th - 18th, 1999. (Prof. W.A Asomaning and Prof. J Addae-Mensah)

Seminar on The Commercialization of Neem Products in Ghana organized jointly by the Goethe Institut and the University of Ghana; Accra, 19th - 21st October, 1999 (Coordinator: Dr A K Brimah).

DEPARTMENT OF COMPUTER SCIENCE

Overview

The Computer Science Department continues to play a leading role in the training of middle-level skilled manpower for the country's computer industry. The opportunities and potential jobs in computing and Information Technology in Ghana are enormous and therefore there is great deal of pressure from both fresh and continuing students on enrollment. However, the Department is presently saddled with the following constraints :

Recruitment of staff

The remuneration package being offered by the University is not sufficient enough to attract young computer professionals and academics. Presently there are only two full time staff after the resignation of one of the academic staff. The Department is assisted by part time lecturers from the industry.

Inadequate computing facilities

Manpower training in Computer Science must necessarily contain substantial practical component which should reflect the state of the Art Technology and meet the requirements of the Computer Industry. Regrettably, the present computing facilities of the Computer Science Department cannot fully meet this need.

Programmes

There have been no substantial changes in the programmes that the department offers for the BA and BSc. Degrees. However, much emphasis is now being placed on the practical components of all the courses and collaborative links are being established with the computer industry in order to offer the appropriate manpower training and vigorous research efforts into areas in which Computer and Information Technology can best serve the needs of the nation. Notable among these new areas are object oriented Programming and System Analysis as well as Networking and Data Communication.

Students

	1996 / 97		1997 / 98		1998 / 99	
Level 200: BA	10		10		20	
BSc.	66	76	60	70	50	70
Level 300: BA	11		10		8	
BSc.	35	46	53	63	44	52
Level 400: BA	7		11		4	
BSc.	31	38	35	46	58	62
Total		160		179		184
Service Courses		90				108

Graduates

	1996/97	1997/98	1998/99
First Class Honours	-	2	1
Second Class Upper	7	5	8
Second Class Lower	18	23	34
Third Class	10	13	6
Pass	-	-	-
Total	35	44	49

Publications and Extension activities

Aryectey, J. A. - Engaged by the Institute of Chartered Accountants of Ghana to write a study manual on Management Information System for the Professional Accountancy Students.

Departmental activities

- The Department assisted in the computerised simulation of students' scores on the use of SSCE and UEE Results for admission to the universities.

- Engaged by the Director, University Health Services. The Department is working on a computerised Medical Information System for the Students Clinic to determine the pattern, incidence and prevalent rates of diseases as well as medical examination reports of students.
- The Department has designed and presently installing a computerised Student Information System for the Faculty of Science to provide timely, accurate, reliable, up to date and statistical information on students of the Faculty of Science, University of Ghana.

Research interest

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

- | | | |
|----------------|---|---|
| Aryeetey, J. A | - | Management Information System, Computer Auditing, Object Oriented Techniques. |
| Odoom, I | - | Design and Application of Database, System Evaluation |
| Wiredu, B. K | - | Computer Hardware, Networking and Data Communication. |

DEPARTMENT OF GEOLOGY

Overview

During the 1998/99 Academic Year, research work under the DANIDA-ENRICA project continued. Money from the Minerals Development Fund has however not been provided as expected, possibly, because of the fall in the gold price on the world market. Work on projects being funded by this fund has thus slowed down. Teaching and other research work by individual senior members went on smoothly.

Courses

At the undergraduate level, no new courses were introduced during this academic year. At the graduate level, three courses: 1. Environmental Geology

2. Remote Sensing

were taught for the first time as the Department's contribution to the M. Phil. Environmental Science Programme of the Faculty of Science.

Student Numbers

Level 100	263
Level 200	40
Level 300	40
Level 400	22
M. Phil	2
Ph. D	7

Graduating Students

B. Sc Hons. (Geology single subject major) 1998/1999	
2nd Class Lower Division	6 students
3rd Class	1 student
B. Sc. Hons. (Geology/Chemistry combined subjects major) 1998/1999	
2nd Class Lower Division	1 student.

Staff

For the year under review, we had the following staff at post.

- 1 Visiting Professor (Chair of Geo - Environmental Studies)
- 4 Senior Lecturers
- 4 Lecturers

Supporting Staff.

- Three lecturers,
- | | |
|-----|-----------------------|
| Mr. | Bruce Banoeng-Yakubo, |
| Mr. | David Atta-Peters, |
| Mr. | Thomas Akabzaa, |

are pursuing Ph. D programmes within the department but carried out their full teaching duties.

Research

Research activities in the fields of hydrogeology and hydrology being financed by DANIDA, continued in collaboration with the Geological Institute, University of Copenhagen. Research projects involved are:

1. The application of Remote Sensing and G.I.S. in Hydrogeological studies in the Upper West Region of Ghana.
2. Problem of Groundwater Salination in Southern Ghana.
3. Groundwater monitoring in some mining areas in Ghana.
4. Water balance of the Densu River Basin.

Initial progress reports have been produced for the two research projects being financed from the Minerals Fund. Unfortunately, the Ghana Minerals Commission, who manage the fund, have not been able to make any further payments after the first installment meant for the desk study. We hope that with the increase in gold prices the commission would take action to rectify the situation for the department to continue work on these nationally important projects. The two projects are:

1. Search for source rocks for alluvial diamonds in the Birim diamondfield.
2. Seismotectonic studies of Accra and surrounding areas.

Extension Work

The Department has been actively involved in the work of the National Disaster Management Organization (NADMO) where we are represented on the Geological Disasters Committee by Mr. M.A. Akoto. NADMO is drawing up a Disaster Management Plan for the nation.

Publications

- Akabzaa, Thomas. - (1999) - 'The waning Lustre of gold, economies and the environment in Africa'. *Agenda* Vol. 2 No. 3 October 1999.
- Asiedu, D.K., Shigeyuki Suzuki and Tsugio Shibata - (1998) - 'Composition of detrital spinels from Lower Cretaceous Sasayama Group, Hyogo Prefecture, Japan: Constrains on source lithology and tectonic setting'. *Jour. Min. Pet. Econ. Geol.* Vol. 93 No. 1 1998.
- Atta-Peters, David - (1999) - 'Upper Devonian Acritarchs from the Takoradi Shale Formation of the Sekondian Group, Western Ghana". *Ghana Mining Journal*, Vol.5. 1999 pp 1-10.
- Macfarlane, Magnus and Thomas Akabzaa - (1999) - 'Assessing the social assessor'. *Mining Environmental Management Journal*, Vol. 7 No. 1, Jan. 1999. pp 12-14.
- Manu, Johnson - (1999) - 'Birimian Gold: Temperature constraint by carbonate formation'. *Ghana Mining Journal*, Vol. 5, 1999 pp 18-21.

Conference Reports

- Banoeng-Yakubo, Bruce. - (1998) - 'Application of remote sensing techniques and Geographical Information Systems in hydrogeological studies in the Upper West Region, Ghana'. Presented at Seminar by DANIDA-ENRICA Project, Department of Geology, University of Ghana, Legon. 1998.
- (1999) - 'Application of remote sensing techniques and Geographical Information Systems in lineament and fracture trace analysis to groundwater exploration in the Upper west Region, Ghana. An overview'. Proceedings of Seminar organised by Remote Sensing Applications Unit (RSAU), Department of Geography and Resource Development. Editors. P.W.K Yankson and M.S. Rasmussen.
- Norgbe, Bismark - Bruce-Banoeng, Y. (1998) 'The hydrogeological representativeness of monitoring boreholes in the Upper West Region, Ghana'. Presented at Seminar by DANIDA-ENRICA Project, Department of Geology, University of Ghana, Legon. 1998.
- Salami, M. B. - (1999) 'Environmental Impact Assessment policies, their effectiveness or otherwise for mining sector environmental management in Africa'. Conference on mining, development and social conflicts in Africa. Africa Secretariat, Third world network, Accra North, Ghana.
- (1999) - 1. 'Examination of the social effects in a mining community with particular reference to pollution'.
2. 'Broad concepts of environmental management in ore mining'.
3. 'Environmental training, law and practice'.

Conference on Social and Environmental Management in mines and its effects on the community. Ghana Chamber of Mines, Accra

- Akoto, Mawuli A. - (1999) 'Impact of sea level and adaptation strategy for the coastal zone of Ghana. Seismicity and seismic hazards'. A report prepared for Environmental Protection Agency, Ghana. August 1999.
- Akabzaa, Thomas. - 'Boom and Dislocation: A study of social and environmental impacts of mining in the Wasswa West District of Ghana'. A report for Third World Network - an NGO in Ghana. Lunched 19th November 1999.

DEPARTMENT OF MATHEMATICS

Overview

Since there were no applicants for graduate studies in Mathematics for this year, the Department continued to offer and teach only undergraduate courses. Of the two students who majored in the single subject Mathematics, Raymond Attah-Fynn was awarded a First Class honours degree and Joseph Quarcoo a Second Class Upper Division honours degree at the end of the year.

Large student numbers in courses at levels 100 and 200, coupled with acute shortage of staff, continue to mean heavy teaching loads and long hours of marking and grading tutorial exercises for members of staff.

Courses

Courses taught

In spite of shortage of staff, the Department fully discharged its obligations with respect to its approved undergraduate programmes at all levels. In addition the Department taught all the expected service courses to Faculties/Departments as indicated in (iii) below.

Student numbers

The break down for the number of students who registered for the B.A./B.Sc. programmes is as follows:

	1st Semester		2nd Semester	
	Arts/Social Studies	Science	Arts/Social Studies	Science
100 Level	28	41	28	40
200 Level	37	96	29	32
300 Level	3	17	14	48
400 Level	2	12	2	6

Service Courses

Service courses in General Mathematics I and II were given to the following: 1st Year students in the Faculties of Arts, Agriculture and Social Studies in addition to those in the Faculty of Science.

	General Mathematics I	General Mathematics II
Science	387	83
Arts/Social Studies	44	31
Agriculture	36	
Home Science	20	
Dip. In Med. Laboratory	16	

Staffing position

With the absence of Dr. D. Adu-Gyamfi from the Department on a two-year Sabbatical Leave in the United States, and the loss of the services of part-time staff, the number of teaching staff in the Department was reduced to five.

Research

In spite of the severe constraints on their time, members continued to do some research in their various fields of specialisation.

Departmental Seminars

A number of Departmental seminars were conducted during the year under review. These included *A Formula for Winding Number* by Dr. M. McIntyre, *Grading of Mathematics* by Prof. N.K. Kofinti and *Mathematical Models of Yellow Fever Disease Dynamics* by Dr. N.I.A. Akinwande. In addition, there were three student seminars, namely *Combinatorial Topology* by Dr. Helen Lauer, *Symmetry and Conservation Laws* by Mr. Raymond Atta-Fynn and *Path Integral formulation of Quantum Mechanics* by Mr. Joseph Quarcoo.

DEPARTMENT OF NUTRITION AND FOOD SCIENCE

Staffing position

The Department had a fair complement of teaching staff even though the session saw a few on various leaves. Part-time Lecturers were used to supplement the efforts of the permanent staff. The staffing position for the 1998/1999 academic

year was as follows:

1.	Prof. S. Sefa-Dedeh	Head of Department
2.	Prof. G.S. Ayernor	Associate Professor
3.	Dr. E. Asibey-Berko+	Senior Lecturer
4.	Dr. E.K. Collison++	Lecturer
5.	Dr. Esther Sakyi-Dawson	..
6.	Dr. O. Boeh-Ocansey++	“
7.	Mrs. Agnes Budu+++	“
8.	Dr. W.B. Owusu	“
9.	Dr. Matilda Steiner-Asiedu++	..
10.	Mrs. Anna Lartey	Lecturer
11.	Mr. F.A.K. Tayie	“
12.	Prof. R. Orraca-Tetteh	Part-Time Lecturer
13.	Dr. J. Nketsia-Tabiri	Part-Time Lecturer
14.	Dr. W.A. Plahar	Part-Time Lecturer

+ On Sabbatical

++ Leave of Absence

+++ Study Leave

Student admissions

The department continues to attract a large number of students of the undergraduate and post-graduate levels. Admissions into the programmes were as follows:

Undergraduate Food Science

Level 200 (Introductory Food Science)	-	45
Level 300	-	32
Level 400	-	32

Undergraduate Nutrition

Level 200 (Introductory Nutrition)	-	271
Level 300	-	34
Level 400	-	26

Post-graduate

M.Phil (Food Science)	-	12
M.Phil (Nutrition)	-	2
Ph.D (Food Science)	-	5
Ph.D (Nutrition)	-	2
M.Phil Part II (Food Science)	-	13

M.Phil Part II (Nutrition)	-	5
PhD Part II (Food Science)	-	3
PhD Part II (Nutrition)	-	3

Research

Staff were involved in research in food processing, post-harvest management, food product development, maternal and child nutrition, micronutrients, complementary foods, child growth and nutrition and nutritional epidemiology. Two workshops were held to share the results of research.

International Workshop on Cowpea Processing

This brought together Food Scientists/Technologists, Nutritionists, Agronomists, Entomologists, Economists and other Social Scientists for a two-day workshop. Participants were from Ghana, Nigeria, Senegal, Benin, Burkina-Faso, Mali, Malawi, Tanzania and USA. The workshop was funded through the USAID-Collaborative Research Support Program. Several papers were presented and discussed. These have been peer reviewed and compiled as proceedings. The workshop provided a means to identify strategies for widespread impact through better collaboration within and across teams.

Workshop on Double-Fortified Salt

The Workshop provided a forum to share the results of research conducted in the Department of Nutrition and Food Science on double-fortified salt. Scientists from the Universities and Research Institutes and Industrialists were given information on different aspects of the production, testing and efficacy of double-fortified salt.

The Department was active during the year and academic staff continued to be involved in research and extension. Several funded-research programmes were executed. These include:

1	A USAID-funded project under its Collaborative Research Support Programme	<p>Researchers Prof. S. Sefa-Dedeh Dr. Esther Sakyi-Dawson Dr. Matilda Steiner-Asiedu Dr. Wilson (Zoology) Dr. O. Sakyi-Dawson (Agric. Extension) Dr. Anna Lartey Dr. K. Tano-Debrah</p>
Title:	Improved processing technologies to increase cowpea utilization	
2	A Norwegian Universities funded (NUFU) project	<p>Dr. Matilda Steiner-Asiedu Mr. Francis Tayie Dr. E. Sakyi-Dawson Prof G. S. Ayernor Dr. K. Tano-Debrah Dr. Anna Lartey</p>
Title:	Processing of protein foods to improve nutrition and health	
3	WHO-funded Multicenter Growth Reference Study (MGRS)	
	This project is as part of a global study on the growth of children. The objective of the study is to develop new	<p>Dr. W. B. Owusu Dr. Anna Lartey</p>

growth reference curves using prospective data from the different parts of the world. The project is being executed by the Department of Nutrition and Food Science with the collaboration of staff from the Ministry of Health. The Department received support in the form of equipment and vehicles for the project to commence.

Dr. Isabella Sagoe-Moses (MOH)
 Dr. Charles Sagoe-Moses (MOH)
 Ms. Veronica Gomez (MOH)

Some Research work of Undergraduate and Post-graduate students

1. Iron and Vitamin C Contents of Commonly Consumed Green Leafy Vegetable in Ghana.
2. Food Canning Evaluation of Kontomire.
3. Growing Patterns and paediatric monitoring of infants and children in the Accra metropolis.
4. Preservation of Cowpea through Canning.
5. Characterisation of Banana Cultivars and their suitability for processing.
6. Protein, Calcium, Iron and Zinc Contents of some Vegetarian Diets in Accra.
7. Predictors of Birthweight among Ghanaian Infants.
8. Dietary patterns, lifestyle and Anthropometry of Breast Cancer Patients in the Surgical Block of the Korle-Bu Teaching Hospital.
9. The Nutritive Value of some Cultivars of a Bambara Groundnut (*Voandzeia subterranea*(L) thouars)
10. Intermediate Scale production of Dextrose (Sugars) from Cassava.
11. Improving the Quality of maize through the Application of HACCP.
12. The Association between the Nutritional Status and the Academic performance of School Children.
13. Nutritional Status of pre-school children in a Palm Oil producing Community: with Special Emphasis on Vitamin A.
14. The Efficacy of Double-Fortified Salt in Reducing Iodine Deficiency and Anaemia.

Publications

- | | | |
|--|---|---|
| Sefa-Dedeh, S., Allotey, J., Osei, A.K. and Collison, E.K | - | 1998. Effect of Steam and solar heat treated cowpea seeds on some aspects of the developmental biology and control of <i>Callosobruchus maculatus</i> (F.) In: In: Proceedings of the Sixth Australasian Applied Entomological Research Conference. Brisbane, Australia. September 29-October 2, 1998. pp 337-338 Ed. Zalucki, M.P., Drew, R.A.I. and White, G.G. |
| Sefa-Dedeh, S., Sanni, A.I. and Tetteh, G. | - | 1999. Yeasts in the traditional brewing of pito in Ghana. <i>World J. Microbiol. and Biotech.</i> 15(5):593-597 |
| Tayie, F.A.K. | - | 1999. Baseline data during the double-fortified salt study. <i>Proceedings of the workshop on double-fortified salt.</i> 22-27. |
| | - | 1999. Social issues, salt usage and health symptoms during the double-fortified salt study. <i>Proceedings of the Workshop on double-fortified salt.</i> 48-54. |
| Lartey, Anna, Alhassan Manu, Kenneth Brown, Janet Pearson, Kathryn Dewey | - | 1999. A randomized community-based trial of the effects of improved, centrally processed complementary foods on growth and micronutrient status of Ghanaian infants 6 to 12 mo. of age. <i>Am J Clin Nutr.</i> 70:391-404. |

- Kimmons J.E., Brown K.H., Lartey A., Collison E., Mensah P.P.A., Dewey, K.G. - 1999. The effects of fermentation and thermos flask storage on the presence of coliforms in complementary foods prepared for Ghanaian children. *Int. J. Food Sci. Nutr.* 50:195-201.
- Fano-Debrah, K., Fukuyama, S., Otonari, N., Taniguchi, F., Ogura, M. - 1999. An inoculum for the aerobic treatment of wastewater with high concentrations of fats and oils. *Bioresource Technology* 68, 133-139.
- Sakyi-Dawson, E.O. Sampson, E. and Ann, F. O. - 1999. Quality characteristics of some yam (*Dioscorea* sp.) varieties grown in Ghana. Paper presented at Faculty of Science, University of Ghana, 50th Anniversary Celebration Colloquium, February 1999.
- Sanni, A. I., Sefa-Dedeh, S., Sakyi-Dawson, E.O. - 1999. Microbiological evaluation of cowpea fortified Ghanaian fermented maize dough. In: *Proceedings of the International Workshop on Cowpea Processing and Utilisation*, Jan. 25-29, 1999, Accra, Ghana.
- Sefa-Dedeh, S., Sey, A. D., Asiedu, M. S., and Sakyi-Dawson, E.O. - 1999. Amino acid profile of Ghanaian maize and cowpeas. In: *Proceedings of the International Workshop on Cowpea Processing and Utilisation*, Jan 25-29, 1999, Accra, Ghana.
- Ackom, I. K., Sefa-Dedeh, S., Sakyi-Dawson, E. - 1998. Extrusion of millet and the effect of cowpea addition for weaning food formulation. *International Conference on Infant and Pre-school Child Nutrition*, November 16-21, 1998, University of Ibadan, Nigeria.
- Komey, N. S. and Sefa-Dedeh, S. - 1999. Effects of steaming method on some characteristics of hydrothermally treated cowpea seeds In: *Proceedings of the International Workshop on Cowpea Utilization*. Accra, Ghana, January 25 - 29, 1999.
- Sefa-Dedeh, S., Egyir-Yawson, A. P., Wilson, D. and Obeng-Ofori, D. - 1999. The hydrothermal treatment as a replacement for chemical insecticides in the protection against *Callosobruchus maculatus* (F.) In: *Proceedings of the International Workshop on Cowpea Utilization*, Accra, Ghana, January 25 - 29, 1999.
- Sefa-Dedeh, S., Sakyi-Dawson, E.O. and Sanni, A. I. - 1999. Microbiological evaluation of cowpea-fortified fermented maize dough. In: *Proceedings of the International Workshop on Cowpea Utilization*. Accra, Ghana, January 25 - 29, 1999.
- Opare-Obisaw, C., Orraca-Tetteh, R., Sefa-Dedeh, S. and Lied, E. - 1999. Evaluation of home-made weaning meals supplemented with cowpeas: protein quality and growth response in malnourished pre-school children In: *Proceedings of the International Workshop on Cowpea Utilization*. Accra, Ghana, January 25 - 29, 1999.
- Sanni, A. I., Sefa-Dedeh, S., Sakyi-Dawson, E.O. and Asiedu, M. S. - 1999. Effect of processing conditions on the viscosity, in vitro protein and starch digestibilities of ogi-baba, a Nigerian fermented sorghum gruel In: *Proceedings of the International Workshop on Cowpea Utilization*. Accra, Ghana, January 25 - 29, 1999.

- Sefa-Dedeh, S., Sey, A. D., Axiedu, M. S. And Sakyi-Dawson, E.O. - 1999. Amino acid profile of Ghanaian maize and cowpeas In: Proceedings of the International Workshop on Cowpea Utilization. Accra, Ghana. January 25 - 29, 1999.

Published Abstracts

- Hammond, T.K. and Ayernor, G. S - (1999). Combination of malted cereals and cassava starch in the production of sugar syrup (Book of Abstracts: page 86, No. 133. GSA 21st Biennial Conference, 8-13 Aug., 1999, Legon-Accra).
- Mensah, E. D. and Ayernor, G. S. - (1999). Functional Role of Ascorbic Acid in Bread Making. (Book of Abstracts: page 87, Abs. No. 135. GSA 21st Biennial Conference, 8-13 Aug. 1999, Legon-Accra).
- Sefa-Dedeh, S., Sasi, S., Sakyi-Dawson, E.O. and Collison, E.K. - 1999. Process and product characteristics of iron fortified fermented maize dough. In: Book of Abstracts, Institute of Food Technologists, Abstract No. 79D-12. pp 220.
- Sefa-Dedeh, S., Egyin-Yawson, A.P., Wilson, D. and Sakyi-Dawson, E.O. - 1999. The potential of hydrothermal treatment as a means of protection against some pests of stored cowpea (*Vigna unguiculata*) In: Book of Abstracts, Institute of Food Technologists, Abstract No. 79D-49. pp 227.
- Komey, N.S., Chinnan, M.S., Phillips, R.D. and Sefa-Dedeh, S. - 1999. Physical and functional changes resulting from hydrothermal treatment of whole cowpea seeds In: Book of Abstracts, Institute of Food Technologists, Abstract No. 37A-37. pp 82.
- Opai-Tetteh, S., Sakyi-Dawson, E. Amoa-Awua, W. - 1999. The role of *Bacillus* species in the alkaline fermentation of soydawadawa. In Book of Abstracts, Institute of Food Technologists, Abstract No 37D-30.
- Sakyi-Dawson, E.O. and Gyedu, E. - 1999. Studies on some chemical and quality characteristics of cocoa pulp juice (sweatings). (Book of Abstracts: page 88, Abs. No. 139. GSA 21st Biennial Conference, 8-13 Aug. 1999, Legon-Accra).
- Osei, F. and Sakyi-Dawson, E.O. - 1999. Assessment of the quality status of a small-scale fruit drink processing factory by use of statistical quality control techniques. (Book of Abstracts: page 89, Abs. No. 142. GSA 21st Biennial Conference, 8-13 Aug. 1999, Legon-Accra).
- Osei, F. and Sakyi-Dawson, E.O. - 1999. Development of a HACCP model for use in a medium-scale fruit juice processing factory. (Book of Abstracts: page 103, Abs. No. 177. GSA 21st Biennial Conference, 8-13 Aug. 1999, Legon-Accra).

Presentations at Conferences

- Sefa-Dedeh, S. - 1999. Towards an Achievable Vision 2020. The Strategic Role of Food Science and Technology. Presented at the 21st Biennial Meeting of the Ghana Science Association, University of Ghana, Legon, August 9, 1999.

- 1999. Population and Food Security. Symposium on "Critical Issues and Challenges of the 21st Century." Ghana Academy of Arts and Science, November 16, 1999.
- Tayie, F.A.K. - 1999. A Study of nutritional habits of salaried workers during pay and non-pay periods. 21st Biennial Conference of the Ghana Science Association, 8-13 August, 1999.
- Lartey, A. - 1999. Vitamin A status of Ghanaian breast-fed infants 6-12 months fed improved complementary foods. International Vitamin A Consultative Group XIX meeting, Durban, South Africa, March 8-12, 1999.
- 1999. WHO Multicenter Growth Reference Study: Progress report from Ghana Site. World Health Organization - Multicenter Growth Reference Study (MGRS) Third Steering Committee Meeting, Oslo, Norway, October 18-27, 1999.

Conferences/Workshops/Seminars attended

- G.S. Ayernor, E. Sakyi-Dawson, F. A. K. Tayie, W. B. Owusu, S. Sefa-Dedeh, K. Tano-Debrah - 21st Biennial Conference of the Ghana Science Association, Accra
- S. Sefa-Dedeh, K. Tano-Debrah, W. B. Owusu, A. Lartey, E. Sakyi-Dawson - International Workshop on Cowpea Processing and Utilization, Accra
- S. Sefa-Dedeh, E. Sakyi-Dawson - Annual Meeting of Institute of Food Technologists, Chicago, Illinois
- W. B. Owusu - 4th National Course on Food and Nutrition, Tamale
- K. Tano-Debrah, F. A. Tayie, E. Asibey-Berko, E. O. Sakyi-Dawson - Workshop on Double-fortified Salt

Extension Work

- Sakyi-Dawson, E. - Technical support to Athena Foods Ltd. on the appropriate use of sensory evaluation techniques and procedures on their products.
- Tano-Debrah, K. - Member, Technical Committee on Spices and Condiments, Ghana Standards Board.
- Owusu, W.B. - Co-ordinator, Public Health Nutrition course at the School of Public Health, Legon.
- Writing of feature articles on lifestyle and health in The Mirror.
- Ayernor, G. S. - Served as Chairman, Technical Committee, Ghana Standards Board.

Benefactors

1. WHO-MGRS Project

3 computers and accessories

1 Nissan Urvan Bus

1 Nissan Sunny

1 Fax machine

Miscellaneous anthropometric data collection equipment

\$53,000 for project activities

2. USAID-CRSP Project

\$46,000 for research activities on cowpea processing

DEPARTMENT OF OCEANOGRAPHY AND FISHERIES

Overview

The academic link with the Polish Academy of Sciences and University of Gdansk has been strengthened with commencement of collaborative research. The Department in association with the University of Newcastle (Dept. of Marine Sciences & Coastal Management) UK, is also co-ordinating a Darwin Initiative Project on Marine Biodiversity with Capacity Building in West Africa. A memorandum of understanding was signed with the Fisheries Department of the Ministry of Food and Agriculture to train their staff at the postgraduate level. Thirteen graduate students are enrolled in the Department. Research activities include studies on fish, fisheries, plankton, benthos, and marine reptiles (sea turtles) and mammals (dolphins).

Courses

The Department runs M.Phil and Ph.D degree programmes in Fisheries Science and Oceanography. The M.Phil programme includes courses on coastal zone management. The Department teaches the integrated coastal zone management and Fisheries management components of the M.Phil Environmental Science Programme of the Faculty of Science. It services, also, undergraduate courses in fishery science and contributes to supervision of undergraduate dissertations in the Department of Zoology.

Student Numbers

There are currently 8 M.Phil and 5 Ph.D students at various levels of completion of their studies

Staff

J. Vanderpuye	: Assoc.Prof. Head of Department
A.K. Armah	: Senior Lecturer
G. Wiawe	: Lecturer
E.K.E. Nunoo	: Principal Research Assistant
Adelina Butler(Mrs.)	: Teaching Assistant

Part-Time Lecturers

Dr. E.K. Abban
Dr. V. Ziddah
Mr. M.A. Mensah
Mr. P.K. Ofori Danson

The academic staff is supported by four non-academic staff.

Research/collaboration

1. Polish Academy Sciences/University of Gdansk

Four Polish scientists (Profs. T. Sywula, J. Rokicki, E. Skorkowski and Dr. K. Poltazewska) from the Polish Academy of Arts and Sciences and the University of Gdansk visited the Department from July to August, 1999. Joint intensive studies involving population genetics of in-shore zooplankton and lagoon organisms as well as parasitology and hormones of lagoon fishes were undertaken with two Ghanaian counterparts (G. Wiawe and A. K. Armah). The Ghanaian counterparts will team up with the Polish scientists for the laboratory analytical aspects in Poland.

2. Darwin Initiative - Marine Biodiversity of West Africa

As part of the Darwin Project on Marine Biodiversity of West Africa one staff (G. Wiawe) visited the U.K. from mid August to November and undertook further training in zooplankton as well as biotope mapping at the University of Newcastle and Plymouth Marine Laboratory. The project is expected to end in March, 2001.

3. START Guest Lectureship

The Department hosted a series of 3 seminars delivered by Dr. J. G. Rees (British Geological Survey and Visiting Scholar of START (SysTem for Analysis, Research and Training) of the IGBP, IHDP and WCRP of ICSU on :

- Regional Usage of Geoscience Data within Coastal Zone Management
- Contamination along Urbanized Coastal Margins and
- Coastal Response to Sea Level Change.

4. Research activities carried out:

Natural and anthropogenic impacts on sandy shore fauna along the Ghanaian coast.

The 'Acadja' Fishery of Keta Lagoon.

Fish culture in 'whedos' commonly found along the south-eastern flood plains of the Volta Region.

An assessment of the impact of urbanization and industrialization on the structure of the marine benthic community of the

coastal waters off Accra-Tema.

Biotic, abiotic and anthropogenic factors controlling nearshore marine fishes caught in beach seines in Accra and implications for management.

The Life History of the West African Pygmy Herring, *Sierrathrissa Leonensis* (Pisces: Clupeidae) in the Kpong Headpond
Comparative studies of the dynamics and management of fish populations in two coastal lagoons in Ghana.

Assessment of five major commercial fish species in Yeji Area (Stratum VII) of the Volta Lake.

Marine plankton biodiversity in Ghana and influence of climatic and hydrographic factors on phytoplankton and zooplankton communities off the coast of Ghana;

The population biology and ecology of marine turtles in Ghana

The population biology and ecology of dolphins in Ghana

Publications

- Armah, A.K.
- Wandiga, S. and A. K. Armah (1998). International cooperation between IGBP National Committees of developed and developing countries. In: Global Change Newsletter, 36: 6-7. IGBP Secretariat, The Royal Swedish Academy of Sciences, Stockholm, Sweden.
 - Armah, A. K., Darpaah, G. A. and Carboo, D. (1998). Heavy metal levels and physical parameters of drainage ways and wells in three mining areas in Ghana. *Journal of the Ghana Science Association*, 1: 113 - 117.
 - Armah, A. K., Darpaah, G. A. and Wiafe G., Adomako, J.K., Quartey, S.Q., Abotchie, C., Ansah, F. and Fiagbedzi, S. (1998). Traditional and modern perspectives in marine turtle conservation in Ghana. In: Biodiversity Conservation: traditional knowledge and modern concepts. Eds. Amlalo, D. S., Atsiatorne, L. D. and C. Fiati. EPA/MAB/UNESCO. Accra., pp. 80-87.
 - Armah, A. K., Darpaah, G. A. and Wiafe G. (in press). Water quality studies on two irrigation associated rivers in southern Ghana. *Journal of the Ghana Science Association*. 11pp.
- Wiafe, G.
- Wiafe, G. and C.L.J. Frid (1999): CD-ROM Database on Marine zooplankton biodiversity of West Africa, a Darwin Initiative supported Project. Darwin Initiative for the Survival of Species, 162/7/45.
 - Wiafe, G. and C.L.J. Frid (1999): Guide for the identification of marine zooplankton of West Africa. Darwin Initiative for the Survival of Species, 162/7/45.
 - Wiafe, G. and C.L.J. Frid (1999): Field and teaching manual on zooplankton ecology in the West African sub-region. Darwin Initiative for the Survival of Species, 162/7/45.
 - Wiafe, G. (In press): The importance of behaviour mechanisms in Lagrangian transport of nearshore planktonic copepods. In Proceedings of the 9th Faculty of Science Colloquium. Faculty of Science, University of Ghana, Legon. 22 - 23 February, 1999.
- Nunoo, Francis K.E.
- (1998) By-catch: A problem of the Industrial Shrimp Fishery in Ghana. *Journal of the Ghana Science Association*, 1:17-23.
 - (1999) Industrial Shrimp Fishing in Ghana- Environmentally Unfriendly? p. 73-79. In: Proceedings of the 8th Faculty Colloquium, 12-13th June 1997. Faculty of Science, University of Ghana, Legon.
 - (In Press) A Simple Model for the Simultaneous Management of Seabird Populations and Discards at Sea. In Proceedings of the 9th Faculty of Science Colloquium. Faculty of Science, University of Ghana, Legon. 22 - 23 February, 1999.

Workshops/Conferences

- Armah, A.K.
- Coastal - Global Ocean Observing System (C-GOOS) of IOC-UNESCO Third Panel Meeting and Stakeholders Workshop, Accra, Ghana, 12-15 April, 1999.
 - Advisory Committee on Protection of the Sea (ACOPS) Conference on Cooperation for Development and Protection of the Marine and Coastal Environment in Sub-Saharan Africa, Cape Town, South Africa, 30th November to 4th December, 1998.
 - (1998). Lessons Learned from the Large Marine Ecosystem Activities in Africa - The Atlantic Ocean. Paper presented at the Pan-Africa Workshop on Large Marine Ecosystems, Cape Town, South Africa, 27-28 November, 1998.
 - Armah, A. K., Darpaah, G. A. and Wiafe G. (1998). Water and nutrient Fluxes in the Angaw Lagoon of the Volta Deltaic Estuary of Ghana. Paper presented at the START/IOC/LOICZ Workshop on: Climate Change and Coastal Processes in West Africa, Cotonou, Benin, 23-25 November, 1998. 12 pp.
 - Armah, A. K., Wiafe, G and D. Kpelle. (1998). Impacts of Sea Level Rise on Coastal Biodiversity - a case study from Ghana, West Africa. Scientific Session of the Fifth Meeting of the Scientific Advisory Council of the International Geosphere - Biosphere Programme (IGBP) of the International Council of Scientific Unions (ICSU), 2-7 September, 1998. UNEP Headquarters, Nairobi, Kenya. 15 pp.
- Wiafe, G.
- Workshop on Habitat Mapping and Cataloguing Marine Resources. A Darwin Initiative Programme on Marine Biodiversity and Capacity Building in the West African sub-region. Newcastle-upon-Tyne, U.K. 18 September - 22 September, 1999
- Nunoo, Francis K.E.
- FAO/INCO Workshop on Sustainable Fisheries Management in the Gulf of Guinea. Accra, Ghana. 27-29th. July 1998.
 - FAO/INCO SimCoast Workshop on Coastal Zone Management, Accra, Ghana. 30-31st. July 1998.
 - North Carolina State University, Raleigh, USA. Modelling Biological Systems. Course Poster Session. 3rd December 1998. Title of Poster: Reduce Discards or Face Escalating Numbers of Seabirds- A Coastal Manager's Dilemma.
 - National Workshop on Integrated Coastal Zone Management Plan of Ghana. 20th. Aug. 1999. Under the auspices of LME/GOG Project and the Ministry of Science and Technology, Accra, Ghana.
 - FAO of the UN Integrated Irrigation and Aquaculture Workshop. Sept 20-21, 1999. Accra, Ghana.
 - FAO of the UN Africa Regional Aquaculture Review Workshop. Sept. 22-24, 1999. Accra, Ghana.

Benefactions

Hotel Shangri-La (Swimming pool)

The Department is grateful to Hotel Shangri-La, Accra, for putting their swimming pool and instructors at the disposal of the Department for the training of graduate students.

2. **Books and Journals**
The Department also received a collection of fisheries and aquaculture books and journals from Dr. W. H. L. Allsopp (former FAO Fishery Officer for Africa and now Honorary Consul General for Ghana in British Columbia, Canada)
3. **Training in Sea Turtle Research and Monitoring**
Mr. B. Amiteye, a graduate student of the Department, undertook a three -month training in Sea Turtle Research, Monitoring and Management under the auspices of the Caribbean Conservation Cooperation at Tortuguero, Costa Rica from July to September, 1999. His trip was supported by The Resource Environment Development Organization (REDO), the Inter-governmental Oceanographic Commission of UNESCO, Paris, and Ghana Airways.

DEPARTMENT OF PHYSICS

Overview

The staffing situation worsened with the appointment of Professor J.K.A. Amuzu as Pro-Vice Chancellor and Professor R.D. Baeta proceeding on one year Sabbatical Leave. This necessitated the continued reliance on part-time lecturers from the Atomic Energy Commission, Kwabenyia.

Student Numbers by Category

Numbers of students registered for courses offered by the Department were as follows:

(I)	Level 100	-	298
(ii)	Level 200 (Mathematical/Physical/ Earth Science Option)	-	78
(iii)	Level 200 (Biological Science Option)	-	331
(iv)	Level 300	-	52
(v)	Level 400	-	27
(vi)	M.Phil. Part I	-	4
(vii)	M.Phil. Part II	-	2
(viii)	Ph.D.	-	5

Staff

Professors G.K. Tetteh and E.K. Agyei were with the Department on post-retirement contract. The following remained at post:

Professor K.G. Adanu	-	Associate Professor
Dr. R. Kwadjo	-	Senior Lecturer
Mr. V.C.K. Kakane	-	Senior Lecturer
Dr. K. Oduro-Afriyie	-	Senior Lecturer
Mr. G.M. Ahadzɔ	-	Lecturer

Research

Research in the department has continued to follow those areas covered in previous years:

1. Application of remote sensing in climatology
2. X-ray fluorescence analysis and application of nuclear techniques
3. Materials Science including Building Materials
4. Process Control and Automation
5. Development of a model for drought prediction in West Africa
Estimation of erodibility of Ghanaian soils for the construction of soil erodibility map for Ghana.
6. Development of the application of photovoltaic power systems

Publications and Honours

Kakane, V.C.K.	-	1999: Soil Heat Flux-Net Radiation Relations for some Surfaces. Submitted to: Journal of Applied Science and Technology.
Oduro-Afriyie, K.	-	1999: Delivered Through Rain: Asempa Publishers, Accra, Ghana.
	-	1998: Rainfall Erosivity Map for West Africa: J. Appl. Sci. & Technol, Vol. 3, Nos. 1 & 2, pp. 92-101.
	-	1998: On the Estimation of Monthly Mean Daily Global Solar Radiation in Ghana: J. Appl. Sci. & Technol., Vol.3, Nos. 1 & 2, pp. 73-83. (Co-author: K. Anane-Feni

Honours:

Oduro-Afriyie, K.	-	Biographee in Marquis WHO'S WHO IN THE WORLD 1998.
	-	Biographee in Marquis WHO'S WHO IN THE WORLD.

DEPARTMENT OF STATISTICS

Overview

A nice well kept flower garden in front of our new Departmental building has come to make the beauty of the building complete. The pressure of the use of our facilities by other University Departments has not abated; indeed, it has increased. If this trend persists, it might lead to a significant increase in maintenance costs in future.

The furnishing of our reference library continues. Our main problem is that Statistics Text Books are now very expensive. We have managed the problem by relying in part on the Ghana Book Trust whose help we record herewith appreciation.

Student enrolment at Level 200 is on the decline, but our hope is that it will pick up again. We therefore need to improve our Computing and Audio-Visual facilities in preparation.

Some of our post-graduate students have been able to overcome the problem of adjustment to the M.Phil programme in Statistics. Six of them are now working on their theses. This holds good prospects for our staff development plans.

Teaching programmes

The number of full-time lecturers is four-including the acting Head of Department - the same as last year. The result, as before, is a heavy load of teaching responsibility at the risk of individual research. Our visiting scholar, who renewed his appointment for another year, and three part-time lecturers continue to ease out the burden of our situation. The result is our ability to offer for the first time two courses: Non-Parametric Statistics and Non-Parametric Inference. This means a slightly wider scope of choice for our B.A., B.Sc. and M.Phil students.

To the outsider, some of our courses would appear somewhat much too theoretical. Our defence is that this is more or less a universal phenomenon and that without this theoretical 'bias', our students have little chance of understanding the applied courses.

From an unusually low level of 34 in 1997, the number of students graduating from the Department of Statistics is on the increase again. In the year under review, we counted 48, an increase of approximately seven percent on the number in the year before.

Enrolment trends

	1997/98	1998/99	1999/2000
Level 200	125	110	119
Level 300	82	60	64
Level 400	57	62	47
Total Undergraduate	264	232	230
M.Phil	5	10	6
Ph.D.	-	1	
Service Courses for Biologists	297	357	

Graduates

	1997/98	1998/99	1999/2000
First Class Honours	0	2	1
Second Class Upper	8	4	6
Second Class Lower	20	24	31
Third Class	6	14	10
Pass	0	1	0
	34	45	48

Staff

Dr. F. K. Atsem	-	Lecturer (Ag. Head of Department)
Prof. S. I. K. Odoom	-	Associate Professor
Dr. I. G. Akar	-	Lecturer
Mrs. M. Danso-Manu	-	Lecturer

Visiting Scholar

Dr. C. O. Omekara	-	Senior Lecturer
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Part-time

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

Research and related activities

Atsem., F. K.	-	Non-negative Matrices and their use in Economics, Demography and Stochastic Processes.
Akar, I. G.	-	Sampling Techniques.
Danso-Manu, M. E.	-	Social and Environmental Statistics.
Odoom, S. I. K.	-	Biological Processes, Risk Theory and Life Contingencies.
Omekara, C. O.	-	A geometrical approach for predicting accuracy limits in sampling from finite populations.

Publications

None in the year under review.

Benefactions

- The Department received a grant of two million cedis (2 million) from the Shell Foundation for the purchase of books.
- Dr. K. T. De Graft Johnson, our external examiner, donated a large number of Books and Journals to our Departmental Library.

- * Prof. E. Laing, Emeritus Professor of Botany, University of Ghana, also made a kind donation of several copies of BIOMETRIKA to our Departmental Library.

VOLTA BASIN RESEARCH PROJECT (VBRP)

Staff position

During the 1998/99 academic session five full-time Research Fellows were at post. These Research Fellows were supported by five Technicians and three Graduate Senior Research Assistants and five Secretarial Staff members. Also, six Senior Members from various departments of the University helped the full-time Research Fellows in the basin's research projects. Of the five vacancies existing on the approved VBRP Senior Members establishment, two were filled with the appointment of two Social Science specialists (one Sociologist and one Geographer). The two newly appointed Research Fellows will resume duty, hopefully, in the 1999/2000 academic year.

Teaching

All the full-time VBRP Research Fellows during the 1998/99 session taught various courses (Level 100-600) in the various departments to which they were attached. All the fellows also supervised undergraduate and post-graduate students' dissertation projects during the session. One of the Research Fellows, Dr. Chris Gordon, continued co-ordinating the M.Sc programme in Environmental Science, Faculty of Science, Legon.

Research

Research during the 1998/99 session was focused mainly on completion of Phase II of the Lower Volta Environmental Impact Studies (LVEIS) which was funded by the Volta River Authority. The multidisciplinary research covered the fields of Socio-economics, Agroecology, Soils and Land-use, Limnology and Ecotoxicology, Hydrobiology and Fisheries, Water Quality, Aquatic Weeds and Public Health. The studies were to provide a multidisciplinary baseline data on the impact of the construction of the Volta dams (Akosombo and Kpong) on the biophysical environment and the socio-economic conditions in the Lower Volta Basin and to find ways of mitigating the adverse impacts and enhancing the positive impacts.

Publications

VBRP Staff: 1999. Lower Volta Environmental Impact Studies. Final Status Report for Second Phase. Prepared for the Volta River Authority, 110p.

- Amatekpor, J. K.
- 1999. Soils and Land-Use in the Volta Basin: State of the Art. *In* Gordon, C. and J. K. Amatekpor (eds) pp91-105. **The Sustainable Integrated Development of the Volta Basin in Ghana.** VBRP, Accra.
 - 1999. (With Y. Ahenkora and G.N.N. Dowuona) Soils and Water Resources: Their Conservation Management and Constraints in their Utilization. *In* J. J. Baidu-Forsson (ed.), pp 90-95. **Africa's Natural Resources Conservation and Management Surveys** The United Nations University/INRA, Tokyo.
 - 1999 (With Rubin, J.A. and C. Gordon) Causes and Consequences of Mangrove Deforestation in the Volta Estuary. Ghana: Some Recommendations for Ecosystem Rehabilitation. Elsevier Science Ltd., **Marine Pollution Bulletin** Vol. 37 Nos 8-12 441-449.
 - 1999 (With C. Gordon, eds.). **The Sustainable Integrated Development of the Volta Basin in Ghana.** Volta Basin Research Project, Legon-Accra. 159pp ISBN 9988-0-0237-8.
 - 1999 (With Dorgbetor, W. K. and G.N.N. Dowuona) Pedological differences in a Cambisol in the Lower Volta Floodplain. Proceedings of the 16th Annual General Meeting of the Soil Science Soc. of Ghana, Tafo, 16th-29th February, 1999. (In press).
 - 1999 (With Kufogbe, S. K. and S. E. K. Duadze) Remote Sensing Application for Land-Use/Cover change studies in the Lower Volta Basin of Ghana. Proceedings of Africa (GIS 99 Conference. International Conference Centre, Accra, 21-24 June, 1999. (In press).
- Amoah, Cecilia
- 1999 (With Oppong I. V.). Bacteriocidal and purification properties of *Moringa oleifera* LAM (Moringaceae) on drinking water from the Lower Volta Basin. 20th African Health Sciences Congress, University of Ghana, Legon, February, 1999. (In press).
 - 1999 (With Odamtten, G. T. and H. Longmately). Sensitivity of *Escherichia coli* and *Klebsiella pneumoniae* isolated from drinking water in the Lower Volta Basin to some commonly used antibiotics. 20th African Health Sciences Congress, Legon, February, 1999. (In press).
 - 1999 (With Odamtten, G.T.). Influence of extracts of six local plants on germination capacity of sporangia of *Phytophthora palmivora* (Butl.) causing Black Pod Disease of Cocoa (*Theobroma cacao*). **Journal of Ghana Science Association.** (In press).
 - 1996 (With Odamtten G. T. and D. A. Agbodaze). Biochemical characteristics of *Plesiomonas shigelloides* isolated from prawns (*Macrobrachium* sp) and water sampled from the shoreline of the Volta river. **Ghana J. Science, Vol. 31-36:105-108.**
- Gordon, Chris
- 1998. The Zooplankton of the Thames Tideway. *In* M.J. Attrill (ed.). **A rehabilitated estuarine ecosystem. The Thames Estuary, its Environment and Ecology.** Chapman and Hall, London, 254p.
 - 1998. (With C. M. Finlayson, Yaa Ntiamoah-Baidu, J. Tumbulto and M. Storrs). Hydrobiology of the Songor and Keta lagoons: Implications for wetland management in Ghana. Environmental Research Institute of the Supervising Scientist, Australia, 165p.
 - 1998. (With D. Offerman and Y. Ntiamoah-Baidu). Project Proposal for the Anansuri Catchment Integrated Development Project. Prepared for the Netherlands Ministry for Development Co-operation (DGIS).
 - 1998. (With H. O. Ankrab) Water Quality and Aquatic Ecology in Coastal Wetland Sites. *In* Gordon, C. (ed.) **Monitoring the Ecological Character of Coastal Ramsar Sites: Water Quality and Faunal Diversity. Final Report.** Ghana Wildlife Department, Coastal Wetland Management Project. (GERMP/CWMP-CR 2426 GH/GEF TF 28619 GH).

- 1998. (With J. Rubin and J.K. Amatekpor). Causes and Consequences of Mangrove deforestation in the Volta Estuary, Ghana: Some recommendations for ecosystem rehabilitation. *Marine Pollution Bulletin*, 37 (8-12): 441-449.
 - 1998. (With J.K. Amatekpor, eds.). *The Sustainable Integrated Development of the Volta Basin in Ghana*. VBRP, Legon. 159pp.
 - 1999. An overview of the fish and fisheries of the Volta Basin. In Gordon, C and J.K. Amatekpor (eds) pp. 75-87. *The Sustainable Integrated Development of the Volta Basin in Ghana*, VBRP, Legon.
 - 1999. (With K.A. Yankson, C.A. Biney, D.S. Amlalo) *Wetland Typology: Contribution to the Ghana National Wetland Strategy*. 56pp.
- Darpaah, G. A.
- 1999. *Shrimp Culture Development in Ghana: A pilot shrimp culture project*. A report submitted to the National Agriculture Extension Project (NAEP/World Bank). Ministry of Food and Agriculture. Accra. 76pp.
 - 1999. (With Armah, A.K. and G. Wiafe). Water quality studies on two irrigation associated rivers in southern Ghana. *Journal of Ghana Science Association*. Vol.1 No2: pp.....

Conferences/Seminars/Workshops

During the 1998/99 session the VBRP organised several seminars/workshops. These include:

1. One day open forum on Aquaculture/Shrimp culture at the Fisheries, Hydrobiology and Land-Use Research and Educational Centre at Alorkpome (Ada). Over 100 participants attended from the University of Ghana community, Volta River Authority staff and local residents. The VRA/VBRP new research boat was also officially launched. April 30, 1999.
2. One day workshop for 30 graduating management students and staff of the Ghana Institute of Management and Public Administration (GIMPA) at the Fisheries, Hydrobiology and Land-Use Research and Educational Centre, Alorkpome (Ada). June 25, 1999.
3. One day open forum on Sustainable Management of Amo Series (Vertic Cambisols) at Sokpoe (Tenve). In attendance were over 80 participants made up of agricultural students, agricultural extension officers, District Directors of Agriculture and local farmers, all from the North and the South Tongu Districts. July 8, 1999.

The VBRP Research Fellows also participated in many local and international conferences/workshops where scientific papers were presented, e.g.

- Amatekpor, J.K
- The 16th Annual General Meeting of the Soil Science Society of Ghana, CRIG, Tafo, 16-29 February, 1999. Paper presented: Pedological differences in a Cambisol in the Lower Volta Floodplain.
 - African GIS 99 Conference, International Conference Centre, Accra 21-24 June, 1999. Paper presented: Remote Sensing application for Land-Use/ Cover change studies in the Lower Volta Basin of Ghana.
 - UNEP/GEF International Workshop on Strategic Action Programme for the Integrated Management of the Volta Lake Watershed and Discharge Zone. Bay View Hotel, Accra, 20-24 September, 1999.
- Amoah, Cecilia
- The 20th African Health Sciences Congress, Legon, February, 1999. Paper presented: Bacterocidal and purification properties of *Moringa oleifera* LAM on drinking water from the Lower Volta River Basin.

- Gordon, C.
- 4th General Assembly of the International Society of Mangrove Ecosystems (ISME), Bali, Indonesia, September, 1998. Paper presented: Research and Monitoring in Mangrove Ecosystems.
 - 2nd Global Mangrove Database and Information System (GLOMIS) Workshop, Bali, Indonesia, September, 1999. Paper presented: Report on the GLOMIS Africa Region Programme.
 - World Bank/Ghana Coastal Wetlands Management Project Review, Accra, December, 1998. Paper presented: Research and Monitoring of Ghana Coastal Wetlands.
 - Global Environment Facility (UNEP) Scientific and Technical Advisory Panel Expert Group on Land Degradation and International Waters, Washington D.C., U. S.A. May, 1999. Discussion paper prepared: Land/Water Degradation and GEF International Waters.
 - International Workshop on Linkages between GEF/UNEP and Land Degradation, Bologna, Italy, June 1999. Chaired the Session on Land/Water Degradation and GEF International Waters.
 - UNEP/GEF International Workshop on Strategic Action Programme: for the Integrated Management of the Volta Lake Watershed and Discharge Zone, Accra, Ghana, Sept., 20-24, 1999. Principal Organizer of the Workshop & Workshop Report Writer.
 - UNEP Workshop on Freshwater Resources in Africa, Nairobi, Kenya, October, 1999.
 - 4th Land Ocean Interactions in the Coastal Zone Open Science Meeting, Bahía Blanca, Argentina, November, 1999.
 - Dr. Gordon also attended several meetings outside Ghana with external donors towards the establishment of a Regional Centre for African Wetlands at the University of Ghana.
- Darpaah, G. A.
- Workshop on Integrated Coastal Zone Management Capacity Needs Assessment and Environmental Education in Ghana. Coconut Grove Hotel, Elmina, Ghana, October 22-29, 1999.
 - One day workshop on Shrimp Culture at Fisheries, Hydrobiology and Land-Use Research and Educational Centre, Alorkpome (Ada), April 30, 1999. Principal Organiser of the Workshop.
- Annang, Ted
- 21st Biennial Conference of the Ghana Science Association, University of Ghana Legon, 8th-13th August, 1998. Paper presented: Chemical constituents of Fire Aquatic Macrophyte species from Weija Lake, Ghana.
- Extension work**
- Annang, Ted
- Continued to serve as Technical Advisor to the aquatic weed clearing and poverty alleviation projects in the North and South Tongu districts.
- Darpaah, G. A.
- Continued to offer extension services in brackishwater aquaculture development to the riparian communities, Azizakpe and Alorkpome, in the Lower Volta Basin.

- Amoah, Cecilia - Continued part-time teaching of an M.Sc. course on Water Quality and Environmental Impact Assessment at KNUST, Department of Civil Engineering, Kumasi.
- Gordon, Chris - Continued to serve on various International Boards and Committees, such as the Executive Council of the International Society of Mangrove Ecosystems; the Committee on African Reptiles and Amphibians, World Conservation Union (IUCN); Working Group on Freshwater Biodiversity, International Union for Biological Sciences (IUBS); and the Steering Committee on Limnology in Tropical Countries (SIL). He also served on the Editorial Board of the African Journal of Science and Technology (UNESCO); was Editor of the Occasional Paper Series of the *Societas Internationalis Limnologiae* (SIL); and Contributor to the Encyclopaedia of Life Support Systems (UNESCO).

Benefaction

The Volta River Authority (VRA) provided equipment and funds, totalling US\$211,506 for Phase II of the Lower Volta Environmental Impact Studies (LVEIS). The VRA will also release a further US\$183,000, for Phase III of the LVEIS during the 1999/2000 academic year. We are very grateful to the VRA for all this funding.

DEPARTMENT OF ZOOLOGY

Overview

The department continued to offer basic and applied training in Zoology at the undergraduate level, and postgraduate programmes in Parasitology and the Africa Regional Postgraduate Programme in Insect Science (ARPPIS).

Identification services for various departments of this university, the Ministry of Food and Agriculture (MOFA), private organizations and individuals continued. The department also collaborated with the Ghana Wildlife Department (GWD) and Ghana Wildlife Society (GWS) to undertake wildlife and environmental research projects.

An exhibition of research activities and various zoological specimens in the department was mounted on 21st June, 1999 as part of the Science Faculty's celebrations of the Golden Jubilee of the University of Ghana. Several students from selected senior secondary schools in Accra attended. The event was co-ordinated by Ms. Cobblah in consultation with the departmental representatives on the Faculty Golden Jubilee Planning Committee, Dr. D. K. Attuquayefio and Mr. F. Ansah. The department hosted a group of pupils from the Ridge Church School on a familiarization visit organized by the Kids N' Teens Travel and Tours Club on 21st June, 1999. The visitors were led by the Managing Director of Kids N' Teens, Mrs. Sarah

Bucknor, Dr. Attuquayefio and Ms. Cobblah showed the visitors round the department, lectured them on the diverse fauna of Ghana whose specimens were available in the museum, and answered questions posed by the pupils.

Dr. Broder Breckling from the University of Kiel in Germany, visited the department and delivered a seminar titled "Ecological Modeling in Theory and Practice" on August 25, 1999.

Staffing Position

One new senior member, Dr. E.O. Owusu, joined the teaching staff at the beginning of the year under review. Prof. Yaa Ntiamao Baidu proceeded on leave of absence while Dr. J. Kpikpi proceeded on sabbatical leave. On a sad note we lost our Chief Technician, Mr Gabriel. A. Titiati at the end of the year.

Courses/Student Numbers

The department mounted courses for all levels

Level	Student Numbers
100	303
200	269
300	46
400	57
M.Phil I (Parasitology)	3
M.Phil II (Parasitology)	3
M.Phil I (ARPPIS- Insect Science)	11
M.Phil II (ARPPIS- Insect Science)	8
Ph.D	6

Research Activities/Grants

- Wilson, D. - Continued research on integrated management of the Sweet potato weevil in Southern Ghana and biological control of aquatic weeds.
- Attuquayefio, D.K. - Research activities focussed on three main areas:
- Faunal surveys (herpetofauna and mammals) of selected localities in Ghana
- Long-term monitoring of the small mammal populations of the coastal wetlands of Ghana
- Research into the faunal diversity of coastal and inland wetlands of Ghana

Specific research conducted included:

- Inventory of the reptiles occurring in Princes Town and Aketekye (Ahanta West District of the Western Region of Ghana), commissioned by Ricerca e Cooperazione an Italian environmental NGO
- Long-term monitoring of the small mammal populations of Mum-Pomadze Ramsar site, Central region, Ghana. Commissioned by the Coastal Wetlands Management Project (CWMP) of the Ghana Wildlife Department.
- Studies on the rodent pests of oil palm (*Elaeis guineensis*) in the Eastern region of Ghana, in collaboration with the Oil Palm Research Institute (OPRI) of the Council for Scientific and Industrial Research, Kade.
- Investigation of the threats posed by the common toad (*Bufo regularis*) to exotic dogs in Ghana, in collaboration with the Animal Research Institute (ARI) of the CSIR.

- Owusu, Ebenezer O. - Integrated management of millet insect pests - Oviposition preference and reproductive behaviour of millet head miner, *Heliocheilus albipunctella* De Joannis (Lepidoptera: Noctuidae). In collaboration with Natural Resources Institute of the University of Greenwich, UK (Pest Management Department), and The International Crops Research Institute for the Semi-Arid Tropics, (ICRISAT)
- Mechanisms of insecticide resistance in cotton aphid, *Aphis gossypii* (Homoptera: Aphididae). In collaboration with Kochi University, Kochi-Japan
- Use of indigenous natural plant components to control insect pests of stored cereals. In collaboration with Toyota Foundation and Kochi University, Kochi-Japan

Conferences/Seminars/Workshops Attended

- Wilson, D. - International Workshop on Cowpea Processing & Utilization, Jan 25-29, Miklin Hotel, Accra. GSA - 21st Biennial Conference, August 8-13, Legon.
- Attuquayefio, D.K. - National Workshop (as a technical expert) on Important Bird Areas (IBA) in Ghana, organized by the Ghana Wildlife Society in conjunction with the Ghana Forestry Department, at the North Ridge Hotel, Accra, on 10th March, 1999
- Workshop (as departmental resource person) on Examination and Test Development Procedures, organized by the University of Ghana at the Basement, Great Hall, from 24th May to 3rd June, 1999
- Cobblah, Millicent Asaaba - 1998 : Resource person in a four day workshop in development of curriculum and training in I.P.M for vegetable farmers in Ghana under the F.A.O./U.N.D.P Poverty Reduction Programme (Agro skills Development Programme).
- 1998 : Resource person at an I.L.T.A. - PEDUNE Regional Training Project, TOT/FFS (Training of Trainers/Farmers Field Schools) Curriculum Implementation in I.P.M. for cowpea, at Tamale, Ghana.
- 1999 : Resource person, Scientific Data Management Training Programme in Terrestrial Fauna of RAMSAR sites in Ghana.
- 1997 : Contributed to the preparation of the Ghana Plant Quarantine Bill by the Plant Protection and Regulatory Services Department of the Ministry of Agriculture.
- 1998, December: Workshop on potato production in Ghana at Weija, Ghana.

Publications

- Attuquayefio, D.K. - Mzamo, K.B. & Bufo regularis: A potential threat to exotic dogs in Ghana. Ghana Journal of Agricultural Science (In press)
- Ryan, J. & D.K. Attuquayefio Mammal Communities of the Muni-Pomadze and Keta Ramsar Sites in Ghana. Biodiversity and Conservation. (In review)
- Raxworthy, C. & D.K. Attuquayefio, Herpetofaunal Communities at two Coastal Lagoon Sites in Ghana. Biodiversity and Conservation. (In review)
- Attuquayefio, D.K. & E.H. Owusu (1999) Princes Town and Aketekye Coastal Zone Restoration and Management Project: Avifaunal and Reptile Survey. Report to Ricerca e Cooperazione (RC). 25 pp.

- Cobblah, M.A. - (1999) Data sheet on Taxonomy, Nomenclature, Biology and Control of *Letocoris acuta* In: *The crop Protection Compendium on CD-ROM Global Module*. 10pp. Published by Commonwealth Agricultural Bureau International U.K.
- Gordon, I. & M.A. Cobblah, Report on Insects of the Muni-Pomadze and Keta Ramsar sites. In *Studies on Terrestrial fauna of Coastal RAMSAR sites in Ghana*. 1997(Eds.) Jim Ryan and Yaa Ntiamao-Baidu. 42pp.
- Gordon, C., Attuquayefio D., Cobblah, M.A. (1998). Mid-Project Report: Monitoring of the Ecological Character of coastal RAMSAR Sites in Ghana.
- Owusu, E. O. - (In press). Preliminary biochemical evidence of insecticide resistance development in Ghanaian populations of cotton aphid (Homoptera: Aphididae). *Ghana Journal of Science*
- Youn, O. and Owusu, E. O. (1998). Assessment of yield loss due to the millet head miner, *Heliocheilus albipunctella* (Lepidoptera: Noctuidae) using a damage rating scale and regression analysis in Niger. *International Journal of Pest Management*, 44, 119-121
- Youn, O. and Owusu, E. O. (1998). Farmers' perception of yield losses due to insect pests and methods for assessment in pearl millet. *International Journal of Pest Management*, 44, 123-125.
- Wilson, D.D. - Starr C.K., and S.J. Kays (In Review) - Behavioral catalogue of the sweet potato weevil.
Starr C.K., D. D. Wilson and S.J. Kays (In Review) - On the oviposition plug of the sweet potato weevil.

Benefactions

The department received financial and other donations from several sources as follows:

Donation of field equipment and chemicals (2-litres methylated spirit, large tarpaulin, 3 pieces of 5-gallon jerrycans, 3 buckets, dual-hob gas stove, and 18 UV moth traps with accessories) by an Oxford University expedition team to the department.

FACULTY OF SOCIAL STUDIES

Overview

The Faculty of Social Studies is made up of nine full-scale teaching Departments (Archaeology, Economics, Geography and Resource Development, History, Library and Archival Studies, Nursing, Political Science, Psychology and Sociology) as well as five Institutes and a School engaged mainly in research and extension work, with a modicum of teaching (Adult Education, African Studies, Legon Centre for International Affairs, ISSER, RIPS and the School of Communication Studies)

Prof. E. Ofori-Sarpong continued to serve as Dean of the Faculty and Mr. E.T. Osabutey as Assistant Registrar/Faculty Officer.

DEPARTMENT OF ARCHAEOLOGY

Overview

During the year under review, 1998/1999 there were 5 Senior Members at post. Between them they handled 20 Courses at the Undergraduate Level and 8 Courses at the Graduate Level. Student members for the period under review is as follows:

Undergraduate	Programme	Student No.
Level 100		146
Level 200		211
Level 300		59
Level 400		<u>34</u>
		<u>450</u>

Graduate Programme

MPhil	1
Ph.D	<u>1</u>
	<u>2</u>

Professor James Robert Anquandah (Post-Retirement contract Professor) continued with the Modular Course on "Historical Demography of Africa" at the Regional Institute for Population Studies (R.I.P.S.), Legon.

Research

- Anquandah, J.R. - Completed an Archaeological reconnaissance survey in Nzemaland and an excavation at the historic Dutch site at Ankobra Hill, Axim.
- Literature survey of Forts and Castles of Ghana. 1482 - 1800 AD.
- Crossland, L.B. - Continued with field research at the 'Golden House', Kokotako James Town, an early 19th century residence of Commandant John William Hansen.
- Bredwa-Mensah, Y. - Continued with Slavery and Danish Plantation archaeological research in Ghana.
- He also completed Archival research at the National Archives, Copenhagen, Denmark and at the Public Records Office, London during the 1st Semester.
- Gavua, K. - Conducted archaeological investigations
a. at the Katamansu Battlefield Site (1826) near Dodowa.
b. continued with research into Northern Ewe culture.
- Boachie-Ansah, J. - Excavated the site of Bonoso, Wenchi Traditional Area.

Publications

- Anquandah, J.R. - 1998 Komla-Bulsa - its art and archaeology. Rome Institute of African Studies.
- 1999 Castles and Forts of Ghana. Atlantic and Ghana Museums & Monuments Board, Accra
- Bredwa-Mensah, Y. - 1998 "Archaeology of Slavery in West Africa" Trans. Hist. Soc. of Ghana (New Series) Vol. 1 (2).
- Crossland, L.B. - John Decardi-Nelson, 1999 Genealogical Notes on the Kokotako Cato's and Allied Families. 144 pages, Legon.
- Boachie-Ansah, J. - "Preliminary Report on Excavations at Wodoku, East Legon, Accra, Ghana." West Africa Journal of Archaeology. 28(1), 1988, pp. 1-18.

Extension work

- Gavua, K. - Was elected as Vice-President of the University Teachers Association of Ghana, Legon Branch.
- Bredwa-Mensah, Y. - Continued as part-time lecturer, National Film Institute (NAFTI) Cantonments, Accra, Course - Cultural Studies.

DEPARTMENT OF ECONOMICS

Overview

The Department of Economics continued to offer Bachelors degree, M.Phil. Economics and Master of Arts in Economic Policy Management. The department continued to serve other departments taking Economics as part of their curriculum.

Courses taught

LEVEL 100

Introduction to Economics

LEVEL 200

Elements of Economics
Elements of Mathematics/Statistics for Economists
Economy of Ghana

LEVEL 300

Microeconomics
Macroeconomics
Economic Development and Growth
Applied Mathematics/Statistics for Economists

LEVEL 400

Economic Theory
Econometrics
Cost Benefit Analysis/Project Work
Industrial Economics
Public Finance
Labour Economics
Money and Banking
Economic Planning
International Economics
Agricultural Economics

M.PHIL. IN ECONOMICS

Microeconomic Theory
Macroeconomic Theory
Quantitative Methods
Introduction to Computer Applications
Money and Banking
International Economics
Environmental Economics
Public Finance

Staffing

Boakye-Yeboah

The staffing situation continues to be inadequate and this was worsened with the retirement of Mr. Kwasi Anyemedu.

Boakye-Kwame

Student Statistics

YEAR	1994/95	1995/96	1996/97	1997/98	1998/99
Level 100	89	-	84	89	114
Level 200	258	-	257	203	220
Level 300	200	-	154	235	153
Level 400	135	-	200	175	171
M.Phil. I	15	-	10	16	17
M.Phil. II	15	15	10	14	14
MA EPM	-	-	-	-	24

Servicing

The Department continues to service departments and Institutes of the University; viz: LECIA, School of Administration, Sociology, RIPS, Agricultural Economics, Institute of Adult Education.

AERC - Collaborative Masters Programme for Anglophone Africa (Excluding Nigeria)

During the year under review, the Department of Economics presented sixteen (16) M.Phil. students to undertake additional elective courses under The AERC Collaborative MA programme Joint Faculty for Electives (JFE) in Nairobi, Kenya. This three (3) months programme started on 29th of June 1999 to the 4th of October 1999.

Professor A. Baah-Nuakoh (Head of Department) continued to serve as the Vice-Chairman of the AERC Academic Board of the Collaborative Masters programme.

Research Activities and Publication

Laryea, Albert

"Pollution: What do Economists have to say?"

Paper presented at an intensive training programme on "Institutional Management and Care Systems". Organised by the International Centre for Enterprises and Sustainable Development on August 2 1999.

Antwi-Asare, T.O.	-	"Financial Sector Reforms and Bank Performance in Ghana"
Boakye-Yiadom, L.	-	Participated in a Course on "Economic Growth, Poverty Reduction & Social Protection: Theory, Evidence, and Implications for Sub-Saharan Africa" in Addis Ababa, June 1 - 11, 1999.
Boateng, Kwabia	-	"Institutional Determinants of Labour Market Performance in Ghana" in the Ghana Journal of Social Sciences, forthcoming.
	-	"Poverty in Ghana." African Economic Research Consortium. Research Paper. Jointly with Abena Oduro and Louis Boakye-Yiadom.
	-	"Quality Jobs or Mass Employment: A study of some Impacts of the structural Adjustment Programme" in Ghana Economic Outlook Volume 3, number 1, March 1998. Published by GIMPA.
	-	Presented a paper on "Impact of Globalisation on Labour in Africa". Sogakope, June 1999.
	-	Presented a paper on "Labour Activities and Socio-economic Development in Ghana" at the Labour Department Workshop for District Labour Officers, Accra, June 1999.
	-	Presented a paper on "Incomes and Employment in Ghana." at the UNDP Common Country Assessment Workshop, Accra. September 1999.
	-	Resource Person, Ministry of Employment/ USAID Workshop on Labour Laws in Ghana. Sogakope, May 1999.
	-	Resource Person, World Bank Country Assistance Strategy Ghana National Workshop, Accra August 1999
	-	Resource Person, World Bank Country Assistance Strategy Regional Workshop, Accra. November 1999.
	-	Resource Person, World Bank Country Assistance Strategy Regional Workshop, Ho. November 1999.
Baah-Nuakoh, A.	-	Studies on the Ghanaian Economy vol. 2. forthcoming.
	-	On the Industrial Sector - Selected papers of Amoah Baah-Nuakoh. forthcoming.

DEPARTMENT OF GEOGRAPHY AND RESOURCE DEVELOPMENT

Introduction

The Department of Geography and Resource Development continues to provide leadership and excellence in the major areas of physical, human and technical geography. Courses are offered at undergraduate and post-graduate levels in such areas as Climatology, Pedology, Population, Resources, Environment, Transportation, Tourism, Gender Studies, Historical Geography, Urban Studies and Regional Development. Senior Members in the Department also continue to be active in research and extension activities into these areas. In addition, the following projects administered by lecturers, have experienced good progress during the period under review:

(i)	PLEC	-	Appendix	A
(ii)	RSAU Operations	-	"	B
(iii)	RSAU – Teaching and Research	-	"	C
(iv)	FADEP	-	"	D
(v)	PIP	-	"	E
(vi)	NUFU Link Arrangements	-	"	F
(vii)	Ecological Laboratory	-	"	G

Staff Position

The Department has fifteen (15) Senior Members, four (4) Senior Staff and four (4) Junior Staff. Professor Jacob Sogsore's term as Head of Department ended on 31st August, 1999. He was succeeded by Professor Elizabeth Ardayfi-Schandorf with effect from 1st September, 1999.

Currently, Prof. J. Sogsore, Mr. T.W. Awadzi and Dr. A.B. Asiedu are on sabbatical leave.

Student Numbers by Category

1	Year 1 (Level 100)	-	105
2	Year 1 (Level 200)	-	107
3	Year 2 (Level 300)	-	133
4	Year 3 (Level 400)	-	161
5	Post-graduates :		
	i) M.Phil	-	37
	ii) Ph.D.	-	5
6	Police Administration	-	NIL

Conferences and Workshops Attended

Benneh, G. - North American Council on Education. Presented a paper at their Annual Conference in Washington on the 14-17th February, 1999. Paper presented:

Funding Higher Education in Africa: The Case of Ghana.

World Bank Retreat on Sustainable Land and Crop Management/Desertification,
Fairfax, Virginia U.S.A.. 23-24th September, 1999. Key note Speaker.

- Songsore, J.
- 20th African Health Sciences Congress, Accra, Ghana, 19-23 April, 1999.
 - Plenary Presentation titled "Urbanization and Health in Africa.
 - National Dissemination Workshop on the Field Trial of CEMIS in Ghana, Accra, Ghana, 22-23 June 1999. Presented the following:
 - i) CEMIS in La, Implementations, Impact and Problems
 - ii) Recommendations for the Replication of CEMIS in Ghana.
 - Annual Meeting of Kaleo Religious and Priests Association, Kaleo, Ghana, 3rd January, 1999. Presented paper titled. "The Challenges of Development in the Kaleo Parish".
- Addo, S.T.
- Council on International Education Exchange 51st Annual Conference in Boston, Massachusetts, U.S.A. November 13-15, 1998.
 - Technology Impact Assessment Workshop at Golden Tulip Hotel, Accra, Ghana, November 22nd-23rd, 1998.
 - International Transportation Conference, National Theatre, Accra, Ghana; 29th January, 1999. Presented paper on: "The Role of Telecommunication Systems in Transport Management in Ghana: Problems and Prospects".
 - Workshop for the establishment of a long-term cooperation strategy between African and European Universities at COTONOU, April 6-9, 1999.
- Ofori-Sarpong, E.
- Senior University Management Workshop in Abuja, Nigeria 17-25 July 1999. Organized by the Association of African Universities.
 - Coordinating local action to prevent and mitigate hazards associated with Small-Scale mining. A paper presented at National Disaster Management Organization (NADMO) one day Seminar at SSNIT Conference Hall, Koforidua, 19th August, 1999.
 - Climatic effects of deforestation in West Africa. Paper presented to Commemorate World Environment Day at UNDP Conference Hall, Accra, 3rd June, 1999
 - Chairman, National Youth Environment. forum on Environment our only legacy at the University of Ghana, 23rd April 1999.
- Gyasi, E.A.
- ILEIA-ACDEP-NGLWG Collaborative Research Programme: Final Research Workshop on '*Sustainable Agriculture in the Dryland Savanna Zone: Potentials and Possibilities*', Tamale, 27-30 September 1999.
 - 4th WAPLEC Regional Workshop on 'Participatory Approaches to Eco-Development and Agro-Biodiversity Conservation'. Pita, Republic of Guinea, 6-8 September, 1999.
 - UNU/PLEC Mission to Papua New Guinea to advise on development of PLEC demonstration sites, 1-10 August 1999.
 - Third Management Group Meeting of the United Nations University Project on 'People, Land Management and Environmental Change (UNU/PLEC)' and the Fourth Joint UNESCO-UNU-TWAS Programme on South-South Co-operation on Environmentally Sound Socio-Economic Development in the Humid Tropics. Mexico, 15-24 May 1999.
 - 1998 Ghana Institute of Public Relations (IPR) Anniversary Lecture, Accra, 27 October 1998. (Delivered the Lecture).

- Yankson, P.W.K.
- Participated in a Project formulation meeting on Health and Education policy Research in selected African Countries. It was organised by the centre for Africa Settlement Studies and Development (CASSAD) at Ibadan, Nigeria. October 26-28.
 - Participated in workshop on SADAOC Agricultural Production Project, held in Yamoussoukro, Cote D'Ivoire. November 15, 1998.
 - Attended AFRICA GIS '99 Conference and Expo. On the theme Emergent Africa. Geo information and globalisation" Accra, June 21-25, 1999.
 - Attended a conference by the International Association of University Presidents (IAUP), Africa Regional Council. Accra June 9-11, 1999.
- Awadzi, T.W.
- 6th General Annual Meeting of the Soil Science Society of Ghana. CRIG Tafo 16th-19th February, 1999
- Awumbila, Mariama
- Workshop on Young Child feeding Practices, May 22-30, 1999, Mombasa, Kenya.
 - Second General Assembly on Women in Law and Development in Africa (WILDAF), 26-31st July, 1979, Accra, Ghana.
 - GASAT 9th International Conference on Gender and Science and Technology, July 4-9th, 1999, Accra, Ghana.
 - International Association of University Presidents Africa Regional Council, June 9-11, 1999 Accra, Ghana.
- Agyei-Mensah, S.
- Geographical perspectives on HIV/AIDS in Uganda and Ghana: Paper presented at the HIV/AIDS in Africa symposium 14-17th July University of Illinois, Urbana-Champaign Quality Hotel U.S.A., 1999.
 - Maximizing our Natural Resource for the 21st Century: Geographical Planning as an answer to Africa's problems. Paper presented at the SOS-HERMANN Gemeiner International College – Humanities Day symposium 30th April 1999, Accra, Ghana.
- Research Activities**
- Benneh, G.
- Population Environment and Sustainable Development
- Songsore J.
- Urbanization and Health in Africa
 - Tenure, housing and Environmental Management
 - Citizens at Risk: From Urban Sanitation to Sustainable Cities
 - Environmental Health Atlas of Accra
- Addo, S.T.
- Investigating the potentials of telecommunications for energy savings in transportation in Ghana emphasizing the dynamics of substituting transport of persons for telecommunications in the Greater Accra Region (with Alexander Yao Segbefia, an M.Phil student). This is part of an on-going research in the area of Technology impact Assessment' being carried out by a team of experts from the University of Ghana, Legon and their counterparts from the Technical University of Copenhagen, Denmark.
 - Assessing the impact of road network modernisation on intra-city movement in Accra.

- Gyasi, E.A. - Research continued to focus on agricultural changes, rural development and environmental resources management, mainly under the United Nations University Project on 'People, Land Management and Environmental Change (UNU/PLEC).
- Ofori-Sarpong, E. - Climate Change and its impact on agriculture, food security and water resources in the Semi-arid, arid regions of Ghana (Upper East).
Mining and environment in Ghana.
- Yankson, P.W.K. - Decentralization and local government reforms in Ghana (on-going collaborative research with Prof. (Dr.) W.H. Thomi, University of Mannheim, Germany).
Civil society urban environmental management - the case of Accra.
- Awadzi, T.W. - The field experiment on the effect of salinity on yields in Anloga was continued
Soil water and nutrient movement in three selected soils in the moist semi-deciduous zone of Ghana.
Traditional farmers response to the natural Environment. A Scientific Analysis of the horticultural system of South-Eastern Ghana.
Magnetic particles in airborne dust on Mars and Earth.
- Asiedu, A. B. - Urban Housing,
Tourism and Recreation Research in various locations in Ghana
- Awumbila, Mariama - Gender and Resource management
Inter-disciplinary research on young child feeding practices
Integrated Coastal Lagoon Management
Population and Health
- Agyei-Mensah, S. - The Geography of HIV/AIDS in Ghana
Micro-Demographic studies on fertility in Sub-Saharan Africa During the 1990s
Reproductive Change in Southern Ghana
Infant Nutritional Patterns and Trends in Sub-Saharan Africa.

Publications

- Benneh, G. - What hope for a Second Africa?
People and the Planet, Vol. 8.No.1, 1999, IPPF ICNC SIDA/UNFPA, WWF, London pp. 12-14.
Regional Issues on Higher Education: The African Experience pp.135-145 in The Future of International Higher Education Directions and Opportunities, G.B. Freeman and G.A. Goerke Eds. Houston 1999.
- Songsore, J. - G. McGranahan, J. Songsore & M.Kjellen, Sustainability, Poverty and Urban Environmental Transitions", in David Satterthwaite (ed), The Earthscan Reader in Sustainable Cities (Earthscan, London, 1999) pp.107-130.

- "Urban Environment and Human Well-being: The Case of the Greater Accra Metropolitan Area, Ghana." Bulletin of the Ghana Geographical Association, No.21, 1998 (forthcoming).
- Addo, S.T.
 - "Statistical or Quantitative Techniques as a tool for Geographical Analysis: Exploratory Comments for Beginners": Bulletin of the Ghana Geographical Association (New Series) Vol. 1 No.20,1997, pp.10-17.
 - With Dr. Asiedu Alex, "Transportation and Other Problems Associated with Staple Foodcrops Distribution in Ghana"; Ghana Social Science Journal (New Series) Golden Jubilee Edition (1948-98) Vols. 1 & 2), 1998 (In print.)
- Ofori-Sarpong, E.
 - The disappearance of Ghana's forests: Causes and problems of rehabilitation. Bulletin of Ghana Geographical Association (forthcoming).
 - Climatic effects of deforestation in some parts of West Africa. Legon Journal of the Humanities (forthcoming).
 - Rainfall over Accra 1901-1990. Research Review (Forthcoming).
 - Drought and Sokoto State Farmer. Legon Journal of Social Science (forthcoming).
- Gyasi, E. A.
 - Editor. Report of the Third WAPLEC Regional Workshop on 'Conserving Agricultural and Biological Diversity for Food Security: Participatory Approaches in West Africa (Sub-theme: Building Upon Traditional Agro-Technologies and Management Systems for Biodiversity Conservation)', Legon, April 1999.
 - Editor. Report of a Workshop on 'Five Years of PLEC Experiences in Field Methodologies of Conserving Agricultural and Biological Diversity in Ghana', Friends of the Earth, forthcoming.
 - Author, 'Land Management and Conservation in Ghana,' Friends of the Earth, forthcoming.
 - Co-editor, 'Mapping of settlements in an evolving PLEC demonstration site in northern Ghana: An example in collaborative and participatory work. PLEC News and Views, forthcoming.
- Yankson, P.W.K.
 - With K.V.Gough "The environmental impact of rapid urbanization in Peri-Urban area of Accra, Ghana Danish Journal of Geography, Vol. 99, 1999.
 - "Health and Environmental impact of informal production and services economic units in Accra, Ghana" (forthcoming, Bulletin of Ghana Geographical Association Special Edition).
 - With K.V. Gough, "The role of Civil Society in urban management in Accra" (forthcoming as a Chapter in Association
- Awadzi, T.W.
 - Awadzi et al
Some Problems and Potential Uses of A Dredged Area in the Offin River Basin Bulletin of the Ghana Geographical Association.
- Asiedu, A.B.
 - (1998): Determinants of Home-ownerships in Kumasi. (Ghana), Danish Journal of Geography, Vol., 99 (forthcoming)
 - (1998): The Environmental Health Safety factor in International Tourism Promotion in Ghana – Evidence from University Exchange Students. Bulletin of the Ghana Geographical Association, No.21 (forthcoming).
 - Addo S.T. and Asiedu, A. B. (1998): Transportation Problems Associated with Staple Food Crop Distribution in Ghana. Ghana Social Science Journal (New Series) Golden Jubilee Edition (1948-1998) Vols. 1 and 2 forthcoming).

- Awumbila, M.
- With Porter, G, Young E and Dzieter, A (1999) – “Participatory and Inter-disciplinary Research in Practice: a case study from Coastal Ghana”. In Blench, Roger(ed) – Natural Resource Management in Ghana and its socio-economic context. Overseas Dev. Institute, London.
 - With Nang-beifbah, A and Abugri, J. (1999). Promoting Exclusive breastfeeding of Children in the Bawku East District. Research Report submitted to SOMANET, Kenya.
- Agyei-Mensah, S.
- (199). Fertility decline in developing countries, 1960-1997. An annotated Bibliography. Greenwood Publishing Press, Westport U.S.A 140 pages.
 - (1999). Risk Factors for infant Mortality in a Fishing and A farming community in Ghana (Forthcoming). Bulletin of the Ghana Geographical Association No.21.

APPENDIX A

UNITED NATIONS UNIVERSITY PROJECT ON PEOPLE, LAND MANAGEMENT AND ENVIRONMENTAL CHANGE (UNUP/PLEC):

PLEC RESEARCH IN WEST AFRICA

The Department of Geography and Resource Development, University of Ghana, continued to serve as the administrative centre of the United Nations University (UNU) Project on People, Land Management and Environmental Change (UNU/PLEC).

By national and international networking, PLEC brings together the guided work of six regional ‘cluster’ of scientists, including the West African one (WAPLEC), for action-oriented policy-relevant research on small-farmer management of biodiversity in the tropics. The basic aim is conservation of agrobiodiversity for the purpose of achieving world food security while protecting global diversity of plants, landraces and systems of managing them.

In 1998/99, WAPLEC work focussed on sites in Ghana and the Republic of Guinea. It was basically applied in character, and funded by the Global Environmental Facility (GEF) through UNU and UNEP. Seven agro-biodiversity demonstration sites had reached various stages of development under management of farmers and multidisciplinary teams of scientists through a participatory approach.

Activities carried out in the demonstration sites included:

- Promotion of tree conservation, in situ, on farms, and of nurseries of rare exotic and endemic plants.
- Promotion of woodlots and other forms of tree planting;
- protection of relict forests and nature areas through buffer zones;
- stone lining and grass bunding to check soil erosion;
- measures to enhance home gardens as germ-plasm bank and source of food;
- promotion of snail farming, mushroom raising, bee-keeping, and other non-traditional income-generating activities; and,

- joint meetings of farmers, scientists and other stakeholders.
 - Among the remaining activities were the following:
 - A workshop hosted by WAPLEC-Ghana on 'Five Years of PLEC Experiences in Field Methodologies of Conserving Agricultural and Biological Diversity in Ghana; and.
 - The 4th WAPLEC Regional Workshop on 'Participatory Approaches to Eco-Development and Agro-Biodiversity Conservation" which was hosted by WAPLEC-Guinea.
- The delivery of a vehicle, computers and other equipment through the GEF-funding was a major boost to Project activities. Forward plans call for expansion and intensified development of the demonstration sites, with special emphasis on non-traditional income-generating activities, consolidation of links with various environmental stakeholders, and greater exchange of visits among the PLEC group of farmers and scientists.

APPENDIX B

(REMOTE SENSING APPLICATIONS UNIT (RSAU): OPERATIONS

Institutional Development

The year 1999 has been a year of transition and re-orientation for the RSAU. The Unit has had to move from the project status to an institutional status after the successful completion of the Land Use and Land Cover mapping component of the GERM project in 1998. The transition has involved the implementation of the business and sustainability plan approved by the Advisory Board in 1997 including an institutional structure for the Unit.

The University of Ghana and the EPA, guarantors of the RSAU, established an eleven-member Management Board as a Company limited by guarantee, on the 8th of October 1998. The Unit is yet to be registered as a company limited by guarantee under the name of Centre for Remote Sensing and Geographic Information Systems Services (CERSGIS).

Appointment of Executive Director

During the year the Management interviewed and appointed an Executive Director for the Unit. The Director, Dr. E. Anamoo-Otchere, will assume duty on 1st December, 1999.

Operations

It was expected that the Natural Resources Management Project (NRMP) under which the Unit will be contracted to update the land use/land cover map of Ghana and package the five GERMP data sets for the ten regions in Ghana would begin in February. Although the project has been launched the RSAU is still waiting to sign a contract with the EPA, the co-ordinating agency for the Environmental Management component of the NRMP.

Activities have therefore involved

The completion of unfinished work from 1998.

- The execution of new contracts including the development of the Prototype Biodiversity Management Information System for the Ministry of Environment, Science and Technology.
- Packaging of GERMP data with added value for clients.
- General and customised training in GIS/Remote Sensing for individual and groups including the Ministry of Health and the Department of Community Water and Sanitation.
- Promotional activities including the preparation and presentation of project demos as basis for discussion with decision makers and other potential clients.
- The development of a Web site on the Internet.
- Research support for individuals and institutions including the Medicinal Plant Conservation Project of the WCMC and the Botanic Gardens International.
- A contract is soon to be signed with the EPA for the execution of the NRMP projects.

Workshops and Conferences

Two members of staff attended conferences and Workshops as follows:

- (1) Mr. Steve Duadze, Application Specialist: "Sustainable Water Use under Changing land use/land cover, rainfall reliability and Water Demand" in Bonn, Germany, 2-3 September, 1999.
- (2) Mr Benjamin Akuetteh, Application Specialist attended two Workshops:
 - EIS Best practices, 9-11 September, 1999. Nairobi
 - EIS Education and Training 6-8 September, 1999. Nairobi

Y2K Compliance

An approach was made to the Danish Embassy in Ghana to assist RSAU to solve the Y2K compliance problems after a visit by the Team from the Finance Committee of the Danish parliament. An amount of \$29,000 was granted. We have taken the opportunity not only to solve the Y2K problems completely but also to upgrade the equipment.

Staff

Present staff is 15 made up of technical, administrative and support personnel. The staff of the Unit were all appointed on a year's contract subject to renewal at the end of 31st December 1999. The Systems Administrator, Mr. Geoffrey Asiedu has resigned from his position as from the end of October, 1999. Dr. G. T. Agyepong finally retired from the service of the University and as the Director of Operations at RSAU. Mr J. Annor is expected back from studies at the University of Cambridge.

Conclusion

RSAU has made significant progress as a self-sustaining institution for spatial information service delivery during the transition period. A good amount of business promotion has been undertaken and there is increased awareness among several departments, institutions, donor agencies and NGOs of the capacity we have developed. Considerable thought has already gone and will continue to go into the need and process for the integration of the Project Operations and the Research/Teaching functions of the RSAU (CERSGIS).

APPENDIX C

ACTIVITIES OF THE REMOTE SENSING APPLICATION UNIT (RSAU): TEACHING AND RESEARCH LABORATORY

ACTIVITIES OF THE TEACHING AND RESEARCH LABORATORY OF THE REMOTE SENSING APPLICATIONS UNIT (RSAU) 1998/999

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

During the year under review two courses in Remote Sensing and G.I.S. were taught in the department using facilities in the laboratory. The undergraduate course on the introduction to remote sensing and geographic information systems (GEOG 307) was taught 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 service.

Funding

The teaching and research laboratory has 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. In August 1998 the equipment in the laboratory were serviced and the software upgraded. One image processing computer was added to the stock of computers in the laboratory. The second phase of the project has expired (ie.1-1-96 to 31-12-98). Unfortunately, after 1998 there will be a three years of winding up (i.e. 1999-2001) during which there would be support for only the Ph.D and M.Phil students who have registered before the end of 1998. So after 2001 DANIDA funding will cease.

Research

The major research activities carried out in the laboratory were by graduate students working on their M.Phil and Ph.D theses. Find below the progress made so far in that area. 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 is almost through with the first draft of the thesis.

- Kakane, V.C.K. - Cold cloud temperature estimation and crop monitoring (Ph.D) Dept. of Physics. Mr. Kakane's thesis has been examined and the oral defence has been fixed for early November. 1999.
- Banoeng-Yakubo, Bruce K. - Application of remote sensing techniques infrastructure trace analysis for groundwater exploration in Ghana (Ph.D). Department of Geology. He has completed his field work in the Upper West region of Ghana. but has transferred to a new project based in the Department of Geology.
- Alhassan, Osman - Land Use changes and its implications on woodfuel availability in parts of the Densu Basin in Ghana. (Ph.D). Department of Geography and Resource Development. Mr. Osman Alhassan has submitted a draft of his thesis to his supervisors and he is now finalising it for submission.
- Kofie, Richard - A GIS studies 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 has produced a draft of his thesis which he is finalising for submission.

New Theses Research

The following started their research projects during the 1997/98 session and they are using the facilities of the laboratory:

- Attua, E.M. - Agricultural land use and cover change inputs on carbon cycling and sequestration (Ph.D Dept. of Botany). Mr. Attua has already completed the first phase of the field work.
- Allotey, Albert - An evaluation of the agricultural resources within Akwapim South District. A remote sensing and GIS approach (M.Phil), Dept. of Geography and Resource Development. Mr. Allotey has almost completed a draft of his M.Phil thesis.
- Oppong, Paul - Urban mobility and accessibility: The case of Accra, Ghana (M.Phil). He is working on a draft of his thesis.
Mr. Opoku Pabi (Ph.D.) - Proposal stage.
Mr. M.K. Nkrumah (Ph.D) – proposal stage.

Other research

Funding is yet to be sought for and work started on the proposed Densu Basin Integrated Research Project as RSAL on-going project. This is a project whose central aim is to build a G.I.S. data base for the Densu Basin and to be used for monitoring and modeling environmental processes and changes and for monitoring and assessing environmental resources for the planning of sustainable development within the basin. Already quite a number of the M.Phil and Ph.D research projects are focused on the Densu Basin under supervision of staff at Legon and Copenhagen. The department of Physical Geography, University of Lund in Sweden has expressed an interest in collaborating with RSAL on this project. Some field reconnaissance surveys have already been carried out jointly with them.

Two staff members and two research students attached to RSAU participated in AFRICA GIS'99 conference and Expo. held in Accra from June 21-25 1999 under the theme "Emergent Africa – Geo-information and globalisation" These presentations were - made by them. They were.

- Antogbe, S.K. - "A mark or Chain analysis of land use and environmental change in the Afram plains of Ghana"
- Antogbe, R.Y. - "Monitoring buruli ulcer diseases in the Ga district of Ghana"
- Allotey A and Dieye, A. - "Early warning of selected emerging environmental issues in Africa".

APPENDIX D

Introduction

The Family and Development Programme (FADEP)

The Family and Development Programme was developed as a project of capacity building, training, research, policy analysis and dissemination with the support of UNFPA. It is managed by the Department of Geography and Resource Development. In the implementation of the programme, the focus has been on women, though men and children in family relationships are important as well.

Publications

Under the year in review, the following publications continue to be made available to the university community, (Lecturers, researchers and students) and governmental institutions, development agents and consultants outside the university.

- The Changing Family in Ghana
- Family and Development in Ghana
- The Child within the Ghanaian Family: A Legal Perspective
- Gender Roles in Household Allocation of Resources and Decision-Making in Ghana
- Reproductive Decision-Making within the Ghanaian Family
- Family Dynamic and Residential Arrangement in Ghana
- Family Law and Customary Practices for Child Maintenance and Inheritance in Ghana
- The Impact of PAMSCAD on the Family: A Case Study of ENOWID Intervention in the Western Region of Ghana
- Adolescent Fertility and Reproductive Behaviour in Ghana, and
- Women's Access to Land in the Household: A Case Study of Three Selected Districts.

The FADEP Resource Centre

The Resource Centre, developed by the project on women, adolescents, children and the family, continues to enjoy wide patronage. It harbours academic journals, bulletins and books on women, family and development issues. For the 1998/

99 academic year 163 researchers and visitors consulted and made use of the resources of the Centre.

Other Activities

In collaboration with the School of Public Health, FADEP organized symposia on Violence Against Women to sensitize university students and students in the second cycle schools. The symposia took place in the University of Ghana and University of Cape Coast respectively.

In addition, FADEP collaborates with the United Nations University Institute of natural Resources in Africa on its programme on Women in Natural Resources Management in Africa.

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. The Futures Group International of Washington D.C., through the United States Agency for International Development (USAID) and the Government of Ghana provide funds for the operation of the project. The focus of the project is on Population, Resources, Environment and Development. However, in line with the Action Plan of the International Conference on Population and Development (ICPD) which was held in Cairo in 1994, special focus has been given to issues of Reproductive Health and Sexually Transmitted diseases and HIV/AIDS. PIP continues to make available relevant information on population and development interrelationships to the public, particularly policy makers, opinion leaders, and pressmen in the form of RAPID presentations using audio-visual equipment and a computer.

Seminars and Workshops

In conformity with its objective, PIP organised a number of population-related seminars and workshops. The key seminars organised were:

1. Presentation on Strengthening the Implementation of Reproductive Health (RH) Services: Role of Church Leaders. This presentation was held on January 14, 1999 at Aburi in the Eastern Region. This was held for a 20 member Ghana Pentecostal Council Steering Committee. This is a distinct body made-up of members of all Pentecostal Churches including the Church of Pentecost.
2. Sensitisation Seminar on Population, Health and Development in Ghana. This presentation was held on January 27, 1999 at the Department of Community Health, Ghana Medical School, Korle-bu, in Accra. The aim of the presentation was to expose the students to the likely impacts a rapidly growing population will have on the health sector. The participants comprised 80 medical students doing clinical courses at the University of Ghana Medical School, UGMS – Korle-Bu. This presentation is one in an annual series of collaborative efforts between the Department of Community Health, UGMS and PIP wherein the latter would take the students through a presentation during the Department's annual Junior Clerkship programme.

3. **Presentation on Population and Development.** This presentation was held on January 27, 1999 at the Church of Pentecost Bible Training School, Sowutuom, in Accra. The venue was the Church of Pentecost Bible Training School. A total of 46 New Entrants—Pastors in Training attended the presentation. Through the UNFPA supported 3rd Country Programme, Religious Bodies are being supported to implement certain components of the country's population programme. The Church of Pentecost is one such religious institution that has adopted the training of its new pastors in the area of population education including RH/HIV/AIDS and development issues.

4. **Seminar on Population Growth, Environment and Health.** This Seminar was held on March 9, 1999 at the School of Public Health, Legon. Prof. John S. Nabilla, Project Director of PIP, led the presentation. As in the case of the Department of Community Health, this is another out-reach and collaborative effort between PIP and the School of Public Health of the University of Ghana, Legon. The participants were 25 Masters in Public Health students, their Director and some lecturers.

5. **Sensitisation/Dissemination Seminar on the Role of the Press in Advocating for the Incorporation of Population Variables into Development Planning.** The Population Impact Project in collaboration with the Ghana Journalists Association (GJA) organised a two day Press Seminar for Journalists from both the Print and Electronic Media from the Central and Western Regions during April 22-23, 1999. This Seminar was held at the Busua Beach Resort, near Takoradi in the Western Region of Ghana. The objectives of organising the seminar were two fold:

- to stimulate discussion on the theme chosen by providing a platform for the journalists to express their views on how to direct advocacy efforts aimed at ensuring the realisation of the objective of integrating population variables in development planning as stipulated in 1994 Revised Population Policy.
- to solicit the views of the Media on the implementation of population activities in the country generally.

6. **Presentation on Population and Development in Ghana.** This presentation was held on 30th April, 1999 at the Ghana Armed Forces Command and Staff College (GAFCSC), Out Barracks in Teshie. This was a collaborative activity with the National Population Council Secretariat and the Commandant of the Armed Forces Command and Staff College. The College has now institutionalized a course in Population and Development for students of the college. PIP therefore makes regular presentations at these courses. This seminar was for "Course 21" participants.

Sensitisation/Dissemination seminar organized by PIP and the Planned Parenthood Association of Ghana (PPAG). It was held on June 15, 1999 at the Afienua Youth Centre, Afienua, in the Dangbe West District. The purpose of the seminar was to sensitize assembly members, community-based distributors and supervisors, opinion leaders, religious leaders and Non Formal Literacy Facilitators on Population and Reproductive Health issues.

8. **Sensitisation/Dissemination seminar on Sustaining Adolescent Reproductive Health Programmes in the Akuapem North District of the Eastern Region of Ghana.** The seminar was held on June 30, 1999 in order to sensitize policy and decision makers, including the district chief executive, assembly members from the district, the district co-ordinating director, religious leaders, selected heads of second cycle institutions and some NGOs on sustaining Adolescent Reproductive Health programmes in the district.

9. **Seminar on Adolescent Reproductive Health.** This was a joint NGO seminar organized by PIP and the Reproductive Health Advocacy Network of the Suhum/Kraboa/Coaltar District. It was held on August, 17 1999 at the Assembly Hall of the Suhum/Kraboa/Coaltar District. The purpose of the seminar was to sensitise the Executive Committee members and some selected heads of the decentralised departments of the Suhum/Kraboa/Coaltar District Assembly on Population Development and Reproductive Health issues as well as HIV/AIDS. A total of 39 participants attended the seminar.

10. **Seminar on Population, Development and Reproductive Health Issues in the Kwaebibirem District of the Eastern Region.** This was a collaborative seminar that PIP held with the Kwaebibirem Reproductive Health Advocacy Network and the Kwaebibirem District Assembly in the Eastern Region of Ghana. The seminar was held in order to sensitize policy and decision makers, including the district chief executive, assembly members from the district, the district co-ordinating director, religious leaders, selected heads of second cycle institutions, chiefs/queenmothers and some NGOs on Population, development and Reproductive Health issues in the district. The seminar at Kade was a one-day event and was held on the 7th September 1999. It was held at the Assembly Hall of the Kwabibirem District Assembly and a total of 90 participants, were in attendance at the seminar.

Extension

PIP staff continue to serve on the Technical Advisory committee 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. PIP is currently coordinating the University of Ghana component of the Pop/FLE Project activities for Tertiary Institutions in Ghana.

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.

Visitors

Mr. Ed Abel of the POLICY Project, Washington D.C., and Dr. Benedicta Ababio of the POLICY Project, Accra visited PIP on March 17, 1999 to confer with the Management Team on the Project's programme of work for 1999.

Mr Edward Abel, of the POLICY Project, The Futures Group International, Washington D.C., paid a working visit to PIP on June 3, 1999.

Mr Scot Moreland of the POLICY Project paid a working visit to PIP on July 14, 1999 and held discussions with PIP Management Team, regarding the Project work related to the AIDS Impact Model (AIM) dissemination activities.

APPENDIX F

NUFU LINK ARRANGEMENTS:

TRONDHEIM-UNIVERSITY OF GHANA COLLABORATION PROGRAMME IN GEOGRAPHY 1996-2000

The NUFU Link Arrangement is a programme of co-operation between the Geography Departments of the University of Ghana (UG), University of Cape Coast (UCC), and the Norwegian University of Science and Technology (NTNU) Trondheim with funding from the Norwegian Council of Universities Committee for Development Research and Education (NUFU). The main purpose of the program is to enhance the quality and effectiveness of graduate studies as well as the general research environment in the two Ghanaian departments. This is being pursued through a sandwich model of cooperation, with one semester's visit to Trondheim of M.Phil and P.h.D students from UG and UCC. The program in Trondheim includes computer training, the use of library search programs, the writing of literature reviews for the thesis under local supervision, regular graduate courses with examinations and an introduction to aspects of Norwegian society and geography. A post-doctoral program has also been established, with resources to cover a few weeks visit to Trondheim of one faculty member per year. As a framework for the cooperation, a research project, entitled Population, Environment and Human Development has been set up.

During the period under review, the program has achieved a number of accomplishments. In terms of capacity building, the geography department at Legon obtained two overhead projectors from the program to enhance teaching and research. A special issue of the Bulletin of the Ghana Geographical Association devoted to the theme of the collaboration, Population, Environment and Human Development is currently in press and contains articles from the Norwegian as well as Ghanaian counterparts. With regards to staff and student exchange, one doctoral student, Mr. Richard Kofie is currently in Trondheim for a period of three months for research in connection with his PhD thesis. Prof J. Songso is expected to visit Trondheim as part of the staff exchange later in the year.

In terms of research, the collaboration has served as the basis for the accomplishment of a number of research publications. Dr. Albert Abane of the University of Cape Coast has completed a research collaboration with Stig Jorgensen on traffic accidents in Accra and Trondheim. The work is scheduled to be published in the Bulletin of the Ghana Geographical Association, Vol. 2. Samuel Agyei-Mensah has also published a book on " *Fertility Decline in Developing Countries, 1960-1997, An Annotated Bibliography* (Greenwood Press USA 1999). Three doctoral students who are beneficiaries of the program are currently at the finishing stages of their dissertations. They are Daniel Buor, Osman Alhassan and Richard Kofie. Mr. William Frimpong Bonsu, a beneficiary of the programme has completed his masters thesis and submitted it for assessment.

Through the collaboration agreement, an excursion for some Norwegian students was undertaken in Ghana in the period 15-26th February 1999. The theme of the field course was Energy, Environment and Human Development which partly overlaps with the topic of the NUFU program. As part of the excursion, the students were given lectures by Profs Nabila, Songso and Ardayio Schandorf. The field excursion took them to Accra, Cape Coast, Koforidua and Senya Bereku. They were assisted by Mr. Osman Alhassan, a PhD student of the department and Dr. Samuel Agyei-Mensah.

The Link arrangement underwent an evaluation during the last semester. The report acknowledged the fact that most of the goals of the programme have been achieved especially in the areas of publication, staff development, and research and documentation. It recommended that the project should be continued after the current term in order to fully consolidate its considerable achievements.

APPENDIX G

REPORT ON THE ECOLOGICAL LABORATORY (1998/99)

The non-availability of some vital laboratory equipment has been a major drawback in the graduate training programmes of the Faculties of Science, Agriculture and Social Sciences of the University of Ghana. In response to a request from the University of Ghana, DANIDA in 1993 established the Ecological Laboratory at Legon to facilitate graduate research and to serve as a collaborative project between various Departments of the University of Ghana and the University of Copenhagen in Denmark. The laboratory has since continued to receive various forms of assistance, but notably, modern laboratory instruments and chemicals required by graduate students of the University of Ghana to facilitate the successful execution of their research projects. Besides, small sums of money, where necessary, have been offered as grants to help needy students with their field research projects. Other benefits have included short-term overseas training grants for Senior Members, Technicians and graduate students, some useful exchange of Senior Members between the Universities of Ghana and Copenhagen, and joint supervision of graduate students.

Prof. S.K.A. Danso and Mr. T.W. Awadzi have continued in their respective positions as Acting Director and Deputy Director, respectively. In 1998/99, more equipment and chemicals for agriculture, environmental studies and

biotechnology were received from DANIDA, through the project, with additional grants coming from the International Atomic Energy Agency in Vienna, among others. Currently, 12 Ph.D. and 24 M.Phil. students are actively using the laboratory. These are from three Faculties of the University of Ghana, Agriculture, Science and Social Studies, from the University of Cape Coast, and the Kwame Nkrumah University of Science and Technology, Kumasi. During the 1998/99 academic year, 8 M.Phil. students who used the ECOLAB facilities for their research submitted their theses which have either passed or are yet to be passed. The thesis of a Ph.D. candidate is also being evaluated for the award of a doctorate degree. Among the non-degree awarding institutes whose scientists have used/received assistance from the ECOLAB are, the Ghana Atomic Energy Commission (GAEC) at Kwabena, the Food Research Institute (FRI) at Accra and the Soil Research Institute (SRI) at Kumasi. Many of the projects concerned have been of the collaborative type, and have thus involved the active participation of staff of the ECOLAB.

University of Ghana staff who during the year travelled to Copenhagen on ECOLAB project-related matters are, Prof. S.K.A. Danso, Mr. T.W. Awadzi and Mr. M. Sarquah. Three Ph.D. students, Messrs. Yaw Bredwa-Mensah (Archaeology), Enoch Boateng (SRI) and J.K. Adomako (Botany Department) conducted part of their research at the University of Copenhagen in 1999. On the Danish side, Professors Henrik Breuning-Madsen, John Anderson and O. Borggaard paid visits to Ghana to work with their Ghanaian counterparts. Mr. Erik Butz, a technician, was in Ghana for one week to instal a C-S Automatic analyser and to instruct our technicians on its use and maintenance.

During the 1998/99 academic year, DANIDA sent a two-member review team, Prof. Hans Burcharts and Dr. Kirsten Selsmark to evaluate the performance of the ECOLAB to date. A favourable report was received. In addition, the ECOLAB was honoured by a visit from the DANIDA Director of Development Research, Dr. Klaus Winkel.

The core ECOLAB research themes continued to be on: (i) the Benchmark Soils, a project that is investigating Soil Nutrient Dynamics, and the movement of ions through the soil profile on a catena in the moist semi-deciduous forest of Ghana, (ii) a project on the use of biological measures, especially, biological nitrogen fixation for replenishing soil nutrients and (iii) a project on salinity and other environmental effects on shallot growth at Anloga. Each of these projects is co-ordinated from Ghana by a staff of the University of Ghana, but with counterparts at the University of Copenhagen.

In addition to the supply of various types of instruments for the laboratory, DANIDA provided money for the just completed physical extension of the existing laboratory. Greater intake of students and more room for equipment are anticipated as a result of this expansion. An Editor-in-Chief has been appointed for the ECOLAB journal, the West African Journal of Applied Ecology, and the first issue is expected by the end of 1999.

The ECOLAB organized a one-day Workshop on Nutrient Dynamics in Soil and the Environment on December 14, 1998. This was attended by 35 participants comprising lecturers and students from Legon and the University of Cape Coast.

Publications

- Danso, S.K.A. - (1999). Nuclear Techniques for Poverty Alleviation. Final Report OAU Third Seminar on Africa's Role in Nuclear Science and Technology for Peace and Development 28-29 April, 1999, Cairo, Egypt.
- (1999). Guidelines for measuring nitrogen fixation using the N-15 Isotope Dilution technique in small-holder on-farm biofertilizer demonstrations. International Atomic Energy Agency (IAEA) Technical Document, Vienna.

DEPARTMENT OF HISTORY

Staff

The Department of History is supposed to have an establishment of 14. There were only three (3) permanent staff. Two (2) retirees on contract and one (1) Part-time lecturer.

Student numbers

Level 100:	150
Level 200:	240
Level 300:	100
Level 400:	45
Level 600:	1
Ph.D	—
Total:	<u>536</u>

The Department also offered a compulsory Course for over 3001 LEVEL 200 Biological Science students during the 1st Semester.

Courses

First Semester

Hist. 101: Earliest Civilizations

Level 200

Hist. 201: Historiography

" 203: Africa and the Wider World in the 19th Century

" 204: A History of Western Medicine in Ghana

Level 300

Hist. 301: History of Ghana up to 1800

303: History of Africa up to 1500

305: The Black Diaspora

" 307: Economic History of West Africa, 1700-1890

" 313: Women in History

Level 400

Hist. 401: Aspects of Intellectual History

413: History of Modern Russia and U.S.A., 1700-1860

" 417: Aspects of World History, 1914-1945

" 491: Fante States in the 17th c

Level 600

Hist. 601: Philosophy of History up to the Enlightenment

- " 603: Politics in Akyem Abuakwa c. 1874-c. 1930
- " 605: Methodology of Oral Tradition

Second Semester

Level 100

Hist. 102: Selected Topics in World History

Level 200

Hist. 202: Historical Methodology

- " 204: Africa in International Setting in the 20th c.

Level 300

Hist. 302: Ghana in the 19th and 20th Century

- " 308: History of Africa, 1500-1800
- " 309: History of Europe, 1789-1945
- " 312: Economic History of West Africa, 1890-1960
- " 314: The History of Western Medicine in Ghana

Level 400

Hist. 400: Long Essay

- " 402: Modern Trends in Intellectual History
- " 411: History of Modern Russia and the U.S.A. 1860-1930
- " 418: Aspects of World History since 1945
- " 492: Fante States in the 18th Century

Level 600

Hist. 602: Philosophy of History from the Enlightenment to the Present

- " 604: Economic and Change in Akyem Abuakwa. 1874-1930
- " 606: Methodology of Oral Tradition: Techniques and Problems of Field Research

Research

The Department of History and the Institute of African Studies, Legon in co-operation with the History Department of the University of Trondheim, Norway continued with their Research Project on "The Asafo Companies in Ghana."

Individual research in the Department focused on:

- | | | |
|-----------------|---|--|
| Fynn, J.K. | - | |
| Addo-Fening, R. | - | Continued research on the History of Akyem Abuakwa |
| Perbi, Akosua | - | Indigenous Slavery in Ghana |
| Brukum, N.J.K. | - | Socio-Economic Development of Northern Ghana under British Colonial Rule |
| Baku, D.E.K. | - | |

Publications

- | | | |
|-----------------|---|--|
| Addo-Fening, R. | - | "The Akyem Abuakwa Asafo 1700-1918". <u>Transitions of the Historical Society of Ghana</u> , New Series, Nos. 2, 1998. |
|-----------------|---|--|

- "Otori Atta, Mate Kofe and Jurisdiction over the Krobo Plantations" in Transactions of the Historical Society of Ghana, New Series, No. 3, 1999 (in Press).

Brokum, N.J.K.

- Chiefs, Colonial Policy and Politics in Northern Ghana, 1897-1956 Transactions of the Historical Society of Ghana, New Series, No. 3, 1999 (in press).

Conferences/Seminars/Workshops

Perbi, Akosua

- "Researching the Historical Background of Cultural Issues". Paper presented at workshop at the Akrofi-Christaller Memorial Institute, Akropong, Ghana on 16th November 1998.

- UNESCO ASP Conference on the Slave Trade, France, 28th-30th January 1999. "How the Slave Trade is taught in Ghana." Paper presented.

- UNESCO Africa Regional Workshop on the Trans-Atlantic Slave Trade Education Project held from 15th-19th February, 1999 in Accra, Ghana (provided expert advice and acted as a Rapporteur).

- "Ghana and the Slave Trade." Public Lecture delivered to participants of the School for International Training, held at the Institute of African Studies, Legon on 9th March 1999.

- "A history of Slave Trade in Ghana." Lecture delivered to students from the College of William and Mary, U.S.A. at the Complex Lecture Theatre Hall, Legon, on 4th July, 1999.

- "The Slave Trade: An African Perspective". Lecture delivered to students from James Madison University, Harrisonburg, Virginia, U.S.A.

- "Ghana and The Slave Trade." Lecture delivered to North Carolina Central University students, U.S.A. at the Department of Food and Nutrition, Legon on 14th July, 1999.

- "A History of the Forts and Castles in Ghana." Lecture delivered to Temple University students, U.S.A. at the Department of Food and Nutrition, Legon on 14th July, 1999.

- "Towards a Theological interpretation of Historical tradition." Paper presented at the Gospel and Culture Workshop, Akrofi-Christaller Memorial Centre, Akropong, Ghana on 10th August 1999.

- UNESCO ASP Workshop on the Trans-Atlantic Slave Trade held in Dakar, Senegal from the 18th to 24th August, 1999 provided expert advice as a member of the UNESCO ASP International task force.

Brokum, N.J.K.

- "Ethnic Conflicts in Northern Ghana: an appraisal." Paper presented at a Twelve Biennial Congress of Africa Association of Political Science, Dakar, Senegal, 22-29 June 1999.

- "Introduction to the peoples, cultures and histories of Northern Ghana." Paper presented at African Humanities Institute Programme, 1998 IAS, Legon.

- "Northern Ghana and the impact of the slave trade". Paper presented at African Humanities Programme, 1998, IAS, Legon.

- "The relevance of University Education in Ghana today." Paper presented at Grand Valley State University, Michigan, Fulbright Group Studies in Ghana, IAS, 1999.

Introduction

LECIA continued to offer post-graduate courses leading to M.A (International Affairs) Degree. In addition, LECIA stepped up its programme for providing continuing education, through seminars and out-reach programmes, to Ghana's Foreign Service Officers, CEPS, Immigration, Police and Military personnel and the Parliamentary Committee on Foreign Relations. The objective has been to enhance the performance capacity of those who are directly involved with the formulation and conduct of Ghana's foreign policy. The Ministry of Foreign Affairs continued its funding through subvention of LECIA.

Staff

The Centre's staffing position has improved considerably. It now has the full complement of full-time Senior Members establishment approved for it. The position is as follows:

- 1 Senior Research Fellow
- 4 Research Fellows
- 1 Diplomat-In-Residence

In addition, the Centre continues to use the services of Senior Members from the cooperating departments within the University as part-time lecturers. For the 1999/2000 Academic Year, the number is likely to increase as we open up some of the Electives, which have not been taught for sometime because of the unavailability of lecturers.

Students

During the year under review, 26 students were admitted to the M.A (International Affairs) programme. However, before the first semester ended one student had left. Out of the present 25 students, 17 are males and 8 females. LECIA was also privileged to have 3 foreign students in 1998/99 batch.

About 118 applications were received for the 1999/2000 Academic Year, 70 were short-listed for interview and 30 were selected. Among the applicants being offered admission are 4 from the Ministry of Foreign Affairs, 3 from the Parliamentary Service and 4 Foreign Students. The gender distribution is 20 males and 10 females.

Supervision of Dissertation

The Faculty of Law and the Departments of Economics, Geography and Resource Development, History and Political Science provided the needed extra-hands to supervise the M.A (International Affairs) Dissertations produced by the students.

The LECIA Library

The Library continues to receive the most current journals, United Nations papers and a wide selection of international and national newspapers and magazines relevant to the Centre's work. In February, this year, the Centre bought 27 books from its subvention at the cost of c2,121,000.00.

The Centre remains fortunate with donations. In this connection, we note with appreciation donations of books by Nana Oye Addo-Yobo, a student at the Centre (Third World Network, an International NGO) and the World Bank's Mission to Ghana. The World Bank is also considering making the Centre's library one of its depositories. In addition, Dr. Agyeman-Dua, a former Fulbright Fellow at the Centre, bought a number of books for the library as part of the USIP-funded Conflict Resolution project.

Of particular interest is the connection of one of the computers in the Library to the Internet. This will help both students and staff to have access to a greater volume of information. Consideration is being given to extending this service. An application has been made to the Academic Registrar for financial assistance out of the academic user fee fund to computerize the library. The latest information is that the application is being favourably considered.

Extension Services

Part of the Centre's mandate is to provide public education on international affairs to the general public as well as the Foreign Service establishment. The following activities have been carried out in connection with this mandate, as part of UNDP-NIRP Project
Workshop on Topical Economic Issues Relevant to the Formulation and Conduct of Foreign Policy in Ghana, Miklin Hotel, East Legon Accra, 6-7 November 1998.

This workshop was designed to acquaint Ghana's Foreign Service staff with knowledge of critical economic concepts in the post-cold war international trade and investment politics as well as provide the opportunity for exchange of ideas and experiences among all the agencies responsible for conducting Ghana's foreign trade relations. It was attended by 30 Branch A Foreign Services, 5 representatives of the Ghana Immigration Service, 5 Officers of CEPS, 5 Ministry of Trade Officials, the entire membership of the Parliamentary Select Committee on Foreign Affairs (22) and 5 officials from the Ministry of Finance. In addition, 10 journalists from the public and the private media establishments also participated.

Workshop on Techniques for Negotiation for Diplomats, Hotel Cisneros, Sogakope, Volta Region, 4-6 December 1998.

The objectives of this Workshop were:
to impart basic negotiation techniques, and
to sharpen negotiation skills of the core of Ghana's foreign service operatives.

Participation was from

Ministry of Foreign Affairs (all ranks)	-	30
Ghana Armed Forces	-	6
Ghana Police Service	-	4
Media Practitioners	-	10

Though the Parliamentary Committee was again invited, other pressing business did not make it possible for the members to participate in this activity. 6 participated and, even then, only on the second day.

In partnership with Friedrich Ebert Foundation and the Parliamentary Select Committee on Foreign Affairs and the Ministry of Foreign Affairs a Workshop on DIPLOMACY: THE CHANGING FACE OF GHANA'S DIPLOMACY was organized at Hotel Chances, Ho, 9-12 July, 1999.

The object of this workshop was to examine the issues arising from the various initiative taken by the Government and arising, especially from the President's trips abroad and their implications for Ghana's Diplomacy. It was organized mainly for the Parliamentary Select Committee and the Ministry of Foreign Affairs to strengthen the capacity of the members and, through them, Parliament, to make meaningful contributions to the developments likely to shape Ghana's foreign policy in the next millenium.

The Centre has also presented proposals to NIRP/UNDP for funding to hold two round-table discussions and two Workshops during the current year as part of Ghana's Good Governance Project. The Ministry of Foreign Affairs has given approval for the funds requested to be released to the Centre. The preparatory work has been done. Four of the Centre's Senior Members will act as Co-ordinators for these activities.

Wednesday Seminars

These Seminars are part of the teaching programme of the Centre. Participation is compulsory for all students. The seminars held during the First and Second Semesters of the 1998/1999 Academic Year are as follows:

- Ayee, J.R.A. - Head Political Science Department, Legon: Decentralization In Africa Lessons for the Future.
- Twumasi, P.A. - Member of the Policy Management Group, The Castle: The Commonwealth Crusade for Good Governance.
- Alemna, A.A. - Head of Dept. Library and Archival Studies: Trans-Border Information Flow: Alternative Strategies for Africa.
- Ofori-Sarpong, E. - Dean, Faculty of Social Studies, Legon: International Concerns about the Global Environment: An Agenda for the Twenty-first Century.
- Sowa, Nii Kwaku - Care Fellow, Centre for Policy Analysis (CEPA), Accra: Structural Adjustment in Ghana
- Gambari, Ibrahim - Nigeria Permanent Representative at the U. N: Trends in Africa's Foreign Policy: Perspective from the United Nations
- Kristiotis - Lecturer, Nottingham University, U.K: Human Rights, Humanitarian Intervention and Foreign Policy.
- Baku, E.K. - Lecturer, History Dept: Ghana at 42: The Visions, the Achievements and the Disappointments
- Yugoslav Ambassador in Ghana: Yugoslav
 - Kosovo and Metohija issues - As Viewed from Yugoslavia and Serbia
- Greenfield, Richard - The Horn of Africa - Between War and Peace
- Gen. Erskine - UN Peace Keeping: Challenges and Problems
- Prof. Patrick Twumasi - Civic Conflicts in the Great Lakes Region
- Nana Dr. S.K.B Asante - Negotiating Commercial Contracts.
- The German Ambassador - German Foreign Policy Objectives in Sub-Saharan Africa
- Kathryne Robertson, US Ambassador
 - US Foreign Policy goals in Sub-Saharan Africa since the end of the cold war.

Research/Publications

During the period under review, the following articles were published by Research Fellows:

- Antwi-Danso, V. - "Rethinking Aid in Sub-Saharan Africa: Corporation and Integration" in PRAXIS. The Fletcher Journal of Development Studies Vol. XIX. (Financing Development). Medford. Tufts University Press, 1998.
- Boe, B.D.Y. - "Security Discourse in International Relations: The State and Society in the Third World". The Universitas. Inter-Faculty Journal, University of Ghana (Forthcoming)
- "Arms and Post-Cold War Conflicts" THISWEEK Magazine, February, 1999
- "The ECOWAS Imperative" THISWEEK Magazine, December 1998.
- Ahorsu, Ken E. - "Conflict Resolution, Sustain Peace - Reconciliation and Justice: The Role of International Criminal Tribunals and Truth Commissions" PACS 99, Department of Peace and Conflict Research, Uppsala University, May 1999.

The Centre also published

Techniques of Negotiation for Diplomats

Topical Economic Issues Pertinent to the Formulation and Conduct of Foreign Policy in Ghana.

The LÉCIA BULLETIN vol. 4 no. 1.

DEPARTMENT OF NURSING

The Department continues to offer the following courses:

- (a) Diploma (Nursing)
- (b) Bachelor of Arts and Science (Nursing)

The introduction of two new courses at Level 200 viz NURS 203: Introduction to Community Health and NURS 205: Family Health attracted more students including foreign students, to offer Nursing as a minor thus, the student number continues to increase steadily. Likewise, students from other African countries continue to register in the Diploma Programme.

Student numbers

In the year under review, a total of one hundred and ninety-two (192) students enrolled in Nursing as against one hundred and six (106) of the previous year.

The breakdown is as follows.

Level 200	-	58
Level 300	-	32
Level 400	-	33
Fourth Year	-	25
Diploma Year One	-	25
Diploma Year Two	-	19

Staffing

Senior Members

Miss Bernice Goka	-	Lecturer (Head of Department)
Miss Mary Opare	-	Lecturer
Miss Ernestina Donkor	-	Lecturer
Prof. Ayodele Akiwumi	-	Associate Professor (Contract)
Miss Joanna Laryea	-	Senior Lecturer (Contract)

Senior Staff

Mrs. Faustina Oware-Gyekye	-	Chief Nurse Technician
Miss Peace Golomeke	-	Principal Nurse Technician
Mrs. Dorothy Donkoh	-	Principal Nurse Technician
Miss Gladys Adeyemoh	-	Principal Nurse Technician(Temporary)
Miss Alice Otu	-	Snr. Library Assistant
Mrs. Lydia Jones	-	Snr. Administrative Assistant
Miss Gloria Karkari	-	Administrative Assistant(Relieving Duties)

Junior Staff

Ruth Wiredu	-	Clerk Gd. II
Alhassan Imoru	-	Typist Gd. I
Christopher Hesse	-	Junior Library Assistant.
Ashalley Mensah	-	Snr. Driver
Bismark Ashitey Amaah	-	Driver Gd. II
Frank Kwaffo	-	Driver Gd. II
Maxwel Bansah	-	Messenger/Cleaner
Yaro Grunshie	-	Snr. Gardner.

Unfortunately, the increasing number of students was not commensurate with the number of senior members. Two senior members, namely, Miss Joanna Laryea (Senior Lecturer) and Mrs. Felicia Darkwah, (Lecturer) retired within the year, leaving five full-time lecturers as against the establishment of sixteen (16).

However, quite a significant number of part-time lecturers and demonstrators in the field continue to provide support. Two new Principal Nurse Technicians, Miss Peace Golomeke and Mrs. Dorothy Maame Donkoh and one Temporary Principal Nurse Technician, Miss Gladys Adeyemoh were appointed unto the staff. These appointments have gone a long way to augment the perennial problems of limited student-staff contacts.

College of Health Sciences

It was proposed that a college of Health Sciences be established, comprising of:

- The Ghana Medical School
- Ghana Dental Council
- School of Public Health
- School of Allied Sciences
- School of Nursing
- Noguchi Memorial Institute of Medical Research

The proposals are under review by the various institutions concerned. Meanwhile, the status of the Department is to be changed to a School of Nursing under the new system. This move is also receiving the needed attention.

Research activities

Members continued with individual research investigations. These include:

- Laryea, Joanna Lartely - Infection Control Practices in Korle-Bu (In Progress)
- Opare, Mary - Clinical Teaching of Nursing Students (Preceptorship) History of Nursing Service and Education in Ghana
- Darkwah, Felicia - Research Proposal (Dilutant G.S. & P. Trials) For High Level Decontamination Towards Infection Prevention in Maternal and Child Health Services, was submitted to the West African Health Community for funding.
- Donkor, Ernestina - Labour Pain : Research Based Principles of Management (In Progress)

Publications

- Laryea, Joanna Lartely - Manuscript - Non- Orthodox Treatment of Hypertension.
- Opare, Mary - (1999) Adolescent Reproductive Health : A Challenge to Nurses. Submitted to the Journal of West African College of Nursing.
- Darkwah, Felicia - (1999). Menopause - What Every Woman Should Know. The Ghanaian Midwife, A publication of the Ghana Registered Midwives Association. (GRMA) No. 27. Pp. 11, 14-15
- (1999) You and Your Health : Subfertility and Its Management. In Newsletter of Trinity United Church, Church News, KISSIEDU (EDIT), Vol.3, No. 4. Nov- Dec. 1999
- (1999), What Do You Know About Cancer? The Ghanaian Midwife, A publication of the Ghana Registered Midwives Association. (GRMA) No. 27, pp. 5, 21- 22
- (1999). Causes of Maternal Death : Anaemia in Pregnancy. Safer Childbirth, A Journal of the Nana Yaa Foundation for Quality Maternal Health Services, Vol. 1, No 1 April.

- (1999) Causes of Maternal Death : Poor Quality of Maternal Health Services and Approaches for Minimization of Problem. Safer Childbirth. A Journal of the Nana Yaa Foundation for Quality Maternal Health services. Vol 1 No. 1 April.
- (1999) Infection as a Complication of Pregnancy and Outcome. Safer Childbirth. A Journal of Nana Yaa Foundation for Quality Maternal Health Services. Vol. 2 No. 1 Sept. Pg. 3-5.

Education and Research Links

Negotiations are advanced between the universities of Alberta and the Department of Nursing, University of Ghana, in terms of funding and course structure development for the commencement of the M'phil programme in the year 2001. Two senior members, Mrs. Felicia Darkwah and Miss Ernestina Donkor are on a 6-week visit to the University of Alberta for processing the final document and to update their expertise in the course specialties that they will be teaching.

Link programmes between the Universities of Ulster, Ireland and South Bank, Britain have been suspended but it is hoped that other universities will be contacted for new link agreements.

Visitors

Few foreign visitors were hosted by the Department for various assignment. These included.

1. Dr. Linda Oglivie and Pamela Brink from the University of Alberta.
2. Four undergraduate students from University of Alberta were here from 15th February, 1999 to 28th March, 1999 for a 6-week clinical experience.
3. Dr. Hurdis Griffith, a professor from University of Rutgers, New Jersey, United States of America, also paid a courtesy call to have a first-hand information on the activities of the Department of Nursing in relation to Women's Health specifically.

In addition, the Department is expected to host members of the management and Advisory Boards of the M'phil programme from the University of Alberta within the year.

Book Donations

The Department took delivery of some books as donations. These are;

1. Ministry of Health - National Health Learning materials - 77 assorted books
2. World Vision International - One Thousand and seventy-four (1,074) books.

Prospects

The future holds a lot in stock for the Department in terms of academic, professional and social progress. Despite the skeleton numerical strength of the staff at post, it is hoped the products of the M'phil programme will eventually fill some of these vacancies.

Also the Canadian International Development Agency (CIDA) funding of the M'phil programme is hoped to benefit other areas like continued adjustment in infrastructure, supply of equipment, and curriculum reviews. These are no doubt reassuring.

Death

Unfortunately, the department lost one staff during the year. Mr. Kwasi Tetteh, a driver from the Estate Organization died on January 25, 2000 after a short illness.

DEPARTMENT OF POLITICAL SCIENCE

Overview

I have always highlighted the problems that have confronted the Department since I took over office as Head of Department in October 1995. The main problems are the dilapidated nature of the building which houses the Department and the lack of office space for a Department originally built to accommodate about (50) fifty students. As indicated in the 1997/98 report, student numbers have increased without any corresponding expansion of facilities, such as library and office space. The dilapidated nature of the building still poses a threat to life and property. The building has seen no major renovation since it was constructed in 1964. One of the issues that faces the Department, as it enters the 21st century, is to garner support for its long cherished ambition of moving into a permanent building. Notwithstanding the constraints, the Department, as usual, still remains one of the most productive ones in terms of research and publication.

Courses

The Department offered 34 undergraduate and 15 graduate courses. The breakdown is as follows:

Undergraduate Courses

Semester 1

- POL 1101 - Introduction to the Study of Political Science (I)
- POL 1201 - Elements of Political Science
- POL 1203 - Political Institutions
- POL 1301 - Ancient and Medieval Political Thought
- POL 1303 - Introduction to the Theory and Practice of Political Research
- POL 1305 - Government and Politics in Ghana since Independence (I)
- POL 1307 - Introduction to Public Administration
- POL 1313 - Nature, Growth and Role of International Organizations

POLI 315 - Organization Theory
POLI 323 - Conflicts in African States
POLI 400 - Independent Study
POLI 401 - The Contractualists
POLI 403 - Statistics for Political Research
POLI 407 - Government and Politics in Ghana since Independence (II)
POLI 409 - Comparative Public Administration
POLI 411 - Politics and Development
POLI 421 - Foreign Policy Analysis
POLI 429 - Public Policy Analysis
POLI 431 - Refugees and International Relations

Semester 2

POLI 102 - Introduction to the Study of Political Science (II)
POLI 202 - Introduction to International Politics
POLI 204 - Introduction to the Study of Ghanaian Politics
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 in Ghana
POLI 318 - The Military in Ghanaian Politics
POLI 400 - Independent Study
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 422 - Politics of Developing Countries
POLI 432 - Human Rights in Africa
POLI 434 - Public Enterprise

Graduate Courses

Semester 1

POLI 603 - Patterns of Development Administration
POLI 607 - Decentralization and Local Government
POLI 617 - General Methodology/Philosophy of the Social Sciences
POLI 623 - The Making of Foreign Policy
POLI 633 - Conflicts in African States
POLI 635 - Issues in Comparative Politics and Development
POLI 641 - Problems of Government and Politics in Africa

Semester 2

POLI 602 - Survey Methods in Social Sciences
POLI 604 - Public Policy Analysis
POLI 608 - Government Budgeting
POLI 626 - Theory and International Politics

- OLI 638 - The Politics of the International Economy
- OLI 642 - Strategies of Development in Africa
- OLI 648 - The Military in Politics
- OLI 654 - Democracy and Governance in Africa

Student Numbers

The student numbers have increased from 1226 in the previous year to 1473, making the Department the largest in the University. It is poignant to note, however, that the increase in size of students did not have a corresponding level of increase in financial resources allocated to the Department.

Undergraduate

Level 100	- 159
Level 200	- 392
Level 300	- 433
Level 400	- 454
Foreign Students	- 35
Total	1473

Graduate

M Phil 1	- 9
M Phil 2	- 10
Ph.D	- 2
Total	21

Staff

The staff strength stood at ten. Dr A. Essuman-Johnson returned from sabbatical leave while Dr K. Bofo-Arthur was spending the last year of his sabbatical leave. Mr Kumi Ansah-Koi and Ms Beatrix Allah-Mensah also went on sabbatical and study leave respectively. Dr Lisa Aubrey joined the Department from the United States as a Senior Fulbright Scholar. Professor S.K.B. Asante, a former head of department, was re-engaged to teach on part-time basis.

Research

Like the previous year, 1998/99 staff research activities mainly concentrated in the areas of governance, elections, civil society, decentralization, conflict, foreign policy, corruption, gender and the environment.

Publications

- Ayee, J.R.A. - "The Formulation and Implementation of Environmental Policy in Ghana" *Africa Development* ISSN 0850-3907 (Vol. XXIII, No. 2, 1998), pp. 99-119.
- "Decentralization in Sub-Saharan Africa: Lessons for the Future", *The LE/CIA Bulletin* ISBN 9964-75-089-8 (Vol. 4, No. 1 December 1998), pp. 1-21.
- *Decentralization and Conflict: The Case of District Chief Executives and Members of Parliament in Ghana* (Friedrich Ebert Foundation: Accra, 1999), ISBN 9988-572-61-1, xi+104pp.
- "Management as a Tool for National Development: The Academic Viewpoint", *The Manager, Journal of the Ghana Institute of Management* ISSN 0855-2258 (Vol. 1, January-June 1999), pp. 23-26.

- "Transition to Civilian Rule to Constitutional Government and the Consolidation of Democratic Governance in Ghana" in Dele Olowu et. al. (eds) *Governance and Democratization in West Africa* ISBN 2-86978-083-4 (London: CODESRIA. 1999), Chapter 16, pp. 319-340.
 - "Decentralization and the Provision of Local Public Services in Ghana" in Karl Wohlmuth et. al. (eds) *Good Governance and Economic Development*, ISBN 3-8258-4215-0. *African Development Perspective Yearbook 1997/98*, Vol. 6 (Munster/Hamburg/London: Lit Verlag, 1999), pp. 459-478.
 - "Ghana: The Search for Continuing Cures in the Fight Against Corruption", in K.R. Hope Sr. and B.C. Chikulo (eds) *Corruption and Development in Africa: Lessons from Country Case Studies* (Macmillan and St Martin's Press, New York, 1999), ISBN 0-333-77089-7 and ISBN 0-312-22387-0, Chapter 9, pp. 183-197.
 - "Ghana" in Ladipo Adamolekun et. al. *Public Administration in Africa: Main Issues and Selected Country Case Studies*, (Westview, Boulder, CO., 1999), ISBN 0-8133-3653-8. Chapter 15, pp. 250-274.
- Gyimah-Boadi, E.
- "Institutionalizing Credible Elections in Ghana", in Andreas Schedler, Larry Diamond and Marc Plattner (eds), *The Self-Restraining State: Power and Accountability in New Democracies*, (London; Boulder, CO: Lynne Rienner, 1999), pp. 105-121.
 - "Ghana: The Challenges of Consolidating Democracy", in Richard Joseph (ed), *State, Conflict, and Democracy in Africa*, (London; Boulder, CO: Lynne Rienner, 1999), pp. 409-428.
 - "Economic Reform and Political Liberalization in Ghana and Cote d'Ivoire: A Preliminary Assessment of Implications for Nation Building", (with Cyril Daddieh) in Kidane Mengisteab and Cyril Daddieh (eds), *State Building and Democratization in Africa*, (Westport, Connecticut: London: Praeger, 1999), pp. 126-155.
 - "Managing Electoral Politics in Africa: Lessons from Ghana", in Timothy Sisk and Andrew Reynolds (eds) *Managing Electoral Conflicts in Africa* (Washington DC: United States Institute of Peace, 1998).
- Oquaye, A.M.
- "Negotiating Domestic Conflicts and Wars: A Sub-Regional Approach: The Case of Liberia" in Nana Dr S. K. B. Asante (ed) *Techniques of Negotiation for Diplomats* (Accra: LECIA, 1998), pp. 42-71.
 - "The Political Parties Bill 1999 - An Analysis", *Governance*, Institute of Economic Affairs, Accra, (No. 8, 1999), pp. 1-10.
 - "Democracy in Ghana's Fourth Republic", *Governance*, Institute of Economic Affairs, Accra, (No. 12, 1999), pp. 1-10.

Conferences/Seminars/Workshops

Individual conferences, seminars and workshops attended are as follows:

UNEC/DMD/DPMF Democracy Conference II under the theme "Democracy, Civil Society and Governance in Africa: Country Case Studies on Measuring the Progress of Democratization and Good Governance in African Countries" held at Addis Ababa, Ethiopia, 7-11 December 1998. Paper presented: "Measuring Democracy and Good Governance: The Ghanaian Case"

The Second Pan-African Conference of Ministers of Civil Service on the theme "Civil Service in Africa: New Challenges, Professionalism and Ethics" organized by the UN Department of Economic and Social Affairs (UNDESA), the Kingdom of Morocco and the African Training Centre for Research and Development (CAFRAD), held in Rabat, Morocco, 13-15 December 1998. Paper presented: "The Civil Service in Africa: Ethics"

Workshop on "Fiscal Decentralization and Sub-national Finance in Ghana", organized by The Centre for Democracy and Development (CDD- Ghana) and sponsored by USAID, The World Bank and DANIDA at Coconut Grove Hotel, Elmina, September 17-19, 1999. Papers presented: (i) "The Context of the Study - Overview of Decentralization Experience in Ghana" and (ii) "Regulatory Framework of Decentralization in Ghana"

Conference on "A Decade of Decentralization and Local Government Reform in Ghana - Retrospects and Prospects" organized by the Ministry of Local Government and Rural Development in collaboration with University of Ghana and University of Mannheim, Germany held at the Institute of Local Government Studies, Accra from 29th September- 1st October 1999. Papers presented: (i) "The Global Context of Decentralization" and (ii) "Sub-District Structures and Popular Participation in Ghana".

11th National Delegates' Conference of the National Association of Local Government on the theme "Democratization and Decentralization: Strategies for Consolidation" held at the City Hotel, Kumasi from 27th-31st October 1999. Paper presented: "Decentralization and Conflict: The Case of District Chief Executive (DCE)/Presiding Member (PM), DCE/Member of Parliament (MP), DCE/District Coordinating Director (DCD) and District Assembly/Decentralized Departments".

Programme of Public Lectures and Symposia marking the 40th Anniversary of the Ghana Academy of Arts and Sciences under the theme "Critical Issues and Challenges of the 21st Century " held at the Teachers' Hall, Accra, 15th-19th November 1999. Paper presented: "Survival of Constitutional Rule".

3rd Development Policy Management Forum (DPMF) Conference on "Democratization, Development Management and Conflict in Africa" held at Addis Ababa, Ethiopia, 23-26 November 1999. Paper presented: "The Role of Public Administration in Conflict Management in Africa".

Seminar at the Centre for Social Policy Studies, University of Ghana, Legon, March 26, 1999. Paper presented: "Why Can't We All Get Along: Civil Society and the Good Society".

The Fifth Africa-African American Summit, International Conference Centre, Accra, May 17-21, 1999. Paper presented: "The Importance of an Enabling Regulatory Framework, Transparency and Anti-Corruption Environment for Good Governance and Sustainable Development in Africa".

Conference of Global Coalition for Africa on the theme "Institutionalization of Democracy in Africa", Paris, June 14, 1999. Paper presented "Towards Peaceful Political Succession and Power Alternation in Africa"

- Symposium of the Ghana Academy of Arts and Sciences at Teachers' Hall, Accra, June 21, 1999. Paper presented: "Six Years of Constitutional Rule in Ghana: An Assessment and Prospects".
- Third Annual Governance Forum on the theme "Governance and Conflict Management" held at the International Conference Centre, Accra on June 2-1999. Discussant on "The Role of Independent Commissions in Conflict Management".
- Conference of the African Economic Research Consortium and African Development Bank on the theme "Can Africa Claim the 21st Century?" at Abidjan, Cote d'Ivoire, July 6-9, 1999. Presented a Critique of Professor Michael Chege's paper on the topic.
- Public Hearing of the European Union and the Inter-Press Service in Brussels Belgium on the topic "Civil Society and Political Partnership in Lome V", held on July 8-10, 1999. Paper presented: "Reflections on a New Governance for Africa".
- Mid Year Seminar of the Christian Council on the theme "Democracy and Good Governance in the Next Millennium: The Role of the Church" held at Women's Centre, Osu, Accra on 29-30 July 1999. Paper presented: "Enhancing the Role of Civil Society: The Church's Contribution".
- The 9th International Anti-Corruption Conference held in Durban, South Africa, October 10-15, 1999. Paper presented: "Towards an Enhanced Role for Civil Society in the Fight Against Corruption in Africa".
- Conference on Organizing Civil Society for Democracy and Development in the New Millennium, organized by the Centre for Democracy and Development, London, October 21-24, 1999 at Abuja, Nigeria. Paper presented: "Civil Society, Democracy and Development".

Oquaye, A.M.

- Parliamentary Workshop in Ghana, organized by the Institute of Economic Affairs in collaboration with the Parliamentary Centre, Canada, World Bank and CIDA at Coconut Grove, Elmina, 27-29 November 1998. Paper presented: "A Review of the Work of the Finance Committee of Ghana's Parliament".
- 25th Anniversary Conference on Globalization in Africa, organized by the African Association of Political Science held on 2-5 September 1998. Paper presented: "The Human Rights Dimensions of Globalization in Africa".
- Participant, 1998 SAPES Annual Colloquium on Regional Security, Harare, Zimbabwe, 27-30 September 1998.
- Resource Person on Governance, SAPRI Conference on Structural Adjustment in Ghana held on 10-12 November 1998, organized by the World Bank and the Government of Ghana, at the Accra International Conference Centre.
- Workshop on Techniques of Negotiation for Diplomats, organized by the National Institutional Renewal Programme, Legon Centre for International Affairs (LECIA) and UNDP at Cisneros Hotel, Sogakope on 4-6 December 1998. Papers presented: (i) "Negotiating International Conflicts and Wars" and (ii) "Negotiating Domestic Conflicts: The Liberian Case".
- Conference on "The Role of Universities in Africa: Programme Implementation Strategy Meeting", organized by the Carnegie Corporation, New York, 19-21 January, 1999. Paper presented: "The Universities and National Development in Africa: Constraints, Challenges and Prospects".

- Participant at the Conference on "Fighting Corruption in Developing Countries and Emerging Economies: The Role of the Private Sector", organized by the Centre for International Private Enterprise (CIPA) at Washington, DC 22-23 February, 1999.
- Seminar on "The Political Parties Bill 1999 and the Search for Democratic Governance in Ghana", Institute of Economic Affairs (IEA), Accra held on 29th June, 1999. Paper presented: "The Political Parties Bill 1999 - An Analysis".
- African Association of Political Science (AAPS) Conference, Dakar, Senegal, 22-25 June 1999: Coordinator, Workshop on Conflicts in Africa.
- Ghana Academy of Arts and Sciences Annual Lectures, 21-22 June 1999. Paper presented: "The Judiciary and the Search for Democracy in Ghana: An Assessment"

DEPARTMENT OF PSYCHOLOGY

Overview

The Department continued to be plagued with acute shortage of office accommodation, inadequate academic staff and obsolete laboratory equipment during the 1998/99 academic year. During the period under review, the Department ran 36 undergraduate and 15 graduate courses. In addition to students who majored in Psychology, others from the various Faculties and Institutes within the University offered Psychology as either combined major or electives. These are students in Nursing, Social Work, Home Science, Prison and Police Administration and Management and Accounting.

Courses and student numbers

Level 100	-	320
-	200	- 673
-	300	- 275
-	400	- 156
M Phil Part I	-	11
M Phil Part II	-	5

Undergraduate courses

The Department ran courses leading to the award of Bachelor of Arts (B.A) and Bachelor of Science (B.Sc) degrees in Psychology. Students could major in Psychology as a single subject or major in Psychology and combine with other subjects from the Sciences, Arts, Social Sciences or Business Administration.

Graduate courses

Because of academic staff strength, the Department could offer only one graduate programme - Clinical Psychology, which is of two-year duration, leading to the award of Master of Philosophy (M. Phil) degree.

Mrs. Charity Akotia, a Lecturer in the Department is pursuing a Doctorate degree in Psychology on part-time basis. She started the course during the 1997/98 academic year. She was recently awarded an A.G Leventis Graduate Fellowship

Staff strength

1.	Prof. S.A. Danquah	-	Professor & Head of Department
2.	Prof. J.Y. Opoku	-	Associate Professor
3.	Dr. A. Afrifa	-	Senior Lecturer (On sabbatical leave)
4.	Dr. R. Akuamoah-Boateng	-	Senior Lecturer
5.	Dr. Rose Schroeder	-	Lecturer (Leave of absence)
6.	Mrs. Charity Akotia	-	Lecturer
7.	Mr. C.B. Wiafe-Akenteng	-	"
8.	Mr. Adote Anum	-	"
9.	Mr. Maxwell A. Asumeng	-	"
10.	C.E. Fisican	-	Associate Professor (Part time)
11.	Dr. Araba Sefa-Dede	-	Senior Lecturer (Part time)
12.	Dr. J.J. Lamptey	-	Senior Lecturer (Part time)
13.	Mrs. Rachel Phillips	-	Lecturer (Part time)

Seven (7) National Service Personnel, all former graduates from this Department were posted to the Department during the year under review. They were Prince Opoku-Agyeman, Ama Korantema Owiredo, Fredrick Atogyire, Love Debrah, Mensah Kwarteng Ofosuhene, Jonathan S. Lomotey and Doreen Yeboah.

Mr. I.E. Ogoe, Chief Administrative Assistant was transferred to the Department from Academic Section to replace Mr. V.L. Padi who was on retirement. Mr. O.S.K. Obeng, Administrative Assistant was also transferred to the Department from the Estates Organisation. Their presence has improved the administrative and secretarial effectiveness of the Department which has been growing in terms of student numbers and functions associated with the growth of the Department.

Links with outside institutions

1. Plans are in progress to establish a Unit of the Department of Psychology within the Department of Psychiatry of the University of Ghana Medical School.
2. Consultations made by the Department during the year under review have made it possible for fourteen (14) post-graduate Clinical Psychology students to do their Practicum at the following Institutions as from October 4, 1999 - Pantang, Accra and Ankaful Psychiatric Hospitals and Valley View Clinic.

There has been richness in the Clinical programme in the area of Health delivery and this has attracted medical Doctors to undertake this course. At the moment we have three (3) such medical Doctors in the programme.

3. The University has been playing host to Professor Kwak Ki Sang from the Sang Ji University in Korea. He has been with the Department since March 1999 and he is expected to stay till February 2000.
4. In collaboration with this Department and the Ghana Tourist Board, the Association of Black Psychologists in the United States will be organising a Conference in Ghana in September, 2000. Professor C. Mate-Cole, a Ghanaian Psychologist who initiated the idea visited the Department in July, 1999 for an initial discussion towards the forthcoming Conference. Since then, there have been series of meetings in the Department by the collaborative Institutions on the issue during the year under review.

Exchange programme

Dr. Margaret Agama an M.Phil Student in Clinical Psychology was invited to the Central Connecticut State University in the U.S. to undertake three (3) months training in Neuro-Psychology from 15th July to November 1999. Mr. Barnabas Chirapanga Awedoba also an M.Phil Student in Clinical Psychology was selected for training at the Tufts University in the U.S. for one (1) year under the University of Ghana Exchange Programme Scholarship. He left in August, 1999.

Research papers/accepted for publications and completed publications.

Publications

Danquah, S.A. (1999) Outcome of a Non-Aversive Behaviour Intervention in Intellectually Impaired Individuals, Using Goal Attainment Scaling. American Journal of Psychiatry, July-August, 1999 Vol. 48, No. 4 220-225.

Research activities

Standardisation of Psychological Test WISC-R & WAIS-R and Basic Personality Inventory (BPI) Ghanaian Norms.
Effect of Malnutrition on Cognitive Performance.
Avoidance Behaviour Pattern Among Phobic Patients in Ghana

Opoku, J.Y.

Was on leave for the whole of 1998. During the period he undertook the following works:

- "A Short Guide to Research writing In the Social Sciences and Education." A book submitted for possible publication by the Ghana Universities Press.
- "Second Language Proficiency and Cross-Language Influence on a Comprehension Task." This paper just completed, is to be submitted for possible publication in an International Journal in Cognitive Psychology.

Akotia, C.S.

- (1999) Loneliness: What to know about it. You and Psychology, 7, 27-37.
- Seta-Dedeh, A (1999). Refuge Mental Health: Adjustment of Liberians to refugee conditions in Ghana. Unpublished report submitted to WHO.
- N'joo, J.C. (1998). Positive and Negative experience of refugees in accessing a settlement agency in Southern Ontario. Ife Psychologia: An International Journal, 6 (2), 152-169.
- Gender differences in crying among University students of Ghana. A paper ready for submission for possible publication in an International Journal of Psychology: A Journal of Human Behaviour.

- Naidoo, J.C. - Olowu, A., Gilbert, A. and Akotia, C.S. (1998). Challenging Euro-American Centred Psychology. The voices of African Psychologists. In W.J. Lonner, D.L. Dinnel, D.K. Forgays, & S.A. Hayes (Eds). *Merging Past, Present & Future: Selected Papers from the International Congress of Cross-Cultural Association for Psychology*. Lisse, The Netherlands, Swets & Zeitlinger.
- Wehjljah, G.A. - Akotia, C.S. (In Press). Life satisfaction and self esteem among Liberian refugees in Ghana. *Ife Psychologia: An International Journal*.

On Going Research

Ph.D. Research Project on 'Psychosocial obstacles to the advancement of women at the work place.'

Extension Actitives

Radio Talk - Social Support and Health.

Radio Talk - Loneliness

Guest Lecturer - African-American Summer Program year Abroad Students on Community Psychology in Ghana.

Wiafe-Akenteng, C. B.

Unpublished Work

Moral Reasoning, cost of helping and Human Relationship to Altruistic Orientation.

Ongoing

Perception of Ghana by Foreign Students: Before and after visiting the Country.

Workshop

- (i) National Integrity Workshop on combating corruption (Oct. 21 - 22, 1998). Collaborated with the Center for Democracy and Development (CDD) on a National Survey on Perceptions of Corruption in the Delivery of Health Care and Education Services in Ghana. Preparation of Survey Report for the Workshop.
- (ii) A sub-regional Workshop on Collective Regional Security held at Volta Hotel, Akosombo, Ghana in August, 1999. The Workshop was sponsored by the Ford Foundation of U.S.A.

Anum, Adote

1. Asenso-Okyere, W.K. Osei-Akoto, I. Anum A. And Adukonu, A.: The Behaviour of health care workers in an era of cost sharing: A study from Ghana's drug cash and carry system. *Tropical Medicine and International Health*, 4 (8), August, 1999.
2. Doku, V.C.K, Doku Vera and Adote Anum: Coverage of Mental Health in a National Ghanaian Newspaper. Abstract and Poster presentation at the X1th World Congress of Psychiatry, Hamburg, 6-11th August 1999, Abstract Volume II page 189.
3. Doku, V.C.K, Adote Anum and Boni Prince. The usefulness of routine data collected on patients in a Ghanaian mental hospital: a pilot study. Abstract and poster presentation at the World Psychiatric Association Section of Epidemiology and public health symposium. 1 - 4th August 1999. Turku, Finland.

On going projects

1. The Profile of mental health in Ghana.
2. Usefulness of routine data collected on patients in Ghanaian Mental Hospitals.
3. Annotated bibliography of publications on Epilepsy in Ghana.

DEPARTMENT OF SOCIOLOGY

Overview

In the academic year 1998/99 the Department managed to make improvements in its Library facilities. The Sociology Library which had for a long time deteriorated in structure has now been renovated and re-furbished with assistance from well wishers. Notable among them is Prof. Margaret Grieco of the University of North London, external Examiner of the Department, who paid for the cost of the renovation. The University provided new furniture and air-conditioners making the Library one of the most comfortable on the campus. The self help spirit caught on with the Sociological Students Association (SOSA) who in turn provided a beautiful Notice Board in front of the library for students.

The teaching staff increased by one with the appointment of Dr. M. K. Yeboah. There are more applicants in the pipeline so it is envisaged that the staffing situation will improve in the coming year. In Social Work, the existing staff complement of three full-time and seven part-time lecturers was joined by Dr. Mvilongo from Laurentian University, Canada, on a one year sabbatical during the first semester. Unfortunately, Dr. Mvilongo became ill and was unable to complete the second semester. Ms. Sossou took two year study leave to complete a Ph.D in the United States while Ms. Laird was appointed as Coordinator of Social Work in her absence.

During this academic year the Social Work Unit hosted a three-day national workshop inviting a cross-section of NGOs and Government Agencies to discuss their training needs. This workshop identified the knowledge base and skills requirements for practice in the areas of social welfare and social development. The report of the workshop formed the basis for ongoing work to develop relevant curricula for a Masters Degree in Social Work. The workshop was joined by Prof. Mathis and Dr. Simmons from the Institute for African Social Work, Temple University, Philadelphia. It has been agreed to set up a collaborative relationship between our institutions focusing on the development of an African-centred model of social work and an exchange of faculty. This is presently being formalised.

The Association of Students for Social Work obtained approximately 6,000,000 cedis from the UNFPA for a three week AIDS/HIV awareness campaign from 21st April to 14th May 1999. Their activities included radio programmes, seminars and culminated in a float through Accra. This activity has undoubtedly been successful in raising the profile of social work within the University.

The Social Work Unit ended its 1998 40th Anniversary celebrations with a Dinner Dance at the Shangri La Hotel on 20th December. This was attended by the Deputy Minister of Employment and Social Welfare Mrs. Ama Benyiwa Doe together with many representatives from NGOs and Government Agencies.

General Comment

As is true for many other Departments, lack of resources in terms of funding, staff, library materials, computer and Internet access continues to hamper effective research, conference attendance and teaching. This context makes it particularly necessary that Sociology and Social Work develop partnerships with other agencies, which will assist to build capacity within the Department.

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, Prisons Administration, and Police Administration. Postgraduate 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 Masters programme in Social Work is envisaged. Lack of office space and lecture rooms continues to be a problem in Social Work. Any additional staff members will have to share offices with others in the present situation while the increased members of students mean that many classes can no longer be accommodated in the social Work Lecture Room.

(a)	Sociology Under-graduate				
					No
	Level	100	...	...	322
	Level	200	...	...	386
	Level	300	...	...	374
	Level	400	...	...	<u>214</u>
	Total				2296
	Post Graduate		...	...
	Ph.D		...	...	5
	M.A./M.PHIL		...	...	16
	GRAD. DIPLOMA		...	...	<u>5</u>
	Total		...	...	26
(b)	Social Work Under-graduate				
	Level	200	...	...	100
	Level	300	...	...	90
	Level	400	...	...	<u>85</u>
	Total				275
(c)	Diploma in Social Administration				
	Year	I	...	...	25
	Year	II	...	...	21
	Total				46
(d)	Diploma in Prisons Administration				
	Year	I	...	...	13
	Year	II	...	...	<u>9</u>
	Total				22

From other Departments		
Occasional	...	26
Networking	...	23
Home Science	...	4
		<u>53</u>
Grand Total:		<u>1,713</u> Students

Student numbers for 1998/1999 academic year

The Department of Sociology with Social Work continued to attract many students for both the degree and diploma courses. Student enrollment to sociology graduate studies have increased especially at the Ph.D and MA/ M.Phil levels. In Social Work, approximately 175 students applied to move from level 100 to level 200 Social Work. Due to resource constraints the Unit was only able to admit 25 from level 100 and 25 students from outside the University. In respect of the entrance examination for Diploma in Social Administration, 281 candidates sat for the examination and of these only 25 could be accepted due to lack of space and another 25 were put on waiting list for the following year.

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:

A. Senior Members

1. Prof. Nana A. Apt (Head of Department)
2. Prof. J.M. Assimeng (Sabbatical)
3. Prof. G.K. Nukunya
4. Mr. E.H. Mends
5. Dr. C.R.K. Abotchre (Co-ordinator, Police Admin.)
6. Dr. Y. Yangyuru (Co-ordinator, Prisons Admin.)
7. Dr. K. A. Senah (Sabbatical)
8. Dr. K. Ohene-Konadu
9. Dr. C.K. Fayorsey
10. Ms. Marie-Antoinette Sossou (Study Leave)
11. Dr. C. Agawu (Leave of Absence)
12. Ms S.E. Laird (Co-ordinator, Social Work)
13. Mr. T. K. Richardson
14. Mr. P.K. Abrefah
15. Dr. M.K. Yeboah

Senior Staff

1. Mrs. Vicky O. Ayiku
2. Mrs. Millicent Acheampong (Study Leave)
3. Mrs. Comfort Agbodaze
4. Mr. Vincent Donkor (Study Leave)

Junior Staff

1. Ms. Margaret Abiagbenyo
2. Mr. Thomas Annang
3. Ms. Josephine Atandzi
4. Mrs. Zenabu Petula Kobatu
5. Ms. Edith Kosipa
6. Mrs. Joyce Darkwah
7. Ms. Rosemary Okai
8. Mr. Edward Appaih -Som
9. Mr. Solomon Takyi
10. Mr. Emmanuel A. Komey

Research and Publications

Senior members have managed to combine heavy teaching with research, publications and public service.

The profile for 1998/99 was as follows:

Apt. Araba Nana

Books & Chapters Publications

- Ou est passe UBUNTU? (where has UBUNTU Gone?), in Jasmin et. al (editors) Longevite et Qualite de Vie. Institut Synthalabo, Paris, 1999. pp. 290-302.
- Maintaining the Momentum of Beijing. (Editor and contributor) Ashgate Aldershot. 1999.
- Protection of rights of older persons. In Ageing and Health: A global Challenge for the 21st Century. WHO. Kobe 1999 pp 129 - 138.

Internet Articles: 1998/99

- Preserving social knowledge: integrating the social wisdom of older persons into modern African schoolroom.
<http://www.unl.ac.uk/developmentmgt/seniorse/ageing.htm>
- Managing the time: gender participation in education and the benefits of distance education information technologies.
<http://www.unl.ac.uk/developmentmgt/elededu/asynchro.htm>
- Gender and agriculture in Africa: the 'expert' neglect of local practice.
<http://www.unl.ac.uk/developmentmgt/femalefa/gen&agri.htm>
- Users not Losers: gender representation in transport design and operation.
http://www.unl.ac.uk/developmentmgt/womenont/gen_tran.htm

Conferences and Working Papers

- Child Abuse and Neglect: Voices of Ghanaian Children. Ministry of Employment and Social Welfare celebration of International Day of Families. Accra, 15 May 1998.

- Violence against Women: a Sociological Perspective. Conference of Ghanaian Association of Obstetrics and Gynaecology, Accra, May 10-13 1999.
- The Ghanaian Family Under Stress, Families Together? UNFPA Workshop, Accra, June 12-16, 1998.
- Rural Ageing: Evidence from Ghana. Conference on Rural Ageing, University of West Virginia and UN International Year of Older persons, Shepherdsville, U.S.A. August 1999.

ayorsey, Korkor Clara

Research Activities

- Factors Affecting the Safe Delivery of IUD Services in Ghana, AVSC International and Melon Foundation Cross National African Initiative June, 1998.
- Men as Partners in Reproductive Health, AVSC International Programme Development in Ghana August, 1998.
- Adolescent Reproductive Health in Ghana, UNFPA/BILL Gates Foundation ARH Programme Development in Ghana, June 1999.

Publication

- Poverty and the Denial of the Ghanaian Child's Basic Human Rights, C/SPS Policy Brief No.3 ISSN 0855-3726, May 1999.

Extra Curricular Appointment

Appointed Member of the Ga-Adangme Council and Chairman of Heritage Committee.

Conferences

- September 1998, Reproductive Health Issues, Policy and Implementation Strategies in Ghana. Keynote address presented at GRMA's International ARH Workshop for the Akwapim South held at Nsawam Catholic Conference Centre on 28th September 1998.
- August 1998, Men as Partners in Reproductive Health. Assessment of Reproductive Health knowledge and Practice in Ghana. Paper presented at AUSA International Workshop on men as Partners in Reproductive Health held at Elimina Groove Hotel, Cape Coast.
- June 1998 "I am Suffering Mum" - Poverty And the Denial of the Ghanaian Child's Basic Human Rights. Paper presented at the Centre for Policy Studies monthly seminars, University of Ghana, Legon.
- May 1998 Families: Educators and providers of Human Rights. Keynote Address in commemoration of the United Nations International Day of Families. Presented at the GNAT Hall, Accra 19th May Organized by the Ministry of Employment and Social Welfare.

Dhene-Konadu, K

Research Activities

- Integrating Socio-Economic and Environmental Issues into Mining Sector Development in Ghana: Lessons Learned and the Way Forward.

- Commissioned by the Minerals Commission of Ghana and the World Bank, 1999.
- Drug Abuse Among the Youth No. 2 Centre for Social Policy Studies (CSPS) University of Ghana, Legon, March, 1999 ISSN 0855-3726.
- Abotchie, C.R.K.
- "Ewe Legal Processes and Institutions" in Agbodeka, F. (ed) A Handbook of EweLand, Vol. 1 Accra, Woeli Publishing Services.
 - "Crime Prevention Strategies in Britain: Relevance for Ghana" in The Police Journal (U.K.) Vol. LXXII No. 3 July - September, Pp. 237 - 246)
- Yangyuoru, Y.
- Social Psychology: A Textbook for Distance Education (Forthcoming)
 - An Environmental Health of the Greater Accra Metropolitan Area (Ghana), Ghana Stockholm Environmental Institute, Forthcoming (with Songsore et. al.)
- Laird, E.Siobhan
- "Remedial Casework or Social Development: The Dilemma for African Practitioners" Professional Social Work July 1999.
 - "Social Work in Sub-Saharan Africa: Its Failures and Possibilities" Paper delivered at IVS-ISN" International Symposium "Social Development for The New Millennium" 4th - 8th July Cape Town, South Africa.

INSTITUTES

INSTITUTE OF ADULT EDUCATION

Overview

The year under review marked the 50th anniversary of the Institute. Whilst various formal and non-formal adult education programmes were offered country wide, the need to re-vision the Institute and re-double our efforts at raising additional funds to equip the Institute adequately became very apparent.

Another disturbing observation was that large numbers of qualified applicants had to be turned away because of inadequate academic facilities at the Institute. In spite of the above constraints it could be said that modest gains were made in all aspects of the Institute's work.

Staff

Fifteen academic staff were at post during the year just ended. Of this number, six were based at Legon whilst the rest were stationed at regional capitals throughout the country from where they supervised the Institute's Workers' Colleges and field operations and also assisted with teaching at Legon. One senior member was expected back shortly, after completing doctoral studies at the University of Reading. One professional senior member was at post whilst another was on local study leave.

Courses

The Institute continued to teach its own discipline, Adult Education at the Certificate, Diploma, Master of Arts, Master of Philosophy and Doctoral level. The Institute's two doctoral candidates, one of whom was a member of staff, continued their research work.

Student Numbers

A breakdown of enrolment for the courses were as follows:

Programme	Male	Female	Total	
Certificate	12	7	19	
Diploma I	21	7	28	
Diploma II	19	5	24	
M A	6	3	9	

M.Phil	3	1	4
M.Phil	6	3	9
Ph.D	1	1	2
Total	68	27	95

The year under review also saw very significant expansion in student enrolment at the External Degree Centre at the Accra Workers' College. From all indications, the Centre is playing a very important role in facilitating the University's goal of providing access to all qualified individuals to obtain academic and professional qualifications through part-time study. Over the last four years, the number of students at the External Degree Centre has increased more than ten fold, from 64 in 1995/96 to 620 in 1998/99. The Centre was also responsible for organising "Mature" Students Preliminary Selection Examination on behalf of the University.

Other formal courses organised at the Institute's regional and district centres included Senior Secondary School remedial and three-year programmes and professional courses in accountancy, marketing and secretarial studies.

Non-Formal Programmes

In line with the Institute's goal of bringing continuing educational opportunities to the doorstep of every Ghanaian, various development oriented programmes targeting communities and specific interest groups were organised in all the regions. Gradually, each region, in addition to the formal programmes, appears to be specialising in specific areas of programming. For example, the Volta, Upper West, Volta, Eastern and Central Regions thrust of activities are centred on Women and Youth development programmes in the areas of pottery making, (with new environmentally friendly techniques), bead making, leadership training and skills training for income-generation. The Western, Brong-Ahafo, Ashanti, Upper East and Northern regions among other things have been collaborating with district assemblies in the area of human resource development to boost revenue mobilization.

Other non-formal adult education programmes and projects were implemented as follows:

Strengthening Mass Media Support for Adult Population Education (SMMSAPE) Project

The Population Education Unit continued to implement IE and C activities outlined for the second project phase titled Strengthening Mass Media Support for Adult Population Education with financial assistance from the United Nations Population Fund (UNFPA) and the government of Ghana. Furthermore, the Project undertook advocacy activities, aimed at enhancing the achievement of project goals through sensitisation of community/opinion leaders in the project areas to create awareness for project sustainability. Similarly, District Assemblies were targeted with sensitisation programmes to solicit their co-operation in the provision of political and financial support for the Community-based Distribution (CBD) programme.

Some of the problems identified during the period under review included the unco-operative attitude of some health providers who refused to recognise the role of LAE-trained CBD agents as supplementing theirs, and a noticeable drop-out level of CBD agents caused by transfers to other areas.

The Initiatives for Conservation in Northern Communities: Entrepreneurship, Resources and Training Programme

The project which commenced in April, 1998 replaced the Ghana Environmental Management Literacy Project (GEMLP). Under the acronym, Ghana-Canada In-Concert the 5 year-project will focus on institutional capacity building education for land/water/forest resources management in 40 communities in Northern Ghana as well as socio-economic development programmes aimed at providing knowledge and skills in entrepreneurship for participating communities. Once more the Institute of Adult Education in collaborating with the Lakehead University, Confederation College both of Canada and the Institute of Renewable Natural Resources of KNUST, with funds provided by the Canadian International Development Agency (CIDA).

Community Newspapers

The period under review saw a significant increase in the number of rural newspapers produced by the Institute for and with partner communities in the catchment area of the population project.

The additional local language newspapers launched during the period are: Kelenlen (Sisali), Sampana (Buli), Dawuro (Akan), Naŋatan (Kusaal), and Lato (Dagaare).

Annual New Year and Easter Schools

The 50th Annual New Year School was held at Commonwealth Hall, University of Ghana from 28 December, 1998 to January 4, 1999. The theme for the School was 'Education for Development: Challenges for the 21st Century'. The Keynote Address on the same topic was delivered by Prof. George Benneh, former Vice-Chancellor of the University of Ghana. Other topics discussed at the School included:

1. The Educational Reform Programme in Ghana: An Assessment.
2. Tertiary Education in Ghana.
3. Modernising Agricultural Practices to Meet the Demands of the 21st Century.
4. Reducing the Incidence of Poverty in Ghana: The Realities.
5. The Mass Media and the Enhancement of a Democratic Culture in Ghana.
6. Environmental and Public Health Education: The Way Forward.

Ten study groups discussed the following sub-themes of the School:

1. Entrepreneurship Development in Ghana.
2. Education for Participatory Democracy and Good Governance.
3. Developing Self-Help Spirit in Communities.
4. Increasing Access to Education Through Open and Distance Learning.
5. Enhancing the Status of Women.
6. Environmental and Public Health Education.
7. The Mass Media and the Development of a Democratic Culture.
8. Improving Agricultural Practices in Ghana.
9. Population and Family Life Education.
10. Enhancing the Tourism Potential of Ghana.

The programme was modified and replicated as the Northern Easter School at Navrongo in the Upper East Region from 5th-10th April, 1999.

Collaboration

The IAE continued to collaborate with other adult and continuing education oriented organisations, both local and foreign-based. Notable among these were the Ministry of Education, Ghana National Association of Teachers (GNAT), the Ministry of Youth and Sports, National Population Council (NPC), the Trades Union Congress, the National Commission on Civic Education and various non-governmental organisations.

Our external collaborators were the Institute for International Co-operation of the German Adult Education (IIZ/IDVV), United Nations Population fund (UNFPA), the Danish International Development Agency (DANIDA), the Commonwealth of Learning (COL), the Commonwealth Youth Programme (CYP), the Canadian International Development Agency (CIDA) and the Simon Fraser University.

Research

Dzakpasu, C C K. and
Kusi Nkrumah, K.

People's Perceptions and Expectations of the Institute of Adult Education after 50 Years of its existence.
Tracer Study of past students of the IAE's academic programmes.

Amedzro, A K

The socio-economic activities of the People of Shama Kedzi.

- Aggor, R.A. - Challenges of integrating distance Education into Ghana's education system
- Siabi-Mensah, K. - Ghana: The use of Radio in the National Literacy and Functional Skills Project in The Volta and Northern Region.
- Aryee, E.A. - A study of the nature and extent of poverty among Ghanaian workers in both the formal and informal sectors of the economy.
- Oduro-Mensah, D. - Project management procedures of rural communities.
- Development of training manuals for revenue mobilization and poverty alleviation.
- Badu-Nyarko, S. - Factors promoting adult continuing education in Ghana.
- Adjei, F.G. - Community-based distributors in Population education.
- Kwasi, H.B.K. - Educational needs assessment for Alumni of the University of Ghana in the Volta Region.
- Performance appraisal for participants in DWSSC training programmes.

Publications

- Dzakpasu, C.C.K. - Traditional Adult Education in puberty and Nugbetor ceremonies among the Dzodze-Ewe, Ghana Journal of Literacy and Adult Education, University of Ghana Press, Legon (in print).
- The University and Adult Education, with particular reference to the Institute of Adult Education, Ashanti Region(in print).
- Amedzro, A.K. - Field guide on non-formal education for integrated pest management, FAO/UNDP, Accra, 1999.
- Evangelical Presbyterian Church, Ghana Sekondi-Takoradi:70 Years of Evangelism. RAKA Printing Press, Accra, 1999.
- Siabi-Mensah, K. - The Shifting development paradigm from modernisation to decentralisation: What are the implications for adult education? With Rosemary Closson, North Carolina Agricultural and Technical State University and Paul Mavima, Florida State University. An Occasional Paper, 1999.

Conferences/Seminars/Workshops

- Dzakpasu, C.C.K. - National Consultative Council Seminar on Ghanaian Languages. Feb. 1999.
- Social Mobilisation in Health and Development Workshop, UNICEF/School of Public Health, University of Ghana. May, 1999.
- Roundtable meeting of Stakeholders to draw up a Five Year Strategic Plan for the Environmental Protection Agency (EPA). September, 1999.
- Amedzro, A.K. - "The Role of Front-line Supervisors in Industry", Ghana Cement Factory, Takoradi. 11th-14th June, 1999.

- "Non-formal Education for Global Integrated Pest Management Programme" Weija (FAO/UNDP Sponsored). 4th September.
 - "Effective Community Mobilization for Gender Participation and Monitoring, Evaluation and Reporting" (Water Sanitation Project) Workshop, Tsito 23rd November-5th December 1998.
 - "Effective Revenue Mobilization towards Sustainable District Assembly Concept" Juabeso Br. 25th-28th August 1999.
 - "The Role of Political Parties in the Sustenance of Political Tolerance in the Next Millennium" (NCCE Sponsored). 24th September 1999, Takoradi.
- Aggor, R.A.**
- Pan-Commonwealth Forum on Open, Flexible and Distance Learning. Brunei, 26th February-7th March, 1999.
 - Surviving as a Distance Education Student. Paper delivered at the Ghana Military Academic and Training School, Accra. June 1999.
 - Consultative Meeting, Department of Continuing Studies, (Centre for Distance Education), Simon Fraser University, Canada 25th August-11th September, 1999.
- Siabi-Mensah, K.**
- Commonwealth of Learning meeting on "The Distance Learning in Non-formal Education Research Project" 9th-16th May, 1999.
 - Association for the Development of Education in Africa, Working Group on Non-formal Education Seminar, Ouagadougou, Burkina Faso, 10th-17th July, 1999.
- Oduro-Mensah, D.**
- "The Institute of Adult Education and the Development of Brong Ahafo Region". Paper read at workshop of the Regional Coordinating Council, Sunyani, January 1998.

Benefactors

The government of Ghana continued to provide financial support to the Institute. The Institute received from the UNEPA 2 Toyota Land cruiser cross-country vehicles as well as computers and audio-visual equipment whilst the Institute for International Co-operation of the DVV provided funds to support the Institute's academic and field work programmes. The Valco Trust Fund also donated a quantity of books to the library of the External Degree Centre (Accra Workers' College).

INSTITUTE OF AFRICAN STUDIES

Introduction

At the beginning of the 1998/99 academic period, Dr. (Mrs.) Irene Odotei was appointed Acting Director of the Institute, replacing Professor George P. Hagan whose tenure of office ended on 30th September, 1998. The Institute continued to carry on its main functions of research and teaching in the areas of History, Societies and Cultures, Religion and Philosophy, Language and Literature and Drama, Politics of Africa, and Women and Gender Studies. In addition, Fellows participated in many workshops and conferences in Ghana and abroad around issues of culture, health, the environment, gender, development and social change in Africa. For the first time, the Institute also developed a Strategic Plan that would inform its patrons and clientele both local and foreign, about the services the Institute provides.

Staffing position Senior Members

There are 13 Senior Members at post in the Social Sciences and 12 in the Humanities. Out of these, 9 or 36% were female, while 16 or 64% were males. Two new Senior Members, Dr. A.A. Agordoh, Research Fellow and Mr. Benjamin Obido Ajetey, Tutor, joined the Institute. Two other Senior Members, Professor Takyiwaa Manuh and Dr. Brigid Sackey rejoined the Institute after successful completion of their Ph.D. programmes in the USA. Professor Christine Oppong, sometime Senior Research Fellow also rejoined the Institute as Professor of Applied Anthropology, after many years as a Senior Programme Officer with the International Labour Organization in Geneva.

Professor Mary Esther Kropp-Dakubu, a former Deputy Director, rejoined the Institute on post-retirement contract from the Language Center, while Professor George P. Hagan began a two-year post-retirement contract in October 1998.

Senior Staff

There are 26 Senior Staff in the Institute.

Junior Staff

There are 57 Junior Staff, including 31 from the Ghana Dance Ensemble.

Courses

Level 200/FUE Course in African Studies

- AFST 200 Appropriate technology for Rural Development in Africa
- AFST 210 The Social Framework of Economic Development
- AFST 220 Africa in the Modern world
- AFST 230 Culture and Development in Africa
- AFST 240 African Heritage through Literature
- AFST 250 African Popular Culture: Traditional Festivals and Funeral Ceremonies
- AFST 260 Language Proficiency

AFST 270 African Music
AFST 280 African Dance
AFST 290 African Drama

MA/MPhil. Courses

AFST 601/602 Research Methods I & II
AFST 603/604 Theories and Strategies for Development in Africa I and II
AFST 605/606 Government and Politics of Independent African States I and II
AFST 607 African Oral Literature
AFST 608 African Written Literature
AFST 609 Drama in African Society
AFST 613 African Social Systems
AFST 614 African Political Systems
AFST 615/616 Religions of Africa Part I and II
AFST 617/618 Music in African Cultures
AFST 621 African History I, Historiography and Methodology
AFST 623 The Slave Trade in Africa
AFST 622 Ghana Since 1945
AFST 626 Colonial Rule and African Responses
AFST 631 Gender and Society in Africa
AFST 632 Culture, Gender and Development in Africa

Student numbers

326 students registered for the Level 200/FUE African Studies Courses.
30 students were admitted into the MA/M Phil programme. There were also 45 continuing students, 15 visiting students and 25 occasional/affiliate students.

Staff/Graduate Seminars

In the course of the year, the Institute organised staff and graduate seminars covering the various aspects of the Institute's teaching and research programmes. Topics/themes covered included: - "The Asato Music of Larteh Akwapim: A Study of the History, Roles and Forms of Larteh Asato Music;" - "The Presbyterian Church of Ghana and the Issue of Women's Ordination;" - Strategies for the Development of the Nanumba District: A Case Study of Bimbilla and Klulensi;" "Rites of Passage in the New Independent African Churches in Ghana: A Case Study."
Seminars were also presented by Professor Esther Goody of Cambridge University and Professor Bruce Berman of Queen's University, Kingston, Ontario, Canada.

Publications

Kropp-Dakubu, Mary I. - 1999 'Teaching English in Ghana'. In Proceedings of a Workshop for 1st Cycle Teachers held by the Ghana English Studies Association at Cape Coast University, 1997, Accra. Sedco Publishers.
1998a 'The African Writer and the English Language'. In Working Papers in Language Teaching 2: 12-20.
1998b. 'Ideophones in Dangme and their Place in Linguistics Semiotics'. In Papers in Ghanaian Linguistics 11: 1-18

- Okai, Atukwei - 1999 "Crossing the Rubicon of Time and Double Crossing the Guillotine of Time", published in *African Renaissance*, (ed. By M.W. Makgoba) Mafube and Tabelberg Publishers, Cape Town, South Africa, 1999, p. 359-363.
- 1998a Poem "Rosimaya" published in the *Sunday Independent*, Johannesburg, South Africa, November 28, 1998, p.16.
- 1998b Performed the poem "The Bond Oath of Ubuntu", at the State Banquet hosted by President Nelson Mandela in honour of the Chilean President at the State House, Pretoria, South Africa.
- Sackey, Brigid - 'A Protestant Ethic Among the Akuapem? A Reflection', Universitas, University of Ghana, Legon (Forthcoming).
- 1999 'Recognising Positive Imagery about Women in Mythology: A Re-interpretation of an Akan Myth of Separation'. In *Perspectives on Mythology* edited by Esi Sutherland-Addy, Accra: Goethe Institute Publication.
- 1998 'Asafo and Christianity: Conflicts and Prospects', Transactions of the Historical Society, University of Ghana, Legon, N.S. 1(2).
- Akrong, Abraham Ako - 1998a 'The Witchcraft Mentality in the New Charismatic Churches' in John Kirby (edit.), *Witchcraft and Ministry*.
- 1998b 'African Culture and Worship in the Presbyterian Church of Ghana', Seminar on Church Music, ICMD.
- Oppong, Christine - Her current writing has included work on a book on infant malnutrition in the African region entitled *Smiling Infants or Crying Babies*.
- Manuh, Takyiwaa - 1999 'The Experience of the Development and Women's Studies (DAWS) Programme at the University of Ghana'. In *Proceedings of the International Workshop on 'Strategies for Building Research Capacity among Women at Tertiary Institutions in South Africa'*, Pretoria: Human Sciences Research Council.
- 1998a 'Diasporas, Unities and the Marketplace: Tracing Changes in Ghanaian Fashion', *UCLA Journal of African Studies* 16.1 (Winter): 13-19.
- 1998b *Women in Africa's Development*, Briefing Paper, Africa Recovery No.11 (April), United Nations Department of Public Information.
- 1998c 'Ghanaians, Ghanaian-Canadians and Asantes: Citizenship and Identity Among Migrants in Toronto' *Africa Today* 45 (3-4) 481-494.
- Boaten I, Barfuio Akwasi Abayie - 1999 *Kotokohene Opoku Ware II*, Kwajanso Publication/Media Design.
- Brempong, Owusu - (Forthcoming) 'Libation in Highlife Songs' *Research Review*, Vol.15, No. 1
- 1998 'Oral tradition in Ghana: The History of Bonokyempim and Techiman Politics' *Research Review* No.13
- Amanor, Kojo - 1999 *Global Restructuring and Land Rights in Ghana: Forest Food Chains, Timber and Rural Livelihoods*, Nordic Institute of African Studies, Research Report 108, Uppsala.
- 1998a (With N.A. Kotey, J. Francois, J.G.K. Owusu, R. Yeboah, and L. Antwi.) *Falling into Place. Policy that Works for Forests and People* Series no. 4, Ghana Country Study, London IIED.

- 4
- 1998b (With Joe Annan) 'Linkages between Decentralisation and Decentralised Cooperation in Ghana', for European Center for Development Policy Management, Maastricht.
 - Ampofo, Akosua Adomako
 - 1999 'Nice Guys, Condoms and Other Forms of STD Protection: Sex Workers and AIDS Protection in West Africa'. In Becker, Charles Dozon J.-P., Obbo C. et Toure M. (Eds.), *Vivre et Penser le Sida en Afrique/ Experiencing and Understanding AIDS in Africa*. Paris: Codesria, IRD, Karthala, PNL.S; index, 561-590/559-588
 - Quarcoo, S.S.
 - 1998a 'Municipal Administration At Accra' Research Review (N-S) I.A.S. University of Ghana, Legon Vol. 14 Nos 1&2.
 - 1998b **Social Impact of Urbanisation: The Case of the Ga Mashie of Accra'** Transactions of the Historical Society of Ghana (N-S) University of Ghana Vol. 2.
 - Odotei, Irene
 - (Forthcoming) **Gender And Traditional Authority In the Artisanal Marine Fishing Industry In Ghana** Research Review (N-S) I.A.S University of Ghana

Conferences/Workshops

- Kropp-Dakubu, Mary Esther
 - 1999a Linguistics Association of Ghana, Legon 8-9 January, presented a paper: 'Dangme Verb Features'
 - 1999b 2nd Gur Colloquium, Cotonou 29 March-1 April. Presented a paper: 'The Particle *la* in Gurene' (in press)
 - 1999c Ghana English Studies Association, Winneba 20-21 August. Attended as editor and member of the Executive of the Association.
 - 1999d Workshop on Lexicography, NUFU Linguistics Project, Legon, 5 March and 15 April. Led the discussion on both occasions.
 - 1998 Workshop on Lexicology, NTNU Trondheim, 8 December. Presented a paper 'A Proposal for a Syntax-Sensitive Verb Entry Format'.
- Okai, Atukwei
 - 1999a Attended the Third International Literary Symposium on 'Theatre and the Media', Dakar, Senegal, (May).
 - 1999b Keynote address at the Alexander Pushkin Bicentennial Jubilee evening, Accra (May).
 - 1998a Organiser and Chair of the programme. In the Laboratory of an African Creator: An Evening with Edward Ayensu' organised by the Pan African Writers Association, Accra, (November).
 - 1998b Participated in 'Writing Lives, A Celebration', marking the 75th birthday of Nadine Gordimer, South African Nobel Laureate for Literature.
 - 1998c Keynote address to the Annual Banquet of the Enterprise Development Forum, on the theme, 'Dedication to the African Renaissance: Crossing the Rubicon of Time and Double Crossing the Guillotine of Time', at the Vodaworld, South Africa, (November).
- Sutherland-Addy, Esi
 - 1999a Chaired 'The National Forum to Share Learning on Good Educational Practices' organised by the Ministry of Education, Ghana Education Service and USAID in Accra (April).

- 1999b Participated in the Distance Education Conference organised by the Commonwealth of Learning in Brunet, Darussalam. (March).
 - 1999c Keynote address at the 'FAWE Sub-Regional Preparatory Workshop Towards the General Assembly' Accra. (March).
 - 1998a Presented paper, 'African Women in Higher Education. Issues, Barriers and Strategies' during the World Conference on Higher Education in Paris, France. (October).
- Sackey, Brigid
- 1999a 'Giving Quality Lives to our Families. Enhancing Government's Performance. A Woman's Perspectives on the Cultural Dimension of Development'. Paper presented at the Second International Conference on Public Management and Development Administration. An International Dialogue. Accra, Ghana July 24-August 4.
 - 1999b Seminar on African Concept of Consciousness. Participant, round table discussion. Department of Philosophy, University of Ghana, July 14.
 - 1999c Workshop on Test and Examination Writing. Legon, University of Ghana. June.
 - 1998a Asafo Workshop. Institute of African Studies. University of Ghana. November.
 - 1998b Workshop Unesco-Ethnonet African Project. Royal Hotel, Yaounde Cameroon. August 31-September 4.
- Akrong, Abraham Ako
- 1999 'Ministry to Ethnic Congregations in the US'. April.
 - 1998a 'The Challenges of Youth Ministry in the Next Millennium' British Council, Accra.
 - 1998b "Chieftaincy, Religion and Change". Address to Chiefs of the Ga Traditional Area, Accra. Ghana.
 - 1998c 'Gospel and Culture'. Akrofi Christaller Center. Akropong.
 - 1998d 'Christian Responsibility in Microdisarmament in the West African Sub-Region' - A Paper Presented to the ECOWAS Heads and Government Meeting at Abuja, Nigeria.
 - 1998e 'African Christianity, Challenges and Opportunities' Union Theological Seminary, Virginia.
- Agordoh, A.A.
- 1999a 'The Musical Traditions of the EP Church, Past Present and Future' - paper presented to the 4th Theological consultation of the Six (6) member churches of the Bremen mission at Ho, February 23-26.
 - 1999b Paper on 'The Present State of Church Music in Ghana,' presented to Conference on Church Music organised by ICAMD on behalf of Presbyterian Church of Ghana, January 15-16.
- Amu, Misonu
- 1999a Participant, Four Bible Agencies/Bible Society of Ghana. Workshop on 'Sacred Music'.
 - 1999b International Centre for African Music and Dance.- Church Music Conference: Training Workshop for Choirmasters. Took participants through sight reading exercises and songs of various composers. (August 16-20).
 - 1999c 'Evangelical Presbyterian Church: 3rd Workshop for Choir Masters. Presented a paper on 'Sight Reading and Rhythm' (April).

- vianu, Ekyiwa**
- 1999a Resource Person, IDEP Specialisation Course on Agricultural Policy Analysis in Africa. Dakar, Senegal, June 7-18.
 - 1999b Presented a paper on 'Research and Information Needs on Mainstreaming Gender' at the 'Mainstreaming Gender Equality Workshop', GIMPA, Accra, May 4-5.
 - 1999c Workshop on 'Mainstreaming Gender in the Operations of the African Development Bank', Abidjan, Cote D' Ivoire, March 27-30.
 - 1999d Panelist at ABANTU for DEVELOPMENT Public Policy Forum on 'Gender Sensitive Strategies Towards Poverty Eradication' Accra, March 26.
 - 1999e International Workshop on 'Strategies for Building Research Capacity among Women at Tertiary Institutions in South Africa' Pretoria, South Africa, February 22-23.
- Boaten I. Bartuo Akwasi Abayie**
- 1999 Annual conference of the Pan-African Anthropological Association, Yaounde, Cameroon, September.
- Brempong, Owusu**
- 1998a 'The Genesis of Asafo Institutions: A Case Study of Bono-Techiman', Asafo History Workshop.
 - 1998b 'The Tools of Ethnographic Research', Paper presented at Workshop on National House of Chiefs research project , November 23, Abokobi, Accra.
- Amanor, Kojo**
- 1998 'Structural Adjustment and the Changing Political Economy of Land in West Africa' paper presented at Synthesis Conference on Structural Adjustment and Socio-economic Change in Sub-Saharan Africa at Center for Development Studies, Copenhagen 3-5 December.
- Adomako-Ampofo, Akosua**
- 1999a 'To Have or Not to Have a Child; Whose Decision, Hers, His or Theirs?' Annual meetings of the African Studies Association, 11-14 November, Philadelphia, Pennsylvania.
 - 1999b 'Who Wanted this Child? Gender and Reproductive Decision-Making among Urban African Couples', Annual Meetings of the Southern Sociological Society of America, 8-11 April, Nashville, Tennessee.
 - 1999c 'Whose Child is this? Hers or His?', Seminar presented to the Institute of Statistical Social and Economic Research (ISSER), February 23.
 - 1999d 'To Have or Not to Have a Child; Whose Decision, Hers, His or Theirs? Reproductive Decision Making among Urban Ghanaian Couples', Seminar presented to the African Population Policy and Health Research Center, Nairobi Kenya, January 20.
- Odotei, Irene**
- 1999 The Norwegian Council of Universities' Committee for Development Research and Education (NUFU) Gender Seminar at the University of Tromso from June 27-29.
- Research Projects - Fellows**
- Kropp-Dakubu, Mary E**
- In association with the NUFU-Legon Linguistics project, continued research on the syntax and semantics of the Ga and Dangme languages, and on the syntax of the Gurune language, and prepared a Ga-English dictionary for publication.

- Okai, Atukwei - Continued research on the impact of publishing on the literary world in Africa with research visits to South Africa, Mali and Senegal.
- Sutherland-Addy, Esi - The compilation of a 20 minute introductory video-biography on the life and works of Professor Kwabena Nketia entitled 'Kwabena Nketia: Music and Vision'; the coordination of the Ghana Committee of the Women Writing Africa Project, coordination of 'the Akan Medium Analytical text on Akan literature', funded by the University Research Fund Management Committee.
- Sackey, Brigid - Research into Religion and Development; Culture and Health Practices; Rites of Passage; Joint Project on the Funeral of the late Asantehene.
- Akrong, Abraham Ako - Subjects of research included The Issue of Salvation in African Christianity; Towards a New Paradigm in African Theology; Witchcraft Accusation - Another Way of Marginalising Women?; Cross-Cultural Research Methods with Special Reference to Gospel and Culture.
- Agordoh A.A. - Continued research on New Trends in Church Music in Ghana; The Ewe of Ghana: The People and their Musical Traditions.
- Odotei, Irene - Burial And Installation Of Asantehene Book Project; Funeral Of Okyehene; Women In Fishing Communities: Elmina; Video production of festivals in the Central Region; Picture Book on Asafo activities; Oral Tradition Of Ga Mashie, Osu, La, Teshie, Nungua, Tema, Kpone and Ningo People; New Technology In The Artisanal Marine Fishing Industry : Ningo.
- Quarcoopome, Samuel S. - Poverty And Survival Strategies In Central Accra: The Cultural Perspectives; Urbanization And Change In Accra; Non-Akan elements in Asante society evidenced by the burial and installation of the Asantehene.

Institute programmes and activities

The West African Museum Programme

The Institute launched the Sekondi-Takoradi Pilot Museum Exhibition in collaboration with the West African Museums Programme (WAMP) and the Ghana Museums and Monuments Board (GMMB) in March, 1999 to coincide with the activities marking the Golden Jubilee Congregation of the University of Ghana.

The Asafo History Project

The Project falls under the NUFU sponsored activities at the University of Ghana, Legon. Under the research training programme, one Ph.D. and two M.Phil candidates were selected. (Godwin Adjei- Music; Alex Wilson- Development, and Anthony Bugyei- History). Training takes the form of close personal supervision, short courses and seminars. Prof. Hernaes of the University of Trondheim who is active in the programme, made a major effort to revive the journal, The Transactions of the Historical Society of Ghana (THSG) and the 1998 issue of the THSG, with a special section on Asafo History, has been successfully published. The programme has acquired computers, tape recorders, reference books and office furniture. In addition, the programme acquired some equipment including lap top computers, air conditioners and solar powered lights.

The Street Family Project

One of the projects that engaged the attention of Fellows of the Institute in the 1998/99 academic year was the "Street Family Project", although the project was yet to take off. It was hoped that the Government through the Ministry of Finance would make funds available for the project to be undertaken.

The Ghana Dance Ensemble

The Dance Ensemble was the main arts and cultural spirit behind the 50th Anniversary Celebration of the University. Many Senior Members of the Institute and the entire staff of the Ghana Dance Ensemble participated in the following activities that were organized for the Golden Jubilee celebrations: Committee for the Planning of the Golden Jubilee; Academic Programmes Committee for the Celebration of the Golden Jubilee; Committee for recommending appropriate seats and robes for principal officers of the University; Committee for recommending an anthem for the University; Committee for the Mini-Congregation to award an Honorary Doctorate Degree to the late Asantehene, Otumfuo Nana Opoku Ware II. Unfortunately, Otumfuo Nana Opoku Ware II died before the mini congregation. The Dance Ensemble continued to play an important part in the African Studies Programme of the University especially in the teaching of the FUE/Level 200 courses by providing workshops for local and foreign scholars and visitors. The Ensemble premiered two major dance drama pieces amongst others. These were *Kusum Giboo* by Mr. Benjamin O. Ayettey and *Nonyelum* by Dr. Fidelma Okwesa.

The Music Section

The Sound Archives of the Section attracted the attention of scholars from both Ghana and outside. The Central Conservatory of Music in Ghana (through the Ghana Ministry of Foreign Affairs), Embassy of the Republic of Cote d'Ivoire and Radio Unvers (the Voice of Legon) were among those who visited the Archives in 1998/99. The University Choir under the direction of the Section acquitted itself credibly during the 1999 Congregation, which climaxed the activities of the University Golden Jubilee.

Grants and Benefactions

The Institute received a grant from the Ford Foundation to document the funeral of the late Otumfuo Opoku Ware II and the installation of his successor, Otumfuo Osei-Tutu II. The Institute moved personnel and equipment to Manhyia, Kumasi in March, April and May to do research, take pictures and film events. The research was also embarked upon to record and preserve the continuity and change in the burial and installation of Asante kings since 1970.

The Institute received two 27 KVA generating plants as a donation from the German Embassy in Accra. One of these is to be installed by the Institute at the IAS/Manhyia Archives in Kumasi.

The Institute embarked upon a rehabilitation of its chalets at South Legon in June, 1999. The work has been stalled by the delay in providing accommodation for the University staff staying at the chalets.

Seniors Members

Dr. Irene Odotei	-	BA.(Hons) Ph.D. (Ghana). Ag. Director
Prof. Takyiwaa Manuh	-	LL.B (Hons) (Ghana), LL.M (Dar-Es-Salaam), Ph.D (Indiana) Associate Professor, Ag. Deputy Director
Prof. Mary E. Kropp-Dakubu	-	BA (Quebec) MA (Penn) Ph.D. (London) Professor (on contract)
Prof. Christine Oppong	-	M.A. Ph.D Social Anthro. (Cantab.), M.A. African Studies. (Ghana). Professor
Prof. George P. Hagan	-	BA (London) MA (Ghana). B.Lit., D.Phil (Oxon) Associate Professor (on contract)
Prof. Nana Abayie Boateng I	-	BA (Hons), MA, Ph.D. (Ghana). Associate Professor
Dr. S. D. Asama	-	BA (Ghana), Ph.D (Wesleyan), LRSM (London) Senior Research Fellow (on contract)

Mr. Atukwei Okai	-	MA (Litt.) (Gorky), M.Phil (London) Dip. Tran. (Lumumba), Senior Research Fellow, Head, Language, Literature & Drama
Mr. F. Nii-Yartey	-	Diploma Dance (Ghana) MFA. (Illinois) Senior Research Fellow (leave of absence)
Dr. A. K. Awedoba	-	BA, MA (Ghana), D.Phil (Oxon), Senior Research Fellow (on sabbatical) ■
Rev. Dr. Samuel Quarcoopome	-	BA (Hons), MA., Ph.D (Ghana), Senior Research Fellow and Head, African History and Politics
Dr. Owusu-Brempong	-	BA (Iowa), MA., Ph.D. (Indiana), Senior Research Fellow and Head, Societies and Culture
Dr. (Mrs.) Brigid Sackey	-	MA (Marburg), Ph.D (Philadelphia), Senior Research Fellow, Head, African Religion and Philosophy
Mrs. Akosua Adomako-Ampofo	-	B.Sc, M.Sc. (UST), Senior Research Fellow
Mrs. Esi Sutherland-Addy	-	BA (Ghana), MA (Calif.), Research Fellow
Dr. Kojo Amanor	-	BA, Ph.D (London)
Rev. Dr. Abraham Ako Akrong	-	L.Th., BA (Hons) MA (Ghana), TH.M (Lutheran) TH.D (USA), Research Fellow, Co-ordinator, Graduate Seminars
Dr. A. A. Agordoh	-	BA, M.Phil (Ghana), Ph.D. Research Fellow
Mr. Kwame Amoah Labi	-	BA (Hons) (UST), M.Phil (Ghana) Research Fellow
Mr. Kwate Nee Owoo	-	BA (Hons) London, Film Production Associate Research Fellow
Ms. Misonu Amu	-	Dip. Music, M.Phil (Ghana), Tutor
Mr. Benjamin Obido Ayettey	-	Dip. Theatre Arts (Ghana), M.F.A. (Ariz.), Tutor
Dr. Kwadwo Kwabia	-	BA (Hons) (Ghana), M.P.A., D.P.A. (USC) Administrative Secretary
Mrs. Olive A. Adjah	-	BA, Dip., Lib. (Ghana), M.A. Library Studies (Liverpool) Assistant Librarian.

BALME LIBRARY

Introduction

The Balme Library once again was able to play its role as the centre of the academic business of the University. There were virtually no new major problems to disrupt its service despite the many constraints. The old problems persisted: overcrowding, inadequate book and journal supply, and understaffing. However, with good will from the University Administration and assistance from our traditional benefactors, we were able to carry on in stride as the following sections of the report show:

Library Board

The Library Board met two times; the first on 18th November, 1998 and the second on 14th April, 1999. Membership was as follows:-

Vice-Chancellor	-	Chairman
Prof. A. Baah-Nuakoh	-	Fin. C'ttee Representative
Prof. W.K. Asenso-Okyere	-	Fin. C'ttee Representative
Prof. Alan Duthie	-	Faculty of Arts Representative
Mr. K. K. K. Ampofo	-	Faculty of Law Representative
Dr. (Mrs.) L.A.P. Hevi-Yiboe	-	Faculty of Science Representative
Dr. S.K. Ofor	-	Faculty of Agric. Representative
Mr. S. Nii Tackie	-	Faculty of Social Studies Representative
Mr. D.B. Addo	-	Medical School Rep. He also represents Institutes and Schools.
Mr. G.O. Cofie	-	School of Administration Representative
Mr. S.N. Amanquah	-	Ag. University Librarian
Mr. A.K. Marley	-	Ag. Deputy Librarian
Mr. V.K. Fosu	-	Balme Library
Mr. Ben Egbem	-	Finance Officer's Representative
Mrs. A.K. Kwaa	-	Registrar's Rep./Secretary

There was no S.R..C. Representative.

Senior/Junior Staff

Appointments

The following new temporary appointments were made to fill some of the vacancies that had existed:

Mr. Alex Olosu Amponsah	-	Library Assistant
Mr. Ebenezer A. Quansah	-	Library Assistant
Mr. George N.A. Clerk	-	Prin. Lib. Assistant
Mr. Emmanuel Attiogbe	-	Junior Library Asst. Gd. III
Miss Rita Nimako	-	Junior Library Asst. Gd. III
Mr. Solomon W. Quartey	-	Junior Library Asst. Gd. III
Miss Shiela Borkai Kocke	-	Jnr. Lib. Asst. Gd. III
Mrs. Vivian Doe Teddy	-	Bindery Assistant Gd. II
Miss Vivian Asiedu	-	Bindery Asst. Gd. II

Promotion/Confirmation

The following members of staff were promoted in their grades:-

1.	Mr. Johnson K. Agbobli	-	Bindery Asst. Gd. I to Assistant Binder
2.	Miss Grace Mensah	-	Bindery Asst. Gd. I to Assistant Binder
3.	Miss Theresa K. Asare	-	Snr. Headman to Bindery Asst. Gd. II
4.	Mr. L.H. Donkor	-	Driver Grade II to Driver Grade I
5.	Mr. E.A. Asiedu	-	Snr. Lib. Asst. to Prin. Lib. Asst.
6.	Mr. J. Ayim-Boateng	-	Snr. Lib. Asst. to Prin. Lib. Asst.

Resignation

Miss Sethlina Adjotey vacated her post as Junior Library Assistant Grade II.
Mr. Edward A. Amoah, Jr. Lib. Asst. Grade III resigned from the service of the University.

National Service

The Balme Library had one graduate National Service person, Mr. Walter N. Kaba, who worked in Electronic Support Unit.

Staff Training

Mr. Reginald B. Sam and Mrs. A.L. Armah were granted study leave with pay to pursue M.Phil. in Library Studies at the Department of Library and Archival Studies, University of Ghana.

Messrs. E.A. Asiedu and John Ayim-Boateng resumed duty after successful completion of their M.A. in Library Studies programme.

Mr. Newtown Akrong, who was granted 2 years study leave without pay, resumed duty on 1st July, 1999 after completion of the B.A. degree course.

Messrs. M. Bediako, Humphrey N. Kotei and Christian K. Bubuama who were granted study leave to pursue Diploma in Librarianship and Mr. Seth N. Quarshie, Diploma in Archival Studies, have resumed duty after successful completion of their courses.

Miss Esther A. Quaye attended the 23rd Senior Technical Supervisory course at the Institute of Technical Supervision, Weija, from 10th January to 8th July, 1999.

Retirement

Mr. Godwin D. Asiagodo, Sub-Librarian, retired from the service of the University as from 1st October, 1999. He worked in the Library for 18 years.

Conferences/Seminars

Mrs. A.L. Armah and Miss M. Vowotor participated in and provided professional assistance to the Model Library at the 2nd Ghana International Book Fair mounted by Ghana Library Association from 2nd - 10th November, 1998 at the Ghana International Trade Fair.

The following attended the 3rd Seminar for Academic Librarians at University of Cape Coast from 15 - 17 September, 1999, and read papers:

- | | | |
|--------------------|---|--|
| Amanquah, S.N. | - | The Library Board/Committee: its role and function in the administration of academic libraries - the Librarian's view. |
| Martey, A.K. | - | Marketing products and services of academic libraries in Ghana. |
| Armah, Angelina L. | - | Sustaining automated systems in academic libraries - the Ghanaian experience. |

The Golden Jubilee Celebration - Balme Library Week

The Balme Library Week of activities to mark the Golden Jubilee Celebrations took two main forms:

- i. **Book and Photo Exhibition, from 20th - 26th March, 1999.**
 - ii. **Inter-Faculty Lecture, 4th March, 1999.**
- The **Exhibition** focused on University of Ghana publications. Prominently featured were theses and staff publications. The first Masters thesis and the first PhD. thesis awarded by the University were on display, and some others. Also on display were some well known publications of staff and the University's own official publications. Another feature was the display of publications tracing the history of the University of Ghana. On display were the reports of the Asquith and Elliot Commissions on Higher Education and so were the reports of the various educational reform committees set up by government. The photo exhibition concentrated on construction work on the Legon campus, many official functions and activities. Viewers came in their numbers.
- ii. Another landmark event was an inter-faculty lecture given by Mr. G.D. Asagodo, a sub-librarian of the library. His subject was "Management of a university library in a period of financial squeeze: a case study of the Balme Library". This was delivered on March 4, 1999 and chaired by the Dean, Faculty of Social Studies. Attendance was good.

Statistics

A. Reader's Services Department

New Registration

a.	No. of Senior Members registered	-	15
b.	No. of students registered	-	3,500
c.	No. of readers in other categories	-	20
	Total	-	3,535

No. of books borrowed during session

-	First semester	-	3,370
b.	Second	-	6,513
	Total	-	9,883

B. Orders Department

i. Books and pamphlets accessioned (in volumes)

a.	Purchased books and pamphlets	-	110
b.	Theses	-	127

c.	Gifts	-	1,414
d.	Legal Deposit	-	32
e.	Exchange	-	85

:

2. Periodicals (inclusive annuals) accessioned (in volumes)

Bound periodicals returned from bindery - 135

Total number of items accessioned - 2,030

Books and periodicals.

The grand total book-stock now stands at approximately 368,972.

The Department has created a database to indicate the titles and number of copies of books donated by the Rotary Club of Ghana.

3. Students' Reference Library

No. of volumes added - 81

No. of books borrowed: weekend - 14,893

And short term loans.

4. Africana Library

No. of volumes borrowed during the session were - 6,106

These included books borrowed from the open shelves, Rare Books Room and Reserve Collection.

5. Cataloguing Department

No. of volumes catalogued - 2,000

No. of volumes reprocessed - 16

The department has created a Template for the cataloguing of the Library's Theses using the Bibliofile. Theses are now being added to the Library's machine readable database.

Technical Services Unit

No. of books bound for Balme Library - 2,602

No of books bound for other sections of the university - 1,272

No. of Periodicals bound for Balme Library - 2,010

No. of Periodicals bound for other sections of the Univ.- 760

No. of pamphlets and photocopies bound	-	620
No. of items boarded	-	970
No. of Theses boarded	-	630
No. of volumes of newspapers bound	-	15
Total no. of items bound (books, periodicals, etc)	-	8,879
No. of items mended	-	610

Other services rendered during the session included printing of invitation cards and complimentary cards, embossing of books, bags and pens, invitation cards, cutting of library guide cards, lamination of identity cards and certificates; production of certificate scrolls, certificate folders, etc.

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 Services, Canadian Organisation for Development through Education (CODE) through Ghana Book Trust. Others were The World Bank, Book Aid International, Rotary Club of Accra, African Technology Forum and Brother's Brother Foundation.

Special mention must be made on an IBM Pentium Computer and one Hewlett Packard DeskJet 870 cxi laser printer donated by CAL Merchant Bank Limited.

We thank them all for their invaluable assistance.

CENTRE FOR SOCIAL POLICY STUDIES (CSPS)

Introduction

The year 1998/99 was very challenging for the Centre for Social Policy Studies. Though the Centre started the year with its full staff capacity, one position became vacant during the first quarter of the year, the post of the Documentation/ Information Officer and this vacancy will soon be filled.

Advisory Board

Prof. Ofori Sarpong (Dean-Faculty of Social Studies)
Prof. K. Asenso - Okyere (ISSER, University of Ghana)
Mrs. Alberta Quarrey (Ghana National Commission on Children)
Ms Dinah Dadzie (National Council on Women and Development)
Dr. (Mrs.) Henrietta Odoi-Agyarko (Ministry of Health)
Mr. George Laryea Adjei (National Development Planning Commission)
Mr. Seth Anipa (Ministry of Finance)
The Chief Director, Ministry of Local Government
Mrs. Bridget Katsiriku (Ministry of Employment and Social Welfare)
Mr. Eimar Barr (UNICEF)

Technical Committee

Prof. Nana Apt (CSPS, Legon)
Prof. A. A. Alemna (Library and Archival Studies, University of Ghana)
Mr. E. H. Mends (Dept. of Sociology, University of Ghana)
Prof. S.A. Danquah (Dept. of Psychology, University of Ghana)
Mrs. Dowuona-Hammond (Faculty of Law, University of Ghana)
Dr. O. Sakyi-Dawson (Faculty of Agric, University of Ghana)
Dr. Oware-Gyekye (ISSER, University of Ghana)
Mrs. Mercy Ackumey (CSPS, University of Ghana)

Finance Committee

Prof. Nana Apt (CSPS)
Prof. S. A. Nkrumah (School of Admin. University of Ghana)
Mr. E. T. Osabutey (Faculty of Social Science, University of Ghana)
Mr. Benjamin Egbem (Finance Office, University of Ghana)
Mr. Walter Ahadome (CSPS, University of Ghana)

CSPS Staffing

By the year ending of 1999 the core staff of CSPS were all at post except the **Documentation/Information Officer**.
The staff are as follows:

Director

Prof. Nana Apt.

Senior Staff

Mrs. Mercy Ackumey	:	Principal Research Assistant
Mr. Walter Ahadome	:	Accounting Officer
Ms Elizabeth Abena Prempeh	:	Principal Librarian
Ms. Mercy K. Atieku	:	Administrator
Vacant	:	Principal Organiser

Junior Staff

Georgina Osei	:	Senior Clerk
Charles Acquah	:	Technical Assistant
Solomon Frimpong	:	Messenger
Kofi Adu	:	Driver

Programmes and activities

Workshops, Seminars & Meetings Attended

Seminar for Parliamentarians on Ghana's Social Situation held at Miklin Hotel, East Legon

In line with its mandate of advocacy and information dissemination, CSPS held a one day seminar for parliamentarians to educate and inform them on pertinent social issues and their impact on the welfare of Ghanaians.

Parliamentarians from the Social Sector committees: Education, Environment, Science and Technology, Finance, Communication, Food and Agriculture, Employment and Social Welfare and Health, were invited. Others in attendance were: Members of the press, officials from the Ministry of Health (Nutrition Division) and staff of CSPS. The Chairman was Mr. Kofi Nyantakyi of the National Development Planning Commission (NDPC).

CSPS participated in the following workshops, seminars and meetings during the year:

Social Work Co-ordinating Group Meeting

The purpose of this group is to monitor and coordinate all on-going Child Welfare programmes. The group is represented by UNICEF, Save the Children Fund (SCF), Ghana National Commission on Children (GNCC), Ministry of Employment and Social Welfare (MESW), CSPS and the Department of Social Welfare (DSW).

National Consultative Workshop

National Consultative workshop on Early Childhood Care Development Policy for Ghana - organised by the Ghana National Commission on children. It was held from September 21-22, 1999 at the Golden Tulip Hotel. The main aim of the workshop was to finalise the Policy Document on Early Childhood Care and Development. Participants included public officials, Child Welfare NGOs and Donors. Prof. Nana Apt presented a paper on "The State of Early Childhood Care and Development in Ghana".

African Development Bank

A seminar on the African Development Bank's (ADB) Country Strategy Paper (CSP), was organised jointly by the ADB and the Ministry of Finance at the Accra International Conference Centre from November 1 and 2 1999.

The purpose of the seminar was to enable various stakeholders to participate in discussions relating to ADB's strategy and programming in Ghana for its next funding cycle 1999 - 2001. The areas of attention were agriculture and Rural Development, Private sector development, Human Resource Development and Regional Integration Policy Reform. Issues such as Governance, Poverty, Gender, Environment and Participatory Development were discussed.

Ghana Fiscal Decentralisation Project

A Ghana Fiscal Decentralisation Project (GFDP), consultative workshop was organised by the CIDA-funded Fiscal Decentralisation Project Office for selected District Chief Executives, District Budget Officers, District Directors of Administration Planning Officers. It was held from December 9-12, 1999 at Sunyani:

The workshop marked the second and last preparatory activity for the actual implementation of the GFDP. Participants were exposed to the different components of the project and the specific functions that they would perform under the project. A paper, "Mainstreaming Gender Equality in the GFDP" was presented by CSPS.

ILO International Programme

The ILO International Programme on the Elimination of Child Labour (IPEC) pre-implementation meeting was held on December 17, 1999 in the conference room of the Ministry of Employment and Social Welfare.

The discussion focused on IPEC strategies and its campaign to get governments to ratify convention 182 which deals with the elimination of the worst forms of child labour.

Integrated Human Development Programme (IHDP)

The overall goal of the IHDP is to assist the GOG to improve the living standards of poor people in selected target areas and Ghanaians in general. The first meeting of the IHDP was mainly a brainstorming session with representatives of other government and private organisations in the development field to discuss the establishment of the IHDP secretariat and its tentative implementation schedule.

Thematic Working Group on Poverty Reduction

The Thematic Working Group on Poverty Reduction has accordingly been reconstituted. The Group which is a policy and technical group will help focus attention on poverty reduction initiatives and also serve as a forum for resource mobilisation for poverty reduction.

The group has a cross-sectional representation from all the development partners, including public institutions, the private sector, NGOs, the civil society and the donor community. The inaugural meeting of the Working Group was held on the 16th of March, 1999 in the Conference Room of the National Development Planning Commission (NDPC).

Nutrition Profiles

A profiles computer software training workshop for nutrition policy analysis and advocacy was held from April 19-30 1999. Participants were drawn from the Northern, Brong-Ahafo, Volta, Ashanti, Eastern and Greater Accra regions of the country. As usual, the workshop closed with a computer generated presentation on the nutritional situation in the Greater Accra Region.

Networking and Collaboration

Working Group on Girls

The first inaugural meeting of the Ghana chapter of the coalition of Working Group on Girls (WGG) was held at CSPS on September 30 1999. So far the coalition is made up of representatives of welfare organisations such as Ghana National Commission on Children (GNCC), Young Women's Christian Association (YWCA), Muslim Relief Association, Family Care Foundation, Ghana Coalition on the Rights of the Child among others. The objectives of the coalition are to :

1. Urge governments to honour their commitments to girls.
2. To build a network of grassroot NGOs that advocate for girls' rights.
3. To promote the active participation of girls as agents of change in their own lives and in their societies.

CSPS serves as the National Secretariat of the Coalition.

In House Seminar Series

The CSPS continues to host monthly in-house seminars beginning from January. These were held in the seminar room on the last Friday of every month, except in December when it was held in the second week. The theme for the year was still issues on Family Welfare. It attracted a large participation from the government including Parliamentarians and non-governmental sectors. University lectures and students, teachers and educational workers, social workers and the general public. The seminar series still continues in 2000. The following papers were presented during the year.

- Ageing, Social Policy and the African family, by Prof. Nana Apt, director of CSPS.
- Ghana's Forest Policy and the Impact of Logging and Afforestation Programmes by Mr. Theo Anderson, director of Friends of the Earth Ghana, an NGO.
- Why Can't We Get Along? Civil Society And The Good Society In Africa by Prof. E. Gyimah-Boadi, associate professor, department of Political Science, University of Ghana (UG).
- Violence Against Women: The Police Perspective, by Mrs. Gifty Ann-Botwe, Commander of the Women and Juvenile Unit
- The Potentials Of Community Participation In Ghana - An Illusion Or Reality? by Prof. Kwasi Adarkwa, (Head, department of planning, KNUST) and Dr. John Diaw (corporate member of the Ghana Institute of Planners.
- Ghana's Education Reform: Marginalising Opportunities Or Equalising The Poor? By Mr. William Ahadzie, Ph.D. student, department of Sociology, UG.
- Contribution Of Older People To Development In Ghana by Mr. Ebenezer Adjetei-Sorsey, project officer, HelpAge Ghana.
- Poverty And Poverty Reduction In Ghana by Mr. Robert Kofi Nyantakyi, head public affairs unit, NDPC.
- Preparing Ghana's Future Workforce To Respond To Labour Market Dynamics, by Mr. J.Y. Amankrah, director of research and statistics at the MIESW
- The New Child Legislation in Ghana: Implications for Child rights Enforcement by Mrs. Angela Dwamena-Aboagye, a legal and human rights activist for women and children.
- Enhancing Disability Rights in Africa: The Ghanaian Experience by Dr. Ken Agyeman Attafuah, director of operations and chief investigator, CHRAJ.
- Linking Formal and Informal Intermediaries in Ghana: A Way to Increase Women's Access to Financial Services? by Dr. O. Sakyi-Dawson, Lecturer, department of Agric., Extension, Faculty of Agriculture, UG.

Heyward Reserve Library

The Heyward Reserve Library continues to be of tremendous support to many students and researchers from the university campus as well as outsiders. This year the library registered over 80 outside users. Presently the library has on shelf, Postgraduate theses from Sociology Department, a wide variety of journals covering Gerontology, Health, Nutrition, Sociology and Economics. The Heyward library has introduced a library information delivery scheme to enable users obtain information from Balme Library, where it is not available at Heyward.

Publications

- Community Mobilisation: An Analytical Frame of Reference for Project Personnel and Project Managers by Maxine and Tom Kumekpor, CSPS 1998
- Children in Need: A Study of Children in Institutional Homes in Ghana by Nana Araba Apt, Ebenezer Blavo and Stephen Wilson, CSPS 1998.

CSPS Newsletter

With regard to its mandate to inform the public on social issues, CSPS still produces POLICYLINES, a quarterly newsletter. POLICYLINES is a gateway to innovations in social policy issues including poverty reduction, child labour, child development, family welfare, environment, gender, ageing and education.

In addition to Policylines CSPS also publishes Policy Briefs, which contain excerpts from papers presented at its monthly in-house seminar series.

Research

- A research based on six focus group discussions with commercial sex workers, Peer Educators and Street Children was conducted in three targeted community based projects sponsored by UNICEF, Ghana. The three organisations responsible for the targeted projects involving street children and peer educators and commercial sex workers are as follows:

Accra

- Catholic Action on Street Children (CAS),
- Street Girls Aid (S'Aid);

Obuasi

- District Assembly HIV/AIDS project

Evaluation

During the course of the year, CSPS was contracted by DANIDA to review its main programmes, targeted at addressing some needs of Street Children in partnership with some NGOs. These projects are as follows:

- Street Babies Programme in partnership with Street Girls Aid organisation.
- Sponsorship and Training programme in partnership with Children in Need Organisation, and
- Pilot Girl Child (Kayayoo) Education Programme for girls in the Tolon Kumbungu District in the Northern Region.

Book Launch

The following books were launched during the course of the year:

- Maintaining the Momentum of Beijing edited by Nana Araba Apt, Naana Agyemang-Mensah and Margaret Grieco and published by Ashgater Aldershot U.K, 1998.
- The Problems of Refugees in Africa by Ebenezer Q. Blavo and published by Ashgater Aldershot U.K, 1999.

GRADUATE STUDIES

Overview

The number of students seeking admission to pursue graduate study in this University has been growing steadily. This current academic year we received a total of 2,194 applications. The breakdown is as follows:

Postgraduate applicants for 1999-2000

Faculty	Male	Female	Total
Science	164	42	206
Agriculture	74	18	92
Humanities	590	182	772
MBA/MPA	872	252	1,124
Total	1,700	494	2,194

Postgraduate students registered - 1999-2000

Faculty	Male	Female	Total
Science	63	19	82
Agriculture	41	14	55
Humanities	187	72	259
MBA/MPA	239	86	352
Total	530	191	721

1999/2000 Pass List

Faculty	Male	Female	Total
Science	20	8	28
Agriculture	23	2	25
Humanities	58	30	88
MBA/MPA	160	56	216
Total	261	96	327

The number of graduate students pursuing different higher degree course has also increased. In the 1998/99 academic year 608 registered to pursue graduate studies, while this academic year, we have 721 registered students.

It will also interest you to know that this year a total number of about 357 graduate students have completed their programmes and would be graduating. The breakdown is above.

The New Handbook for Graduate Students incorporating the course Credit System that has been adopted for our graduate programmes, has been produced.

During the year, the Office of the Dean of Graduate Studies with the Graduate Students Association (GRASAG), organised three (3) symposia which focused on the employment of graduate students.

The Academic Board approved the above programmes to be run in the 2000/2001 academic year - Executive M.B.A. and M.Phil in Biomedical Science.

INSTITUTE OF STATISTICAL, SOCIAL AND ECONOMIC RESEARCH (ISSER)

General overview

In the year under review, ISSER continued to work in accordance with its mandate of providing training and carrying out high quality development-oriented research, in the field of social sciences.

The year 1999 witnessed the commencement of a new five year research programme on the "Micro Foundation of Policy Reforms, 1999-2003" with the conclusion of the Medium-Term Research Programme for the period 1990-1995. The new research priorities focus on eight thematic areas.

These are (i) Public Finance and Household Behaviour (ii) Finance for small scale investments (iii) Agricultural Productivity and Household Incomes (iv) Food and Nutrition Security (v) Human Resource Development (vi) Social Security and Policy Reforms (vii) Gender and life cycle issues; (viii) Governance, decentralisation and the Politics of Development Policy Reforms.

Research

A number of studies were conducted within the period. Significant among them were the Situational Analysis of Children in Ghana, a UNICEF sponsored study; a study on the competitiveness of Ghana; and the Health component of United Nations' Common Country Assessment for Ghana; food security, health care financing; migration; social dimensions of AIDS; and gender relations.

ISSER co-ordinates two research projects; Trade and Infrastructure for food security, and Human Resource Development for Poverty Reduction and Household Food Security under the SADAOC Foundation initiative. The national network of SADAOC Foundation, Reseau Ghanéen, is also hosted by the Institute.

The Institute co-ordinates the Ghana Country Groups of the IFPRI 2020 West Africa Network which has developed priorities for political research in the area of food security and the environment.

ISSER is involved in finding ways and means of sustaining reproductive health care financing in Ghana. A Work Plan has been drawn including research project which the Institute will help execute.

Teaching/Training Programmes

The Institute admitted its third batch of students to the M.A. Development Studies Programme and the second batch for the M.Phil Development Studies Programme. To concentrate more on research and other activities during the regular session of the University, the regular Certificate Course in Statistics, with the approval of the Academic Board has been shifted to the long vacation.

The Diploma in Statistics Course will be offered for the last time this year during the regular session. The long vacation courses in Statistics (Certificate and Diploma) continue to be popular. The timing of the courses allows workers to take some time off during the long vacation to undertake the courses. Either the Certificate or the Diploma is done over long vacations. Response to the short term courses, in Research Methodology and Report Writing, and Data management and Analysis has been very impressive. There are requests to mount these courses for some organisations at their work places.

The courses which attract participants from various public and private set ups are designed basically to improve the analytical skills of development practitioners. Preparations are underway to mount a third short course in Project Planning, Analysis and Monitoring. The Institute also plays host to a number of foreign visitors who need information about the social, economic and political developments in Ghana.

Advocacy

The Institute has not relented in its advocacy role. Over the period, interaction with the media and public has increased. Invitations to the press to attend seminars, workshops and conferences organised by ISSER are more frequent.

Research Fellows are also encouraged to serve on public boards and committees to bring their research findings and intellectual knowledge to bear on them. In this respect a number of the Institute's researchers are members of several boards and committees in both the public and private sectors. The eighth in the series of the State of the Ghanaian Economy Annual Report, a useful reference for policy makers, researchers and students was launched on July 8, 1999.

Funding

The Institute continued to face financial constraints in 1998/99. To increase its funding base, therefore, efforts to mobilise funds for the Institute through an Endowment Trust, launched in December 1998 have been intensified. There are also efforts to raise funds from both local and foreign funding agencies, through direct core funding or through project funding.

ISSER was made a partner Institution of the Secretariat for Institutional Support for Economic Research in Africa (SISERA), based in Dakar, Senegal. In this case, SISERA will help develop ISSER as a Centre of Excellence with some institutional and capacity building funding. ISSER is one of eight such centres in Africa.

Publications

- Ahudeke, Clement (With Daniel Maxwell et al.) 1999, Alternative Food Security Indicators; Revisiting the Frequency and Severity of Coping Strategies, Food Policy 24: 411-429.
- Anarfi, J.K. - (1998) Anthropological Perspectives on Migration pp 198-222 in Basu, A.M. and Aaby, P. (Eds.) The Methods and Uses of Anthropological Demography. Clarendon Press, Oxford.
- (With C.K. Fayorsey), 1999, Male Participants in the "Commercialization" of aspects of the female life cycle in Ghana. In Orubuloye, I.O. et. al (eds). The Continuing HIV/AIDS Epidemic in Africa. Health Transition Centre, Australian National University, Canberra, pp 109-120.
- (With K. Awusabo-Asare) 1999, Routes to HIV transmission and intervention: An Analytical Framework". In Orubuloye, I.O. et. al (eds). The Continuing HIV/AIDS Epidemic in Africa: Responses and Coping Strategies. Health Transition Centre, Australian National University, Canberra: pp 1-8.
- (With K. Awusabo-Asare) 1999, Rethinking the Circumstances Surrounding the First Sexual Experience in the Era of AIDS in Ghana". In Orubuloye, I.O. et al (Eds.) The Continuing HIV/AIDS Epidemic in Africa. Health Transition Centre, Australian National University, Canberra, pp 9-15.

- (With Clara Korkor Fayorsey) 1999, (Male protagonists in the "Commercialization" of aspects of the Female Life-Cycle in Ghana". Pp. 144-162 in Bledsoe, C. et al (Eds.) Fertility and the Male Life-Cycle in the Era of Fertility Decline.
- Aryeetey, E.
 - Court, J., Nissanke, M., Weder, B., 1998; 'Strengthening Africa's Participation in the Global Economy': Report from Expert Consultative Meetings. The United Nations University, Africa Economic Research Consortium.
 - A. Cox, "Aid Effectiveness in Ghana", Foreign Aid in Africa, ed. by Jerker Carlson, Gloria Somolekae and Nicholas van de Walle, Nordiska Afrika Institutet, Uppsala, 1998.
 - M. Nissanke, Financial Integration and Development in Africa, (350 pp). Routledge, London, 1998.
 - "Sub-Saharan African Experiences with Regional Integration", Trade Reforms and Regional Integration in Africa, ed. by Zubair Iqbal and Mohsin Khan, International Monetary Fund, Washington D.C. 1998.
 - J. Harrigan and M. Nissanke (eds), Economic Reforms in Ghana: The Reality and the Mirage, James Currey, Oxford, 1999. (Forthcoming).
- Aryeetey, Bortei-Doku Ellen
 - (1998): Consultative Processes in Community Development in Northern Ghana, Community Development Journal, Vol. 33, No. 4, pp 301-313.
 - Akua Kuenyehia (1998): Violence Against Women in Ghana, in Akua Kuenyehia (Ed.) Women and Law in West Africa, Walwa, Accra.
- Asenso-Okyere, W.K.
 - 1999, 'Status of Public Policy on Poverty Reduction in Ghana'. In V.S. Vyas and P. Bhargava (eds), Poverty Reduction in Developing Countries, Rawat Publications, Jaipur, India.
 - (With Osei-Akoto, I., Anum, A., Adukonu, A.) 1999, 'The Behaviour of Health Workers in an Era of Cost Sharing'. A Qualitative study from Ghana's Drug Cash and Carry System. Tropical Medicine and International Health.
- Botchie, G.
 - 'Decentralised District Planning Experience in Ghana (Accepted for Publication by IIED, London).
 - 'Decentralisation and National Development: A Spatial Perspective'. (Accepted for Publication by Institute of Economic Affairs, (IEA), Accra.
 - 'Planning Management and Sustainability of Local Resources at the District Level, Spring Research Series, 11. 95-104.
- Gyekye, L.O.
 - (Ongoing) "Gender and Structures of Office Holding in Traditional Institutions".
 - (Ongoing) "The Emergence of Women Priests: Gender and Responses in Policy Chargers in the Church".
 - (With Dankwa, E.V.O.) "The Impact of Intestate Succession Law 1985 (PNDC LIII) on the Family" (Ongoing).
- Nsowah-Nuamah, N.N.N.
 - 1999; A first course in Probability Theory, Vol. II. Ghana Universities Press.
- Nyanteng, V.K.
 - (With O.J. Sorensen) "Ghana's Exports to Neighbouring Countries, Centre for International Business, School of Administration, University of Ghana, Legon, 1998.

- "The State of the Ghanaian Economy in 1998 - Chapter 5 - Agricultural Sector ISSER. University of Ghana, Legon, 1999.
- Conferences/Workshops/Seminars**
- Asenso-Okyere, W.K. - June 19-26, 1999: Attended a SADAOC Foundation Roundtable Discussion on Food Security and Management Board Meeting in Bamako, Mali.
- Nyanteng, V.K. - February 21-25, 1999: Attended a Regional Training of Trainers Workshop on Decentralization and Participation for Sustainable Rural Development in Kampala, Uganda.
- April 5-9, 1999: Attended a Workshop by the Trade and Infrastructure for Food Security Project at SADAOC Foundation in Bamako, Mali.
- Aryeetey, Bortey-Doku, E. - February 10-21, 1999: Attended the 15th Board of Trustees Meeting of the International Centre for Living Aquatic Resources Management ICLARM in Manila.
- June 28-30, 1999: Attended a Conference on "Pro-Poor, Gender and Environment Sensitive Budgets in New York, U.S.
- Botchie, G. - April 7-9, 1999: Attended a Workshop at South Africa.

INTERNATIONAL EDUCATION PROGRAMMES

Staffing position

- Dean - Prof. S. T. Addo
- Senior Administrative Assistant : Mr. Samuel K. Amoah (Posted to this office on 3/1/2000).
- Administrative Assistant Ms. Elizabeth Johnston (Resigned from the University at the end of August, 1999).
- senior Clerk Ms. Joana Otoo
- Driver - Mr. David Lomotey
- Messenger - Mr. Joseph Nii Djani Neequaye

The International Education Programmes Unit had a challenging but successful year. Disruptions of academic programmes by workers and students necessitated special packages to be put in place to facilitate smooth academic work for our exchange and visiting students. Members of academic staff were very co-operative generally and we are most grateful to them.

Visiting Foreign students

Our visiting and exchange programmes remained vibrant during the 1998/99 academic year. Below is a breakdown of participants by institutions.

	FIRST SEMESTER	SECOND SEMESTER
1. CIEE (COUNCIL)	31	43
2. SUNNY BROCKPORT	16	6
3. CALIFORNIA	20	13
4. TUFTS	9	9
5. ISEP	11	10
6. NORTH CAROLINA STATE UNIVERSITY, RALEIGH	-	2
7. MISSOURI	7	-
8. SOKA (JAPAN)	2	2
9. TEXAS (AUSTIN)	1	1
10. UNIVERSITY OF RICHMOND	3	2
11. SAN JOSE STATE UNIVERSITY	-	5
12. UNIVERSITY OF PENNSYLVANIA	1	-
13. SWARTHMORE	2	-
14. INDEPENDENT	7	±
TOTAL	<u>110</u>	<u>97</u>

GRAND TOTAL = 207

Summer Programmes (1999)

Five United States of America universities sent groups of students and faculty to the University of Ghana to run Summer Educational Programmes. These are programmes packaged by the foreign institutions but run here because of the required local cultural inputs. The foreign institutions are allowed to do this after payment of a small fee to the University of Ghana. Some of the Programmes hired Ghanaian faculty members as guest or contract lecturers to help with the running of the programmes. We received groups from North Carolina State University, Raleigh; North Carolina Agricultural and Technical State University (Greensboro); Duke University; The College of William and Mary; and Vanderbilt University.

Main Stream Foreign students

The University also had on admission close to two hundred full time foreign students pursuing various academic programmes at certificate, diploma, first degree and higher degree levels. This category of students are dominated by Africans from Nigeria, Cameroon, Sierra Leone, Gambia, Togo, Benin etc. A few others mostly from USA and Europe, particularly Norway and Denmark could be found in this group.

North Carolina State University, Raleigh for useful discussions in connection with our Link programme. He also attended the 51st annual conference of CIEE in Boston, Massachusetts.

In October and November 1999 the Dean was again invited to attend conference and hold discussion with institutions anxious to establish links with the University of Ghana. Those desirous of establishing links are University of Toledo and University of Pennsylvania. The conferences attended included the 20th Conference of SEP held in Washington the USA region VII annual educational exchange conference held in Ashville, North Carolina, and the CIEE 52nd annual conference held in Chicago. Useful presentations were made by the Dean on the University of Ghana's educational exchange programmes at all these conferences. These conferences provided the Dean the opportunity to advertise the University of Ghana.

Visitors

The office hosted delegations from various universities and organisations during the period. Delegations from University of Illinois, Urbana Champaign; University of Missouri, St. Louis; University of Wisconsin, Madison; University of Toledo; University of Iowa; University of Richmond; North Carolina State University, Raleigh; University of North Carolina, Charlotte; California State University, Hayward; Tufts University; Penn State University; University of Georgia; University of Kansas; Temple University; Cheikh Anta Diop University; The World Bank; and German Academic Exchange among others visited and held useful discussions with the Dean mainly on Educational Exchange Programmes.

Pending matters

The unit still does not have a budget line.

The Dean is yet to be provided with an official car like all other Deans and Directors.

Appreciation

The office will like to register its appreciation for the useful assistance it received from the Advisory Board during the period. Again the office appreciates very much the co-operation it enjoys from the Vice - Chancellor, Prof. Ivan Addae-Mensah. Finally our thanks go to all the Programme Co-ordinators for the good work done during the period.

NOGUCHI MEMORIAL INSTITUTE FOR MEDICAL RESEARCH

Overview

During the year under review, the directorship of the Noguchi Memorial Institute for Medical Research changed. Following the retirement of Professor Francis K. Nkrumah, Professor David Ofori-Adjei was appointed as the fifth Director of the Institute. He assumed duty on 1st December 1998.

Thanks to the many research collaborations the Institute enjoys particularly with foreign donors, inadequate government subvention for research did not seriously affect the work of the Institute during the year. For example, through such external sources, the Institute obtained a grant of nearly \$3 million from The National Institutes of Health (NIH), USA to research into malaria and vaccine trials.

The long standing collaboration with JICA continued to be our traditional support. The Japan Grant Aid application mentioned in the report of the previous year got approved and construction of the Laboratory Animal and Conference facilities began during the year under review.

Still on the JICA-Noguchi relations, negotiations with our Japanese partners on Technical Cooperation (also referred to in the previous report) were successfully concluded during the 1998/99 academic year to run for the normal five- year cycle as the other previous collaborations had run. The technical cooperation would cover research into HIV/AIDS, Tuberculosis, EPI diseases, Viral Haemorrhagic fevers and Laboratory Animals.

Another activity that engaged the attention of the Institute was the celebration of the 20th Anniversary of the Institute which occasion was used to highlight the achievements of the Institute since its beginning. Some of the highlights of events that marked the celebration were:

- the hosting of the 20th African Health Science Congress, (the first ever in the sub-region);
- weekly public lectures delivered over a period of three months by Fellows of the Institute; and
- open day visits stretching over six months for second cycle schools country-wide, aimed at sharpening practically the interests of the youth in science.

During the celebrations, past Directors (all of whom are alive), the first Administrative Secretary, and other staff members who had served the Institute since its inception were honoured.

The Institute is grateful to the following (individuals or organisations) without whose sponsorship the celebrations could not have been so successful:

- Royal Danish Embassy
- The World Health Organisation, Ghana Office
- Agricultural Development Bank
- Ashanti Goldfields
- Cocoa Marketing Board
- Standard Chartered Bank
- Dr. K. Naito (a Japanese Scientist)
- Japanese Community at the Institute
- Ecobank
- Volta River Authority
- Cocoa Processing Company
- IKAM Limited
- Ghana Commercial Bank

Jorgen A.L. Kurtzhals,
Bartholomew D. Akanmori,
Bamenla Quarm Goka,
Victoria Adabayeri, Francis
K. Nkrumah,
Charlotte Behr,
and Lars Hviid

- The cytokine balance in severe malaria anemia. "**Journal of Infectious Diseases** 1999; 180:1753-1754", 1999.

Wasting, J.M.
Akanmori, B.D.
Williams, D.

- Zoonoses in West Africa: Impact and Control **Parasitology Today** 1999. 15(8),309-311, 1999.

Akanmori, B.D.

- Section Annotation on Malaria Immunology in Ghana. **Bibliography on Health of Children in Ghana, Pp.169-171, School of Public Health, University of Ghana Legon.**
- Section Annotation on Malaria Immunology in Ghana. **Bibliography on Health of Children in Ghana, Pp.165-197, School of Public Health, University of Ghana Legon."**
- Section Annotation on Malaria Immunology in Ghana. **Bibliography on Health of Children in Ghana, Pp.186-187, School of Public Health, University of Ghana Legon."**

Kurtzhals, J.A.L.,
Addae, M. M.,
Akanmori, B.D.,
Dunyo, S.K.,
Koram, K.A.,
Appawu, M.A.,
Nkrumah, F.K
and Hviid, L.

- Anaemia caused by asymptomatic *Plasmodium falciparum* infection in semi-immune African school children. *Trans. Roy. Soc. Trop. Med & Hyg.* 93:623-627,1999.

McCall, P.J.,
Cheke, R.A.
Wilson, M.D
Post, R. J.,
Flook, P.K.,
Mank, R., Sima, A
And Mas, J

- Distribution of *Simulium damnosum* s.l on the island of Bioko, Equatorial Guinea, and the potential for onchocerciasis elimination by vector eradication. *Medical and Veterinary Entomology*, 12:267-275,1988.

Wilson, M.D.
Ofosu-Okyere, A.,
Okoli, A.U.,
McCall, P.J.
and Snounou, G.

- Direct comparison of microscopy and PCR for the detection of *Plasmodium* sporozoites in salivary glands of mosquitoes. *Transactions*

of the Royal Society of Tropical Medicine and Hygiene, 92:482-483,1998.

R.H.,
jem, K.M
Osei, Y.D.,
Rodrigues F.K.,
Addy, M.E.,
Tlement, C
and Wilson, M.D.

Isolation and characterization of mineral oxidizing bacteria from the Obuasi gold mining site, Ghana. Proceedings of the International Biohydrometallurgy Symposium (IBS 99), Madrid, Spain, June 20-23,1999.

Boakye D.A.,
Basorgbor G.K.,
Bougseré B.K.,
and Naniogue S.

The cytotoxicity of the *Simulium sanctipauli* subcomplex in Ghana and the Cote d'Ivoire. *Bulletin of Entomological Research*, 89, 25-33,1999.

Ogunrinade, A.
Boakye D.,
Merrweather A
and Unnasch T.R.

Distribution of the blinding and nonblinding strains of *Onchocerca volvulus* in Nigeria. *The Journal of Infectious Diseases*, 179, 1577-1579,1999.

Seddie E.M.,
Iigazi T.,
Boakye D.,
Merrweather A.,
Wooten M.C.
and Unnasch T.R.

Onchocerca volvulus: limited heterogeneity in the nuclear and mitochondrial genomes. *Experimental Parasitology*, 93, 198-206,1999.

D.A. Boakye,
C. Back, G.K
Y. Coulibaly

Sibling species distribution of the *Simulium damnosum* complex in the West African Onchocerciasis Control Programme area during the decade 1984-1993, following intensive larviciding since 1974. *Medical and Veterinary Entomology*, 12, 345-358,1998.

- Nii-Ayi Ankrah,
SK Dunyo,
AK Nyarko,
R Appiah-Opong,
M Ofosuhene. - Biliary excretion in persons with low blood glutathione levels. **East African Medical Journal**, 75(4):204-207,1998.
- Nii-Ayi Ankrah,
Alexander K
Nyarko,
Mark Ofosuhene.
Regina Appiah-Opong,
Yaw A Akyeampon. - Lead exposure in urban and rural school children in Ghana. **African Journal of Health Science**, 5(2):85-88,1998.
- IKE Quaye,
LA Brakohiakpa,
GAB Amoah,
N Ayi Ankrah,
Y Kido. - Acute effects of five Ghanaian carbohydrate diets on serum glucose, triglyceride and insulin in NIDDM. **Asia Pacific Journal of Clinical Nutrition**, 8(1): 32-35,1999.
- Nii-Ayi Ankrah,
SK Dunyo,
AK Nyarko,
R Appiah-Opong,
M Ofosuhene. - Biliary excretion in persons with low blood glutathione levels. **East African Medical Journal**, 75(4):204-207,1998.
- Nii-Ayi Ankrah,
AK Nyarko,
Mark Ofosuhene,
Regina Appiah-Opong,
Yaw A Akyeampon. - Lead in school children in Ghana. **African Journal of Health Science**, 5(2):85-88,1998.
- Ruel, M.,
Levin C.,
Armar-Klemesu, M.,
Maxwell, D.,
Morris, S. - Good care practices mitigate the negative effects of poverty and low maternal schooling on children's nutritional status: Evidence from Accra. **World Development**, 27(11): 1993-2009, 1999.
- Levin, C.,
Maxwell, D.,
Armar-Klemesu, M.,
Ruel, M.,
Morris, S.,
Ahiadeke, C. - Working women in an urban setting: Traders, vendors and food security in Accra, **World Development**, 27(11): 1977-1992, 1999.

- Maxwell, D.,
Ahiadeke, C.,
Evin, C.,
Armar-Klemesu, M.,
Okariah, S.,
Ampley, G.
- **Alternative food-security indicators: revisiting the frequency and severity of "coping strategies Food Policy, 24:411-429", 1999"**
- Maxwell, D.,
Evin, C. E.,
Armar-Klemesu, M.,
Ruel, M. T.,
Morris, S. S.,
and Ahiadeke, C.
- **Urban livelihoods, food and nutrition security in Greater Accra. Research Report. International Food Policy Research Institute, Washington, D.C. : 1999**
- Armar-Klemesu, M.,
- **The impact and sustainability of IFPRI's research in Accra, Ghana. Research Perspectives, 21, No.1. 1999**
- Akyi, E.E.K
and E. Asibey-Berko
- **Zinc Nutritional Status in Preschool Children in Different Communities in Southern Ghana. East African Journal, Vol. 76(1) 13-18, January 1999.**
- Akyi, E.E.K.
- **Nutritional Status & Nutrient intakes in Preschool Children in Ghana East African Medical Journal Kenya, Vol. 76 (9) Sept., 508-513, 1999.**
- **Children's consumption of dark green, leafy vegetables with added fat enhances serum retinol. Journal of Nutrition 129 (8),1549-1554, 1999.**
- **Nutrition status, food consumption frequency and nutrient intakes of preschool children in Ghana: Food and Nutrition Bulletin, 20:465-466, 1999.**
- Brandful J.A.M.,
Ampofo W.K.,
Janssens W et al.
- **Genetic and Phylogenetic Analysis of HIV Type 1 Strains In Southern Ghana AIDS Research and Human Retroviruses , 9: 815-819. May 1998**
- Brandful J.A.M.,
Apegyei F.A.,
Ampofo W.K. et al.
- **Relationship Between Immunoclinical Status and Prevalence of Viral STDs Among HIV-1 Seropositive Patients In Ghana. Viral Immunology, 12: 2: 131-137. January 1999.**
- Saito,
C. Ishikawa,
J. Osei-Kwasi,
Kaneko,
A.M Brandful et al.
- **Prevalence of hepatitis G and Characterization of Viral Genome In Ghana Hepatology Research, 13: 221-231 1999.**

Daniel Dodoo,
Thor G. Theander,
JAL Kurtzhals,
KA Koram,
E. Riley,
BD Akanmori,
F. Nkrumah
and L. Hviid (1999).

- Levels of antibody to conserved parts of Plasmodium falciparum merozoite surface protein 1 in Ghanaian children are not associated with protection from clinical malaria. **Infection and Immunity**, 67(5),2131-2137.

Conferences and papers presented

Nyarko, A.K.

- Meeting of Western Africa Network of Natural Product Research Scientists (WANNPRES) at Legon, March 1999
- 19th African Health Sciences Congress in Arusha, Tanzania. April 19-23, 1999.

Akpedonu, P.

- Invited speaker at the Annual General Meeting of the North American Society of Paediatric Gastroenterology and Nutrition, October 22-24, 1998. Presented a paper entitled, Modification of the Indigenous Enteric Flora in the Management of Persistent Diarrhoea.
- Two papers were presented on her behalf at the 20th African Health Sciences Congress, Accra, Ghana, April 19-23 1999. They are: Dorothy Yeboah-Manu, A. Ablordey and Kwaku Owusu-Darko. Street Food From Accra: How Safe. Abstract 0-25.
- Kwaku Owusu-Darko, Dorothy Yeboah-Manu, Anthony Ablordey. The Role of Street Food Vendors in the Transmission of Enteric Pathogens in Accra. Abstract 0-26.

Agbodaze, D.

- Luke, R.J.K., and Sandeman, R.M. Presented a paper titled "Detection of E. coli Verocytotoxin receptor by ELISA using the piglet model." at the 20th African Health Sciences Congress. 19-23 April, 1999. Accra, Ghana.
- Luke, R.J.K., and Sandeman, R.M. Presented a paper titled "Differentiation between human and porcine verocytotoxigenic E. coli (VTEC) by ELISA systems. 20th African Health Sciences Congress. 19-23 April, 1999. Accra, Ghana.
- Presented a paper titled Verocytotoxins produced by certain Gram-negative bacteria in human and animal disease conditions at the 37th Scientific Meeting. West African College of Physicians, 18th November, 1998. Accra, Ghana.

- Koram, K.A.
- Attended the 2nd MIM Conference on Malaria in Durban, South Africa. Presented a paper entitled "Severe Anemia in infants in the high and low malaria transmission seasons in the Kasena Nankana District of Northern Ghana" 14th - 19th March 1999
 - Organised a workshop at Sunyani for Ministry of Health personnel engaged on the study of the efficacy of chloroquine for the treatment of uncomplicated malaria in Ghana. 21st- 31st March 1999.
 - Attended the 20th African Health Sciences Congress at GIMPA Accra. 19th - 23rd April 1999.
 - Attended a workshop at Geneva on combination chemotherapy trials for malaria in endemic areas. 14th - 16th June 1999
 - Attended a workshop in Maputo Mozambique on Design and methodology of Malaria Vaccine Trials in Africa as a facilitator 5th - 12th July 1999.
 - Washington USA. Consultative meetings with NIH and Naval Medical Research Center. - 14th - 17th September 1999.
 - Heidelberg, Germany. Attended the EU Malaria Contract Holders Meeting. 27th - 29th September 1999.
 - Arusha, Tanzania. Attended the Seminar on Ethics in Health Research organised by the African Malaria Vaccine Testing Network. 1st- 4th November 1999.
- Boakye, D.A.
- Attended Ivermectin Resistance Meeting. Ouagadougou, Burkina Faso. 13-14 June 1999.
 - Attended a workshop on Lymphatic Filariasis Research and Control In Africa, in Accra, Ghana. 15-19 November, 1999 and presented paper: "Molecular techniques in the control of onchocerciasis": are they applicable to lymphatic filariasis?
- Takyi, E.E.K.
- Attended XIX International Vitamin A Consultative Group Meeting (IVACG), 8-12 March, 1999 Durban, South Africa and presented a paper titled "Bioavailability of carotenoids from leafy vegetables consumed by preschool children in Ghana - Part 2. The conference was jointly organised by USAID, IVACG, UNICEF and the Department of Health, Washington, DC.
 - Attended International Nutritional Anaemia Consultative Group Meeting. Durban, South Africa. 11th March, 1999.
- Armar-Klimesu, M
- Attended World Food Prize Symposium on Urbanization and Food Security, Des Moines, Iowa, USA, October, 1998; was a respondent to the address by the Hon. Nat. Nuno Amarteifio, Former Mayor of Accra. Presentation was titled "Food Security in Accra", Ghana.
 - Attended Federation of American Society of Experimental Biologists meeting, Washington DC., April, 1999 and presented a paper titled "The constraints to good child care practices in Accra, Ghana".
- Armah, G.E.
- S. H. Annabi, N. A. Morad and F. Adzaku (1999). Ultrastructural Change in animal fat associated lipid pneumonia. Report of two cases. East African Medical Journal (in press).

- Asmah, R.H., - Green, J., Armah, G.E and Browne DWG (1999) Genotyping of group A rotaviruses from Ghana using the reverse transcription polymerase chain reaction. 20th African Health Science Congress, Accra. April 1999.
- Akakpo, D.K. - K.M. Bosompem, G.E. Armah, J.K. Kpikpi and J.K.M. Hodasi. Studies on the 29kd schistosoma haematobium species-specific antigen : A potential diagnostic marker for urinary schistosomiasis. 20th African Health Sciences Congress, Accra .April 1999.
- Attended the 20th African Health Sciences Congress, Accra April 1999 and presented papers "Oral Tumors in Ghana: A Hospital Based Study", Accra. April 1999.
- Attended 2nd Rotavirus Workshop in Africa organised by the Medical University of Southern Africa/Medical Research Council of South Africa in Pretoria from may 3-28, 1999.,
- Appawu, M.A. - Presented a paper on "Current Approaches in Helminth Egg Analysis" and their Assessment in Sludges" at Water Research Institute, CSIR Accra, on 27th August, (1)
- Presented a paper on "Mosquito vectors of lymphatic filariasis in the Upper East Region of Ghana" at the 20th African Health Sciences Congress, held in Accra, Ghana from 19-23rd April, 1999
- Presented a paper on "The effect of water resources development on the transmission dynamics of Lymphatic filariasis in the Upper East region of Ghana" at an international workshop on Lymphatic filariasis research and control in Africa from November, 15-19 1999 at NMIMR, Accra.
- Presented a paper on "Lymphatic filariasis in Ghana at the Workshop on Global Parasite Control Administration: A Step Towards Primary Health Care" held in Tokyo, Japan from 27th September to 25th October, 1999.

REGIONAL INSTITUTE FOR POPULATION STUDIES (RIPS)

Introduction

The Regional Institute for Population Studies, RIPS, was established in 1972 following an agreement between the United Nations Organization and the Government of Ghana. It has facilities for providing graduate training and research in population studies for some twenty countries in English-speaking sub-Saharan Africa.

Since its establishment in 1972, the Institute has contributed significantly to the development of human capacity in the area of Population Studies in Africa. Diverse relevant institutions ranging from national statistical services, planning

agencies, training institutes and other governmental units have benefited from the services offered at RIPS.

Between 1972 to 1975, during the first phase of its training provision, the Institute admitted three hundred and thirty (30) students to its Graduate Diploma programme. Of this number, 71.6% successfully completed the programme. From 1985, when the phasing out of the Diploma programme began, to 1996, three hundred and seventy-four (374) students were admitted to the Institute with about 94.6% of them successfully completing their courses. Additionally, 55 and 27 candidates have, respectively, been awarded the M.A. and the M.Phil in Population Studies. The Institute has also produced seven (7) Ph.Ds.

Students who have passed through RIPS have come from mostly English-speaking sub-Saharan Africa but a few of them have come from outside the Institute's normal catchment area from such places as Egypt, Mozambique, West Germany, and Papua New Guinea.

Countries outside the sub-region that do not normally send students to the Institute have also made use of the Institute's regional advisory services as did Libya for the analysis of its census data.

As part of the restructuring exercise initiated several years ago, the UNFPA is terminating its sponsorship of the Institute in December 1999. It is very much to be hoped that the member States would, when the UNFPA has withdrawn, accept the challenge of ownership, financial responsibility and management of the Institute.

Teaching/Research Programmes

The Institute offers the 12-month Master of Arts programme in Population Studies for which a good first degree in the social or natural sciences including mathematics or statistics is required; the 18-month Master of Philosophy programme in Population Studies for which one needs a good pass in the Institute's M.A. programme or its equivalent to enrol, and; the 36-month Doctor of Philosophy programme for which a good pass in the Institute's M.Phil programme or its equivalent is the requirement.

Staffing position

Apart from the replacement for the Principal Administrative Assistant who resigned in August 1998 and the promotion of two junior staff to senior staff positions, the administrative staffing position has remained the same. The crucial positions of Director and Deputy Director remained unfilled. With only four (4) academic staff, the Institute continues to rely heavily on part-time academic staff drawn from other units of the University. To strengthen the academic work of the Institute, there still is the need, therefore, to engage at least one Demographer/Economist/Specialist in Population and Development, and to revive the Publications Unit of the Institute, a Substantive Publications Officer, and possibly a Publications Assistant, also need to be recruited.

Students numbers

The 1998/99 academic year for the M.A. programme commenced on schedule in October 1998 with thirteen (13) students drawn from Ghana (10), Ethiopia (2) and Tanzania (1). The Institute had admitted 25 applicants, but twelve (12) of them were unable to enrol for lack of funding. The change in funding arrangement now means that students offered admission have to look for their own sources of funding.

The M.Phil programme had two students during the year under review.

Student Research

In order to marry classroom instructions with practice the 1998/99 M.A. class conducted a socio-demographic survey of Dawu in the North Akwapim District (Eastern Region). The exercise involved the designing of a questionnaire, interviewing and field editing of the questionnaire returns.

Extension service

Dr. E.O. Tawiah served and continues to serve as a member of both National Census Planning Committee and the National Census Technical Advisory Committee of the 2000 Population and Housing Census of Ghana.

Staff Research

- Tawiah, E.O. - Male Fertility, Contraceptive Use and Fertility Preference in Ghana.
- Tesfay, Teklu - Ghanaian Socio-Cultural Practices: Contributing Factors to the Low Enrolment of Girls at the Secondary School Level.
- Kwankye, S.O. - Adolescent Sexuality, Contraception and Reproductive Health In Ghana.

Publications

- Tawiah, E.O. - The Population of Ghana (forthcoming in Population and Family Life Education Source Book).
- Demographic Patterns and Sustainable Development in Ghana (forthcoming in African Population Studies).
- Mbamaonyekwu, Chuks - Attaining the Fertility Target of the 1994 Revised Population Policy of Ghana.
- Kwankye, S.O. - Adolescent Sexuality and Health in Ghana (forthcoming).
- The Vital Registration System in Ghana: A Relegated Option for Demographic Data Collection (forthcoming).

Meetings/Seminars/Workshops

- Tawiah, E.O. - First Meeting of the Committee on Sustainable Development, Addis Ababa, Ethiopia, 25-29 January, 1999.
- Nineteenth Meeting of the Technical Preparatory Committee of the Whole/Seventh Intergovernmental Group of Experts, Addis Ababa, Ethiopia, 30 April to 4 May, 1999.
- Conference of African Ministers of Finance and Ministers of Economic Development Planning, Addis Ababa, Ethiopia, 10-12 May, 1999.
- Workshop on Strategic Fundraising, Addis Ababa, Ethiopia, 10-12 May, 1999.
- Short course on Reproductive Health Research, London, June 21-July 16, 1999.
- Workshop on Women's Reproductive Health and Household Food Security in Africa, Addis Ababa, Ethiopia, 11-13 October, 1999.
- Teklu, Tesfay - Training workshop on PEDTA, its Data Requirements and Management, 9-18 June, 1999.
- First Meeting of the Committee on Development Information. From 28 June - 2 July, 1999.
- International Organising Committee Meeting of the Population Conference in Durban, South Africa, 25th September to October 1, 1999.
- Evaluation Mission of The Small Grants Programme of the Population Studies

October 29 - November 19, 1999.

- **fbamaonyekwu, Chuks** - Workshop on Examination and Test Development Procedures, University of Ghana, Legon, May 24 - June 4, 1999.
- Workshop on African Development Bank Group's Population Policy Paper, Abidjan, August, 12-13, 1999.
- Workshop on Civil Registration and Vital Statistics Systems. Organised by UNESCAP, Bangkok, September 13-24, 1999.
- **wankye, S O** - Training workshop on Population, Environment, Development and Agricultural (PEDA) Model, organised by the UNECA in Addis Ababa, Ethiopia from June 7-20, 1999.
- Follow-up capacity building workshop in Policy Analysis and Advocacy for Regional Population Advisory Committees Members (RPAC) from the Upper East Region. Held at the Electoral Commission's Conference Hall in Bolgatanga from August 2-6, 1999 - as a resource person.
- Workshop on Landuse and Land Cover Change Project on the Volta River Basin in Ghana. Organised by the Centre for Development Research (ZEF) at the University of Bonn, Germany from August 31 to September 3, 1999.

SCHOOL OF COMMUNICATION STUDIES

Overview

The School pursued its academic and research activities without any undue disruption.

Courses

The following courses were offered for the year at the respective levels:

Graduate Diploma

(a) First Semester

Introduction to Print Journalism

Introduction to Communication Research Methods

Introduction to Mass Communication
 Introduction to Advertising
 Introduction to Public Relations
 Introduction to Broadcast Journalism (Radio/TV)
 Media and Society
 Seminar I

- (b) **Second Semester**
 Development Communication
 Public Opinion
 Statistics in Communication Research
 Advanced Public Relations & Lab
 Advanced Electronic Media (Radio & TV)
 Advanced Advertising & Lab
 Media Management
 Social Psychology
 Advanced Print Journalism and Lab
 New Technologies in Communication
 Media Law
 Seminar II
 Project Work

Master of Arts/Master of Philosophy

- (a) Communication Theory
 Advanced Quantitative Analysis
 International Communication
 Development Communication
 Communication Management
 Communication and Public Opinion
 Advanced Qualitative Analysis
 Media, Culture and Society
 Outside Concentration Courses I
 Seminar I
- (b) **Second Semester**
 Development Communication
 Media, Culture and Society
 Outside Concentration Course II
 Seminar II
 Advanced Qualitative Analysis
 Thesis

The number on roll stood at:

Graduate Diploma	-	30 students
Master of Arts	-	5 students
Master of Philosophy	-	2 students

Staff

The full-time staff strength at post was 6 (six). This included Ms. Audrey Gadzekpo, who returned from study leave for one year. The rest were the same as last year. Mr. Kwadwo Bosomprah was asked by the University to return from his long stay leave and numerous extensions.

Ms. Nana Yaa Oton-Atta joined the academic staff as a Tutor in Broadcasting. Mr. James Ayine, the School's Messenger/Cleaner, died after prolonged illness.

Research

- Karikari, K.**
- January, 1999: **Media, Culture and Development: Independent Radio Broadcasting and Language in West Africa.** Paper presented at the World Archaeological Congress, Cape Town. (to be published).
 - June, 1999. **Development of Community Media in English-Speaking West Africa.** Background paper for UNESCO Regional Seminar on Promoting Community Media in Africa, Kampala.
 - June, 1999. **In Defence of Public Service Media in Ghana. A Contribution to the Discussion.**
A Lecture at a **Public Forum by the Ghana Academy of Arts and Sciences, Accra.** (August-September) **Democratic Governance Study.** (With K. Ansu-Kyeremeh; A.K. Bonnah Koomson, and E. Essuman-Johnson) funded by the Institute of Economic Affairs.
- Ansu-Kyeremeh, K.**
- (March, 1999) **Exit Poll of Ablekuma Central Parliamentary Bye-Election.** (With School of Communication Studies Students)
 - (March 1999) **Pre-Election Poll of Ablekuma Central Parliamentary Bye-Election** (With School of Communication Studies Students)
 - (August-September, 1999) **Democratic Governance Study** (With K. Karikari et al.)
- Bonnoh Koomson, A.K.**
- "Democratic Governance Study - 1999", Sponsored by the Institute of Economic Affairs, Accra.
- Amoakohene, M.I**
- Public Relations Practice in Ghana**
 - Customer Relations in Selected Organisations in Ghana**
 - To Advertise or Sponsor A Programme: Some Views From Research.**
- Ohene-Ntow, Nana**
- Broadcasting as a tool for Cultural Legitimation**
 - New Trends in Telecommunication Industry**

Publications

Karikari, Kwame

Books

The Law and the Media in Ghana. Accra, Ghana Universities Press.

Ansu-Kyeremeh, K

Articles

- (1999) The Challenges of Surveying Public Opinion in an Emergency Democracy. International Journal of Public Opinion Research, 11(1); 59-74.
 - (1999) Establishing Boundaries of the Right to Communication Religion: Aspects of Determining Policy Boundaries. Media Development, XLVI (1): 52-55.
- Ohene-Ntow, Nana
- Broadcasting As A Tool for Cultural Legitimation in Ghana (Part of One-Day forum organised by the Ministry of Communication, 1st September 1998).
 - Presentation Skills and Media Interviews - Jointly authored by Kweku Osam, Department of Linguistics, University of Ghana, and Nana Ohene-Ntow, School of Communication Studies, University of Ghana. Originally presented as Seminar material.

Conferences/Seminars/Workshops

- Karikari, Kwame
- (January, 1999). World Archaeological Congress. Cape Town.
 - (April, 1999). Training in Human Rights Reporting for West African Journalists. Accra.
 - (June) Training of Journalists in Post-Conflict Liberia, Monrovia.
 - (September) Conference on Journalism Ethics. Accra.
- Ansu-Kyeremeh, K.
- (April, 1999) Symposium on Survey Research: Election Polling. Third Annual Symposium on Survey Research. University of Nebraska Gallup Research Centre. Lincoln, Nebraska.
- Bonnah Koomson, A.K.
- "Challenges of Gender Equity in the Ghanaian Media - How Women in the Media can be Change Agents". (November 17-20, 1999).
 - "Value Added Tax Education - Discourse Versus Propaganda: An Analysis of the Daily Graphic" (January 26, 1999).
- Amoakohene, M.I.
- Attended an eight-week Journalism Training Programme on Improving Training Concepts at the International Institute of Journalism (IIJ) of the DSE, Berlin, Germany from April 13 to June 16, 1999.
 - She served as Rapporteur, at a Media Foundation for West Africa Conference on Media Law Reform in West Africa held in Accra on November 1-3, 1999.
 - "Enhancing the Effective Participation of Women in the Ghanaian Media - Some Practical Consideration". Paper delivered at a GJA Conference on the theme CHALLENGES OF GENDER EQUITY IN THE GHANAIAN MEDIA. November 17-20, 1999.

Research and Publications

- Ofori-Atta, Nana Yaa
- Akyem Abuakwa: The Kingdom, published by Buck Press in August 1999.
 - Also established the official website for the Okyeman Council.

- Noguchi Memorial Institute for Medical Research: 20th Anniversary Coffee Table Book, published by Buck Press, November 1999.
- Also wrote script and narration for the NMIMR's 20th Anniversary Documentary Columnist, Accra Mail Newspaper.
- Correspondent, Dow Jones News service
- Special Correspondent, Africa Today
- Currently working on script and narration for documentary on the Burial and Installation of the Asantehene with the Institute of African Studies.

Seminars/Conferences/Workshops

- Ofori-Atta, Nana Yaa**
- Center for Democracy and Development, Roundtable on "Promoting Public Access to Information" to be held on November 24, in Accra.
 - Independent Broadcasting In Ghana, organised by the Friedrich Ebert Foundation and the School of Communication Studies, held in Ada, November 19-21, 1999.
 - Media Foundation for West Africa, Conference held in Accra, November, 1999.
 - Conference for Broadcasters, held in Abuja, Nigeria, 1999.
 - Currently, training newsroom staff of Radio Uniers.

Extra Curricular Responsibilities

- Karikari, Kwame**
- Contribution Editor, Journalism Theory, Practice and Criticism. A new Journal from School of Journalism, Media and Cultural Studies, Cardiff University.
 - Member, Editorial Board, Development Outreach, Publication of the World Bank Institute
 - (October, 1998) Chairman, Drafting Sub-Committee of the National Communications Policy Planning Committee.
- Ansu-Kyeremeh, K**
- Consulting Editor, Drafting Sub-Committee of the National Communications Policy Planning Committee
 - Tutor, Commonwealth Hall.
 - (October, 1998) Member, Drafting Sub-Committee of the National Communications Policy Planning Committee.
- Bonnah Koomson, A.K.**
- Member, National Media Commission.

Other Activities

1. The School celebrated, very successfully, its Silver Jubilee as part of the University's Golden Jubilee programme in April, 1999.
2. At the end of the School year, the School acquired a new 30- Seater Toyota bus from its own coffers.
3. The School also played host to a group of student journalism interns from the University of Kansas in the U.S

- Amoakohene, M.I**
- Honorary Secretary, Institute of Public Relations (IPR), Ghana.
 - Treasurer, Federation of African Public Relations Associations (FAPRA).
 - Treasurer, University Teachers Association of Ghana (UTAG), Legon.
 - Board Member, Ghana News Agency (GNA).
 - Member, Senior Common Room Committee, Mensah Sarbah Hall.
 - Member, Guinness Effort Award Panel.

SCHOOL OF PUBLIC HEALTH

Introduction

In response to a growing demand for a cadre of Public Health practitioners to provide leadership in health services development, the Ministry of Health (MOH) Ghana and the University of Ghana teamed up to establish the School of Public Health (SPH) in 1994.

Mission of the School

The School's mission is to train public health practitioners who will be leaders and change agents for health development in Ghana in particular and in the wider African context.

Objectives

The objectives of the school are to:

- produce public health practitioners who will be able to provide effective leadership, diagnose community health problems, plan and organise effective measures against these problems;
- undertake policy research, especially at the policy level into public health issues of national as well as local importance;
- provide public health extension services

Courses offered

Currently, the main course the school offers is the twelve-month (September to August) Master of Public Health (MPH) programme. The School has admitted one hundred and eight students for the MPH programme, seventy-seven of whom have graduated to date. The School also runs MPhil and PhD courses.

MPH Admissions 1994/96 - 1999/2000

STUDENTS	1994/1996	1996/1997	1997/1998	1998/1999	1999/2000
Physicians	10	13	11	9	15
Dentist	2	-	-	-	-
Nurses	-	5	5	4	2
Pharmacists	-	1	2	3	2
Veterinary Surgeons	-	-	4	3	2
Social Scientists	-	1	-	4	3
Other	-	-	3	1	3
Total	12	20	25	24	27
Graduated	9	20	24	24	-
Foreigners	-	1	2	-	-
Female	1	5	10	6	10
MOH	10	14	16	15	17

MPhil/Ph.D Admissions 1997/1998 - 1999/2000

STUDENTS	1997/1998	1998/1999	1999/2000
Physicians	1	-	3
Veterinary Surgeons	-	-	2
Total	1	-	5*

One candidate has registered for the Ph.D

During the 1999/2000 academic year 27 students were admitted for the MPH programme, 4 for the MPhil and 1 for the Ph.D programme.

When fully developed, the School will offer three additional full time courses and a series of short courses.

National (Graduate) Diploma in Public Health (NDPH)

The National (Graduate) Diploma in Public Health (NDPH) programme is being developed in the context of an ongoing national education reform programme. When in place, the NDPH will be available to Health professionals who do not possess a first degree but possess Post-secondary certificate and a number of years working experience in professional areas related to health.

Short courses

The School mounts short courses in response to specific needs of the Ministry of Health and other agencies. Courses planned for this year include the Management of District Health System, maternal and Family Planning and Child Health Services. A short course in Social Mobilisation which was successfully ran in the 1998/99 academic year will be run yearly.

Other relevant courses

In the foreseeable future, candidates will be assisted in preparation for professional examinations such as the Fellowship Programme of the West African Postgraduate Medical College.

Field Practice

MPH students spend up to four (4) months in the field working as Public Health Residents under the supervision of District and Regional Directors of Health Services or other professionals in related fields who are eligible as part-time lecturers of the School. The Field Programme offers students an opportunity to apply the knowledge learned in the classroom and to acquire a critical set of competencies needed for effective public health practice. They also undertake research into health and managerial problems of relevance to the district where they are posted. With funds provided by DANIDA, accommodation facilities at the district centres were refurbished for the use of students of SPH. Interested Departments, Institutes and Schools of the University of Ghana may request for the use of the facilities at a moderate cost.

LIST OF SPH FIELD SITES

NO.	REGION	DISTRICT	SITE
1.	Western	Tarkwa	Axim
2.	Central	a. Assin	Assin Fosu
b.		Cape Coast	Cape Coast
3.	Greater Accra	a. Ga	Amasaman
		b. Dangme East	Dodowa
4.	Upper East	a. Kassena Nankana	Navrongo
		b. Builsa	Sandema
5.	Upper West	Wa	Wa
6.	Northern	a. West Dagomba	Tamale
		b. Yendi	Yendi
7.	Eastern	Asuogyaman	Akosombo
8.	Volta	a. Akatsi	Akatsi
		b. Ho	Ho
		c. Nkwanta	Nkwanta
9.	Brong Ahafo	a. Dormaa Ahenkro	Dormaa
		b. Kintampo	Kintampo
10.	Ashanti	a. Asante-Akyem North	Agogo
		b. Adansi East	New Edubiase
		c. Sekyere West	Mampong

Computerisation

With the support of DANIDA, Clark and Rockefeller Foundations, the School's computers (including those in the classroom for the use of students) are networked to a server. At the moment, 5 of the School's collaborating districts (Tamale, Yendi, Wa, Kumasi and Tarkwa) are able to access the SPH Server.

It is hoped that this facility would be extended to the 20 districts listed below to improve information sharing and the effective supervision of students in the field.

Papers read

- Community Participation for Better Health Care: Prospects and pitfalls.
- User Charges and Community Financing.
- Busia Foundation Lecture: "Health and the Ghanaian Community" - September 23, 1999. Published by the Busia Foundation.
- Health Policy Forum (World Bank, Accra) Lecture on "Intersectoral Collaboration" - March 25, 1999.
- Advisory Panel: Health Sector, UNDP Ghana Human Development Report 1998.
- UNICEF West Africa Regional Meeting, Abidjan October 28 - November 3, 1999. Paper: Child Survival: The Changes for the 21st Century in West and Central Africa.
- Public Health Schools Without Walls (PHSWOW) Meeting Bangkok February 27 March 8, UK - Community Financing and Child Health in the New Millennium.
- Busia Foundation: Health and the Ghanaian Community - September 23, 1999.
- World Bank Forum: Intersectoral Collaboration - March 25, 1999.
- Measuring Health - March 29, 1999, MBA, School of Administration.
- Expert Committee Meeting - Onchocerciasis Control Programme, WHO, Ouagadougou, June 7 - 11, 1999.
- West Africa Meeting: Child Survival: The Challenges for the 21st Century in West and Central Africa, UNICEF, Abidjan, October - November 1999.
- The role of the pediatrician in Society - in the matter of immunization, November 12, 1998, London

Papers read

- (a) Community Participation in Health.
- (b) User Charges and Community Financing.

- The Community and Health Development: Lecture 1st Economic Development - Elmina".

Pappoe, Matilda

- Attended an OCP Research and Strategy Meeting, at the OCP Headquarters - Ouagadougou - B.F.
- Participated in the Evaluation of Ivermectin Distribution in Ghana for the Onchocerciasis Control Programme.
- Was part of a team which conducted a national study into the Nature, Causes and Consequences of Gender-based Violence in Ghana, for the National Council on Women and Development

Antwi, Phyllis

- "Adapting to change": Core Course on Population, Reproductive Health and Health Sector Reform. World Bank Course in Washington held in September, 1999.
- Participated in the Evaluation of the Government of Ghana/United Nations Population Fund 3rd Country Programme.

Visitors

The underlisted personalities visited the School in 1998 and 1999:

1.	Rolf Korte	GTZ (Health, Education, Emergency Aid)	February 1998
2.	Charles Mock	University of Washington, Seattle, WA, USA	May 1998
3.	Otch Aka	Ministry of Health	July /98
4.	Dr. Louise Djoussou	Ministry of Health, BV4 Abidjan, Cote d'Ivoire	July 1998
5.	Bertha Garshong	Health Research Unit, Accra	July 1998
	Dr. George W. Pariyo	Kampala	July 1998
7.	Shunichiro Honda	JICA Ghana Office	July 1998
	Nobayuki Hashimoto	Embassy of Japan	July 1998
9.	Astakie Zikarge	Texas Southern Univ., Dept. of Environmental Health	July 1998
10.	S. Benson Barb	D. M. Doghioffi College of Medicine, University of Liberia	November 1998
11.	Dr. Adenike Olunude	Dept. of Preventive & Social Medicine, MCH Ibadan	November 1998
12.	Dr. Euphemia Gooding	College of Medicine, University of Sierra Leone Dept. of Community, Freetown	November 1998
13.	Mark Robson	Rutgers University	February 1999
14.	Mark Macenheim	University of S. Florida, Tampa FL, USA	February 1999
15.	Kore de Koning	Liverpool School of Tropical Medicine, UK	February 1999
16.	Rachel Torburst	Liverpool School of Tropical Medicine, UK	February 1999
17.	Adetokunlo O. Lourz	Ibadan, Nigeria	April 1999
18.	Catherine M. Tukoma Bandu	Ministry of Education, Lusaka, Zambia	May 1999

19.	Peggy Chibuye	USAID, Zambia	May 1999
20.	Kent Noel	USAID, Zambia	May 1999
21.	Suann McDonnell	Center for Disease Control and Prevention Atlanta, GA Division of International Health USA	May 1999
22.	Helena Perry	CDC, Atlanta GA	May 1999
23.	Jim Mendlein	CDC, Atlanta GA	May 1999
24.	Brenda MC Gadney	School of Social Work, Wayne State University USA	August 1999
24.	Richard L. Douglas	College of Health and Human Services, Program in Health Administration, Eastern Michigan	August 1999

Permanent Academic Staff

Prof. S. Oforu-Amaah:	Director
Dr. Phyllis Antwi	Course Coordinator
Dr. Eric Amuah	Field Coordinator
Dr. Matilda Pappoe	Social Sciences Coordinator
Dr. Omar Ben Ahmad	Coordinator, School Age Health Study (On Leave of Absence)

Part-Time Academic Staff

There are 35 part time senior members engaged in the delivery of the school's academic programmes. They are mostly drawn from relevant Schools, Institutes and Departments of the University of Ghana. Experts from the Ministries of Health, Local Government and Rural Development and the National Population Council also teach on part-time basis. Others are drawn from GIMPA, the Departments of Community Water and Sanitation, Waste Management Department of Accra Metropolitan Assembly, The Centre for Occupational and environmental Health and Unilever Ghana Limited.

Administrative Staff

B.O. Asare-Bediako:	Administrative Secretary (Assistant Registrar)
Mr. J.O. Ankrah	Chief Accounting Assistant
Mr. Abraham Quansah:	Ag. Administrative Assistant
Mr. Patrick Ofori-Yeboah:	Accounts Clerk Grade II
Miss Rita Nikoi:	Clerk Grade II
Mr. John Nyarko:	Clerk Grade II
Mr. Maxwell Asante:	Messenger
Mr. Simon Zong-Bil:	Messenger
Mr. David Lartey:	Chief Driver
Mr. George Yeboah:	Driver Grade II
Mr. Samuel Amartye:	Driver Grade II

UNIVERSITY OF GHANA DENTAL SCHOOL

Overview

The new Dental School building was commissioned by his Excellency the Vice President, Prof J.E. Attah-Mills on the 23rd of August, 1999. The new facility will enhance the clinical training of Dental Surgeons in Ghana. Three new senior members joined the Department of Restorative Dentistry. The faculty position in this department has increased from one to four but this falls far short of the approved faculty of twenty (20).

The high teaching load carried by senior members continues to be the major problem facing the school. There is the need to develop a special faculty development programme to train the newly qualified dental surgeons to join the school. The school is currently negotiating with the University of London to assist with the training of postgraduates.

Inadequate funding continues to affect the efficient running of the academic activities of the Dental school. It is my hope to affect the efficient running of the academic activities of the Dental School. It is my hope that funding will improve during the present academic year.

Two new faculty members joined the school during the academic year under review.

Visiting Lecturers

Dr Mamley Mante
Dr Koto Savage

Beneficiary

Cocobod Sponsoring for Visiting Lecturers

DEPARTMENT OF BASIC DENTAL SCIENCE

Overview

Over the 1998-99 academic year, the Basic Dental Science Department has run its courses creditably and successfully, but with the usual problem of funding. Lack of teaching/laboratory equipment and facilities were the major problems encountered. This was the case, since the Dental School, in its foundation stages had to channel most of the available funds into infrastructural development. Conditions will improve hopefully, with time. Notwithstanding however, the meagre resources available were used to support the basic requirements needed for teaching and laboratory/clinical work.

Staffing position of Department as at September 1999

- (A) Academic Staff: Designation:
Dr. Christian A. Botchway On Contract
- (B) Senior Staff
Same as the Dental School Staff
- (C) Junior Staff
Same as the Dental School Junior Staff

Courses taught/number of students

Clinical Year 1 (Level 500)	Number of Students
Dental Anatomy	6
Oral Physiology	6

Research in the Department

Research in the Department has been hampered by lack of basic scientific equipment for laboratory and clinical research. There is the need for a well-equipped research laboratory to enhance scientific research in the Basic Dental Sciences.

Publications

So far no publication came out of the department during the year under review.

Conferences/Seminars/Workshops attended

Botchway, Christian A. - 43rd Annual Conference of the Ghana Dental Association, Accra, Ghana, on 23rd to 26th June 1999.

Benefactors

N/A

Visitors

N/A

DEPARTMENT OF COMMUNITY & PREVENTIVE DENTISTRY

Overview:

A. Community Outreach Projects

National Health Week

Screening, Education & Minor Tx Programme

For the National Dental Health Week this year the Final Year Students went to Ashanti Bekwai under the auspices of Unilever Ghana Ltd. We were there for the whole week visiting Schools in the district from Sunday evening to Saturday morning. Program included:

Screening – all the children in the selected school circuit were screened.

Dental Health Education classes were held for each class in the schools

Minor Treatment were given to all identified as needing work. The minor treatment included:

Zinc oxide treatment fillings

Scaling

Extraction of retained deciduous teeth and any grossly carious teeth.

Referrals of all others to nearest hospital or polyclinic, which in this case was Kumasi.

Next year the National Dental Health Week will be held in Nkawka and all plans have already been finalised with the Unilever Ghana Ltd.

ii). School Outreach Programs

School Screenings and Education:

Both for didactic and research reasons some selected Schools in and around Accra were visited in the course of the year. Dental students in Part II and III screened students from Kindergarten to JSS3 as well as provide Dental Health Education sessions under the supervision of myself and Mrs. Hayford, our Staff Hygienist.

The schools visited this year were:

MOH Primary School

Martyrs of Uganda Catholic Primary School.

Chorkor Primary School

In all, about 2,500 School children were screened.

iii).GDA / Unilever Outreach Programs

a). The intention and objective of this department is to provide our students with the best training that is possible in Community dental strategies. In Ghana it just happens that the Lever Brothers Dental Outreach Program is the biggest of its kind in the country. We want to take advantage of this immense training experience. Previous joint programs have shown exactly how advantageous our affiliation with this program has been to our students. Wherever and whenever possible we will make it possible for our students to avail themselves of this experience.

iv). The GDA (Ghana Dental Association) Programs

Outreach programs are another source of community exposure for our students. Again, whenever possible, we will make time for the students (Parts II and III) to enable them to participate. It is a requirement in the School for Parts II & III students

to attend these GDA outreach programs. It has been difficult to join this program with the students because the GDA would not allow students to treat on their outreach program.

Objectives

The goal of the Department's strong emphasis on rural and Community programs is to take dentistry where it has traditionally never been introduced; it is because the philosophy of this Department is in concurrence with the Primary Health Care program of the government (if we will put our money where our mouths are); and that is, to take dentistry to these rural populations who have been neglected both medically and dentally all these years. Moreover, the Ghanaian population is about 70 per cent rural and therefore accounts for the majority. It is time this silent majority received its share of the pie. All the world over many serious medical and dental diseases have had their roots in poverty and ignorance. It is the hope of the Department to make some difference.

Allied Health Programs

The Department has been presenting short Dental Health Education sessions to the School of Public Health for the last three years. Each session has consisted of eight lectures mostly on Preventive Dentistry to a Class of about 44 on the average. The Schools of Hygiene and of Nursing (Korle Bu) have also been approached in our objective to provide these allied professions with dentally pertinent information for their use in the field.

Staffing Position of Department as at September 1999

a. Academic / Research Staff-----2

Full-time member - myself, and one

Part-time member (Dr./Mrs. Josephine Sackeyfio).

We are, however, expecting an addition to the permanent staff by the end of this year. Dr. Adu-Ababio will hopefully be joining the Department after his studies in London in Public Health Dentistry.

b. Senior Staff-----None

c. Junior Staff-----None

Courses Taught / No. of Students

Course	No. of Students
BDS Part II—Community & Preventive Dentistry-----	6
BDS Part III—Community & Preventive Dentistry-----	5
BDS Part II—Periodontics-----	6
BDS Part III—Periodontics-----	5

Research in the Department

Areas of Special Interest

- Documentation of the Burden of Dental Disease in Ghana - Prevalence of the major dental conditions in the country - dental caries, periodontal conditions, malocclusion, (trauma and diastema).
- Training and Effective Utilisation of Dental Auxiliary Personnel - Dental Surgery Assistants, Hygienists and / or Therapists, Technologists.
- Availability of dental services in rural communities. Primary Health Care and Dentistry.
- Cariogenicity of Ghanaian foods.

Student Dissertation Projects

As a requirement towards graduation the Dept. expects all Final Year Part III students to undertake a research activity and write a dissertation on the project. So far the students have been doing this on their own with no financial outlay from the University. I wonder how long we can continue without offering any assistance but something has to be done to help defray some of the expenses by the students.

Publications

Nothing published officially yet although one article has been accepted for publication by the Ghana Medical Journal (should have been in last month, September, 99). Title of article is : Dental Disease Burden Among Ghanaians—Review of the Literature. There are two other articles being typed to be sent for consideration by other various Journals.

- A. Dental Auxiliary Utilisation in Ghana: The Status of the Dental Surgery Assistant
- B. Dental Service Utilisation at the Korle Bu Teaching Hospital : Ghana.

Conferences/Seminars/Workshops

- A. The Ghana Dental Association 8th Annual Congress and the National Dental Health Awareness Week - June /99.
- B. Workshop by the CDO (the Ministry of Health) on a proposed national survey of 15 year old School children.
- C. Workshop by the CDO (the Ministry of Health) on finding a strategy to upgrade untrained DSAs who have been in the workforce for over 18 years.

Benefactors

Thanks are in order to the Unilever Ltd (Lever Brothers Ltd.) for supporting the Department in its endeavour to take dentistry to the most needy — the rural communities in Ghana.

DEPARTMENT OF ORAL SURGERY AND ORAL RADIOLOGY

Overview

During the Academic Year 1998/1999, the Department offered courses to three clinical year students. The 1st Year in Local Anaesthesia. The 2nd and 3rd Years in Oral and Maxillofacial Surgery and Oral Radiology.

The courses comprised Didactic and Interactive lectures, practical sections on Pig's head for the final clinical year and clinical sections for the 2nd and 3rd Years under Local Anaesthesia. The 3rd Years attend theatre for General Anaesthesia sections.

The latter would be taking their final BDS examinations during the months of November and December and we are working hard to see them through successfully.

Staffing Position of Department as at September 1999

Academic/Research Staff	-	2		
Senior Staff	-	2	(Ministry of Health Staff)	
Junior Staff	-	10	-	-

Courses Taught/No. of Students

Course	Level	No. of Students
Local Anaesthesia	1st Clinical Year BDS Part I	6
Oral Surgery I	2nd Clinical Year BDS Part II	5
Oral Surgery II]	3RD Clinical Year BDS Part III	6
Oral Radiology]		
Trauma Course	MBCHB Part I	
Maxillofacial Injuries		
Jaw Swellings	MBCHB Part II	

Research in the Department

Parkins Grace	-	Oral tumors and relationship with viruses.
Abdulai A.E.	-	(1) Oral Manifestation of AIDS Epidemiological Aspects (completed) Dentist's role in control of HIV infection.
	-	(2) Fibro Osseous Lesions - Analysis

Publications

Parkins G.,	-	Maxillofacial Injuries at the Korle-Bu Teaching Hospital - A preliminary study. GMJ Sept. 1999 Vol.33 (3).
	-	Scientific Publication from AHSC "Oral Tumors - A Hospital Based Survey"

Conferences

Parkins, Grace	-	28th - 29th September 1998, Accra, Ghana.
	-	Attended AO seminar on Shaft fractures, organised by Mathy's Medical Ltd., Switzerland and Reha-Medical Supply Ghana Ltd., on behalf of Association for the study of Internal Fixation (AO-ASIF).
	-	13th- 18th December, 1998
	-	Davos, Switzerland AO-ASIF Cranio Maxillofacial course - Internal Fixation with Plates and Screws in Trauma, Reconstruction and Orthognathic Surgery.

19th - 23rd April 1999, Accra, Ghana.
African Health Science Conference Paper read: "Oral Tumors - A
Hospital Based Survey".
25th - 26th June, 1999
Scientific Congress of the Ghana Dental Association.
Chairperson for talk on "Management of Impacted wisdom teeth".

Benefactions

Six (6) new Dental Chairs have been brought in by Hospital Engineering Ltd.
Four (4) have been fixed. In addition equipments, instruments and materials
including two (2) Dental Xray machines have been given.

Visitors

Nil

DEPARTMENT OF ORTHODONTICS AND PEDODONTICS

Overview

There was tremendous pressure on us at the beginning of the year because unlike the previous year when we had only two final year students, we had six final year students using the same clinical facilities. To optimize chair time of each student we linked their outreach services to their sessions with the Department of Community Dentistry.

We were most relieved to move into the new Dental School building on July 9, 1999. In this building each student had a modern and fully functioned dental chair to himself/herself during our clinical sessions. This allayed our fears of them not having adequate clinical exposure. The building was commissioned on August 23, 1999 and we were pleasantly surprised and touched that students worked together to clean and decorate the building themselves to save the school some money.

We are eternally grateful to have the new building and the equipment that came with it and we aim to improve the quality and quantity of the services that we render.

Staffing position of the Department as at November 1999

Courses taught/no. of students

Level	Course	No. of students
1st Clinical Year	Introduction to Clinical Dentistry	6
2nd Clinical Year	Ortho/Pedo II (Laboratory Techniques)	5
3rd Clinical Year	Ortho/Pedo III (Clinical Experience)	6

Research in the Department

Newman-Nartey, M.A.	-	The Orthodontic Management of cases with Talon Cusp.
	-	The Effect of Digit Sucking on the Orofacial Structures.
	-	The Incidence of Angles Class I, Class II and Class III malocclusion in Ghanaians
	-	The Incidence of the Maxillary Midline Diastema and its Management.

Publications

Oral Habits of Orthodontic Patients - Submitted to The Nigerian Dental Journal.

Conferences/Seminars/Workshops attended

Newman-Nartey, M.A.	-	Ghana Dental Association 7th Annual Conference, Accra (June 1999) - Chaired session on "Serial Extraction."
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Benefactions

Nil.

Visitors

His Excellency, the Vice President of Ghana, Prof. J.E.A. Mills, during the commissioning of the new Dental School building.

RESTORATIVE DENTISTRY

Overview

Much improvement in the availability of equipment and space realized with the commissioning of the New Dental School building in July.

- Ankrab, G. A. Has arrived after completing his Msc programme and applied for appointment as lecturer in the Department of Restorative Dentistry. He has been interviewed on September 21, 1999 and formal appointment letter will follow.
- He has also started lecturing the 1st clinical year students in pre-clinical prosthetics and operative technique.
- **Toworle, G.K.** Appointed lecturer in Dental Material Science to handle the 1st clinical year students. He has also been appointed as Acting Head of Department of Basic Dental Science, Dental Material Science Laboratory is necessary to enhance the teaching of the subject. This would require a substantial amount of cash and the school has been asked to look into the matter.

Final BDS III Examinations

Scheduled to take place between November 22, 1999 and December 2, 1999. Six (6) candidates will be registered for the examinations. The External Examiner invited is Dr. R.P. Robison of Kings College, U.K.

Staffing and workload

NAME	DESIGNATION	CLASS/SUBJECTS TARGET
Dr. F.A. Nyako	Asst. Head of Dept.	2nd year Prosthetic Dentistry 3rd Year Prosthetic Dentistry
Dr. Toworle	Lecturer (Dept. of Material Science 1st year)	1st Year Dental Anatomy (ASSIST)
Dr. G.A. Ankrab	Lecturer	1st Year Pre-Clinical Prosthetics/ Operative Tech.
Dr. Yeboah Agyapong	Part Time Lecturer	2nd Year Conservation Dentistry (Crown & Bridge)
Dr. Dan Berko	Part Time Lecturer	2nd & 3rd Year Advance Operative Tech. Laboratory Course.

Senior/Junior Staff - same as Dental School Staff

Courses Taught/No. of students: Restorative Dentistry

BDS	I	6
BDS	II	6
BDS	III	6

Research activities

Organizing Research Activities

- Nyako, E.A., Bruce, Ishmael
- Normalizes Data on common tooth shades among patients visiting the University of Ghana Dental School
 - Tooth mortality among patients seen at the Korle-Bu Teaching Hospital.

DR. TOWORFE, ET AL. (INTERDEPARTMENTAL COLLABORATION: (RESTORATIVE/MICROBIOLOGY, U G M S.)

Investigation of Antibacterial action of some locally manufactured dentirifics.

- Nyako, E.A
- The problems associated with the provision of full acrylic patient dentures (UGDS).

Publications/papers

- Toworfe, G.K
- Current Trends in Dental Restorative Biomaterials
 - Ghana Dental Association Annual Congress. Novotel Accra, July 1999.
- Nyako, E.A.
- Surgery of the impacted 3rd molar paper presented at the Ghana Dental Association Annual Congress at Novotel, Accra, July 1999.

Conferences attended

- Nyako, E.A.
- 39th Annual Conference of West African College of Surgeons, Conakry, Guinea 21/27 Feb 1999.
 - Annual conference of the Ghana Dental Association, Novotel, Accra, June 25/26, 1999.
- Toworfe, G.K.
- Ghana Dental Association Annual Conference June 25/26, 1999, Novotel, Accra.
 - Ghana Science Association Biennial Conference, Accra, Ghana, August, 1999.
- Berko, Dan
- Ankrah, G.A.
- Ghana Dental Association, Annual Conference, Accra - Ghana, June 25- 26, 1999.

UNIVERSITY OF GHANA MEDICAL SCHOOL

DEPARTMENT OF ANAESTHESIA

Overview

Dr. (Mrs.) Gladys Amponsah took over the Headship of the Department from 1st October, 1998. Dr. N.A.D. Coker resigned from his post during the year.

Staffing position of Department as at September 1999

Academic/Research Staff -	5	
Senior Staff	-	1
Junior Staff	-	1

Courses taught/number of students

D.A. Faculty of Anaesthesia (WACS)

Fellowship in Anaesthesia

MB Ch.B Pt.II -		
Anaesthesia	}	
Intensive Care	}	73 students
Cardiopulmonary Resuscitation (CPR)	}	

Research in the Department

Amponsah, Gladys	-	Autologous blood donation and its utilization in Korle Bu Teaching Hospital with Dr. Justina Ansah, National Blood Transfusion Services.
Boni, Frank	-	Attributes to Pain relief
	-	Evaluation of Regional Anaesthesia in Ghana
	-	Improving Standards of practice of Anaesthesia in Ghana.
Lamprey, Eugema	-	On-going Emergency Surgery at 1st Floor Surgical theatres and outcome.
Anneye, Ernest A	-	C.P.R. Manual with Drs. Boni, Baddoo and Lamprey
	-	Outcome, Non-Cardiac I.C.U. Admissions in Ghana

Publication

Amponsah, Gladys	-	Post-operative nausea and vomiting in children in Tuen Mun Hospital". Accepted for Publication by African Journal of Anaesthesia and Intensive Care
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- Baddoo, H.K. - Submitted to Ghana Medical Journal for consideration for Publication: "Anaesthesia Manpower Recruitment at Korle-Bu Teaching Hospital - A Survey of House Officers.
- Lamptey, Eugenia - "Manual of Accidents and Emergencies" - contributor to 2 chapters: Ch.4 - Paediatric Emergencies, Ch.5 - Resuscitation. To be published later this year

Conferences/Seminars/Workshops attended

- Amponsah, Gladys - Ghana Anaesthetic Society meeting at 37 Military Hospital in November, 1998
Paper: Modern Trends and Developments in Anaesthesia: its implications for Ghana.
- Attended West African College of Surgeons Conference in Guinea, Conakry - 21st to 27th February, 1999.
- Boni, Frank - Society of Anaesthetists of West Africa Conference, Lagos.
Paper: Cerebral protection.
- Ghana Anaesthetic Society Conference
Paper: Anaesthetic Management of the Hypertensive.
- Dundee Memorial Lectures (Belfast)
- Lamptey, Eugenia - Surgical Research Society Conference in Kumasi, December, 1998.
Paper: Case Presentation - Cardiac Arrest following tonsillectomy bleeding: A case of undiagnosed prolonged usage of nonsteroidal anti-inflammatory drug.
- Society of Anaesthetists Conference in Lagos, May 1999.
Paper: Acute Respiratory Distress Syndrome.
- Aniteye, Ernest A. - Society of Anaesthesia of West African Conference - 10th to 15th May, 1999.
Papers: i. Current Concepts in Critical Care Management Oxygen Therapy in Developing Countries.
ii. Workshop on Test Construction 3rd - 4th June, 1999.

Benefactions

Presentation of an Infusion Pump, Books and Booklets by Zeneca to the department

Visitors

Dr. Alice Edler and Husband visited the department in June 1999. The purpose was to get memorandum of Understanding signed for the new ASA-WFSA/GHANA Diploma in Anaesthesia programme.

DEPARTMENT OF ANATOMY

Overview

The academic programmes of the department were earned through successfully. 20 of the 92 students obtained GPA of 4. Staffing levels remain low and threaten movement of staff for personal advancement. Computerisation is on course and the department will soon be hooked onto the Internet. 5 graduate students are expected to join the M.Phil Programme, in the 1999/2000 Academic Year.

Staffing position of Department as at September 1999

Academic /Research Staff (6)

Rev. Prof. A. S. Ayettey	-	Professor
Prof. C. N. B. Tagoe	-	Assoc. Professor and Head
Dr. A. L. Lawson	-	Senior Lecturer
Dr. F. K. Addai	-	Senior Lecturer
Mrs. Esther E. Dennis	-	Lecturer
Prof. F. N. L. Engmann	-	Assoc. Prof. (Part-time)

Dr. A. L. Lawson proceeded on a 1-year sabbatical leave to be followed by a year's leave of absence from August, 1999.

Dr. F. K. Addai returned from study leave in January, 1999.

Prof. Amomoo-Kuofi did not take up his appointment.

Senior Staff (4)

Mr. J. F. Bart-Plange (on contract)	-	Superintendent Technologist
Mr. I. P. Odoi (on contract)	-	Superintendent Technologist.
Mr. Edmund Mensah	-	Technician

Junior Staff (2)

Miss Magdalene Mensah	-	Clerk Grade II
Mr. Edward Mensah	-	Messenger

Courses taught/number of students

Courses	Number of Students
(a) Level 300	92
ANAT 301	
ANAT 302	

ANAT 303
ANAT 304
ANAT 305
ANAT 307
ANAT 309

(b) Others

Applied anatomy for candidates preparing for the Primary Fellowship Examinations of the West African Postgraduate Medical College	-	8
M.Phil	-	0
Ph.D	-	1

Research in the Department

- (a) Comparative ultrastructure of mammalian cardiac cells
- (b) Studies on neural tube wound healing
- (c) Comparative study of the structure and function of the placenta in different haemoglobin genotypes
- (d) Differential embryotoxicity of enantiomeric drugs

Publications

- Dennis, E.E., Ayettey, A.S., Tagoe, C.N.B. and Yates, R.D. - (1999). Effect of low temperature on the ventricular myocyte ultrastructure of the syrian hamster (*mesocricetus*): A morphometric study. *Journal of the Ghana Science Association (Special edition)* 2(2), 52 - 56
- Dennis, E.E. - (1999). A morphometric study of mitochondria of ventricular myocytes
- Addai, F K. - (1999). Human cytotrophoblast cells maintained in serum-free Dulbecco's Modified Eagle's Medium (DMEM): some observations. *West African Journal of Anatomy*, Vol. 6 (in press).
- Tagoe, C.N.B., A.S. Ayettey and R.D. Yates - (1999). Ultrastructural morphometric studies on the myocardium of the seal. *West African Journal of Anatomy*, Vol. 6 (in press)

Conferences/Seminars/Workshops attended

- (a) 8th International Conference of the Anatomical Society of West Africa. August 3-5, 1999, Kumasi.
- (b) A morphometric study of mitochondria of ventricular myocytes of insectivorous bat and the hamster. Presented by Mrs. Esther E. Dennis
- (c) Human cytotrophoblast cells maintained in serum-free Dulbecco's Modified Eagle's medium (DMEM): some observations presented by Dr. Frederick K. Addai..

- (d) Ultrastructural morphometric studies on the myocardium of the seal. Prof. C.N.B. Tagoe, Rev. Prof. A.S. Ayettey and Prof. R.D. Yates.
- (e) 21st Biennial Conference of Ghana Science Association, 8th - 13th August, 1999, Legon, p.47.
 - i. A morphometric study of ventricular myocytes of the hamster and insectivorous bat Mrs. Esther E. Dennis
 - ii. Cariogenicity of two Ghanaian meals. Dr. Frederick K. Addai

Extension Work

Prof. Tagoe acted as External Examiner in Anatomy at the Primary Fellowship Examinations of the West African College of Surgeons in October, 1998 and April, 1999 respectively.

Prof. Tagoe was External Examiner in Anatomy for both the main Examinations of the School of Medical Sciences, U.S.T., Kumasi in July, 1999.

Prof. Tagoe and Dr. Addai are Editor and Assistant Editor, respectively, for the West African Journal of Anatomy.

The Department noted the Ghana edition of the WACS Primary Examinations.

Benefactions

Inkjet transparencies from Department of Anatomy, Tulane University School of Medicine, U.S.A.

Visitors

Professor J.R. Jeter (Jnr.) Of Tulane University, Anatomy Department, visited in May/June, 1999 to assess the programmes and general organisation of the department.

DEPARTMENT OF BIOCHEMISTRY

Overview

The Department has functioned very well within the year under review in the areas of teaching, research and extension activities.

A Newborn Screening Unit was added to the Molecular Biology Laboratory. A pilot newborn screening study involving 1050 newborns was carried out.

Staffing position of Department as at September 1999

(a)	Academic Staff	-	5 (3+1+1 contract/study leave)
(b)	Senior Staff	-	(4+1 study leave)
(c)	Junior Staff	-	

Courses taught/number of students

- (a) Members of the Department taught the following courses:
Structure and function of Biomolecules. Intermediary Metabolism. Genes: Replication and Regulation and Signal Transduction to Medical and Dental Students.
- (b) Medical Biochemistry for the West African Postgraduate Medical College Primary Examination candidates.
- (c) Specialist course in Biochemistry for Perioperative and Intensive Care Nurse.

Students Numbers

92 Level 300 undergraduate students comprising 80 medical and 12 dental students. 10 postgraduate students and 25 perioperative and intensive care nurses.

Research

Major research in the department was concentrated on Metabolic Disorders and Nutritional and Energy Balance in health and disease. Data was collected on eight metabolic disorders (Phenylketonuria, Branched-Chain ketonuria, Galactosemia, Homocysteinuria, Hypothyroidism, Sickle Cell Disease, Biotinidase Deficiency and HIV) in neonates.

Publications

- Asante-Poku S. - Korle-Bu Notes. Genes : Replication and Regulation. Bel Team Publications. Accra 1998

Conferences/Seminars/Workshops attended

- Asante-Poku S. - Annual meeting of Association of American Medical Colleges, New Orleans, U.S.A. October 1998
- Workshop on Group Teaching Charlottesville, VA, USA. November 1998
- "Medical Science Education" 4th Biennial Conference of the International Association of Medical Science Educators, Washington DC, U.S.A. July 1999
- Workshop on Examination and Test Development organized by the Medical Education Unit, UGMS, Korle-Bu. June 1999
- Seminar on "Application of Molecular Biology in Clinical Medicine". Organized by the West African College of Physicians. September 1998.
- "Gene manipulation and Religion". Facilitator at a Seminar at Trinity College, Legon. June 1999

- Opong S.Y. - Workshop on "Examination Test Development". Organized by the Medical Education Unit, UGMS Korle Bu. June 1999
- Resource Person at a Seminar on the "Application of Molecular Biology in Medicine" organised by the West African College of Physicians.
- Workshop on Diabetes Mellitus organized by the Ghana Diabetes Association. 9 August 1999.
- "Gene Manipulation and Religion". Resources Person at a Seminar at Trinity College, Legon. June 1999.

Honours

- Asante-Poku S.
- The Education Commission for Foreign medical Graduates awarded a 3 month Senior Fellowship in Medical Education, University of Virginia School of Medicine, Charlottesville, Virginia, USA, 1998.
 - Appointed Director of Medical Education, UGMS, Korle-Bu. March 1999 - 2002.
 - Elected Charter Member of the International Association of Medical Science Educators. 1998.

CENTRE FOR TROPICAL CLINICAL PHARMACOLOGY & THERAPEUTICS

Overview

The Centre for Tropical Clinical Pharmacology and Therapeutics (CTCPT) was established as clinical and research department within the University of Ghana Medical School (UGMS) in 1982 through a World Health Organisation, Tropical Disease Research (WHO/TDR) grant. At the outset, the main objective of the Centre was to conduct studies on the clinical pharmacology of drugs used in tropical diseases, particularly malaria, schistosomiasis and onchocerciasis.

Currently the CTCPT has a broader focus and also specialises in field and clinical techniques for studying malaria parasite sensitivity to antimalarials, drug analyses (particularly antimalarials), pharmacogenetics, pharmaco-epidemiology and drug use intervention studies.

Academic staff of the Centre are facilitators on courses run both locally and internationally for prescribers by the International Network for the Rational Use of Drugs (INRUD) and the International Network for the Development of Pharmacotherapy Teaching (INDEPTH).

Staffing position

(a)	Academic/Research staff	-	1
(b)	Senior Staff	-	6
(c)	Junior Staff	-	3

Courses taught/number of students

Nil

Research collaboration

(a)	Ministry of Health	-	National Malaria Control
(b)	Noguchi memorial Institute for Medical Research Department of Child Health(UGMS) University of Copenhagen	-	Malaria Research
(c)	University of Aberdeen	-	Pharmacogenetic Studies
(d)	University of Ghana Medical School KNUST Ministry of Health	-	Monitoring and Evaluation of the Ghana Diabetes Project
(e)	Pharmacy Department Korle Bu Teaching Hospital	-	Prescribing Behaviour Prescription Formats
(f)	Endocrine Clinic Korle Bu Teaching Hospital	-	Thyroid Diseases Study

Teaching

Academic staff of the CTCPT run undergraduate and postgraduate courses in clinical pharmacology at the UGMS. Additionally, Dr. Ofei teaches endocrinology and gives clinical instructors for the introductory, co-ordinated, senior clerkships and postgraduate courses in internal medicine.

Extension Services

Dr. Francis Ofei		
Ghana Diabetes Association	-	President
Pan-African Diabetes Study Group	-	Member
National Diabetes Advisory Board	-	Member
Ghana Medical Association	-	Member, Ethics Committee
International Network for the Development of Pharmacotherapy Teaching (INDEPTH)	-	Member
International Network for the Rational Use of Drugs (INRUD)	-	Member

Benefactions

Nil

DEPARTMENT OF CHEMICAL PATHOLOGY

Overview

The Department of Chemical Pathology was involved in teaching, research and service to patients at Korle Bu Teaching Hospital

Staffing position of Department as at September 1999

(a)	Academic/Research Staff	-	3
(b)	Senior Staff	-	6
(c)	Junior Staff	-	4

Courses taught/number of students

Course	Number of Student
Level 300	Nil
Level 400	83
1st Clinical Year	Nil
MB Ch.B Pt.II	Nil
MB Ch.B Pt.I	Nil
DMIT	14

Department of Chemical Pathology also offers postgraduate training.

Research in the Department

- (a) Reference ranges of biochemical analytes
- (b) ADA levels in various diseased conditions
- (c) Pancreatic elastase I assays
- (d) Lipid profile of hypertensives, diabetes etc.
- (e) Hydrogen breath tests in apparently healthy Ghanaians
- (f) Serum albumin levels and lipid profiles in some patients with nephrotic syndrome
- (g) Comparison of Adenosine Deaminase and glycated haemoglobin in type II diabetes before and after treatment.

Publications

- Two papers have been accepted for publication
- Total antioxidant status in non-insulin dependent diabetes mellitus patients in Ghana
- The incidence of glycosuria and diabetes in patients attending the Korle-Bu and Mamprobi Polyclinics.

Conferences/Seminars/Workshops attended

Dr. Maddy attended a workshop to review a draft of natural health laboratory services policy.

Benefactions

Messrs MES Equipment donated one photocopier machine to the department.

Visitors

Nil

DEPARTMENT OF CHILD HEALTH

Overview

The Department of Child Health continued to work very hard despite continuing shortage of Senior Members.

Staffing position of Department as at September 1999

(a)	Academic/Research Staff	-	6	(2 on Sabbatical leave)
(b)	Senior Staff	-	1	
(c)	Junior Staff	-	3	

Course taught number of students

Course	Number of Students	
Level 300	-	Nil
Level 400	-	Nil
1st Clinical Year	-	Nil
MB Ch.B Pt.I (Child Health)	-	66
MB Ch.B Pt. II	-	Nil

Research in the Department

Malaria

Publications

- Welbeck, Jennifer E.,
Hesse, I.F. A. - **Pattern of Childhood Malignancy in Korle Bu Teaching Hospital, Ghana.** West African Journal of Medicine 1998; 17(2):81-84.
- **Editorial on Breastfeeding.** Ghana Medical Journal 1998, 32a. 905-906.

Conferences/Seminars/Workshops attended

- Rodrigues, O.** - **Prevalence of gall stones in Ghanaian Children with sickle cell disease.**
Darku R., Commye J.O.O. and Kotei C N - **Presented at the 20th African Health Sciences Congress, Accra, April 19th - 23rd 1999.**
- Goka, Bamenla Q** - **Binding of complement C3d to erythrocytes is associated with reduced haemoglobin levels in acute childhood malaria.** Presented at MIM African Malaria conference on Malaria, Durban. March 1999.
- H Kwarko, SA Ohene et al.** - **BQ Goka, V Adabayeri, E Ofori-Adjei, J Neequaye et al. Comparison of Chloroquine with Artesunate. In the treatment of Cerebral Malaria In Ghana Children** Presented at 20th African Health Sciences Congress: Accra April 1999
- **Neequaye J, Prempeh OB, Ofori-Adjei E, Goka BQ et al. Chloroquine is still effective in the treatment of Cerebral Malaria.** Presented at 20th African Health Sciences Congress, Accra. April 1999.
- **Akanmori B, Kurtzhals J, Goka BQ et al. Immunopathology of Severe Anaemia in P. falciparum infected children.** Presented at MIM African Malaria Conference on Malaria, Durban. March 1999.
- **Research Coordination Meeting for MIM (Multilateral Initiative on Malaria)**
Venue: Kisumu, Kenya
Dates: 22nd - 26th February 1999.

Benefactions

Nil

Visitors

Nil

DEPARTMENT OF COMMUNITY HEALTH

Overview

The major activities in the Department of Community Health covered teaching, research, demonstration and service. In addition to teaching undergraduates, the department also prepared postgraduates for the West African Postgraduate Medical College examination. Despite the limitation on the staffing situation, the Department continues to manage and run the Medical School Clinic. Field tutors continue to augment the staff strength of the department. They guide and supervise students during the senior clerkship programmes.

Staffing position of Department as at September 1999

(a)	Academic/Research Staff	-	5 (1 on post-retirement contract)
(b)	Senior Staff	-	10
(c)	Junior Staff	-	23

Courses taught/number of students

Courses		No. of Students
Level 300	-	77
Level 400	-	72
1st Clinical Year	-	71
MB ChB Pt.I	-	67
MB ChB Pt.II	-	72

Research in the Department

- (a) Adolescent Reproductive health
- (b) Cost Recovery on the Use of Hospital Services
- (c) Home Management of Malaria
- (d) Breastfeeding Patterns in Children under 24 months in Accra
- (e) Drug Compliance among Adults
- (f) Factors affecting Survival of the Newborn at Korle Bu

Publications

Edwin K. Wiredu, Robert Kumoji, Ramaswamy Seshadri and Richard B. Biritwum. Osteometric Analysis of Sexual Dimorphism in the Sternal End of the Rib in a West African Population. *J. Forensic Sci* Vol. 44(5) Sept. 1999, 921-925.

Conferences/Seminars/Workshops attended

Biritwum R.B. - Attended the MIM African Malaria Conference. Durban, South Africa, 14-19 March, 1999.

- Ashitey G.A., Osei L. and Richardson R. - Attended the Twenty Third Annual General and Scientific Meeting of the West African College of Physicians, held in Accra, Ghana; 15th - 20th November 1998.
- Richardson, R. - Higher Education Link visit to the School of Tropical Medicine, Liverpool 22nd January - 12th February, 1999.
- Osei L, Richardson R. and Tetteh E - Dissemination Seminar on making health Data come Alive, organised by the Department of Community Health, UGMS, Korle Bu, Accra 8th April, 1999.
- Richardson R. - Attended workshop on Reproductive Health Law and Policy, organised by FIDA (GHANA) and the Centre for Reproduction Law and Policy (New York), Novotel, Accra; 24-26 June, 1999.
- Osei L and Richardson R. - Attended the Executive Meeting of the West African College of Physicians held in Lagos, Nigeria; 30th June - 2nd July, 1999.

Benefactions

Nil

Visitors

Cindy Arraga Lauer and Kaaren Christopherson - Academy for Educational Development : The Linkages project Washington DC, USA

Hannah Adjei - Nutrition Unit, MOH, Accra

Other Activities

- Teaching (part-time) Epidemiology to Regional Institute for Population Studies (RIPS).
- Teaching (part-time) Biostatistics and Computing methods to School of Public Health, University of Ghana
- Editorial Board, Ghana Medical Journal
- Teaching (part-time) Public Health Nursing School
- Teaching (part-time) Nursing Students.

DEPARTMENT OF HAEMATOLOGY

Overview

Undergraduate, postgraduate and diplomate (DMLT) teaching was carried out successfully despite the shortage of microscopes. Two members of faculty were actively involved in revising the structure of the National Blood Transfusion service. Areas of research have been identified but funding is a major obstacle. The department also manages the Centre for Clinical Genetics at Korle Bu. Together with other paraclinical departments courses in MSc, Mphil and PhD in various disciplines in laboratory medicine have been developed.

Staffing position of Department as at September 1999

a.	Academic/Research	-	3
b.	Senior Staff	-	3
c.	Junior	-	4

Courses taught/number of students

Course	No. of Students
Level 400 (Haem 401, 402, 403, 404)	83
Diploma in Medical Lab. Technology (Haem 041, 042, 043, 044)	13

Research in the Department

- Red cell antigens in the Akans of Ghana
- Effect of Vitamin C on the clinical severity of sickle cell anaemia
- Vitamin B12 and serum folate levels in healthy Ghanaian adults
- Causes of anaemia in acute childhood malaria in conjunction with Department of Paediatrics, University of Ghana Medical School, Noguchi Memorial Institute for Medical Research, and Centre for Medical Parasitology, University of Copenhagen, Denmark
- Natural History of chronic myelocytic leukaemia in Korle Bu
- Natural history of multiple myeloma in Korle Bu

Publications

Nil

Conferences/Seminars/Workshops attended

- | | | |
|----------|---|---|
| Ekem, I. | - | Budget Seminar, Korle Bu Teaching Hospital, - - 21-23 July 1999 |
| | - | Time management seminar, Korle Bu Teaching Hospital - 1st - 2nd September 1998. |

- Scientific Meeting of West African College of Physicians, Accra, November 1998.
Paper - Childhood Acute Lymphoblastic Leukaemia in Ghanaians and Germans. A comparative study.
- Acquaye, J.K. - Workshop in Examination and Test Development procedures. University of Ghana. 17-19, August 1998. Dr. I. Ekem
- Workshop in Examination and Test Development, University of Ghana Medical School.
- Attended workshop on Dissemination of Findings of Vitamin A deficiency and anaemia prevalence surveys. Accra, 24-25 November 1998.
- Workshop on Double Fortified Salt towards the simultaneous control of iron deficiency anaemia and iodine deficiency disorders. University of Ghana, February 1999
- Kwartko, Harriet - 20th African Health Sciences Congress - 19th - 23rd April 1999.
Paper - Natural History of complement factor C3D binding to Erythrocytes after acute childhood malaria.

Benefaction

Nil

Visitors

Nil

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 14 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 1999

(a)	Academic Research Staff	14
(b)	Senior Staff	6

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:

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	-	12 weeks x 2
1st Clinical Year Students		

This is a coordinated course undertaken in conjunction with the Department of Surgery. The course consists of 1 daily 1 hour lectures for 20 weeks in addition to bedside teaching and tutorials in the wards.

(c) Senior Clerkship	-	10 weeks x 4
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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
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This course consists of ten 1 hour weekly lectures, and clinical out-patient sessions for small groups for 8 weeks.

(e) Postgraduate Programme		
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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.

Course	Number of Students
(a) Introductory Clinical Course Medicine and Surgery	73
(b) Junior Clerkship in Medicine/Surgery	73
(c) Senior Clerkship in Medicine	73
(d) Dermatology Course	
(e) Postgraduate Course in Internal Medicine	8

Research in the Department

Owusu, S.K.	-	Search for susceptible genes for Type 2 diabetes in people of African ancestry (Nigerians, Ghanaians and African Americans) which was started in 1998 continues.
	-	Analysis of data on prevalence of Diabetes, Hypertension and ischaemic heart disease and their risk factors continues.
	-	Management of Diabetes in Ghana

Nyame, P.K.	-	Post-Mortem Study of Stroke Patients
Neequaye, A.R.	-	Treatment of Tuberculosis and Multi Drug Resistant TB in Ghana Clinical Interaction of HIV and Tuberculosis and its management.
Mate-Kole, M.O.	-	Glomerulonephritis in Ghana
	-	Medical School Lupus nephritis study in progress
	-	Chronic Renal Failure in Ghana Pathogenesis and patterns.
Addy, J.H.	-	Genetics of Hypertension
	-	Atopic Exzema Survey
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.	-	The Reno-humoral basis of familial hypertension in the Ghanaian
	-	Effect of exercise on respiratory function in Ghanaian children
	-	Interrelation between HIV and Tuberculosis in Ghana
	-	Multi-drug resistant TB in Ghana Medical School Emergency
	-	Treatment of Asthma in Korle Bu Teaching Hospital.
Addo, H.A.	-	Aquagenic Prurmus - A Clinical Study
	-	Patch Testing in Contact Dermatitis
Amoah, A.G B	-	Africa America Diabetes Mellitus Project
	-	Noncommunicable Diseases Survey 1998 (NCDS 98)
	-	Clinical/Anthropometric Characterization of Diabetics
	-	Diabetes Morbidity and Mortality at Korle Bu Teaching Hospital
	-	Health knowledge and attitudes of diabetic subjects
	-	Prevalence of Diabetes and Hypertension in Ghanaian Civil Servants and health knowledge and attitudes.
Ofei, Francis	-	Ghana Diabetes Project
	-	Evaluating and monitoring - year
	-	Diabetes Foot Study
	-	Thyroid Disorders in Ghana
	-	Adverse Drug Events Reporting
	-	Prescription Survey
Nkrumah, K.N.	-	Upper Gastrointestinal Endoscopy for Study of peptic Ulcer Disease and Upper Abdominal Pain
	-	Colonoscopy Investigation of Suspected Inflammatory Bowel Disease and Chronic Diarrhoea
	-	Study of Hepatitis B and C Viral Markers Among at Risk Employees and patients with Jaundice at Korle Bu Teaching Hospital (with Prof. J.A.A. Mingie).

- Faecal Pancreatic Elastase-I in Chronic Pancreatitis (with Prof. Rana. Chemical Pathology.

- Kpodonu, J.
 - (a) The Mamprobi Project
 - Patient Education Project
 - Myocardial Infarction

- Publications**

- Owusu, S.K.
 - Albert G.B. Amoah, Samuel K. Owusu, J. Terry Saunders et al; Facilities and resources for diabetes care at regional health facilities in Southern Ghana. Diabetes Research and Clinical Practice 1998; 42: 123-130.

- Nyame, J.H.
 - Computerized Tomographic Scan of the Head in the Evaluation of Stroke in Ghanaians. East African Medical Journal, November 1998 issue.

- Addy, J.H.
 - (Editor-in-Chief) Large Differences in Maternal Mortality Figures for Ghana and between Developed and Developing Countries. Editorial. Ghana Medical Journal Vol. 32a 1998.

- Amoah, A.G.B et al.
 - Facilities and Resources for diabetes care in regional Health Facilities in Southern Ghana Diabetes Research and Clinical Practice 1998; 42: 123-130.
 - Asibey-Berko E. Amoah A.G.B. Endemic Goitre and urinary iodine levels in rural communities in the Addo F and Agyepong E. Bolgatanga and Builsa Districts of the Upper East Region of Ghana. East African Medical Journal. 1998; 75: 501-504.
 - Frimpong-Boateng K. and Amoah A.G.B. et al . Cardiopulmonary bypass in sickle cell anaemia without exchange transfusion. European Journal of Cardiothoracic Surgery 1998; 14: 527-529.

- Quaye KIE, Brakohiapa L.A., Amoah A.G.B. et al
 - Acute effects of five Ghanaian carbohydrate diets on serum glucose, triglyceride and insulin in NIDDM. Asia Pacific Journal of Clinical Nutrition. 1999; 8: 23-35.

- Nkrumah, K.N.
 - Endoscopic Evaluation of Upper Abdominal Symptoms in Adult Patients. Saudi Aramco AlHasa Health Centre, Saudi Arabia; Review of 315 cases. (Submitted to West African Journal of Medicine)

- Hesse, I.F.A
 - Incidence of hypertension in a Ghana Prison. Ghana Medical Journal 1998; 32: 935-940.
 - Culture proven multi-drug resistant TB in Ghana. Ghana Medical Journal 1998; 32.

- Kpodonu, J.
 - A Cross-cultural project for training health personnel in methods of patient education for hypertension - WHO/CVD/98.2 (World Health Organisation - World Hypertension League.

Conferences

- Owusu, S.K. - **5th UNESCO North South Human Genome Conference. 15th -17th February 1999. University of Namibia Windhoek, Namibia.**
- Nyame, P.K. - **Celebration of 20th Anniversary of Noguchi Memorial Institute of Medical Research at GIMPA, Legon - 1999.**
- Amoah, A.G.B. - **Annual Conference of Anaesthesia Society conference at Accra. Presented a paper on the modern trends in the management of Hypertension.**
- Mate Kole, M.O. - **African Nephrology Course Joint SARS - 5- 8th February 1999. Cape Town, South Africa.**
- Nkrumah, K.N. - **The 23rd Annual General and Scientific Meeting of West African College of Physicians. Accra 16 -19 November 1998.**
- **Second Workshop on Examination and Test Development Procedures. University of Ghana Medical School, Korle Bu Teaching Hospital. Accra. June 2 - 3, 1999 (Run by Prof. Jan Jetter).**
- Ofei, F. - **Promoting Rational Drug Use Course, Accra, Ghana - November, 15 - 27, 1998 was a facilitator.**
- **African nephrology Course, Cape Town, South Africa - February 5 - 8, 1999 was a participant.**
- **Management of Congestive Cardiac Failure, Current Trends, Accra, Ghana - April 4, 1999 was the Charman**
- **Management of Type 2 Diabetes Mellitus, Society of Private medical & Dental Practitioners - U.GMS Accra Ghana- May 9, 1999**
Role: Speaker.
- **Rational Use of Antibiotics seminar for medical & Pharmacy practitioners, Accra, Ghana - August 3, 1999**
Role: Speaker.
- **Ghana Diabetes Association Scientific Seminar - Cape Coast, Ghana - August 27, 1999**
Role: Speaker.
- **European Association for the Study of Diabetes (EASD) Annual Conference - Brussels, Belgium - 28th September 2 October 1999**
Role: Delegate.

DEPARTMENT OF MICROBIOLOGY

Overview

Activities undertaken by the department comprise mainly teaching and research. Undergraduate teaching was the major component in addition to teaching of diplomates in nursing and laboratory technology. General clinical microbiological support was provided for the Korle Bu Teaching Hospital in the form of diagnostic services and consultation on various issues.

Staffing position of Department as at September 1999

(a)	Academic/Research Staff	-	5
(b)	Senior Staff	-	11
(c)	Junior Staff	-	9

The five senior members, comprises of two professors (on contract), one senior lecturer and two lecturers.

Courses taught/number of students

- i. B.S (Med. Sci.) Level 400 for semesters 7 and 8
Paraclinical lectures, practicals and tutorials for 82 medical & dental students
- ii. DMLT, Course II Semesters 3 & 4 for 6 students
- iii. Human Biology for Second year BA/B.Sc. Nursing, weekly paraclinical lectures for 46 students.

Research in the Department

- (a) Antibiotic resistance in bacteria
- (b) Epidemiology of Beta-lactamases in bacterial isolates
- (c) Prevalence study of nosocomial infection
- (d) Fungal infections of the eye
- (e) Studies on *Helicobacter pylori* in Ghanaians
- (f) Dual HIV-1/HIV-2 infection in Ghana - Virology and immunology
- (g) Search for markers in relapse case of Burkitt's Lymphoma
- (h) Development of potential vaccine candidate antigens for protection against Schistosomiasis.
- (i) Students on Amoebiasis : Detection and characterization of invasive and non-invasive *Entamoeba* species

Publications

- Newman, M.J. - Lactoferrin and ECP (eosinophilic cationic protein) in nasal secretions of patients with experimental rhinovirus colds, natural colds and presumed acute community-acquired bacterial sinusitis.

- Mingle, J.A.A., - Sagoe K.W.C., (1999): Similar HIV-1 Subtype A V3 Loop Sequences
 Britton S. Affram R. - are Found in Dual HIV-1/HIV-2 and HIV-1 only Seropositives in
 Djokoto A. and Sonnerborg A. - Ghana Aids Res. And Human Retroviruses Vol. 15 SPP 775-779.

Conferences/Seminars/Workshops attended

- Newman, M J - Ghana Medical Association Annual General Conference Sunyani,
 November 1998
 - Quality Assurance in the Laboratory and other Ancillary Services
 - 23rd Annual General Meeting - West African College of Physicians
 Accra, November 1998
 - 31st Annual General Meeting - Planned Parenthood Association
 Ghana, Tamale, November 1998
 - Report of medical Committee (PPAG)
 - Symposium - AIDS and Obstetrics and Gynaecology Accra, February
 1999.
 - Risk of transmission of HIV between patients and staff
 - 20th African Health Sciences Congress, Legon, Accra, April 1999
- Adiku, T K - 20th African Health Sciences Congress, Legon, Accra - Ghana -
 April 19-22, 1999

Extension Work

- Newman, M.J. - Chairperson - Infection Control Committee Korle Bu
 Editor - Ghana Medical Journal
 Council Member - PPAG
 Christian Services Committee (Ridge Church)
- Ayeh-Kumi P.F. - Associate Pastor - City of God
 Marriage Counsellor

- Mingle, J.A.A. - External Assessor, University of Science & Technology, Kumasi
 Member, Laboratory Advisory Committee, Ministry of Health

Boards and Committees of the University

Senior members of the Department served on various Boards and Committee, including the Academic Board and the Board of the Medical School.

List of Senior Members

- Dr. Mercy J. Newman - Head of Department (Bacteriology Unit)
 Prof. Reginald K. Anteson - Parasitology Unit (on Contract)
 Mr P.F. Ayeh-Kumi - Parasitology Unit
 Prof. Julius A.A. Mingle - Virology Unit (on Contract)
 Dr. Theophilus K. Adiku - Virology Unit

Overview

The Department of Obstetrics and Gynaecology has two major units, namely Obstetrics and Gynaecology. The Department trains undergraduate and postgraduate medical students. It continues to play active part in training midwives and students and provides services for patients who attended the Korle Bu Teaching Hospital. Since July 1997, four senior members have been attending clinics at the Legon Hospital. Despite the fact that the work load was very heavy the functional units of the Department including the Family Planning Clinic put out impressive performances. Lecturers in the Department serve as examiners for the Fellowship Examinations of the West African Postgraduate Medical College

Staffing position of Department as at September 1999

Academic/Research Staff	-	12
Senior Staff	-	5
Junior Staff	-	5

Courses taught/number of students

Courses		No. of Students
MB ChB Pt.I	-	67

Research in the Department

- (a) Maternal Mortality Operations Research
- (b) Acceptance of Manual Vacuum Aspiration for Management of Incomplete Abortion
- (c) Colposcopic Assessment of the Cervix
- (d) Hepatitis in Pregnancy
- (e) Hypertensive Disorders
- (f) Lower Genital Tract Infection and PIH
- (g) Adolescent Pregnancy
- (h) Safe Motherhood
- (i) Natural Family Planning
- (j) Ultrasound Fetal Monitoring
- (k) Gynaecological Oncology

Publications

Handbook of Obstetrics - A Practical guide to the Management of High Risk Obstetric Patients published by Dr. R.A. Kwame-Aryee.

Conferences/Seminars/Workshops



West African College of Surgeons Conference in Guinea

Benefactions

Nil

Visitors

- | | | | |
|-----|----------------------------|---|------------------------------|
| (a) | Dr. Robert Fraser | - | Postgraduate Revision Course |
| (b) | Professor O.A. Ojengbede | - | Postgraduate Revision Course |
| (c) | Professor O.F. Giwa-Osagie | - | Postgraduate Revision Course |

DEPARTMENT OF PATHOLOGY

Overview

The Department of Pathology is in the process of putting together a profile document, which will enable the Department outsource for funds to support the refurbishment of the W. N. Laing Pathology Museum and help in the re-equipment.

The Department was joined by Dr. O.A. Duah a graduate of University of Ghana Medical School who trained in Ontario, Canada. He participated in the level 400 semester 8 teaching. He has however subsequently transferred to the Department of Chemical Pathology.

We accomplished our ever-increasing teaching workload and successfully organised the semester 7 and 8 examinations. Professor J.O. Thomas, Professor and Head of Department of Pathology, University College Hospital, Ibadan, Nigeria was our new external examiner.

Our data collection in the Department begun to yield fruits with the number of publications and abstracts presented at the West African College of Physicians meeting in Accra (November 1998) and the African Health Sciences Congress in Accra, Ghana (April 1999).

The work on the 10 year autopsy data and 25 year surgical pathology cancer data is continuing in earnest.

The Department presented a paper on Pathology in West Africa to the Royal College of Pathologists for scrutiny.

Staffing position of Department as at September 1999

- | | | | |
|-----|--|---|---|
| (a) | Academic Research Staff (Senior Members) | - | 5 |
| (b) | Senior Staff | - | 3 |
| (c) | Junior Staff | - | 5 |

Courses taught/number of students

Course	No. of Students
Level 400	82
MB ChB (Part I) Forensic Pathology	80
MB ChB (Part II) Autopsy Pathology	80
DMLT	3
B.Sc. Nursing	25
Postgraduate Basic Science Course	8
Diploma Ophthalmology Course	15

Research in the Department

- (a) Postmortem as an epidemiological tool
- (b) Cancer morbidity and mortality
- (c) Tuberculosis
- (d) Schistosomiasis
- (e) Immunopathology of malaria
- (f) Deaths from Poisons in Ghana

Publications

- Tetty Y, Wiredu E.K. - Congenital abnormalities in stillbirths at Korle Bu Teaching Hospital - A study of 93 stillbirths GMJ 1998;32 : 986- 992.
- Tetty Y, Kumoji R. - Sudden Death in an asymptomatic 26 year old Ghanaian male adult from undiagnosed hypertrophic obstructive cardiomyopathy GMJ 1999; 32 : 1022 - 1025
- Akosa A B, Ampadu F O, Tetty Y - Male Breast Cancers in Ghana, GMJ 1999 (33) : 3 - 8
- Wiredu, Edwin K., Kumoji, Robert-Seshadri and, Ramaswamy Biritwum, Richard B. Osteometric Analysis of Sexual Dimorphism in the Sternal End of the Rib in a West African Population. J. Forensic Sci Vol. 44(5). Sept. 1999, 921-925.

Abstracts

- Parkin G, Armah G E, Mingle J A A, Tetty Y, Nyarko E A - Oral tumours in Ghana. A Hospital based survey, Book of Abstracts 20th African health Sciences Congress, Accra, April 19 - 23 1999.
- Akosa A B, Tetty Y, Koram K - Postmortem examination as an epidemiological tool, Book of Abstracts 20th Africa Health Sciences Congress, Accra - April 19 - 23 1999.
- E D Yeboah, A B Akosa, E K Wiredu, Y Tetty, R K Gyasi - Transrectal ultrasound for diagnosis of prostatic disorders and extant transrectal ultrasound guided biopsy of prostate for staging of carcinoma of prostate and diagnosis of prostatic pathology. Annual Conference of West African College of Surgeons. Abstract 54 1999.

- A B Akosa, F O Ampadu,
R K Gyasi
- Aboagyē B, Adjei S S,
Gyasi R, Akosa A B**
- Atidepe E, Adetola F,
Osei D K, Ataki J, Akosa A B
- Adetola E, Ataki J K, Atidepe E,
Osei D K, Akosa A B**
- Paper submitted for review**
Gyasi R K, Akosa A B
- Gyasi R K, Kumoji R,
Odoi A, Akosa A B
- Aboagye B, Akosa A B
- Complete hydatidiform moles in Ghana. Book of Abstracts 20th African Health Congress Accra- Ghana. Abstract 0184 p 136.
- Major causes of death in Adolescents in Ghana. Porter session Annual Conference of West African College of Physicians November, 1998
- Deaths from poisons in Ghana. Porter session Annual Conference of WACP November, 1998. Submitted to GMJ.
- Pesticide poisoning in Ghana. Book of Abstracts - 20th African health Sciences Congress, Accra. April 1999.
- Primary salivary gland tumours in Ghana. GMJ 1999; 33 (Accepted)
- Deaths from Tuberculosis. A comparative autopsy study of two decades in Accra - Ghana. GMJ
- Maternal deaths, an autopsy study. GMJ

DEPARTMENT OF PHARMACOLOGY

Overview

Once again the academic year ended uneventfully; the academic programme was completed without interruption. The Department, however, did not register any growth in terms of infrastructural development. This is the second year in succession that the Department has registered a zero growth rate.

The Department started the year with four senior members, one more than the previous year, but ended the year with three as the senior member who joined the department this year from Canada terminated his appointment after only 6-month stay. Three more senior members were recruited to commence their appointment in October, 1999. The department will thus enjoy a staff strength of 6; equalling that of 1975.

The students' performance in the B.Sc. (Medical Science) Level 400 Examination in Pharmacology was very satisfactory; indeed, it was better than that of the previous year. Seven students had distinctions, fifteen had credits; 2 were referred, one in one course and the other in two courses while two students failed the subject and have to repeat the year.

The teaching programme was reviewed and P-drug concept expanded to include seminars and practicals in Semester-8. The Department continued to have difficulty in conducting practical classes. Because of inadequate equipment, ten students had to crowd on a practical set-up. Most students therefore could not directly participate in the experiments. The technical staff of three still remained inadequate to cope with the large size (83 students) of the practical classes.

Research activity which was revamped some time last year has been progressing at a snail pace. Preliminary study on a medicinal herb with anti-inflammatory property has been completed but then we lack the equipment for thorough

pharmacological study. The Department developed a novel method for antimalaria sensitivity testing. Study is in progress to authenticate the techniques. The study on a medicinal herb for treating measles will, hopefully, commence in 1999/2000 academic year.

Staffing position of Department as at September 1999

(a)	Academic/Research Staff	-	6
(b)	Senior Staff	-	3
(c)	Junior	-	2

Courses taught/number of students

Course	Number of Student
Medicine	
B.Sc. (Medical Science) Level 400	- 74
Dentistry	
B.Sc. (Medical Science) Level 400	- 9
Ophthalmology	
Diploma in Ophthalmology	- 15
Anaesthesia	
Diploma in Anaesthesia	- 3

Research in the Department

Screening of medicinal plants for their therapeutic potential
Screening of foods of animal origin for antimicrobial residues
Anti-malaria sensitivity testing.

Publication

Nil

Conferences/Seminars/Workshops attended

Bugyei, K.A., Larbi, S.O.	-	Attended the 20th African Health Sciences Congress, Accra 19th April - 23rd April, 1999.
Prempch, A.B.A.	-	Attended the West Africa College of Pharmacists Scientific Congress, Accra 18th - 20th May, 1999.
	-	Attended the Pharmaceutical Society of Ghana Biennial Conference, Accra September 22nd - 25th 1999.
	-	Examination and Test Development ,Accra, June 2nd - 3rd 1999.

Benefactions

Nil

Visitors

Prof. A. Sowunmi, Head of Pharmacology Department, University of Ibadan, Nigeria, served as External Examiner for the **B.Sc. (Medical Science) Level 400 Examination in Pharmacology**

DEPARTMENT OF PHYSIOLOGY

Overview

The Department continued to work hard despite the continuing shortage of staff in the Senior Member grade.

Staffing position of Department as at September 1999

(a)	Academic/Research Staff	4	(1 on sabbatical, 1 on post retirement contract)
(b)	Senior Staff	3	
(c)	Junior Staff	4	

Courses taught/number of students

Course	Number of Students
Level 300	91
DMLET	12

Research in the Department

- (a) The reno-humoral basis of familial hypertension in the Ghanaian
- (b) Effect of exercise on respiratory function in Ghanaian Children.
- (c) Sensorneural Hearing Loss - "At Risk" Ghana patients

Publications

Hesse, I. F. A. Incidence of hypertension in a Ghanaian Prison. Ghana Medical Journal 1998; 32a: 935-940.

Conferences/Workshops/Seminars attended

Nil

Benefactions

Nil

Visitors

Nil

DEPARTMENT OF PSYCHIATRY

Overview

Despite the shortage of staff, the Department has continued to discharge its function in the areas of teaching, research and extension work as well as clinical service to the Ministry of Health.

Located in the present abode in the Accra Psychiatric Hospital, Castle Road, Asylum down, Accra. The problems of communication with the Korle Bu campus still persist. Urgent mails are still delivered late, students to continue to be bussed to the department for tutorials and with the traffic in Accra as is currently is, inevitably arrive late, cutting short their periods. However, there is hope that this situation is about to be solved soon when the Department moves to Korle Bu.

Staffing position of Department as at Septemebr 1999

Academic/Research: 5 comprising of: 1 Associate Professor
Part time in Clinical Psychiatry

1 Associate Professor in Clinical Psychiatry on Contract

2 Snr. Lecturers: 1 in Clinical Psychiatry and 1 in Clinical Psychology

2 Lecturers, 1 in Clinical Psychiatry and 1 in Clinical Psychology

3 Snr. Research Assistants in Clinical Psychology with one of them on leave of absence.

Courses taught/number of students

(a) Undergraduate

Jnr. Clerkship in Psychiatry - 67 students

Snr. Clerkship - 73 students
 Psychosocial Paediatrics
 Behavioural Science Theory, BDS Final Pt.I
 Medical Psychology, BSc. Medical Science Level 500

(b) Postgraduate

Clinical Psychology - MPhil
 Ethics & Professionalism in Counseling
 Drugs in a Modern World - LECTIA

Clinical Psychiatry - FWACP (Psych.) - 1
 Dip. Mental Health (WA) - 3

Research in the Department

Individual Senior Members and groups of the Academic and Research staff are involved in a number of Research Projects.

Ofori-Atta, Angela Lamensdorf - Psycho-education and its effects on Relapses in Psychiatric Disorders
 - Codes of Ethics in the helping profession

Turkson, S.N.A. and Dua, Alfred Nortey - Cannabis Misuse among Adolescents in Second Cycle Institutions and Psychiatric disorders in Accra.

Publications

Ofori-Atta, A.L. and Gadzekpo, A. - The Cost of corruption in Health and Education Institutions, November 1998. Presented at the conference on National Integrity.

Turkson, S.N.A. and Ohene, Sammy K. - 1999 Court Order proceedings for Involuntary psychiatric treatment: The Ghanaian Experience: submitted to the East African medical Journal.

Turkson, S.N.A. et al. - Psychiatric Notes for Volunteer Workers: A WHO Sponsored Paper
 - Culture Bound Syndromes:
 - Delusional Disorder: "a 22 year old Fetish Priest from Mafi-Avedo in the Volta Region of Ghana" (August 1999).
 - Schizophrenia: "The Spirit Possessed" a 23 year old male from Rural Ghana - Kpando Dzoanti, Volta Region" (September 1999).
 - Depressive Illness with Psychiatric Symptoms: "The Self Confessed Witch" from the Northern Region of Ghana.

All three (3) Case Reports submitted to the East African Medical Journal.

Conferences/Seminars/Workshops attended

Turkson, S.N.A. - International Federation for psychotherapists: Sokoto, N. Nigeria 25 - 29 August, 1999.
 Paper: The practice of Psychotherapy in Ghana.

Dua, Alfred Nortey

- Four (4) Workshops on Adolescent Reproductive Health Advocacy Workshop for PTA's organised by Ghana Social Marketing Foundation (GSMF)
 - * Facilitator: Effective Communication Skills
 - * October 7 - 8, 1998, Bay View Hotel, Accra.
 - * February 10- 11, 1999 at Hotel Georgia, Accra
 - * February 25 - 26, 1999 at Takoradi Beach Hotel
 - * March 10 - 11, 1999 at Georgia Hotel, Kumasi
- Workshop on Reproductive Health and Rights of Women in Ghana, June 24- 26, 1999, Novotel, Accra. Organised by The International Federation of Women Lawyers (FIDA) Ghana, and the Centre for Reproductive Law and Policy (CRLP) New York.
- Workshop on Rape and Rape Counseling organised by UNHCR, Friday 22nd October, 1999.

Benefactions

A graduate Student of the Department Dr. Daniel Gboloo-Teye donated a number of books (23 in all) on various topics in Psychology/Psychiatry to the Department.

Dr. V.C.K. Doku and other Postgraduate Students in Psychiatry from the department donated a Photocopying Machine worth over c5m to the Department.

Visitors

Dr. V.C.K. Doku, Psychiatrist, Institute of Psychiatry, The Maudsley, London.

DEPARTMENT OF RADIOLOGY

Overview

Since the establishment of the department in the University of Ghana Medical School, this is the first time that we have residents (4) preparing for the postgraduate West African College of Surgeons Fellowship examinations in Radiology. The department is yet to be re-accredited.

Staffing position

Academic Staff	-	3	:	Prof. K. Boateng Jumah Dr. W.O. Brakohiapa (on contract) Dr. M.O. Obajimi
Senior Staff	-	Nil		
Junior Staff	-	Nil		

Courses taught/number of students

Course	No. of Students
Level 300	-
Level 400	-
1st Clinical Year	80
MB ChB Pt.I	80
MB Ch.B Pt.II	80

Research in the Department

Breast lesions and Mammography
Ultrasound training for medical non-radiologists in Ghana
Pattern of Infarcts in CT
Evaluation of Head Injuries

Publications

Nil

Conferences/Seminars/Workshops

Jumah, K.B. and M.O. Obajimi		Attended Conference of West African College of Surgeon in Conakry, February, 1999.
Jumah, K.B. W.O. Brakohiapa	-	Ultrasound Workshop for training of Medical Officers May, 1999.
Jumah, K.B	-	Conference of the Association of Radiologists of West Africa in Kaduna - Nigeria April 1999. Presented a paper on "C.T. Findings On Strokes in Ghana".

Benefactions

Nil

Visitors

- * Mr. Henk Van Gestel - from Philips Medical System - Holland
- * Dr. Taposoba Lincolu and Dr. Albert Wandangu from University of Ouagadougou. Faculte des Sciences de la Sante
- * Dr. H.O. Russels, International Atomic Energy Commission, Vienna, Austria
- * Mr. S.K. Sikdar, Philips Medical Director, Australian Consulate, Manchester, U.K.

DEPARTMENT OF SURGERY

Overview

The Department of Surgery fulfilled its three main functions of teaching, research and extension during the past year. The year witnessed the commissioning of our renovated first floor surgical block theatres by His Excellency The President of the Republic of Ghana, the commissioning of our new Medical/Surgical Emergency Centre by the Honourable Minister of Health and the completion of renovation work on our second floor conference area of the surgical block into offices, conferences room, library and seminar room. The completion of the conference room area has enabled the Department to relocate all its academic activities to this area. The completion of the above infrastructural work for the Department greatly facilitated our teaching and training of undergraduates and postgraduates.

The main constraints on the work of the Department have continued to be lack of adequate and satisfactory office accommodation for Senior Members. The cubicles on the second floor conference area which go by the name "offices" are yet to be occupied because of lack of office furniture. Other constraints were lack of a research laboratory for basic research activities by Senior Members and Postgraduate students, inadequate operating time and shortage of Anaesthetists. The lack of current surgical journals in the Medical School Library during the year under review affected teaching, learning and research in the Department.

Staffing position of Department as at September 1999

Some specialised Units of the Department continued to lack adequate teaching staff during the year under review. The Department, therefore, had to rely on Part Time Lectures and the benevolence of some Ministry of Health Specialists to discharge some of its teaching responsibilities. Dr. E.D. Kitcher, Dr. N.A. Adu-Aryee and Dr. (Mrs.) Edith Ackuaku joined the Department as Lecturers in ENT, General Surgery and Ophthalmology respectively. Professor E.D. Yeboah and Mr. J.B. Quartey-Papafio remained in the Department as full contract appointees whilst professor E.A. Badoe, Dr. (Mrs.) Maria Hagan and Mrs. Rebecca Nsatul retained their Part Time status. The year saw the promotion of Dr. S.B. Naaeder from Senior Lecturer to Associate professor.

Full Time Academic Staff	-	24
Part Time Lecturers/Demonstrators	-	3
Sabbatical Leave	-	2
Leave of Absence	-	1
Research Assistants	-	2
Senior Staff	-	2
Junior Staff	-	4

Courses taught/number of students

The Department's undergraduate and postgraduate programmes were successfully executed during the year. The Department continued to be the preferred destination of many elective students from Medical Schools all over the world.

The number of students who pursued various courses in the Department is as follows:

Course		Number of Students
Undergraduates		
Introductory Course	-	80
First Clinical year (Co-ordinated Course)	-	80
Sub-Internship	-	73
Elective Students	-	51
Postgraduate Residents		
Primary FWACS	-	10
Part I FWACS	-	8
Part II FWACS	-	9
Completed their residency programme and are now specialists	-	4

Research in the Department

Naaeder, S.B.	-	Pattern of breast diseases in Ghana (completed)
	-	Outcome of early and advanced breast cancer in Ghana (on going)
	-	An audit of upper gastrointestinal endoscopy in Korle Bu Teaching Hospital. Accra (completed)
Yeboah, E.D.	-	Update on retention of urine Korle Bu Teaching Hospital 1991 - 1998
	-	Update on causes of haematuria Korle Bu Teaching Hospital 1991 - 1998
	-	Injuries to the genito-urinary tract Korle Bu Teaching Hospital
	-	The use of viagra in management of impotence
	-	PSA values and ultrasound guided biopsy of the prostate
	-	Algorithm for management of renal masses
Ntim-Amponsah, C.T.	-	Genetics of simple glaucoma
	-	Colour vision in school children
Hodasi, W.M.	-	Venous ulcer and venous insufficiency
Aekuaku, E.M	-	Corneal ulcer project
	-	Vitamin a study at PML Hospital. Accra
	-	Impact of improved eye care delivery system on time of diagnosis of PDAG Ghana M J. (In Press)
Laing, A.G.	-	Ear reconstruction particularly after trauma
	-	Emergency surgery and missed nerve injuries
	-	Response of scars to silicone gel applications
Klufio, G.O.	-	Prostatic weight in Ghanaians with benign prostatic hyperplasia
Kitcher, E.D.	-	Hearing survey of school children in Accra
	-	Assessment of size of Ear Nose and Throat problem (ENT Data Base) in Korle Bu
Appiah, L.K.	-	Research on Lowback pains
	-	Causes Current Hypothesis
	-	Biomechanical causes
	-	Economic cost of work lost
	-	Prevention and treatment

Book Review

Principles and Practice of Surgery including Pathology in the Tropics by Badoe E.A., Archampong E.Q. and the Late Jaja M.O.A. is currently under review for the 3rd Edition. A number of Senior members of the Department are contributors to this 3rd Edition.

Publications

- Naaeder, S.B., Archampong, E.Q. - **Clinical spectrum of acute abdominal pain in Accra, Ghana.** W Afr J Med 1999; 18: 13-16.
- Naaeder, S.B., Juman, K.B. - **Multiple primary carcinomas of the gastrointestinal tract.** W Afr J Med 1998; 17:284-285.
- Naaeder, S.B., Archampong, E.Q. - **Acute appendicitis and dietary fibre intake.** W Afr J Med 1998; 17: 264-267.
- Darko R - **Male Breast Cancers.** Editorial Comment. Ghana M.J. 1999; 33:2.
- Baako, B.N. - **Breast cancer screening in Ghana: Is there a need?** Ghana M.J. 1999; 33:9-12.
- Baako, B.N., Badoe, E.A. - **Neoadjuvant hormonal/chemotherapy in the management of locally advanced breast cancer in Accra: A preliminary report.** Ghana M.J. 1999;326: 993-1002.
- Hodasi, W.M. - **Continuing role of splenorenal shunt in Ghana.** Ghana J.J 1998; 326: 981-85.
- Kitcher, E.D. - **Informed consent: British Otolaryngologist Surveyed: Clinical Otolaryngology 1999, 24, 198-207.**

Conferences/Seminars/Workshops

Members of the Department attended a number of national and international conferences, seminars and workshops and presented papers.

39th Annual Conference of the West African College of Surgeons, Conakry, Guinea. Papers presented:

- Yeboah, E.D., Akosa, A.B., Wiredu, E.K., Tetey Yao - **Transrectal Ultrasound for diagnosis of prostatic**
- Klufio, G.O. - **The coverjet test : dose titration response.**
- Osei, E.K. - **Surgical management of fractures of femoral neck in children.**
- Lang, A.G. - **Outcome of emergency surgery can be improved.**

16th Scientific Conference of the Ghana Surgical Research Society Radiotherapy Centre, Korle Bu. Papers presented:

- Naaeder, S.B. - **Obstruction of the sigmoid colon.**
- Klufio, G.O. - **Management of ureteric obstruction**
- Lang, A.G. - **Burn contractures**
- Darko R. - **Bile duct obstruction**
- Hodasi W.M., Asumanu E - **Intussusception in a pregnant woman diagnostic problems**
- Danso-Adams J. - **Tracheostomy**

Iddissu M.E. - Hydrocephalus
Osei E.K. - Carpal tunnel syndrome

Others

- A. Azuaku E.M. - 20th African Health Sciences Congress (NMIMR) GIMPA. Accra. April 1999. Presented a paper titled: socio-economic problems among glaucoma patients.
- Aekuaku E.M. - International Conference on low vision. New York. July 1999. Presented a paper titled: Vision loss among professional drivers in Accra.

Workshop

Second workshop on examination and test development procedures. University of Ghana, June 1999. Many Senior Members of the Department attended

Benefactors

Zeneca Pharma International. Donated books, atlases and journals.

Mr. Bernard Ribeiro. FRCS. Donated a book titled Concise Surgery - An illustrated guide.

Glaxo Wellcome. Donated a Laser pointer.

Visitors

The Department played host to a number of visitors during the year. These included:

- * His Excellency The president of the Republic of Ghana flight Lieutenant J.J. Rawlings to commission the renovated 1st floor surgical block theatres
- * Mr. Martyn C.H. Webster, FRCS, Senior Consultant Plastic Surgeon, Canniesbain, Glasgow, Scotland.
- * Dr. Nick Scott. Consultant Anaesthetist, Glasgow, Scotland
- * Professor Toriola Sholanke, Past President, West African College of Surgeons.
- * Professor J.T. da Rocha-Afodu, West African College of Surgeons.
- * Professor D. Osegbe, Chairman, Faculty of Surgery West African College of Surgeons
- * Okuku, Professor A.A. Out, Chief Examiner, primary Fellowship of the West African College of Surgeons.

SCHOOL OF ADMINISTRATION

Overview

Perhaps the 1998/99 session will go down in history as one of the most productive periods in the recent past. The Executive Hall was refurbished with the latest in the art of conference furnishing; comfort in the lecture rooms improved with the installation of more air-conditioning. The Independent Learning Centre was opened, with video systems for self-tuition by students.

In addition, the Marble Room, or more appropriately, the International Business News Centre was inaugurated on the Roof Top. The School fulfilled its target of 100% increase in First Class graduates, the number of students passing with First Class Honours actually shooting from 19 in 1997/98 to 45 in 1998/99. On top of it all, in response to popular demand, the expansion in student enrolment continued from the 1997/98 figure of 1,379 to 1,734 in 1998/99, representing an increase of 25.7%.

The breakdown of enrolment at the School of Administration (SOA) since 1994/96 is as follows:

Programme	1994/96	1996/97	1997/98	1998/99	2000
Diploma in Accounting	82	95	110	120	123
Diploma in Public Admin.	84	91	99	107	109
B.Sc. Administration	412	516	623	788	1018
B.A Administration	144	158	239	265	247
MBA	94	140	204	334	476
MPA	56	80	101	116	96
Ph.D	-	1	3	4	4
Total	872	1081	1379	1734	2073

Great increase, as in the recent past, continued to be registered at graduate admissions; the MBA/MPA admissions moving from 308 in 1997/98 to 454 in the 1998/99 session, an increase of 47.7%. The female studentship rose from 25% in 1997/98 to 26% in 1998/99 and then to 27% in 1999/2000 session.

Faculty Movement

The regular academic staff strength stood at 37 during 1998/99, compared with 38 in 1997/98.

The following members of the faculty were on various types of leave during the year under review:

Mr. K. A. Gemegah	-	Study Leave (Ph.D Programme)
Mr. K. A. Domleh	-	Study Leave (Part-time Ph.D Programme)
Mrs. Adelaide Kastner	-	Study Leave (Part-time Ph.D Programme)
Mr. K. A. Oser	-	Sabbatical Leave
Mr. M. A. K. Gyasi	-	Sabbatical Leave
Mr. Takyi Astedu	-	Sabbatical Leave
Dr. S. K. Asibuo	-	Sabbatical Leave

Dr. A. Q. Q. Aboagye returned to the School after successful completion of his doctoral studies at McGill University.

Mr. A. A. Obovbi also resumed after a year's Sabbatical Leave during the period under review.

New faculty appointments were made with respect to:
 Miss Elsie Aikens, Lecturer in Human Resource Management.
 Mr. S.K. Tsahey, Lecturer in Accounting.

Mr. E.T. Laryea, Lecturer in Accounting, retired from the services of the School after 21 years service on 30th September 1999.

On-going research

Appiah, Francis	-	Change Management
	-	Civil Service Reforms
	-	Decentralization in Ghana
	-	Organizational Development
Boon, E.K.	-	Business Policy and Strategy
	-	Environmental Management
Boye, S.S.	-	Predicting the Content of Operations Strategy: Evidence from firms in Ghana
	-	Decision Analysis of Executives in Ghana.
Buame, S.	-	Social Embeddedness of Economic Activities: Entrepreneurship and Social Capital in Ghana.
Buatsi, S.N.	-	Survey of Ghanaian Automobile Industry - Dealers and Consumers.
	-	Inter-firm Relations, Competitive Advantage and Export Potential of Non-Traditional Exporters.
	-	Assessment of Ghana's Investment and Export Promotion Institutes.
Ejisu, Akua S.	-	Methodology for Studying African Management
	-	From Linear to Non-linearities in Stock Behaviour: The Effects of High Information Versus Low Information Contexts.
Gyasi, M.A.K.	-	Partnership Accounts
Kastner, A.	-	Sustainable Competitive Advantage and Competitive Strategy: A Study of Selected Firms in Ghana's Non-Traditional Export Sector.
Nkrumah, S.A.	-	Corruption in Public Management
	-	Decentralization for Good Governance
	-	Decentralization and Export Promotion in Ghana.
Poku, K.A.	-	Professionalism in Health Administration.
	-	Management of Aids Control Programmes.
Puplampu, B.B.	-	Indices of Organizational Progressiveness.
Quarde, D.O.	-	Banking Industry in Ghana.
Takyi-Asiedu, S.	-	Entrepreneurship.
Woode, S.N.	-	Ethics in Management.
	-	Corporate Governance.

Publications

- Appiah, E. - **The Impact of the World Bank on the State Formation And State Structure in Ghana - UNIVERSITAS (Forthcoming)**
- **Africanization, Professionalization and the Politics of Reorganization of the Post-Colonial Ghanaian Civil Service (Chapter in forthcoming Book).**
- **Managerial and Technical Capacity in Local Government Service: A Critical Assessment of the Local Government Service Bill. (Chapter in forthcoming Book edited by Professor P.W.K. Yankson).**
- **Fiscal Decentralization in Ghana: The International Environment (Forthcoming Danida/World Bank Publication).**
- Asibuo, S.K. - **"Funding Strategies for Local Governments in Africa" in Africa Insight Vol.28 No.3/4 1998.**
- Boye, S.S. **Modelling the Mind: Capturing Culture. Journal of Management Studies Vol.14 March, 1999.**
- Buame, S. **"Sustaining Ghana's Export Drive in Legon Export Outlook Vol.1 No.2 June, 1998**
- Buatsi, S. **"Perceived Risks and the Export Behaviour of Firms: A Conceptual Model (Forthcoming in Journal of Management Studies).**
- Domfeh, K.A. - **"Reflections on Some Environmental Factors, affecting Health in the Greater Accra Metropolitan Area", Indian Journal of Environmental Protection 15(5) 364-373.**
- **"Decentralization, Institutional Collaboration and Community Development: The Situation in the Western Region of Ghana". Journal of Rural Development and Administration XXX(2) April - June, pp.28-42.**
- Nkrumah, S.A. (Ed.) - **Legon Export Outlook Vol.1 No.2, June 1998.**
- **The Negative Impact of Culture on Managerial Performance in Ghana" Greenhill Journal of Administration Vol.II, 1998.**
- **Toward a Theory of Local Government Development and Promotion of Business (Journal of Management Studies, Forthcoming).**
- Poku, K.A. & Others - **Successful Management of AIDS Clinical Trials: The Case of Project Share. Journal of Management Studies, 14 March 1999, 67-83.**
- Quade, D.O. **"Fostering Developmental Growth-friendly Marketing Policies" The Ghanaian Banker. Accra. July/September, 1998.**
- "Effecting Early Warning Systems in the Banking Industry" The Ghanaian Banker. Accra. April-June 1999.**

Conferences, Seminars and Workshops

- Appiah Francis - Council for Scientific and Industrial Research Workshop December 15, 1998, Accra. Paper presented: "Current Administrative Trends and their Impact on the Public Sector".
- Council for Scientific and Industrial Research Workshop December 16, 1998, Accra. Paper presented: "The Administrator and Change".
- National Banking College Seminar, May 5, 1999, Accra. Paper presented: "Organizational Conflicts - Causes and Management".
- Buame, S. - The Fourth Ghana Export Sector Development Forum, Legon, 4th August 1999. Paper presented: "An Insight into the Operations of the NTEs: A Pre-requisite for Export Sustainability".
- Buatsi, S.N. - The Fourth Ghana Export Sector Development Forum, Legon, 4th August 1999. Paper presented: "An Assessment of the Effectiveness of Ghana's Investment and Export Promotion Programmes: An Application of Conceptual Models of the Communication Process".
- Ejisu, Akua S. - National Communications Policy Conference, Accra International Conference Centre, 7-9 October 1998. Paper presented: "Information for the Information Age".
- Kastner, Adelaide N.A. - Fourth Ghana Export Sector Development Forum, Legon 4th August 1999. Paper presented: "Competitive Strategy in a global Economy".
- Nkrumah, S.A. - The Parliamentary Workshop for the Education Committee organised by the Institute of Economic Affairs and Danida, Elmina, December 18-20, 1998. Paper presented: "Decentralization of Decision-making and Resource Allocation to the District Level".
- Fourth Ghana Export Sector Development Forum, Legon, 4th August 1999. Paper presented: "Responsibility Sharing in Export Promotion - An Outline for Ghana".
- Institute of Economic Affairs Seminar, Accra, July 1999. Paper presented: "Strategies for Preventing/Dealing with Corruption in the Management of Public Affairs in Ghana".
- Second International Conference on Public Management and Development Administration - An International Dialogue, July 1999, Legon. Paper presented: "Management Education in Ghana - the Role of the School of Administration, University of Ghana".
- Awards Seminar by the Institute of Chartered Accountants, Ghana on April 26, 1999. Paper presented: "The Development of Professionalism in Accountancy in Ghana".

Benefactors

As in the recent past, the School of Administration continued to receive financial and material support during the 1998/99 academic year. Two explanations may be given for this. First, our benefactors have been impressed by the proper

use to which their support was put. Secondly, they found the contribution through the Development Fund that the students of the School of Administration voluntarily subscribed to for the development of the learning environment as worthy of recognition and encouragement.

- The new benefactors during the 1998/99 academic year were the following:
 - Agricultural Development Bank, €50 million for classroom rehabilitation.
 - Standard Chartered Bank, €10 million to purchase computers and six (6) lecture stands for classrooms.
 - Valco Trust Fund donated 687 books worth over €50 million.
 - KPMG donated €10 million for Fellowship Awards at the School of Administration.
 - The Resident Director of Friedrich Ebert Stiftung donated 5 copies of "The Ghana Constitution - An Introduction" by Dr. Kwadwo Afari-Gyan.
 - Mr. Bill Madison of the Miami University donated nine (9) books on Management to the School.
 - Mr. Nyarko Darkwa, of the London College of Printing and Distributive Trade, also an alumnus of the School, donated 30 books.
 - The World Vision International (Ghana) donated 23 cartons of books in Management covering 34 titles.
 - Mr. & Mrs. Panford of Bronx, N.Y. donated eleven (11) Handbooks on Accounting to the School.

Special Events

The School of Administration took very active interest in the 50th Anniversary celebrations of the founding of University of Ghana by organising very spectacular events.

The wife of the Vice President of Ghana, Mrs Naadu Mills, visited the School of Administration to unveil plaques to commemorate the commissioning of:

- (i) "The K.E. Adjet Library" in honour of the late Director of the School.
- (ii) "The Alex Donkor Computer Centre" in the memory of the late Alex Donkor for his work in the area of Finance and Banking.
- (iii) "The J.B. Appiah-Pippim Hall" in honour of the late Appiah-Pippim for his pioneering work in the teaching of Accountancy.
- (iv) The Chairman of Standard Chartered Bank, Mr. David Andoh unveiled a plaque to mark the commissioning of the "R.S. Amegashie Auditorium" in honour of the Founding Director.
- (v) The Hon. Minister of Education, Mr. Ekwow Spio Garbrah delivered the Keynote address on the Management Day.
- (vi) The Makola Women attended a workshop at the School of Administration at which they discussed their marketing strategies to the staff and students of the School. They also made the headlines through the sale of their wares at the School to the Legon Community.
- (vii) The Tagoe Sisters performed at the Thanksgiving Service organized by the Business House Government of the School.
- (viii) The Fourth Ghana Export Sector Development Forum was held on 4th August, 1999. The theme was "Challenges to Export Business in the Next Millennium".
- (ix) The Fourth Awards Night of the School was held on December 15, 1999. The Director used the occasion to announce that the School of Administration was planning to introduce the Executive MBA course.

Overview

The Faculty of Law has been housed in temporary structures for most of the 40 years of its existence. During the year under review, the Faculty initiated action to start a new Faculty building. In the drive to solicit funds, an Architect, Mr Kofi Essel Appiah, Principal of PREDIOS Architects and Urban Designers generously donated drawings to the Faculty. In addition a number of Alumni and friends of the Faculty have pledged their support in cash and in kind for the building Project. The contract for the Building has been awarded to Messrs China State Construction Limited at a cost of e9 billion.

New Post First Degree LLB and LLM Programme

During the year under review the Academic Board approved the conversion of the existing under graduate programme to a Post First-Degree Bachelor of Laws (LLB) programme. The new two-year programme is expected to take off in 2000-2001 academic year.

In addition, steps were taken to reintroduce the LLM programme, which had been abandoned some years ago due to lack of adequate Library facilities and shortage of staff. This programme is also expected to take off during the 2000-2001 academic year.

Research Projects

1. The Human Rights Study Centre continued to organise Human Rights fora in collaboration with the Konrad Adenauer Foundation, the funding partner.
2. The Women and Law in West Africa project continued its work and published Women and Law in West Africa: Situational Analysis of Some Key Issues Affecting Women. A new project was also initiated: Gender Relations in the Family in West Africa.
3. The Alternative Dispute Resolution (ADR) Programme continued its work organising training workshops for identified groups and organisations. The USAID provided funds to purchase equipment and books to set up an ADR Centre at the Faculty.

Students

The breakdown of student statistics for 1998-99 is now as follows:

Level 200		
Advanced Level candidates	-	59
Mature Students	-	5
Level 100 to 200	-	24
		88
Level 300		
LLB	-	40
BA	-	16
		56

Level 400		
LLB	-	48
BA	-	20
		68

Moot Court

Once again, the Faculty was represented at the All African Moot Court which was held in Abidjan by Joseph Mante, Level 400 and Ernest Abotsi, Level 300.

Staff

The Faculty was able to recruit two more staff during the year under review, they are Mr Kwame Gyan and Dr Velarie Sawyer. Mr K.K.K. Ampofo also returned from Sabbatical Leave.

Research, Conferences and Publications

Kuenyehia, Akua - Project Director: Women and Law in West Africa Research Project.
 - BOOK - Ed. Women and Law In West Africa: Situational Analysis of Some Key Issues Affecting Women: Published by WaLWA, Accra, 1998.

Articles

- Family Law in Ghana and its Implications For Women - With Esther Ofei-Aboagye in Situational Analysis of Some Key Issues Affecting Women pp.23-61
- Violence Against Women In Ghana - With Ellen Bortei-Doku Aryeetey. Ibid pp.272
- 50 years of The Universal Declaration of Human Rights and the Rights of Women in Africa - Africa Legal Aid Quarterly - July - September 1998 pp.7-9
- The Role of Social and Economic Rights of Women in Africa - WILDAF News - Issue No. 1, 1998 pp. 4-9

Dankwa, E.V.O

Publications

- *The Application of Ghana's Intestate Succession Law and its Social and Economic Impact, Recht in Africa (1998-99) 235-260.*
- Human Rights Law in Ghana, in Christof Heyns (ed.) Human Rights Law in Africa, 1997 The Hague: Kluwer Law International (1998) pp 170-177.
- *International, National and Local Institutional Challenges: The Human Rights Dimension - an African Experience in the Brundtland Commission's Report - 10 years.* Guri Bang Softing and others (eds.) Scandinavian University Press pp. 148-158 (1998).
- *Commentary on the Maastricht Guideline on Violations of Economic, Social and Cultural Rights (with Cees Flinterman and Scott Leckie)* Vol. 20 No. 3 August 1988 Human Rights Quarterly pp. 705-730.
- *The African System For the Protection of Human Rights: The Tasks Ahead.* Nigeria Human Rights Commission Public Lecture Series No.3 (1998).

- *Tackling Conditions of Prisons and Detention in Africa: A Rapporteur's Experience*. New York from the Nordic Africa Institute, No.3 October 1999 Uppsala, Sweden pp. 17-19
- *Promotion of Human Rights and National Institutions*, Africa Legal Aid Quarterly (July Sept. 1997) pp. 6-8.
- *Human Rights of Journalists And The African Charter On Human and Peoples' Right in The Rights of Journalists* (with Kofi Kumado) Friedrich Ebert Foundation, Ghana: Office, Accra (1997) pp. 23-38.

Conferences

- The Bruntland Commission's Report - 10 years. Oslo, Norway 3-4 October 1997.
- Sustainable Food and Dietary Systems for Our Common Future, University of Oslo, Monday 6 October 1997.
- International Course on the Protection of Human Rights for Lawyers, Judges and Legal Practitioners organised by the Netherlands Institute of Human Rights at The Hague, The Netherlands 16 November - 4 December 1998.
- International Seminar on Human Rights Protection At The National Level, organised by the British Council 10 - 16 May 1998 Belfast, Northern Ireland.
- Training Course on the Use of International Human Rights Procedure organised by the African Centre for Democracy and Human Rights Studies at Banjul, The Gambia, 8-11 June 1998.
- The Independence of The Judiciary, Le Victoria, Mauritius 9-15 may 1998.
- Expert Meeting on World Bank's Inspection Panel 23-25 October 1997, Lund, Sweden
- United Nations Human Rights Commission Session in Geneva, Switzerland, March 1998.
- Seminar for African Ambassadors based in Addis Ababa, Ethiopia, organised by the OAU, The African Commission on Human and Peoples' Rights and the International Commission of Jurists at Addis Ababa, May 1998.
- Litigation Workshop organised by the Institute for Human Rights and Development, Banjul, The Gambia 22 Feb.- 8 March 1999.
- International Conference on Community Service Orders in Africa, Kadoma Zimbabwe 24-28 November 1997.
- Women in Conflict Situations, Lusaka, Zambia, May 1999.
- Training Course on the Use of International Human Rights Procedure, Banjul, July 1999.
- Lectured Staff of the Commission on Human Rights and Administrative Justice at Accra, Cape Coast and Kumasi.
- Right to Fair Trial, Dakar, Senegal 8-12 September 1999.
- "Confronting Torture Within the African System" will be published as part of the Proceedings of the 8th International Symposium on Torture Victims held in New Delhi, India 22-25 September 1999. Difficulty in obtaining a visa kept me away from the symposium.
- Chaired in Banjul, Dakar and Kigali meetings of a Working Group of the African Commission, which produced a Draft Protocol to The African Charter on The Rights of Women in Africa.

Kotey, Nii Ashie

- Participant, Workshop on Globalisation and Localisation: Exploring Tensions and Synergies in Forest Policy, organised by the Centre for International Forestry Research, Bogor, Indonesia, 19-25 November 1998.

Conference Papers

- 1999 "Quo Vadis?": Tinkering with Land Tenure and Land Policy in Ghana in the Last 25 Years. Occasional, lecture delivered at the Meyers Institute of Legal Studies University of Leiden, The Netherlands, 24 September, 1999.
- 1999. Family Law in West Africa: Family and Society in Pluralist Legal Systems. Paper presented at the Conference on Family Law in the Federal Democratic Republic of Ethiopia, Addis Ababa. 28th June - 2nd July 1999.
- 1998 The 'Interim Measures': Collaboration at Work in Ghana's Forests. Paper presented at the Regional Workshop on Policies and Practices Supporting Sustainable Development in Sub-Saharan Africa, Abidjan, Cote d'Ivoire. 9-11 November, 1998

Publications

- 1999 *The 1992 Constitution and compulsory Acquisition of Land in Ghana: Opening New Vistas?* in Longbottom, J. and Toulmin, C (eds.) 1999. Gaining Ground: The Dynamics of Land Tenure in West Africa. London, Earthscan.
- 1998 With Dzodzi Tsikata. *Women and Land Rights in Ghana* in Akua Kuenyehia, ed. *Women and Law in West Africa: Situational Analysis of Some Key Issues Affecting Women*. WaLWA, University of Ghana, Legon.

Research, Projects and Studies

- 1999 Local Researcher, Performance and legitimacy of National Human Rights Institutions. Sponsored by the International Council on Human Rights Policy, Geneva.
- 1996 - present Country Co-ordinator, Women and Law in West Africa Project. Based in the Faculty of Law, University of Ghana, this project is examining the legal, social and economic status and position of women in Ghana, Nigeria, Sierra Leone and the Gambia. The project, which is funded by the Carnegie Corporation, is concentrating on four areas; Family Law, Inheritance, Violence Against Women and Land Issues. The country coordinator is leading a seven-member team of legal and social researchers.

Mensa-Bonsu, Henrietta J.A.N

- *Of nuts in the ground, not being groundnuts - The current state of customary law in the Ghanaian Courts* (Accepted for publication in vol 21 University of Ghana Law Journal) (Forthcoming).
- *The Definition of 'Child' under the Intestate Succession Law of Ghana (P.N.D.C.L.111) Implications for Marriage and The Family*. National Population Council, 1999
- *The Annotated Criminal Procedure Code of Ghana* Black Mask. 1999
- *The Annotated Criminal Code of Ghana* 3rd. ed. Black Mask. 1999
- *Economic Crime under the Criminal Law of Ghana* (1998) (Accepted for publication in the Journal of Banking Law and Finance. Forthcoming volume)
- *The Criminal Code Amendment Bill and Sexual Offences in Ghana* Presented to the Parliamentary Women's Caucus, January, 1998

- *Strategies for the Eradication of Violence Against Women* Presented at the Seminar on Strategies to Eradicate Violence Against Women. Accra. November, 1998
- *Mechanisms and Institutional Arrangements for Conflict Management and Resolution in Ghana*. Presented at the National Governance Seminar. (National Institutional Renewal Programme). July 1999

Extension

- Delivered lectures to various organisations on legal topics of special interest on socio-legal issues to Church and other social organisations
- on Media Rights and Responsibilities to participants of various Media educational programmes.
- on Alternative Dispute Resolution to training programmes for leaders of Community based organisations.
- on the current state of the laws on Marriage to Seminar on Marriage for Annual Meeting of Methodist Church Ministers, Cape Coast, 1999
- Organised and lectured on ADR to participants of Training in Alternative Dispute Resolution Workshop at Elmina for members of the Legal and Parliamentary Affairs Committee of Parliament and Members of the Mediation Committee of National Media Commission.

Sarpong, G. A.

Publications

- *OAU states and the Development of international environmental law: An Appraisal*. Paper prepared for presentation at the 10th Annual Conference of the African Society of International and Comparative Law. Addis Ababa, Ethiopia (3-6 August, 1998).
- *Legal Regimes Relating to Fisheries Resource Management in Africa*. Paper Prepared at the instance of Africa Centre for Technology Studies (ACTS), a Kenyan -Based NGO as a chapter of a Book Project on "Environmental Law in Africa. (September 1998).
- *Relevant 1992 Constitutional Provisions on the Environment*. Paper Presented to the international Council for environmental Law (ICEL) as part of its project to produce a publication on national constitutional provisions concerning environmental conservation (Jan, 1999).
- *Legislative Reforms for Land Policy implementation in Ghana* (FAODOC TCP/ GHA/6715 (A); April 1999).pp. 92. Report of work commissioned by FAO on Land-use in Ghana.

Benefactions

The Faculty received considerable support from Alumni and friends to organize the Faculty Law Week and to launch the building fund. These include:

- Regimanuel Gray Ltd
- Graphic Corporation
- Ghana Airways Company Ltd

- Ghana Breweries Ltd
- Kuenyehia & Co., Legal Practitioners Ltd
- First Atlantic Merchant Bank
- Mr Steve Marfo, IKAM Ltd
- Mr Mike Twum-Barimah, Midwest Company Ltd
- Mr Kwame Ofoosu Bamfo, SIKKENS Company Ltd
- Mr Kofi Owusu, Zac Computers, Accra
- Mr Harry Sawyerr, Accra
- SSB Bank Ltd
- Mr Kofi Essel Appiah
- Carsons Products West Africa Ltd (PZC)
- Dr Richard Turkson
- Justice S.A. Brobbey
- Justice Adjabeng
- Prof. W.C. Ekow Daniels