

# UNIVERSITY OF GHANA



Annual Report by the Vice-Chancellor  
1975—1976

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## MEMBERS OF THE UNIVERSITY COUNCIL

JUSTICE P. D. ANIN, LL.B. (HONS)	.. <i>Chairman</i>
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A. T. PORTER, B.A. (DUR.), M.A., PH.D.	
(CAMB.) Vice-Chancellor, University of	
Sierra Leone .. .. .	.. <i>Member</i>
J. B. BUTTERWORTH, J.P., M.A. (OXF.), Vice-	
Chancellor, University of Warwick .. .. .	.. <i>Member</i>
E. A. K. EDZII, B.A. (LOND.) .. .. .	.. <i>Secretary/Registrar</i>

## FACULTY OF AGRICULTURE

### DEPARTMENT OF AGRICULTURAL ECONOMY AND FARM MANAGEMENT

#### AGRICULTURAL ENGINEERING DIVISION

##### Staff

Dr. David B. Ampratwum returned from U.S.A. having successfully completed the Ph.D. (Agricultural Engineering) programme at Iowa State University of Science and Technology, Ames, Iowa.

Mr. K. Osafo was granted study leave from the end of the academic year.

##### Students

Two students specialised in Agricultural Mechanisation in the final year of the new three-year B.Sc. (Agric.) degree Programme.

The following classes of students were taught in the Division :

F.U.E. (Agriculture) .. .. .	49 students
B.Sc. (Agriculture) Part I .. .. .	38 students
B.Sc. (Agriculture) Part II .. .. .	2 students
National Diploma in Agriculture Part I .. .. .	33 students
National Diploma in Agriculture Part II .. .. .	6 students

##### Courses

Courses taught in the Division included Farm Power and Machinery, Hydraulics and Hydrology, Erosion Control, Irrigation and Drainage, Agricultural Processing and Surveying.

Action was initiated to offer the two-year National Diploma in Agricultural Mechanisation course, planned in the early 1970s, in the 1976-77 and ensuing academic years.

## **Research**

The following research studies were undertaken by the final B.Sc. (Agric.) students under the supervision of Mr. K. Osafo and Mr. S. Al-Hassan respectively:

- (i) Irrigation Development in Ghana (1963-69).
- (ii) A Critical Analysis of the Dawhenya Irrigation Project, Agronomic and Engineering Aspects.

Dr. David B. Ampratwum resumed research on Grain Drying and Storage.

## **Conferences**

Ampratwum, D. B. presented a paper entitled "Agrobased Industries in Rural Areas of Ghana" at the Annual Conference of Ghana Institution of Engineers, Accra, Ghana 4-5 March, 1976.

## **Extension and other Activities**

Members of the Division continued to serve on a number of University, Government and Institutional bodies and to give advice to farmers and agricultural personnel on Mechanised and Irrigation Agriculture.

Dr. David B. Ampratwum served on the 1976 Council for Scientific and Industrial Research Committee on Research and Food Storage and Preservation Problems in Ghana, and served as an Adviser to the Ghana Tractor Operators Organisation.

Mr. King Osafo served on the Ministry of Agriculture Committee on Irrigation Research on the Accra Plains.

## **DEPARTMENT OF CROP SCIENCE**

### **Staff**

The staff of the Department was strengthened again this year by the appointment of new members who had been training in Universities abroad on University of Ghana Postgraduate Scholarships. Dr. A. S. K. Danso undertook his Postgraduate work at Cornell University (M.Sc. and Ph.D.) and spent the 1974-75 academic year as a Post Doctoral Fellow at the I.I.T.A., Ibadan, Nigeria. He has joined the Soils Division as a Lecturer in Soil Microbiology. Dr. A. B. Ankomah who did his Post-

graduate work at the University of California was appointed to the Soils Division as Lecturer in Soil Mineralogy. Dr. J. Abu returned from the University of Guelph where he completed his Ph.D. studies under the Ghana-Guelph Project. He is a Lecturer in Crop Protection (Entomology).

Professor D. K. Acquaye, Head of Department was away on Sabbatical Leave at the I.I.T.A., Ibadan during the academic year under review, and Dr. E. J. Thompson, Senior Lecturer, acted as Head of Department for that period. Dr. R. B. Hunter, Senior Lecturer and team Leader of the Guelph group completed a very successful two-year tour during which he participated completely in the activities of the Department and the Faculty.

He has returned to his post in the Crop Science Department of the University of Guelph. During the course of the year Dr. P. Lamptey, Lecturer in Plant Protection (Plant Pathology) was promoted to a Senior Lectureship.

### Students

The distribution of students enrolled in the various courses within the soils and Crop Divisions of the Department was as follows:

	<i>Crop Science</i>	<i>Soil Science</i>
F.U.E.	57	57
B.Sc. Part I	37	37
B.Sc. Part II	8	—
B.Sc. Part III (Old)	8	—
M.Sc.	5	1
National Diploma in Agriculture Part I	33	33
National Diploma in Agriculture Part II	12	10
	—	—
<b>Total</b>	<b>160</b>	<b>138</b>
	—	—

### Research

Members of the Department were actively engaged in a number and variety of research work in the laboratories, green houses and plots behind the Department, on the Legon Farm as well as on the Research Stations at Kpong, Kade and Legon and elsewhere in the country.

(a) *Crop Science*

The research activities of Dr. E. V. Doku, Senior Lecturer in Crop Science were concentrated on the Roots and Tuber Crops and on the Grain Legumes. On the Root and Tuber Crops he studied the following: (i) the reproductive biology of flowering, sexuality and seed-setting in *Dioscorea* species; (ii) techniques for rapid production and multiplication of seed yams; (iii) characters associated with yield in cassava and their inheritance and (iv) the relationships between crop duration, yield and starch content in cassava.

On the Grain Legumes, Dr. Doku investigated the factors influencing yield in *Voandzeia subterranea*, e.g. season, reproductive efficiency and population density. Secondly, he studied the inheritance of photoperiodism in *Vigna* and the evaluation of varieties for yield and adoption.

Dr. Sinnadurai continued his work on the improvement of various types of vegetables. He tested  $F_2$  and  $F_3$  of Peason x Owusu-Bioh crosses of tomato in the field and studied the fertilizer requirements of these tomatoes. He studied foliar application of fertilizers on vegetables as well as the effect of plant growth regulators. Dr. Sinnadurai continued research into the improvement of bulb quality of the "Bawku" onion and carried out photo-period studies on winged bean and local varieties of okro.

Dr. Paul Lamptey initiated studies on the physical characteristics of the okro modsv bitud—Ghana type strain—and the preparation of antiserum against the same virus. He carried out electron microscopy of cassava blight bacterium.

Dr. R. B. Hunter, Senior Lecturer and Leader of the Guelph Team in his final year as a Visitor to the Department carried out the following research: (i) plant density and distribution in maize; (ii) effect of harvest date on whole plant maize silage yield and quality; (iii) effect of leaf loss on maize grain yield; (iv) a survey of the incidence of aflatoxin in groundnuts sold in Accra markets; (v) Maize performance trials; (vi) the effect of insects on maize yield; (vii) factors affecting maize yield in the Accra Plains and (viii) the yield of maize and cassava in various interplant combinations.

Dr. R. B. Dadson carried out researches into the following areas: (i) soybean breeding; (ii) soybean variety test; (iii) soy-

bean cultural practices (in co-operation with I.I.T.A. and the University of Illinois); (iv) introduction and screening pigeon pea and lima bean (in co-operation with I.I.T.A.); (v) screening of some groundnut introductions.

Dr. Essie T. Blay started her second year in the Department and continued her selection work in tomatoes and following her observations on the germ plasm collection of tomato and egg plant species both wild and cultivated from West Africa, Europe and the United States, she started hybridization programmes on these crops. She also set up research facilities for isozyme analysis.

Dr. J. F. Abu started a series of entomological observations on all three research stations prior to setting up an active programme.

#### *(b) Soil Science*

Dr. E. J. Thompson continued his studies on the phosphorus absorption maxima in relation to phosphorus fertilizer application in soils. Under his supervision Mr. H. T. Addy, a post-graduate student (M.Sc.) carried out studies on the efficiency of nitrogen use in relation to plant population. He initiated studies into the mineral nutrition and fertilizer requirements of cassava by examining the following: (i) the effect of NPK applied at different levels on yield of tuber; (ii) effects of NPK applied at different levels on starch and protein content of tuber, leaves and stems; (iii) and the uptake and distribution pattern of NPK Ca and Mg in the cassava plant. Dr. Thompson further continued his studies on nodulation and nitrogen fixation by rhizobium bacteria in Ghanaian soils.

Dr. E. F. G. Mante continued his studies on the water requirements for sugar-cane on the Accra Plains. He started studies on the effects of overgrazing, afforestation and burning on land degradation in North-eastern Ghana. This is part of the North-eastern Ghana Savanna Research Project funded by the USAID and the CSIR.

Dr. A. S. K. Danso started his first year in the Department by initiating research into the ecology of rhizobium and how different populations of the root nodule bacteria influence numbers of nodules formed.

Dr. A. B. Ankomah also started his first year by evaluating

various methods of determining the lime requirements of some acid Ghanaian soils.

### Publications

- (1) BEAUCHAMP, E. G., L. W. KANNENBERG AND R. B. HUNTER, 1976. "Nitrogen accumulation and translocation in corn genotypes following silking". *Agron J.* **68**, 418-422.
- (2) BREUER, C. M., R. B. HUNTER AND L. W. KANNENBERG, 1975. "Effect of 10 and 20 hour photoperiod treatments at 20 and 30c on rate of development of a single cross maize (*Zea mays* L.) hybrid". *Can. J. Plant Sci.*
- (3) DADSON, R. B. 1975. "Crop Production". The desire to achieve national self-sufficiency. *Universitas* **4**, 162-174.
- (4) DUBE, P. A., K. R. STEVENSON, G. W. THURTELL AND R. B. HUNTER, 1975. "Effects of water stress on leaf respiration, transpiration rates in the dark and cuticular resistance to water vapour diffusion of two corn inbreds". *Can. J. Plant Sci.* 565-572.
- (5) HO, L. C., L. W. KANNENBERG AND R. B. HUNTER, 1975. "Inheritance of pericarp thickness in short season maize inbreds". *Can. J. Genet. Cytol.* **17**, 621-629.
- (6) HUNTER, R. B., 1976. "Plant density and distribution of maize (*Zea Mays* L.) in the coastal savanna zone of Ghana" *Ghana J. Ag. Sci.*
- (7) LEYENAAR, P. AND R. B. HUNTER, 1976. "A study of factors affecting maize yield in the coastal savanna zone of Ghana". *Ghana J. Ag. Sci.*
- (8) LAMPTEY, P., 1976. "Chemical control of nematodes". *Agric. Fact Sheet* No. 04, Extension Division, Faculty of Agriculture, University of Ghana, Legon.
- (9) LEYENAAR, P. AND R. B. HUNTER, 1976. "The effect of seed-bed preparation on maize production in the coastal savanna zone of Ghana". *Ghana J. Ag. Sci.*
- (10) LEYENAAR, P. AND R. B. HUNTER, 1976. "The effect of stem borer damage on maize yield in the coastal savanna zone of Ghana". *Ghana J. Ag. Sci.*

### Conferences and Seminars

The Department of Crop Science on June 28, 1976 organised a seminar on Cassava (with special emphasis on diseases) in

which members of the Department, the Faculty as well as the Ministry of Agriculture participated. Papers were presented by the following: Dr. E. J. Thompson, Senior Lecturer and Acting Head of Department, Dr. E. V. Doku, Senior Lecturer and Leader of the University of Ghana Root Crop Research Team. Dr. P. Lamptey, Senior Lecturer in Crop Protection (Pathology), Dr. J. F. Abu, Lecturer in Crop Protection (Entomology) all of the Department of Crop Science and Mr. S. Korang-Amoako, Plant Quarantine Section of the Ministry of Agriculture. Mr. Korang-Amoako presented a paper on the Cassava Bacterial Blight (C.BB.) caused by *Xanthomonas manihotis* (Arthaud-Borthat) Starr.

### Other Activities

Dr. E. J. Thompson served on several Boards and Committees of the Faculty and the University and was chairman of the Ad Hoc Committee of the Academic Board which investigated Security on the campus. The Committee presented its report.

In addition to his work on Boards and Committees of the University, Dr. Doku served on the Standards Board Committee on Roots and Tuber Crops and Products and was Chairman of the C.S.I.R. Committee on Food Preservation and Storage. He participated in the Physiology Programme Formulation Workshop and the Workshop on Cassava Improvement in Africa, which was held in April and November, 1975 respectively at the I.I.T.A., Ibadan, Nigeria and the seminar on the Development of the Agricultural Sector of Ghana held at the Kwame Nkrumah Centre in January, 1976.

Dr. Sinnadurai served as Chairman of the Nyankpala Research Institute Project (Ghana-West German) in addition to other activities in the University.

Dr. R. B. Dadson served on the National Committee on Soybean Research.

Abu, J. F., 1976. "Important Pests of Cassava". Paper presented at seminar on Cassava (with special emphasis on diseases). Faculty of Agriculture, University of Ghana.

Doku, E. V., 1976. "A new look at the organisation of crop research in Ghana". Paper presented at seminar on the Develop-

ment of the Agricultural Sector of Ghana with particular reference to the National Economic Development Plan—1975–1980. Kwame Nkrumah Conference Centre.

Doku, E. V., 1976. "Breeding, selection and yields of cultivars in the University of Ghana Cassava Collection". Paper presented at a seminar on Cassava (with special emphasis on diseases). Faculty of Agriculture, University of Ghana, Legon.

Doku, E. V., 1975. "Cassava improvement in Ghana", Legon presented at a Workshop on Cassava Improvement in Africa. I.I.T.A., Ibadan, Nigeria.

Doku, E. V., 1975. "Environmental Crop Physiology in crop improvement". Proceedings of Physiology Programme Formulation Workshop. I.I.T.A., Ibadan, Nigeria.

Hunter, R. B., 1975. "Dry matter content, yield and digestibility of whole plant corn silage". VII meeting of the Eucarpia, Maize and Sorghum Section. Paris, France.

Hunter, R. B., 1975. "Improving food quality at no expense to the consumer" Inter-Faculty Lecture series. University of Ghana, Legon.

Lamprey, P., 1976. "Some important diseases that attack Cassava (*Manihot esculenta* Crantz.) in Ghana". Paper presented at seminar on Cassava (with special emphasis on diseases). Faculty of Agriculture, University of Ghana, Legon.

Thompson, E. J., 1975. "Biological transformation of nutrients in soils and their contribution to the nutrition of plants" Inter-Faculty Lecture Series, University of Ghana, Legon.

Thompson, E. J., 1976. "Suitable soils for cassava cultivation". Paper presented at seminar on Cassava (with special emphasis on diseases). Faculty of Agriculture, University of Ghana, Legon.

Thompson, E. J., 1976. "The state of research work on cassava in the tropics". Paper presented at seminar on Cassava (with special emphasis on diseases). Faculty of Agriculture, University of Ghana, Legon.

## DEPARTMENT OF HOME SCIENCE

### **Staff**

Mrs. Joanna Nsarkoh returned after a year at the University of Guelph and took over as Acting Head from Dr. Lila Engberg whose term of office had ended.

### **New Staff**

Dr. Gwenna Moss—B.Sc., H.Ec., Sask., M.Sc., Ph.D—Wisconsin, new Ghana/Guelph appointee to teach Research Methods, Extension and Housing Environment.

Mrs. Frema Osei-Opare—B.Sc. (Legon) was appointed lecturer in Foods towards the end of the year having completed her M.Sc. degree in the University of Guelph, Canada.

Mrs. Enyonam Ofei—B.Sc. (Legon) was appointed Principal Research Assistant in March, 1976.

Mrs. Vera Quarcoo—Diploma in Home Science Extension (Legon) was appointed Senior Research Assistant in March 1976.

Dr. Lila Engberg, Acting Head of Department and Miss Marie Dunn, lecturer in Home Science Extension left at the end of the academic year. Dr. Engberg after five years and Miss Dunn four years on contract with the Ghana/Guelph project.

Miss Dunn was asked back in February to help with the teaching of Home Management when the lecturer in charge went on maternity leave. She shared that responsibility with Mrs. Florence Sai who had returned to her department, ISSER, after a year with us. Miss Dunn also took full charge of the Home Extension/Home Management project. It is hoped her contract with Ghana/Guelph would be extended for another year to enable her see the project through its first year.

### **Students**

Sixteen students, the largest number ever, were admitted into the first year of the Diploma in Home Science Extension programme. For the degree course four were admitted into the B.Sc. and nine in the B.A.: with a total of 48 students in the department, including four men.

Ten completed the Diploma in Home Science in Extension, two with distinction, and four graduated in the B.Sc. in June.

### **Research and Extension Activities**

The Home Science Department and the Home Extension

Unit of the Ministry of Agriculture are collaborating on a Home Extension Project which is being financed by USAID. The agreement was signed in July, 1975 and it is now at the implementation stage. Great progress has been made with the return of Miss Dunn. The building of the workshop/laboratory facility mentioned in the project was started in June 1975 and it is nearing completion.

The following research connected with the project is in progress. Dr. Gwenna Moss in collaboration with Miss Marie Dunn—(1) A study of opinion leadership among village women.

(2) An analysis of village women's time management, economic activity and home-making practices.

The home garden connected with the project has been planted and the first produce, mainly vegetables, harvested.

Mrs. Laetitia Hevi-Yiboe and Mrs. Clara Opape Obisaw are working on the storage and preservation aspects of the produce.

In addition to this major effort in extension, field activities continue to play an important part in the department's programmes. As part of the course in Home Science Extension, work was carried out with two women's groups in Dome village and the middle school in Kweiman.

### Conferences

The Home Science Department together with the Ghana Home Science Association organized the 9th Annual April Conference. The theme was "Home Science Education". Staff members took very active part in the planning and the actual conference.

The Acting Head of department gave the keynote address on the topic "The Value of Home Science Education". She also contributed to a panel discussion on "New Approaches in the Teaching of some Home Science Subjects". She spoke on the teaching of Foods and Nutrition. Dr. Gwenna Moss was the chairman for the panel discussion.

Mrs. Docea Fianu was also a panel member. She spoke on "The Teaching of Clothing and Textiles in Elementary and Secondary Schools".

Mrs. Florence Sai spoke on the "Teaching of Home Management". Miss Dunn was the co-ordinator of all the rapport-

teurs and she is in the process of getting the proceedings report out.

The Acting Head attended the International Federation of Home Economics pre-congress workshop at the University of Guelph, Canada, where she acted as leader for the discussion group on Planning Educational Programmes in Planning for Better Family Living—9th July—17th July, 1976. At the Congress itself she was also a group leader for one of the 14 groups, from 19th July to 24th July, 1976.

### Visitors

Miss Sylvia Bruce from College of Education, Seaford-Sussex, U.K. on a familiarization tour to Ghana under the sponsorship of the British Council. On 19th November, 1975 she visited the department with officers from the Inspectorate division of the Ministry of Education.

Dr. Lilian Matthews from Northern Illinois University. She did a study in Clothing using Legon and Winneba students. She arrived on 15th October, 1975 and stayed for six weeks in Volta Hall. She was often at the department.

Professor Reuben Hill, a family sociologist from the University of Minnesota. He gave a seminar sponsored jointly by the Departments of Home Science and Sociology in the Faculty of Agriculture. He was on campus from 10th to 12th January, 1976.

Mrs. Gladys Cole from Sierra Leone, 11th February 1976 and Miss Q. Jarret from Sierra Leone, organiser of Home Economics Education in her country. She was on a tour to study 'modern' system of Home Economics in a developing country, 18th June, 1976.

Mrs. Margaret Ripley, a former lecturer of the department returned for a brief visit—24th November, 1975.

Twenty nurses from Joint Zonta International/Ministry of Health Rural Family Health Project visited to acquaint themselves with work in the department.

Mrs. Ogumka, the external examiner from Department of Home Economics, A.I.C.E., Owerri E.C.S., Nigeria was here from 20th June to 28th June, 1976.

### **Benefactors**

The Co-operative Project of the Universities of Guelph and Ghana continues to help. It is at present supporting two staff members. Mrs. Frema Opare who has just been recruited was supported by the project. Miss Charlotte Ofosu, an M.Sc. candidate in the country at the moment collecting materials for her thesis is also a beneficiary.

The Acting Head of department's trip to Canada and back to attend the workshop and the International Congress was financed almost completely by present and past members of Guelph team, namely Dr. Lila Engberg, Dr. Gwenna Moss and Miss Marie Dunn.

The department received a gift of C\$228.00 from Macdonald Institute Alumni Association, and C\$172.00 from Dr. Lila Engberg in October, 1975 to be used for student and staff research in rural family life.

An aunt of Miss Marie Dunn has promised two book prizes for the best student in Clothing and Textiles in both the degree and diploma courses.

### **Other Activities**

Mrs. Nabilla Williams gave an inter-faculty address on behalf of the department. "Educating the Under-Five" was her topic.

## **AGRICULTURAL RESEARCH STATION, KPONG**

### **Staff**

Mr. T. J. Karikari, Research Officer, resigned with effect from 31st January, 1976. The following promotions were made with effect from 1st October, 1975:

Mr. J. T. Ahulu, Farm Supervisor, to Senior Farm Supervisor;

Mr. B. Agyeman-Kuma, Accounting Assistant, to Senior Accounting Assistant;

Mr. B. K. Johnson, Assistant Farm Supervisor, to Farm Supervisor;

Mr. E. D. Logo, Assistant Overseer Grade II, to Assistant Overseer Grade I.

Mr. J. W. Oteng, Research Officer, continued his study leave

at the University of Guelph, Canada. Mr. A. T. Lomoko, Research Assistant Grade I, attended a nine-week Grain Legume Training Course for Extension Leaders and Research Workers in Tropical Africa, at the International Institute of Tropical Agriculture, Nigeria, from 8th September to 7th November, 1975. Mr. E. K. Numekevor, Research Assistant Grade III attended a six-week course for rice field technicians from 19th January to 27th February, 1976, at the International Institute of Tropical Agriculture. Mr. C. Y. Kumado, Artisan Grade II (Fitter), attended the six-month Technical Supervisors Course at the Institute of Technical Supervision, Weija, from 2nd February to 31st July, 1976.

Mr. L. K. Hiamey, Accounting Assistant in the Finance Office, Legon, temporarily took over control of the Accounts Office of the Station on 20th May, 1976, to enable Mr. B. Agyeman-Kuma, Senior Accounting Assistant of the Station to proceed on accumulated leave. Mr. Hiamey will return to Legon in September, 1976.

### **Research and Notable Developments**

With the resignation of Mr. Karikari and the absence of Mr. Oteng on study leave, only one scientist, Mr. A. N. Aryeetey, Senior Research Officer-in-Charge, was available to carry out research on crops. The Animal Science Department, Legon, continued to be responsible for research on improvement of beef cattle.

Mr. Aryeetey continued his agronomic and varietal improvement studies on rice, cowpea and soya bean. The rice varieties, IR 442 and CICA 4 which have been found to be promising after three years of testing on the Station were recommended for production by farmers.

A sugar-cane variety nursery was started on the Station under the supervision of Mr. J. T. Ahulu, Senior Farm Supervisor, with a view to resuming research work on this crop which was suspended in 1972 when the Research Officer responsible for work on sugar-cane resigned. It was not possible to recruit new Research Officers for the Station because qualified candidates could not be found.

The Station continued to collaborate with the West Africa

Rice Development Association in conducting rice variety trials, and with the International Institute of Tropical Agriculture in testing varieties of cowpea and soya bean.

### **Conferences**

Mr. Aryeetey attended the Annual Rice Research Review Meeting of the West Africa Rice Development Association in Monrovia, from 24th to 29th May, 1976. He presented a paper entitled, "Evaluation of Herbicides for Control of *Cyperus rotundus* in Upland Rice in Ghana".

### **Benefactions**

The West Africa Rice Development Association presented gifts of equipment to the Station. The gifts included a micro-film reader, a mettler balance, a pyranograph and a hygromograph.

### **Extention and Other Activities**

Mr. Aryeetey served on the Committee for Development of Soya Bean Production in Ghana. He also served on the Rice Research and Development Co-ordinating Committee of the Ministry of Agriculture, and assisted the Volta River Authority in conducting studies on agricultural aspects of resettlement of people who will be displaced when the Kpong Hydroelectric Power Project is implemented.

Seed of the recommended rice varieties, IR 442 and CICA 4, was sold to various organisations and farmers during the year. Among the organisations which bought seed from the Station were the Seed Multiplication Unit of the Ministry of Agriculture, the Asutsuare Irrigation Project (Ministry of Agriculture), and the Southern Rice Development Company, Afife.

The Station continued to support the efforts of the Grains Development Board in promoting soya bean production in the country. In addition to making the Station's research findings on soya bean available to the Board, the Station supplied the Board with seed of the high yielding variety, F 62-3977, to be given to selected farmers for planting.

Rice farmers of the Asutsuare Irrigation Project were invited to attend an Open Day on the Station on 31st January, 1976.

The farmers were shown round the various field experiments and demonstrations on rice. Advice on various aspects of agriculture was given to farmers who visited the Station. Officers of the Station visited the rice farms of the Tongu Ranch Limited and Southern Rice Development Company and discussed various problems with the managers of the two farms.

## AGRICULTURAL RESEARCH STATION, KADE

### Staff

Dr. A. A. Opoku, Senior Research Officer-in-charge continued his leave of absence from the station on appointment to the Ashanti Cocoa Project as the Manager. Mr. S. K. Karikari acted in his absence as the Research Officer-in-charge. Mr. Karikari was promoted to the grade of a Senior Research Officer in June, 1976. Mr. A. K. Abakah-Gyenin was up-graded in his post from a Junior Research Officer to that of a Research Officer. Mr. J. W. F. Otchere was promoted Senior Accounting Assistant.

### Research

*Rubber (Hevea brasiliensis)*: Research work on rubber entered its fifteenth year and tree girth and rubber yield measurements continued as in the previous years. Dry rubber yield during the past year strengthened further the position of five rubber clones: GT 1, RRIM 501, PB 5/51, PB 5/63 and RRIC 45, as the high yielders under the conditions prevailing at Kade. Full scale processing of latex into ribbed smoked sheets got underway and a total of about 34,000 kg of sheets were processed. Studies on the effect of different treatments on rubber quality were also started.

*Citrus*: On going rootstock trials were formally completed. Four rootstocks: Rangpur lime, Walters Grape Fruits, Rough Lemon and Cleopatra Mandarin were conclusively found to be the best stocks for sweet oranges. Washington Navel sweet orange on Rangpur Lime was found to be highly susceptible to Exocortic virus infection and the use of Rangpur Lime as a stock for Washington Navel was therefore advised against.

## **Other Fruits**

*Avocados and Mangoes*: Evaluation of local and exotic cultivars of avocado pears and mangoes and development of new techniques in the vegetative propagation of the crop.

## **Cola**

Studies are being made on compatibility of three genotypes of cola: Kumasi white, Laboshie white and local Kade pink to combine early bearing, long seed storage and taste.

## **Plantains (Musa AAB group) and Bananas (Musa ABB group)**

The work on nematodes control on plantains and bananas was completed during the year. In all six plantains and two bananas were used. Studies were made up to the second ratoon crop. All three important nematodes *Meloidegyne spp*, *Helicotylenchus multincinatus* and *Helicotylenchus dihystra* were scored for all the plantains and bananas except *Borodewio* and *Asante kwadu*. These two are local diploid acuminata (AA) types producing viable seeds. Although their taste is not quite acceptable by the Ghanaian populace, the two varieties could very well serve as materials in a plantain and bananas breeding programme. A new project on plantains at different times of the year was initiated. This study is aimed at finding out whether it will be possible to produce plantains throughout the year.

## **Cocoyam**

Studies are being made to find the effect of sett size and harvesting periods on yield of cocoyams. Preliminary results indicate that large size setts produce multiple plantlets resulting in an overall reduction of yield. Winged Bean (*Psophocarpus spp*).

A joint programme with the Food Research Institute (CSIR) on the concentration of winged bean seeds for baby foods was commenced. Under the programme the station was cultivating 4 hectares (10 acres) of the beans part of which would be used for varietal screening studies and sheep grazing trials.

## **Livestock**

Studies on the pre-weaning behaviour of ewes and their lambs

were completed during the year. Asymptotic relationships were described for the sucking patterns of lambs and the grazing and resting patterns of both the ewes and their lambs. Ewes and their lambs established a very high degree of association from the second to the twelfth week. It was concluded that first nine days was the period when shepherd's attention was most needed as the lambs rested a lot and could thus be over fifty meters away from their dams (mothers). Three other research projects which were started in the year are still in progress. These projects aim at determining (1) the grazing behaviour of sheep with emphasis on the effect of grazing on the plantation crops (2) the effect of frequency of breeding on sheep of different breed and age (3) the health problems associated with sheep raising under plantation crops.

### **Students and Courses**

Training facilities on propagation and culture of forest zone crops were provided on the station for students of the Faculty of Agriculture, during long vacation. Some staff members of the station participated in the teaching programme of the Faculty.

### **Visitors**

Distinguished visitors to the station included Professor E. N. W. Oppong, Dean, Faculty of Agriculture, Legon. Naval Captain J. A. Amedume, Commissioner for Social Welfare and Co-operatives, Col. K. A. Takyi, Regional Commissioner, Eastern Region, Dr. A. J. Smith of Edinburgh University, Professor A. Abraham and Mr. J. C. Norman, Head of Department of Horticulture, UST and President, Ghana Institute of Horticulturists.

### **Extension Activities**

The station's extension activities included visits to private farms by staff members to advise on fruit crop maintenance. The station in conjunction with the Department of Crop Science has established a plantain and cocoyam demonstration plot at Aburi Continuation School.

### **Conferences and other Activities**

Messrs S. K. Karikari and A. K. Abakah-Gyenin attended

the first Plantain Workshop held at I.I.T.A., Ibadan, Nigeria from 27th to 29th January 1976 and read a joint paper on "Some guidelines to the Classification of Ghanaian Plantains (Musa AAB group)". Mr. Karikari was elected an executive member of the newly formed International Association of Researchers on Plantains and Cooking Bananas. Mr. Karikari was also elected on to the fellowship of the Ghana Institute of Horticulturists. Mr. Karikari served as an External Examiner for an M.Sc. Student in Horticulture, at University of Science and Technology, Kumasi.

## AGRICULTURAL RESEARCH STATION, LEGON

### Staff

Mr. D. A. Ayebo, Assistant Research Officer (Dairy) was offered the post of Research Officer. Messrs. Verner Jensen and L. B. Jensen, Dairy Production Officers on Technical Assistance Programme from Denmark left in August 1975 and April 1976 respectively for reposting. Messrs. Okrah-Debrah and Anane-Addo were appointed Senior Farm Supervisor and Farm Manager respectively for the research and commercial sections.

### Students

Second-Year students pursuing courses in National Diploma in Animal Health NDAH (II) were given lectures and had practical training in Surgery and Obstetrics, including Pregnancy Diagnosis by Dr. Bafi-Yebo, Research Officer in Charge of the station. Other Degree students in agriculture were lectured in Microbiology by Mr. D. A. Ayebo, Research Officer (Dairy).

### Courses

The normal practical training scheme for farmers and would-be farmers, especially Middle School Leavers continued on the station. Students for these courses in animal husbandry and management practices were made to participate fully in manual and other husbandry duties involved in these fields. This system of participants "learning-by-doing" is to inculcate in them the love and willingness to work on their own after the course. So far about 60 students have passed out and most of them have established their farms.

The FUE Agric. students visited the station to do a 2-week practical training.

### **Extension Education**

The Agricultural Extension Division of the Faculty of Agriculture conducted short term courses for selected Technical Officers from the Ministry of Agriculture. These short courses will continue after the Long Vacation practicals.

### **Publications**

DR. BAFI-YEBOA, "Some reflections on the practice of surgery in farm animals". *World Review of Animal Production*, pp. 80-81.

DR. BAFI-YEBOA, "Ovine Caesarean in practice"—*World Review of Animal Production*. "Diarrhoea in Pig"—*World Review of Animal Production*.

AYEBO, D. A.; ASSOKU, R. K. G.; AND OPPONG, E. N. W., "Studies on the Bacteriology of raw milk from Dairy herds in the Accra Plains"—*Ghana Journal of Science*.

### **Research**

Research Reports are published in the station's Annual Report.

### **Conferences**

A paper entitled "Ovine Caesarean in practice" was read by Dr. Bafi-Yeboea at the Ghana Veterinary Medical Association Annual Congress in Kumasi. Dr. Bafi-Yeboea also participated in the last Easter Annual School organised by the Institute of Adult Education of the University of Ghana, in Bolgatanga, Upper Region.

### **Visitors**

Among the distinguished visitors to the station were Dr. R. B. Griffiths, Chief Animals Health Officer, F.A.O., Rome; Mr. J. Perriertorfer of Austrian Prime Minister's Office, Vienna; Dr. P. T. Horbell, Director of the United Kingdom Ministry of Overseas Development; Members of the National Council for Higher Education, Professor C. G. Baeta, Dr. Smith of Austra-



HANSON, J. O. DEG.

1. "Creusa, Dido, Lavinia and Aeneas" submitted to *Museum Africum* vol. 5. 1976.
2. "C. W. Dearden, The Stage of Aristophanes" Review Article submitted to *Museum Africum* vol. 5. 1976.
3. "Curtius Rufus' Vision of the Spirit of Africa", submitted to *Universitas*.
4. "Africans in the Rome of Juvenal's Day" read at the International Colloquium on "Afrique Noire et Monde Mediteraneen dans l'Antiquite" Dakar University, Dakar, January 1976; submitted to *Universitas*.
5. "Ghanaian Children's Literature: Folktales and Legends as Source Materials" Proceedings of UNESCO-British Council Seminar on Writing and Production of Literature for Children, University of Ghana, Legon, April 1976.

MACQUEEN, D. J. H. O.

1. "Carl Jung on Libido" submitted to *Universitas*.
2. "Augustine on Pride: The Sources of the Doctrine" submitted to *Melanges de Theologie Ancienne*, Paris, France.
3. "John Cassian on Free Will and Predestination" submitted to *Etudes de Theologie Ancienne et Medievale*, Brussels, Belgium.
4. *Ordo Amoris—Augustine on the Dynamics of Desire in Universal History* submitted to U.T.P., Toronto, Canada.

#### Other Activities

The Head of the Department, Professor J. O. deG. Hanson, as Associate Director (Humanities) of the Population Dynamics Programme, accompanied the Director, Professor N. O. Addo to the Population Center, University of North Carolina, Chapel Hill, in March 1976 for discussions on P.D.P's future activities. As Dean of the Faculty, he also chaired the third lecture, on "The Humanities and National Self Expression" in this year's series of the Aggrey-Frazer-Guggisberg Memorial Lectures given by Dr. Claude T. Bissell. He also served as a member of the Interim Board of Management of the Ghana Institute of Languages.

## LANGUAGE CENTRE

### Courses and Students

During the academic year under review the Language Centre gave three courses—English Language and Study Skills Course, Diploma and Graduate Diploma in Ghanaian Language Teaching and Proficiency Courses in Ghanaian Languages.

1. *English Language and Study Skills Courses*

About 180 students enrolled for this course during the year. Groups were taught from the following courses:

Diploma in Home Science

Diploma in Ghanaian Languages

Diploma in Sociology for Prison Officers

Diploma in Post Basic Nursing/Nursing Administration

Diploma in Librarianship/Archival Studies

F.U.E.: Arts

Agriculture

Medicine

Law

The Centre was responsible for the teaching of English at the School of Administration.

2. *Diploma/Graduate Diploma in Ghanaian Language Teaching*

Ten Secondary School Tutors took this course during the year under review.

3. *Proficiency Courses in some Ghanaian Languages*

The languages involved were Akan (Twi and Fante), Ewe and Ga. Enrolment position at the beginning of the academic year was as follows: Twi: 29, Ga: 10, Ewe: 10 and Fante: 6.

4. *Francophone English Course*

A new development is the English for Francophone Africa course which will hopefully start next academic year. At the request of the Association of African Universities the Centre is in the process of establishing a Unit for teaching English to people from French-Speaking Africa. Staff recruitment is underway.

### Publications

MR. E. Y. EGBLEWOGBE, *Games and Songs as Education Media*

(1975), *Victims of Greed* (1975), *The Wizard's Pride and Other Poems* (1975). All the 3 books were published by the Ghana Publishing Corporation, Tema.

### Research Projects

MR. E. Y. EGBLEWOGBE:

"A sociolinguistic study of Ewe Personal Names" (started in 1972; to be completed in September, 1976).

"Ewe Oral Literature—collection and analysis of texts" (started in 1972; still in progress).

"Sixth Form Ewe": A manuscript in preparation (in collaboration with Professor G. Ansre) (started in 1972; still in progress).

MR. E. O. KORANTENG:

Devising suitable language exercises for use in Upper Secondary Schools (started in September, 1975 to be completed in 1977).

Development of a new Twi course for foreign adult students. (Started in April 1976 to be completed in September, 1976.)

MISS HELEN ODAMTEN:

"Types of Student English and Possible Headings under which these can be classified and analysed" (still in progress).

Preparation of additional material for the Spoken English Course based on identified areas of neglect for L2 learners of the language in the Ghanaian context and further experimentation to determine its appropriateness and value (still in progress).

### Conferences/Seminars

The Centre continued to organise the *Language Learning and Teaching* seminars as follows:

Date	Speaker	Title of Paper
1. 5th February, 1976	John Norrish, Language Centre	Falling standards and English in the Sixth Forms.
2. 19th February, 1976	Dr. M. E. Kropp-Dakubu, Institute of African Studies	Language Preferences and the Aural Media: Some Implications for English Language Teaching.

- |                        |                                                                        |                                                                                                               |
|------------------------|------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| 3, 4th March, 1976 ..  | Mrs. M. Watts and K. Vormawor, English Department and Achimota School. | Language and Development of the Imagination—A project in Linguistic creativity within Primary Schoolchildren. |
| 4. 18th March, 1976 .. | D. J. Utley, University of Cape Coast.                                 | English for Scientists at the University of Cape Coast.                                                       |
| 5. 1st April, 1976 ..  | Carl James, University College of Bangor, Wales, U.K.                  | Method Variable—Bilingualism and Contrastive analysis.                                                        |
| 6. 29th April, 1976 .. | James Norrison A.T.T. C., Winneba.                                     | Linguistics in the Training of Language teachers.                                                             |
| 7. 13th May, 1976 ..   | Alec Mante, P.T.C. Akropong School of Ghana Languages, Ajumako.        | Some causes of Errors among Middle and Lower Secondary Pupils.                                                |

**PROFESSOR G. ANSRE:**

Professor Ansre, a Council Member of the West African Linguistic Society, attended the 12th Congress of the Society held at Ife University from 14th to 20th March, 1976. He read a paper on "National Development and Language: A prologue to Language Policy Formulation and Implementation"

At a Seminar on Writing and Production of Literature for Children organised by the Department of Library and Archival Studies from 5th to 12th April, 1976, Professor Ansre read a paper on "Readability and Communication".

Professor Ansre was invited by the American Council on Education and the U.S. Hispanic Educators to attend a Roundtable Conference on *Alternative Approaches in Bilingual/Bicultural Education* in Washington, D.C. from May 2 to 15, 1976. Educational specialists from Africa, Asia, the Caribbean and Latin America as well as specialists of bilingual ethnic populations in the U.S. attended this Conference.

**MR. E. Y. EGBLEWOGBE:**

Mr. Egblewogbe participated in the Seminar on Writing and Production of Literature for children organised by the Department of Library and Archival Studies and read a paper on "Aspects of writing in the Vernacular".

### **Benefactions**

The British Government, through the Overseas Development Ministry, has made a grant of laboratory equipment, training facilities and other items to the modest value of about £25,000 sterling for the establishment of a Francophone Unit within the Centre. A modern language laboratory with full complement of 20 listening booths and other accessories is being installed in the Centre.

### **Extension and Other Activities**

The Centre has collaborated with the Curriculum Research and Development Division of the Ministry of Education, the West African Examinations Council and the Ghana Publishing Corporation. At the request of the C.R.D.D., Professor Ansre wrote a paper on "Educational Language Choice in the Upper Region of Ghana". Professor Ansre, Mr. Koranteng and Mrs. Egblewogbe served on the various National Language Advisory Committees of the Ministry of Education. Members of the Centre continued to be consulted by the Ghana Publishing Corporation, Bureau of Ghana Languages and the West African Examinations Council. The Centre participated in the activities of the Association of Teachers of Ghanaian Languages, the Linguistic Circle of Accra and the West African Linguistic Society.

The Centre has completed a Language Map of Ghana which is in the press.

## **DEPARTMENT OF LINGUISTICS**

### **Staff**

The Department welcomed two new members this year: Dr. Rex Moser and Dr. Jenny Okello. Dr. Moser arrived at the beginning of the session and Dr. Okello in April.

Okyeame Bofo Akuffo, who was appointed Temporary Chief Instructor to assist in the collection and systematization of material for teaching Oral Literature, leaves us in September this year after two years' service.

## Students

The Department had the following number of students during the academic year:

M.A.	..	..	..	..	..	4
Postgraduate Occasional Student	..	..	..	..	..	1
B.A. Part I	..	..	..	..	..	26
B.A. Part II	..	..	..	..	..	6
First Year	..	..	..	..	..	52

## Courses

The Department offered courses leading to the B.A. and M.A. degrees. These included theoretical linguistics, the linguistics of Ghanaian languages, stylistics and lexicology. Members of the Department continued to give teaching assistance to the Language Centre, especially in Ghanaian language studies.

## Departmental Seminars and Conferences

The series of Departmental Seminars this year were unique in two respects. Not only were the offerings more numerous and varied than in previous years but also, for the first time, graduate students attended these seminars and contributed papers. The papers included the following:

Mrs. Anne Thompson (Graduate student)—“Serial Constructions in Kasem”.

Mrs. Anne Thompson (Graduate student)—“Relativisation in Kasem”.

Dr. M. E. Kropp Dakubu—“Rhythm and Style in Ga”.

Mr. T. B. M. Buringo (Lecturer in Modern Languages and Graduate research student in Linguistics)—“The Affixes in the Haya and Swahili Verbal Structure”.

Okyeame Boafo Akuffo—“Akanfo Ayiye”

Mr. K. Yankah (Graduate student)—“Aspects of Akan Drum Poetry”.

Dr. E. N. A. Mensah—“Akan homorganic nasals”.

Mr. J. S. Awini (Graduate student)—“Relativisation in Kusaal”.

Professor L. A. Boadi—“Praise Poetry in Akan”.

Dr. R. E. Moser—“Millman Parry Crosses the Mediterranean in a Leaky Boat: A Polite Critique”.

Members of the Department attended, and read papers at, various Conferences during the year. These included:

PROF. L. A. BOADI: "Questions in Akan"—XIIth Congress of the West African Linguistic Society held at Ife University.

DR. E. N. A. MENSAH: "Akan Homorganic Nasals an interpretation"—XIIth Congress of the West African Linguistic Society held at Ife University.

DR. R. E. MOSER: "Structure in the Mande Epic."—XIIth Congress of the West African Linguistic Society held at Ife University.

DR. F. DOLPHYNE: "Attitudes to Language Use among the Brong"—The Linguistic Circle of Accra.

DR. A. S. DUTHIE: "Semantic Generation of Grammatical Items in Ewe and Greek"—The Linguistic Circle of Accra.

### Research

Professor Boadi and Dr. Dolphyne continued work on the Volta Comoe group of languages. In addition Professor Boadi pursued his research project on the linguistics and literature of Akan while Dr. Dolphyne worked on Akan dialects, the languages of the Brong-speaking areas of Ghana and the Ivory Coast and the historical phonology of the Volta-Bandama languages.

Dr. Duthie continued work on the bibliography of the Ewe-Ge-Aja-Fo languages and on a textbook of Ewe phonology and grammar for GCE 'O' and 'A' level students.

Dr. Mensah continued work on the phonetic aspects of sound change and the Ga Literary Studies Project.

Dr. Moser began a linguistic study of taboo words in Ghanaian Languages and interviewed a number of Mande language speakers in Accra.

### Other Activities

The Department continued to support the activities of the West African Linguistic Society and the Linguistic Circle of Accra. Professor Boadi was re-elected Secretary-Treasurer of the West African Linguistic Society for a third term and Dr. Dolphyne and Dr. Duthie, President and Secretary-Treasurer, respectively, of the Linguistic Circle of Accra. Dr. Dolphyne was External Examiner in Linguistics for Ibadan University.

She was also Vice-Chairman of the National Council on Women and Development and a Member of the Ghana Education Service Council.

Dr. Duthie taught New Testament Greek at Maranatha Bible College and edited the *Daily Guide* for Africa Regional Council of Scripture Union.

Professor Boadi continued to edit the *Legon Journal of the Humanities* and to write and present educational programmes for the Ghana Broadcasting Corporation.

#### **Publications and Work in Progress**

DR. A. S. DUTHIE: "Bibliography of the Ewe-Ge-Aja-Fo language Part I"—Preliminary Edition, mimeo. September, 1975 and February, 1976. "Phonetic Features": To appear in *Journal of the International Phonetic Association*.

DR. E. N. A. MENSAH: "Notes on the Fortis of Lensis Distinction". To appear in *Les annales de l'Universite d'Abidjan*.

### DEPARTMENT OF MODERN LANGUAGES

#### **Staff**

During the 1975-76 academic year, the department welcomed the following new members of staff:

Mrs. Nawal Morcos — Lecturer in Arabic and

Mr. Alain Spohr — Lecturer in French

Mrs. Maria G. de San Martin and Mr. C. T. Cobblah were part-time tutors in Spanish. Dr. K. Britwum returned from study-leave.

Dr. J. N. D. Dodoo and Mr. V. A. O. Lamptey were on study-leave in France and Spain respectively.

Mr. R. G. Haden, head of the Russian Section and Miss E. E. McGrath, head of the Spanish Section, were promoted to the rank of Senior Lecturer.

At the end of the session, Mr. P. J. G. Daguerressar who had been in Legon for nine years and Mr. J. M. Lebreton who had come to the end of his period of National Service, resigned from the University. The department records its appreciation for their contribution. Mr. Daguerressar in particular deserves special mention for his able handling of literature courses (18th

century and 20th century poetry) and for the dissertation in French, as well as his open lectures on Baudelaire.

### Students

French:	F.U.E.	..	..	..	..	36
	2nd Year	..	..	..	..	27
	Year abroad	..	..	..	..	21
	Final Year	..	..	..	..	16
	M.A. 1st Year	..	..	..	..	2
	M.A. 2nd Year	..	..	..	..	1
Arabic:	F.U.E.	..	..	..	..	5
	2nd Year	..	..	..	..	1
	Year abroad	..	..	..	..	2
	Final Year	..	..	..	..	—
Swahili:	F.U.E.	..	..	..	..	—
	2nd Year	..	..	..	..	3
	Year abroad	..	..	..	..	4
	Final Year	..	..	..	..	—
Russian:	F.U.E.	..	..	..	..	26
	2nd Year	..	..	..	..	17
	Year abroad	..	..	..	..	2
	Final Year	..	..	..	..	1
Spanish:	F.U.E.	..	..	..	..	24
	2nd Year	..	..	..	..	18
	Year abroad	..	..	..	..	8
	Final Year	..	..	..	..	7

Three of the final year students achieved an Upper Second Honours degree, two of them in Spanish, which is the first time in the history of the Spanish Section.

### Courses

The new degree structure was underway throughout the entire department. Last year's graduates, 1975, were the last to take the old syllabus.

Mention should be made of the fact that the University has decided that, as from October 1976, Portuguese and German should be made available as ancillary courses.

### **Publications**

- K. BRITWUM, An annotated edition of *Une Vie de boy*, with a critical introduction. Ethiope Publishing Corporation, Nigeria.
- Review—article on Socio-political thought in African literature, by G-C Mutiso in *West African Journal of Modern Languages* Special number on Literature and Society. Ibadan.
- P. J. G. DAGUERRESSAR, "Rousseau and the Third World" *Legon Journal of the humanities* Vol. III "Montesquieu and the Slavery of the Negro" *Universitas* Nov. 1976 and May, 1977.
- J. B. KUBAYANDA, "La palabra inedita: Anti-realism in the Afro-Spanish poetry of Nicolas Guillen." *West African Journal of Modern Languages*: Ibadan.

### **Seminars**

Professor Michel Decaudin of the University of Paris, Sorbonne, gave a series of seminars in French on the following subjects:

- "Apollinaire and the French tradition"
- "Apollinaire between symbolism and surrealism"
- "Apollinaire and the Modern World"
- "Mauriac and Bernanos, Christian novelists"
- "Tendencies of the contemporary French novel"
- "The movement of artistic and literary ideas from 1889 to 1914"
- "Evolution of French verse from 1820 to 1940"

### **Conference activities**

The department played host to an Executive Board Meeting of the West African Modern Languages Association. The two-day meeting planned the forthcoming congress at the University of Benin, Lome, March-April, 1977.

### **Associate Membership of the A.U.P.E.L.F.**

The department of Modern Languages was admitted to an associate membership of the A.U.P.E.L.F. (Association of Universities Partially or Entirely of the French Language) based in Montreal.

## Staff-Student Consultative Committee

The following served during the year:

### Students

#### *French and Spanish*

Final Year	.. ..	S. Asante-Odame		
		Simon Alenga		
2nd Year	.. ..	M. N. Ayim	.. ..	<i>Russian</i>
		Adam Imoru	.. ..	<i>Arabic</i>
First Year	.. ..	J. M. Nsiah Djan	.. ..	<i>Russian</i>
		Anthony Mensah	.. ..	<i>French</i>
		Emmanuel Yentumi	.. ..	<i>Spanish</i>
F.U.E. Arabic	.. ..	Hajara Abdulai (Miss)		

### Staff

Heads of languages, Professor Amonoo, Dr. Hutchins, Miss McGrath, Mr. Haden and Mr. Bugingo and the following:

Mr. Okai	.. ..	Secretary
Mr. Bilson	.. ..	Librarian
Dr. Animfen		

### Conferences

Professor Amonoo attended the Inter-Governmental Conference on Cultural Policies in Africa held in Accra, October 27th-6th November 1975. Dr. F. S. K. Owusu participated in the XVIth International Seminar of Russian Language Teachers of Asia, Africa and Latin America in Moscow. He presented a paper entitled: "The position of a Determinant in a Simple Sentence".

Mr. Haden attended the Third Congress of the International Association of Teachers of Russian Languages and Literature in Warsaw. He read a paper in Russian: "An attempt to establish lexical and grammatical 'minimums' taking account of different 'register' of Russian"

Dr. Britwum, attended a Seminar in Leyden, in September 1976 on research methodology in African Literature: Text and context in Africa.

Paper: "Le reel du texte et ou le texte du reel"

Mr. Atukwei Okai led delegations of the Ghana Association of writers to several symposia in Bucharest, Dakar and Baghdad.

### **Gifts and donations**

As in previous years the French Government, through its Embassy in Accra, gave the department a handsome collection of books costing about 5,000 French Francs selected by the staff of Legon, in addition to scholarships awarded to ten of our second-year students for their 1-year course in Dakar and Abidjan.

The Spanish and Soviet Governments also granted scholarships for study at Madrid and at Minsk Universities respectively.

### **Extra Curricular Activities**

Mr. B. F. Alisah edited the quarterly *French in Ghana*, for the Ghana Association of French Teachers. Mr. Atukwei Okai continued to be active as President of the Ghana Association of Writers.

Heads of the various languages participated in the discussions held at the suggestion of the Ministry of Education to bring about a special relationship between the Ghana Institute of Languages, Accra, and the University of Ghana. Dr. Britwum and Miss Mcgrath acted as external examiners at that Institute, this year. Professor Amonoo was invited to the Universities of Ife, Kano and Kumasi as external examiner; he also moderated part of the Examinations at the University of Cape Coast. He was made the Assistant Treasurer of the F.I.L.L.M., International Federation of Modern Languages and Literature, based in Paris.

## **DEPARTMENT OF PHILOSOPHY**

### **Staff**

Mr. M. A. Kissi returned to his post after a year's sabbatical leave during the previous session while Mr. Derek Gjertsen took a year off on sabbatical leave. The Department was happy late this session to welcome back Dr. B. E. Oguah after several years of lecturing in America. We mention here also, with particular pleasure, the services of Mr. Anthony Appiah, who spent a year with the Department as a Teaching Assistant. He returns to do research in Cambridge where he had, after a brilliant undergraduate career, taken a double first in Philosophy and also won the University's Green Prize for General Learning in June 1975.

### **Research Activities**

**PROFESSOR J. E. WIREDU:** Investigations in various topics in the Philosophy of Logic and Foundations of Set Theory.

**E. F. COLLINS:** Researches in Social and Political Philosophy and aspects of Ghanaian history. Work in progress relevant to clarifying the concepts of political right and political power.

**M. A. KISSI:** Psychological studies of the origin, growth and development of moral ideas in connection, principally, with the philosophical issues raised by the studies of Piaget and Kohlberg.

**KWABENA ARCHAMPONG:** Investigations centering on

- (i) Thought and Volition
- (ii) Identity
- (iii) Memory and Knowledge

**KWAME GYEKYE:** Researches on

- (i) Akan Philosophical Ideas
- (ii) Arabic Philosophy
- (iii) Some aspects of Aristotle's Philosophy

**J. K. M. ARTHUR:** Work in progress relates to:

- (i) Science, Magic and Religion
- (ii) The Idea of an African Philosophy
- (iii) Certain aspects of Plato's Philosophy

**ANTHONY KWAME APPIAH:** Investigations relating to:

- (i) The Philosophy of Religion
- (ii) Morality and Epistemology  
Currently working on:
- (iii) Problems of the nature of a possible African Philosophy and
- (iv) A defence of scepticism

### **Papers Read at Departmental Seminars**

**KWAME GYEKYE:** "The Akan Concept of a Person"

**ANTHONY APPIAH:**

- (i) "Morality and Epistemology"
- (ii) "Religion within Reason"

### **Publications**

**PROFESSOR J. E. WIREDU:**

- (i) "In Praise of Utopianism" *Thought and Practice*

- (Nairobi, Kenya), Vol. 2. No. 2, 1957.
- (ii) "Paradoxes" *Second Order*, University of Ife Press, Nigeria (forthcoming).
  - (iii) "In Behalf of Opinion", *Universitas*, Legon (forthcoming).
  - (iv) "How not to Compare African Traditional Thought with Western Thought" originally published in Chindaba, July/December 1976, appearing as a chapter in *African Philosophy: An Introduction* edited by R. A. Wright. (University Press of America).

**K WAME GYEKYE:**

- (i) "Aristotle on Predication: An Analysis of *Post Anal 83*", *Notre Dame Journal of Formal Logic*, Notre Dame, (forthcoming).
- (ii) "Society, the Individual and Morality", paper read at the 4th International Conference on the Unity of the Sciences, New York, Nov. 27-30, 1975 and included Vol. I of the Proceedings published under the title *The Centrality of Science and Absolute Values*.
- (iii) "Al-Farabi on the Problem of Future Contingency" *Second Order: An African Journal of Philosophy* (forthcoming).
- (iv) "Freedom, Capacity and Responsibility: Some few Questions", *Second Order* (forthcoming).
- (v) "Brief Remarks on the Philosophical Underpinnings of Akan Traditional Views relating to Population", forthcoming in Proceedings of the Population Dynamics Programme Seminar held in Accra, Dec. 5-6, 1975.

**KWABENA ARCHAMPONG:**

"The Problem of Cultural Identity and Individuation", *Universitas* (forthcoming).

**ANTHONY KWAME APPIAH:**

"Why should I Obey the Law?" *Universitas*, Legon (forthcoming).

**B. E. OGUAH:**

"African and Western Philosophy: A comparative Study", a chapter in *African Philosophy: An Introduction*, edited by R. W. Wright (University Press of America), forthcoming.

## Conference

Dr. Kwame Gyekye attended the 4th International Conference on the Unity of the Sciences in New York in November 1975 and contributed a paper (see section under "Publication").

## Students

First Year (F.U.E.)	..	..	..	208
Second Year (B.A. Part I)	..	..	..	44
Third Year (B.A. Part II)	..	..	..	15

## DEPARTMENT FOR THE STUDY OF RELIGIONS

### Staff

With the departure of Professor S. A. Kamali at the end of the last session the Department secured the services of Dr. Lamin O. Sanneh, an Islamic specialist. This has been Mr. B. A. R. Braimah's second year in London on Study Leave to do his Ph.D.; all being well he will be back here for the next session.

The Department arranged to have Rev. A. A. Akrong, who had obtained his degree in June 1975, to assist Professor K. A. Dickson as a National Serviceman in handling part of the First-Year courses. Mr. Akrong has been awarded a University Scholarship to do his M.A. starting from next session. Rev. Dr. J. C. Thomas has been granted Sabbatical Leave for the 1976-77 session, and Mr. J. N. Kudadjie has been awarded the Master of Arts degree by the University of Cambridge.

### Students

We had our largest ever First Year intake this session—114 students. This, together with the Diploma intake of 13, 4 M.A. and 2 Ph.D. candidates, has meant a fairly busy year.

### Courses and Research

No modifications were made to the courses offered in the Department in the session which has just ended, though some changes are planned for the 1976-1977 session.

Several research projects are being carried out by the staff. Of Professor Dickson's three research projects (The Old Testa-

ment and African Life and Thought, Sacrifice in the Old Testament, and African Traditional Wisdom Sayings) the most advanced is Old Testament Sacrifice a manuscript which is in the process of being re-written. The other two have just got off the ground and work is expected to proceed for at least three years.

Mr. Pobee's projects (Theology of Martyrdom in Paul and Ethical and Religious Issues in Population Dynamics) have been pursued for some time, and he is now re-writing a manuscript on the Theology of Martyrdom in Paul. The Population Dynamics project is being handled by Mr. Pobee in co-operation with others in and outside this Department and though some papers have been published, the project is not likely to be completed for some time.

Dr. Thomas has been working on Akan Ethics, and has just completed a re-writing of Dr. Ackah's Ph.D. thesis on that subject. His other interest, the Meaning of Religious Language, is expected to be pursued over the next two sessions at least.

Mr. Kudadjie has two principal research projects: The Ethical and Religious Aspects of Population Dynamics, and the Morality of the Ga-Dangme. The former is a long-term project (in co-operation with others in and outside the Department), while the latter, which is in fact his Ph.D. topic, is expected to be completed in another two years or so.

Dr. Ryan intends to study what he calls "Popular Religion" in Ghana, particularly in the Greater Accra area, while Dr. Sanneh has expressed interest in studying the missionary impact on modern Ghana.

### **Publications**

**K. A. DICKSON:**

1. "Music in the Church—A Theological Perspective", to be published in an All Africa Conference of Churches publication.
2. "The Human Dimension in the Theological Quest", an Inaugural lecture, Ghana Universities Press, 1976.
3. *The Story of the Early Church*. Darton, Longman and Todd, 1976.

J. S. POBEE:

1. "Christliche Heirat in Afrika", in *Zeitschrift Mission*, 1-2 (1975), pp. 118-123.
2. "Church and State in the Gold Coast in the Vasco da Gama Era, 1492-1947", in *Journal of Church and State* (Texas), Vol. 17, No. 2 (1975), pp. 217-237.
3. "Aspects of African Traditional Religion", in *Sociological Analysis*, Vol. 37 (1976), pp. 1-18.
4. "African Religions and Other Religions", review article in *Journal of Ethnic Studies* (Washington), Vol. 3, No. 3, pp. 122-125.

J. C. THOMAS:

1. "Creation, Resurrection and Falsification", in *Ghana Bulletin of Theology*, December 1975.
2. "Method in the Study of Indigenous Ethics", forthcoming in C. A. Ackah and J. C. Thomas, *Akan Ethics*.
3. "Is the Gospel of the Historic Churches Relevant to Africa?" the *Christian Sentinel*, January-April, 1976.

J. N. KUDADJIE:

1. "African Traditional Ethics among the Classical Ethical Systems", Ghana Theological Association Proceedings, January, 1976.
2. (Co-writer) *The Effect of Tourism on the Social Life of Ghana*.

P. J. RYAN:

1. "Indians and Martyrs Reconsidered", in *America*, 133, No. 11, October, 1975.
2. "Death on Three Continents", in *America*, 133, No. 16, November, 1975.
3. "Jonah and the Ninevites: The Salvation of non-Christians According to some Twentieth-Century Theologians", in *Ghana Bulletin of Theology*, December 1975.
4. "Christianity and Socialism", *The Standard*, 38, November 24, 25, 26, 1975.

L. O. SANNEH:

1. "The Origins of Clericalism in West African Islam", *Journal of African History*, Vol. XVII, 1 (1976).
2. "Slavery, Islam and the Jakhinke People of West Africa", *Africa*, Vol. XLVI, 1 (1976).

3. "The Muslim View of Man: Its basis in the Qur'an, Doctrine and Tradition", *Ghana Bulletin of Theology*, December 1975.

### **Conferences**

In co-operation with the Department the All Africa Conference of Churches organised a Conference on Church Music in Africa. Legon, April 17-23, 1976. At this Conference Professor K. A. Dickson, a co-Chairman, read a paper entitled "Music in the Church—A Theological Perspective". The Department also played a significant role in the organisation of the Ghana Theological Association Conference which took place at Cape Coast in January 1976, and at which Mr. J. N. Kudadjie read a paper entitled, "African Traditional Ethics among the Classical Ethical Systems"

### **Benefactions**

We continue to take delivery of a number of books donated to the Department by the London-based Theological Education Fund. The books are source material for the study of Black and African Theology.

### **Extension**

As in previous years we were called upon by the Institute of Adult Education to teach at the External Degree Centre; Professor K. A. Dickson and Dr. J. C. Thomas gave First-Year courses at the Centre.

## **FACULTY OF LAW**

### **Staff**

Mr. S. O. Gyandoh Jr., Senior Lecturer in Law, has been granted a year's sabbatical leave with effect from 1st October 1976 to enable him to accept a fellowship at the Netherlands Institute for Advanced Study in the Humanities and Social Sciences (N.I.A.S.). Mr. E. V. O. Dankwa, a lecturer in Law, has also been granted study leave of one year to enable him to accept a fellowship offered by the International Legal Centre based in New York, U.S.A. Mr. Dankwa will spend the 1976 -

77 academic year at the Yale Law School on his research programme. Messrs. J. K. Frimpong and C. E. K. Kumado both post-graduate students of this Faculty have been appointed to lectureship. Mr. J. A. Peters has been appointed a lecturer to replace Mr. C. Flinterman under the Leyden/Legon Project on Public Law. Professor G. R. Woodman resigned his appointment with the University at the end of the academic year. Mr. K. K. Dei-Anang and Dr. S. C. Otuteye did not return to the University after the expiration of their leave of absence. Dr. A. K. Fiadjoe has been promoted to Senior Lectureship.

### **Students**

In the LLB. Part II Examination this year, 6 candidates obtained 2nd Class Upper Division. Three of them were awarded University Post-graduate scholarships. Five candidates obtained 2nd Class Upper Division in the Professional Law Part II Examination. Mr. E. N. A. Kotey is the first recipient of the Kwamena Bentsi-Enchill prize. The prize award was instituted by Mrs. Regina Bentsi-Enchill in memory of her late husband. Boniface Cobbina and John Baloro have been awarded fellowships at the Temple University Law School, U.S.A., to read for the LL.M. degree.

### **Research**

#### **W. C. EKOW DANIELS**

Continuing research in Family Law and Administrative Law.

#### **S. O. GYANDOH JR.**

1. Continuing Research for "A Sourcebook of the Constitutional Law of Ghana", part-published as of 1972.
2. Continuing Research on Selected Problems of Administrative Law in Ghana.

#### **S. K. DATE-BAH**

1. "Public Control of Insurance in Ghana" and "Cases on the Law of Tort in Ghana"
2. "Contract Law and Ghanaian Businessmen: A case Study" The field work is to be completed between July and October 1976.

#### **R. B. TURKSON**

1. Research Project on Ghana Industrial Holding Corpora-

tion (an offshoot of the Workshop on Law and the Social Sciences).

2. Research Project on the Legal Aspects of Environmental Protection (due to begin in July 1976).

**C. FLINTERMAN**

Remedies in Administrative Law (Comparative Study). Age of Majority (Comparative Study), Law Reform in Ghana, Procedures before Administrative Tribunals.

**G. R. WOODMAN**

Work on Land Law reform and the theory of Law Reform.

**G. F. A. SAWYERR**

Research for teaching of newly-introduced course on "Legal Aspects of International Trade and Investment".

**A. K. FIADJOE**

1. Negligence in Tort Law.
2. The Oppression Remedy as Applied by the Ghanaian Courts.

**AKUA KUENYEHIA**

Continued with Research Project on Trade Unions and the Law in Ghana.

**E. O. T. PREMPEH**

Gathering information and Bibliography for work on the subject title "African Perspectives in International Law".

**KWESI BOTCHWEY**

1. The Political Economy of Company Law in Ghana: Case Study of GIHOC.
2. Jointly with Dr. Sawyerr: Patent Law in Ghana.
3. Finance Capital and Labour Legislation in Ghana.
4. The Evolution of the Social and Economic Structure of Ghana 1900-1975. Sponsored by IDEP.

**Publications**

**W. C. EKOW DANIELS**

1. "Defences to breach of promise of Marriage". (1976) 8 *Review of Ghana Law* 55-63.
2. "The Extent of the Head of Family's liability to account" (1976) 8 *R.G.L.* 70-74.
3. "Marital Family Law and Social Policy". *Essay in Ghanaian Law*.

S. O. GYANDOH JR.

"Liberty and the Courts: A Survey of the Judicial Protection of the Liberty of the Individual in Ghana during the last Hundred years" Centenary Essays to be published by the Faculty of Law and the Judiciary.

S. K. DATE-BAH

1. "The Legal Framework of the Banking Business in Ghana" [1975] *Journal of African Law*.
2. "Requirement contracts and Mutuality" (1975) 12 *University of Ghana Law Journal* p. 48.
3. "Legislative Control of Freedom of Contract in Ghana" *Essays in Ghanaian Law*.

C. FLINTERMAN

1. "Recht on Outwixkelingssemenwerking (Law and Development Corporation) in Nederlands Juristen Blad", 1976 *Dutch Law Review*.
2. "Law Reform and Development in Ghana", accepted for publication by *Afrika Kroniek*.

G. R. WOODMAN

1. "The Registration of Instruments Affecting Land" (1975) 7 *Review of Ghana Law* 46.
2. "Resulting Trusts and Equitable Licences", *ibid.*, 71.
3. "Basic Questions in the Task of Inheritance Law Reform", *Legon Family Research Papers*, No. 3, 139.
4. "In Defence of Section 17 of the Rent Act " (1975) 7 *Review of Ghana Law* 144.
5. "A Basis for a Theory for Law Reform" (1975) 12 *University of Ghana Law Journal* 1.
6. "Too many illegitimate children?" (1975) *ibid.*, 51 *Review of Farrer, Law Reform and the Law Commission. ibid.*, 60.
7. "Ghana, (1972) VI Annual Survey of African Law 3 (published (1975)).

G. F. A. SAWYERR

1. "Customary Law in the High Court of Tanzania". *Eastern African Law* Vol. 6, No. 3 (1973), 265-284.
2. Application of Law in Tanzania: A "Proper Remedy" Approach to some problems of Legal Pluralism, *Eastern Africa Law Review* Vol. 7, No. 3 (1974), 223-246.
3. "Judicial Manipulation of Customary Family in Tanza-

nia" *Law and Family in Africa*. pp. 115-128 (to be published by Mouton in late 1976).

AKUA KUENYEHIA

"Woman and Labour in Ghana" (to be published).

R. B. TURKSON

1. "The History of Public Corporations in Ghana". To be published in the Supreme Court Centenary Publication entitled "A Century of English Law in Ghana".
2. *Law and Population Growth in Ghana*, Law and Population Monograph Series, 1976.
3. "The Right to make a Reply to A Submission of No Case" 1976 *Review of Ghana Law*.
4. "The Survival of the Fundamental Human Rights Provisions of the 1969 Constitution" 1976 *Review of Ghana Law*.

E. A. BOTCHWEY

1. "The EEC-ACP Convention, New Order or Old Order with a New Pace" *U.G.L.J.* Special Issue Vol. XIII 1976.
2. "The Meaning of Scientific Legal Analysis" *University of Ghana Law Journal*.
3. "Law in the Evolution of Social Formations" *Eastern Africa Law Review* 1976.
4. "Ideology and Revolution in Southern Africa" To be published in Proceedings of UN/IDEP Conference on Southern Africa, held at University of Dar-es-Salaam December, 1975.
5. Jointly with Walter Rodney: "The African Development Experience of Sixties: Some Brief Working Notes" in International Documentation and Communication Centre (IDOC) Special dossier on Tanzania.
6. "The Dynamics of Public Corporate Activity in Africa" *Eastern African Law Review*.

A. K. FIADJOE

1. "Shareholders and the Oppression Remedy" (1975) 7 *Review of Ghana Law* 136.
2. "A Century of Company Law in Ghana—An Overview"—Supreme Court Centenary Publication.

### Conferences

The Faculty organised a Workshop on the ACP-EEC relations at Legon from 22nd-24th January 1976. Funds for the Work-

shop were provided by the Bank of Ghana, Valco Fund and the Netherlands Embassy in Ghana. All the Senior Members of the Faculty attended and participated in the Workshop. Dr. G. F. Sawyerr presented a paper on "Industrial Co-operation (Title II, Lome Convention)". Dr. E. A. Botchwey attended the I.D.E.P./U.N. International seminar on "Socio-Economic Trends and Policies in Southern Africa" held in Dar-es-Salaam, Tanzania, from 1st to 8th December 1975. Dr. G. F. A. Sawyerr attended a Conference of Third World Economists held in Algiers, Algeria from 2nd to 7th February 1976. Dr. Sawyerr presented a paper on "Problems on Technology Transfer and Regional Co-operation." Dr. E. O. T. Prempeh attended series of meetings of the International Academy of Trial Lawyers in New York, U.S.A. from 2nd to 15th July 1976. Dr. Prempeh was appointed Secretary-General of the Advisory Committee to plan for the major International Conference on the Expansion of the Jurisdiction of the International Court of Justice"

#### **Visitors**

Among the distinguished visitors to the Faculty for the year were Her Excellency Madam J. C. Ferringa, the Netherlands Ambassador to Ghana to present a number of books to the Law Library under the Leyden/Legon Project on Public Law. Dr. D. W. Nabudere, Faculty of Law, University of Dar-es-Salaam, Tanzania, attended and participated in the proceedings of the Workshop of ACP-EEC Relations from 22nd to 24th January, 1976. Professor T. Koopmans, Faculty of Law, University of Leyden, paid a two week's visit to Legon in connection with the Leyden/Legon Project on Public Law, Professor Jim Read, Department of Law, School of Oriental and African Studies, University of London, was in Legon last June as one of the Faculty's External Examiners. Professor Peter Severeid and Patrick Swygert of the Temple University School of Law spent 6 weeks and participated in this year's Joint Summer Law Programme held at Legon.

#### **Benefactions**

Her Excellency Madam J. C. Ferringa, Netherlands Ambassador to Ghana, presented a number of books to the Legon Law

Library under the Legon/Leyden Project of Co-operation in the field of Comparative Public Law.

### **Extension and Other Activities**

The Faculty of Law once again co-sponsored a six-week Summer Law Programme with the School of Law, Temple University, United States of America. About 30 American students and few Ghanaians participated in the programme.

The Environmental Protection Council has asked the Faculty to undertake a consultancy assignment involving the compilation of existing Legislation in Ghana.

## **FACULTY OF SCIENCE DEPARTMENT OF BOTANY**

### **Staff**

Professor G. C. Clerk became the Head of the Department as well as the Dean of Graduate Studies in October, 1975.

Professor E. Laing was elected both Dean of the Faculty of Science and Pro-Vice-Chancellor during the year. He is, however, still responsible for the courses in Biometry and Genetics in the Department.

Dr. K. O. A. Mensah who joined the Department in 1966 and was responsible for the teaching of Plant Anatomy resigned to take up an appointment as Managing Director of the Mim Timber Company in Sunyani.

Dr. Christina E. Bimpong returned to the Department in May, 1976 as a lecturer after completing her studies for the Ph.D. degree in the University of Western Ontario, Canada. Dr. C. E. Bimpong obtained both her B.Sc. and M.Sc. Degrees (in Mycology) in this Department.

Dr. D. Adomako and Mr. W. V. Hutcheon of the Cocoa Research Institute, Tafo and Mr. O. B. Dokosi of the C.S.I.R. gave part-time lectures on Cell physiology, Whole plant physiology and Economic Botany, respectively to B.Sc. Parts I and II students.

Dr. J. M. Lock spent the Michaelmas Term on Study Leave in Cambridge University, England.

Miss Joana Kumi, a graduate of this Department assisted in

the Department under the National Service Scheme during the year.

Miss Cecilia M. Apaloo was appointed Junior Research Fellow in the Volta Basin Research Project in June, 1976.

### Students

The students in the Department for the 1975-76 session were distributed as follows:

F.U.E.	..	..	..	..	..	62
B.Sc. Part I	..	..	..	..	..	15
B.Sc. Part II	..	..	..	..	..	5
M.Sc.	..	..	..	..	..	7
Ph.D. (resident)	..	..	..	..	..	2
Ph.D. (non-resident)	..	..	..	..	..	4

### Courses

No new courses for the Department were added to those already published. Some courses were organised for other departments. A course on "Quantitative Ecology" was provided for M.Sc. Crop Science students for the Faculty of Agriculture and on "West African Vegetation" to B.A. Part II Geography students by Dr. M. D. Swaine.

Professor E. Laing and Miss Angelina Oppong gave a course on Cytogenetics to students of the Department of Biochemistry. A course in Biometry was provided by Professor E. Laing for students of the Departments of Zoology and Nutrition and Food Science.

### The Students Consultative Committee

The membership of the Committee was as follows:

Miss Margaret Armah	..	F.U.E. Biology— <i>Secretary</i>
Mr. J. H. Nketia	..	F.U.E. Biology
Mr. L. I. Braimah	..	B.Sc. Part I
Mr. J. Blay, Jr.	..	B.Sc. Part II
Mr. D. H. A. K. Amewovor	..	Ph.D.— <i>Chairman</i>
Professor G. C. Clerk	..	
Mr. J. B. Hall	..	
Dr. M. D. Swaine	..	
Miss Angelina Oppong	..	

### Conferences, Workshops and Open Lectures

Professor E. Laing represented the University of Ghana at the workshops (a) of Ghana Association of Science Teachers in Accra in November, 1975 and (b) on Consultancy in Universities and C.S.I.R. in relation to the Private Sector, 1976 and on (c) the Planning Committee for Consultative Meeting of Science Policy Planners, C.S.I.R. in December, 1976. He also attended Writing Workshop of the Science Education Programme for Africa in Freetown, Sierra Leone in April, 1976.

Professor Laing read the following papers at various Conferences and Symposia:

“Biological Sources of Energy” (Symposium on Sources of Energy, Ghana Academy of Arts and Sciences, November 1975).

“A Model Course on Human Genetics” and “Akan Term on Reproduction” (with K. A. Sey) (Seminar of Population Dynamics Programme, Legon, December, 1975).

“The Hall Tutorial System” (Workshop on Counselling, Legon, October, 1975).

“Role of Universities in Development of Ghana” (Symposium organised by Ghana Science Association, January, 1976).

“Sixth-form Science Education” (Symposium organised by Ghana Science Association, March, 1976).

“Towards effective science education—the role of the science teacher (Symposium on “The Science Teacher and the New Educational Structure” organised by the Ghana Association of Science Teachers, Achimota, April, 1976).

“A discriminant selection index for yield in Cowpea” (with G. Bonney and S. I. K. Odoom) (9th Biennial Conference of West African Science Association, April, 1976).

Professor G. C. Clerk delivered an Inaugural Lecture in October, 1975 to the Ghana Academy of Arts and Sciences on “The Blackpod disease of Cocoa—observations on the pathogen”.

Professor G. C. Clerk was also the guest speaker at the Schools Science Fair at Aburi in March, 1976. He spoke on “The Science Teacher in the new Science programme”.

Dr. J. M. Lock gave an Inter-Faculty Lecture in May, 1976 on “Birds, Bees, Bats and Flowers”.

Dr. E. K. Obeng-Asamoah read a paper on "Algal production in the Volta Lake" at the 9th Biennial Conference of the West African Science Association in Freetown, Sierra Leone, in April, 1976.

### **Other Activities**

Professor E. Laing was the External Examiner in Botany at the University of Dar-es-Salaam, Tanzania and External Examiner in Botany and Biology at the University of Nairobi and Kenyatta University College, Nairobi, Kenya.

Professor G. C. Clerk was the External Examiner for Ph.D. and M.Sc. Students in Mycology at the University of Ibadan, Nigeria and External Examiner in Biology at the University of Cape Coast.

Mr. J. B. Hall identified several hundred specimens of plants brought to the Herbarium by the Department of Game and Wildlife and the Centre for Research into Plant Medicine, Mampong-Akwapim.

Mr. J. B. Hall and Dr. J. M. Lock, on request from the Department of Parks and Gardens checked the identifications of most of the plants in the Aburi Botanical Gardens and helped in re-labelling with correct names.

### **Representation on Boards and Committees of Scientific and Educational Institutions**

Professor E. Laing served on the Council for Scientific and Industrial Research, Committee on Science of the National Council for Higher Education, Management Committee of the Ghana Atomic Energy Commission, Management Committee of Adisadel College, National Executive of Ghana Science Association, C.S.I.R. Library Committee and on the U.N.I.S.I.S.T. National Committee.

Professor G. C. Clerk was a member of the Management Committees of the Cocoa Research Institute and the Institute of Aquatic Biology and served on the Council for Scientific and Industrial Research.

Mr. J. B. Hall was a member of the Editorial Advisory Board of "Forest Ecology and Management" (published in Holland).

## Herbarium

In addition to collections made in game reserves, the Herbarium has been enriched by 250 numbers collected in the Ivory Coast in August, 1975 during a departmental excursion; many of these were not previously represented in the herbarium, and at least one is being described taxonomically for the first time. Collections in Ghana have added about ten species to the national list.

During the year a total of 656 duplicate specimens were sent to the following Institutions: Bailey Hortorium (Cornell), Forest Herbaria at Oxford, Kumasi and Ibadan, Fourah Bay University, Herbarium Vadense (Wageningen), Missouri Botanic Gardens, Museum de Histoire naturelle (Paris), Royal Botanic Gardens (Kew), University of Ibadan, University of Cape Coast and Universite d'Abidjan.

Donations of specimens were received from the Forest Herbarium, Ibadan and from the Department of Botany Herbarium in the University of Ibadan.

In addition to service provided for the Department of Game and Wildlife and the Centre for Scientific Research in Plant Medicine, identifications were made for the Aburi Botanical Gardens, Departments of Archaeology and Zoology at Legon, Duke University (U.S.A.), Food Research Institute, Forest Herbarium (Kumasi), Forest Products Research Institute, Ghana Museum, Institute of Aquatic Biology, Smithsonian Institution, (U.S.A.), University of Aberdeen (U.K.) and Universite de Benin (Togo).

The Herbarium is now estimated to comprise about 6,500 species.

The Phycological Herbarium now houses 7,000 collections (pickled and herbarium mounts) including sets of specimens from nearly every maritime country on the Atlantic and Indian Ocean coasts of the continent. Materials were sent to the following during the year: Dr. H. Blackler, University of St. Andrews, Scotland; Dr. F. Drouet, University of Philadelphia, U.S.A.; Professor M. S. Doty, University of Hawaii, U.S.A.; Dr. G. Kraft, University of Queensland, Australia; Dr. J. H. Johansen, Clark University, Worcester, U.S.A.; Dr. E. Post, Kiel, West Germany; Mr. J. H. Price, British Museum (Natural

History), London; Professor W. R. Taylor, University of Michigan, U.S.A. and Dr. W. J. Woelkerling, University of Wisconsin, U.S.A.

### **The Botanical Garden**

Two employees of the Botanical Garden attended a year's training course at the Institute of Horticulture at Aburi.

Seeds of *Cassia bicapsularis*, *Brachychiton acerifolium*, *Coccoloba uvifera* and *Nephelium lappaceu* received from Australia, England, Malasia and Togo were successfully raised and the plants established in the Arboretum.

The number of local tree species in the Arboretum has also been increased.

A total of 721 seed samples were received from 44 Institutions, notably Botanic Garden of Goteberg (Sweden), Gordina Botanica (Romania), Hortus de Wolf (Netherlands), Hortus Botanicus (Italy), Kew Botanical Gardens (England), Los Angeles State University (U.S.A.) and University of Alberta (Canada). The Botanical Garden in turn sent out 1,124 seed samples to 43 Institutions. The major receiving institutions were Birkbeck College (London), Botanic Garden (Sweden), FAO (Italy), Istituto Botanico (Geneva), Jardin Botanique (Belgium), Jardins Botaniques (Nancy, France), Royal Botanic Gardens (Edinburgh, U.K.) and University of Sheffield (England).

The Botanical Garden received a large number of visitors.

### **Research Activities**

#### **PROFESSOR E. LAING**

1. Reproductive Biology, cytogenetics and evolution of *Cri-num* spp.
2. Genetics of cowpea, *Vigna unguiculata* L. (Walp.)
3. Chromosome cytology of cocoa, *Theobroma cacao* L.
4. Human genetics.

#### **PROFESSOR G. C. CLERK**

1. Host range and physiology of powdery mildews in Ghana.
2. Physiology of sporangia of *Phytophthora palmivora* (Butl.) Butl.
3. Deterioration of groundnut seeds in storage through fungal infection.

4. Physiology of germination of multicellular fungal spores.

MR. J. B. HALL

1. Secondary succession in submontane forest.
2. Seed dispersal and natural regeneration in Shai Hills forest.
3. Seed populations and their biology in natural forest soils.
4. Taxonomy of forest plant species.

DR. D. M. JOHNSON

1. Taxonomy and re-appraisal of the marine algae of West Africa.
2. Ecology and structure of marine vegetation along the West African Coast.
3. Effects of grazing organisms on the growth, distribution and development of algal vegetation.
4. Structure and dynamics of subtidal benthic algal communities off Ghana.

DR. J. M. LOCK

1. Taxonomy of *Aframomum* (Zingiberaceae).
2. Prostrate coastal ecotypes.

DR. M. D. SWAINE

1. Litter fall and phenology of forests in Shai Hills Game Park Reserve.
2. Seed content of forest soils.
3. Forest succession on Atewa Range Forest Reserve.
4. Explosive seed dispersal.
5. Fossil leaves in Bosumtwi lake sediments.

MISS ANGELINA OPPONG

1. Propagation of yams from vine cuttings.
2. Cytology of yams.
3. Genetics of *Solanum* spp.

DR. E. K. OBENG-ASAMOA

1. Algal production and distribution in Volta Lake.
2. Solar radiation and lake productivity.

MR. O. B. DOKOSI

1. The uses of herbaceous plants in Ghana.

### Publications

BLAY, D. JR. (1976). "The role of cotyledons in the early vegetative growth of Cocoa". 52 pp. B.Sc. Dissertation, University of Ghana.

- BOADU, E. A. (1976). "Studies on comparative effect of extracts of fruits of varieties of sweet orange and tangerine on germination of conidia of *Penicillium digitatum* Sacc". 82 pp. B.Sc. Dissertation, University of Ghana.
- LIEBERMAN DIANA. (1976). "Food habits of Baboons (*Papio anubis*) in the Shai Hills in relation to seed dispersal". 62 pp. B.Sc. Dissertation, University of Ghana.
- MENSAH, PATIENCE P. A. (1976). "Studies on the effect of the duration of period of motility on germination of zoospores of *Phytophthora palmivora*" (Butl.) Butl. 55 pp. B.Sc. Dissertation, University of Ghana.
- TAGBOTO, F. W. K. (1976). "Studies on the morphology of the Foot-cell of *Aspergillus niger* Van Tieghem" 61 pp. B.Sc. Dissertation, University of Ghana.
- APALOO, CECILIA M. (1976). "Studies on the physiology of *Achlya megasperma* Humphrey occurring in ponds on the Accra Plains with special reference to its tolerance to organic and inorganic pollution". M.Sc. Thesis. 190 pp. University of Ghana
- HALL, J. B.  
 (with Bigger, M.) 1974. "New and interesting records of pteridophytes from Ghana". *Bull. I.F.A.N.* ser. A. 36, 880-885.  
 (with Okali, D. U. U. and Lock, J. M.) 1975. "Night illumination and flowering in an indigenous West African forest-tree, *Hildegardia barteri* (Mast.) Kosterm" *Bull. I.F.A.N.* ser. A. 37, 282-287.  
 (with Ewer, D. W. and Mitchelmore, J.) 1975. *Ecological Biology: Practical Book 1*, Longman, London. 201 pp.  
 (with Ewer, D. W., and Mitchelmore, J.) 1975. *Ecological Biology: Teachers Guide 1*. Longman, London. 445 pp.  
 (with Lock, J. M. ) 1975. "Use of vegetative characters in the identification of species of Salacia (Celastraceae)". *Boissiera* 24a, 331-338.  
 1975. "A new species of Turraea (Meliaceae) from Ghana" *Ada botanica* ser. 2. 15. 505-508.
- LOCK, J. M. AND HALL, J. B. 1975. "Taxonomic studies in the genus *Aframomum* (Zingiberaceae)". *Boissiera* 24a, 225-231.
- LOCK, J. M. AND PROFITA, J. 1975. "Pollination of *Eulophia*

*cristata* (Sw.) Steud. (Orchidaceae) in Southern Ghana". *Acta Bot. Neerl.* 24, 135-138.

### **Benefactions**

The Department gratefully received gifts of equipment from the Inter-University Council, London including two Hewlett-Packard (HP25) Scientific Programmable Pocket Calculators and an Asahi Pentax Spotmatic F Camera with Accessories.

The Department is also indebted to the Ghana Cocoa Growing Research Association Limited, Birmingham, England for the gift of a Zeiss Photomicroscope for work on cocoa cytogenetics and for supporting grants to five graduate students in connection with their work on cocoa fungal diseases.

Mr. O. B. Dokosi received a grant of \$3,500.00 from the International Foundation for Science in Stockholm, Sweden for his work on herbaceous plants of Ghana.

The same Foundation has also generously awarded a grant of \$5,500.00 to Miss Angelina Oppong to support her research on yams.

An amount of \$5,000.00 received by the Department from the Ford Foundation has enabled the Department to buy 35 student microscopes.

The Centre for Scientific Research in Plant Medicine, Mampong, acknowledge the Department's assistance in naming plant specimens by donating mounting paper to a value of £220.00.

### **Visitors**

Professor Brian J. Harris, Department of Biological Sciences, Ahmadu Bello University, Zaria, Nigeria.

Dr. Edward S. Ayensu, Chairman, Botany Department, Smithsonian Institution, Washington, D.C., U.S.A.

Dr. N. Peter Nwanza, Vice-Chancellor, University of Malawi, Zomba, Malawi.

Dr. John Bilson, M. D., P.O. Box 1879, Kumasi.

Dr. Richard Hauke, Botany Department, University of Rhode Island.

Professor J. A. Ekundayo, Department of Biological Sciences, University of Lagos, Nigeria.

Dr. G. W. Lawson, School of Plant Science, University of North Wales, Bangor, U.K.

## DEPARTMENT OF BIOCHEMISTRY

### Staff

Two appointments were made to the Department:  
Dr. S. Asante-Poku and Dr. M. F. Chaplin.

Professor G. S. Asante was granted one-year sabbatical leave with effect from 1st January 1976. Dr. P. F. Larway was appointed Acting Head of Department for the period.

Miss K. Y. D. Antwi assisted in the Department's teaching programme during her National Service Year.

Dr. D. Adomako of the Cocoa Research Institute, Tafo, was appointed part-time lecturer.

Mr. K. K. Oduro, lecturer, continued his study leave at the University of Edinburgh, and Mr. E. Owusu-Mireku, assistant technician, continued his I.U.C. sponsored studies in the U.K.

### Students

Student numbers during the session were as follows:

B.Sc. Part I	.. .. .	33	(including one special entrant)
B.Sc. Part II (3.2.1 course)	..	14	
B.Sc. Part II (3.2.2. course)	..	7	
B.Sc. Honours (old regulations)		5	
M.Sc.	.. .. .	7	
Ph.D.	.. .. .	1	
M.B. II (2nd year Medicine)	..	74	(including 9 Dental Students)
F.U.E. Agriculture	.. .. .	56	
B.Sc. Part I Home Science	..	2	
M.Sc. Part I Agriculture	..	1	

Two B.Sc. Honours graduates, G. A. Arthur (1975) and F. K. Rodrigues (1976) were awarded University Graduate Scholarships to read for higher degrees in the Department of Biochemistry, University of Leeds.

Miss G. J. Boison was awarded the Waddel Prize for her performance in the B.Sc. Part I examinations.

### Courses

The end of the session saw the first graduates under the new

regulations and the end of the B.Sc. Honours Programme (old regulations).

Research continued in the following areas:

- (a) Possible interactions of steroid contraceptives and chloroquine in the rat.
- (b) Metabolism of *Phytophthora palmivora*.
- (c) Purification and characterization of Amino-peptidase A from porcine kidney.
- (d) *In vitro* cultivation and metabolism of human malaria parasites.
- (e) Studies on human red blood cell membranes.

A thesis on "Glucose metabolism by *phytophthora palmivora*" was presented for the award of the M.Sc. degree.

Post-graduate research projects nearing completion are:

Ph.D. "*In vitro* studies on the metabolism of chloroquine phosphate by rat liver microsomes".

M.Sc. "The partial purification of human erythrocyte adenylate kinase and the effects of some common anti-malaria drugs on the enzyme".

"Enzymatic disruption of human red blood cell membranes".

The final year students completed a series of research projects:

#### **B.Sc. Honours:**

1. "*In vitro* studies of the effect of the antimalaria drug chloroquine on human erythrocyte membrane-bound enzymes NADH: Ferricyanide Oxidoreductase Proteinase and Aldolase".
2. "Kinetic studies of the effect of chloroquine on NaKAT-Pase of R.B.C. membrane type of inhibition, possibility of its reversal and binding of chloroquine to membranes".
3. "A study of the activity of red blood cell membrane-bound adenosine triphosphatase, phosphatase and glyceraldehyde 3-phosphate dehydrogenase of human whole blood stored over a period of eight weeks"
4. "Effects of increasing concentrations of maleic, succinic and citraconic anhydrides on the solubilization and activity of human erythrocyte membrane ATPase (E.C. 3613) and the possible reversibility of the reactions."

5. "Studies on the solubilization of peptidases from pig kidney using various reagents."

### **B.SC. Part II**

1. "The analysis of the seedcoat jelly (Mucilage) of *Thaumatococcus daniellii*".
2. "Investigations into the reaction of ninhydrin with chymotrypsin".
3. "Cold water soluble polysaccharides of cocoa pod husk".
4. "Purification of the protein sweetener from *Thaumatococcus daniellii* and its chemical modification and analysis".
5. "Chemical analysis of euphorbia, a common weed which is used as a food additive by nursing mothers".
6. "Investigation into the reaction of ninhydrin with bovine ribonuclease".
7. "Solvent extraction of castor oil from *Ricinus communis* seeds and its purification and analysis".
8. "*In vivo* studies on the effect of the interaction of oral contraceptives and antimalarials on carbohydrate metabolism in rats"
9. "The effect of cyclophosphamide, chloroamphenicol, streptomycin (terramycin) and copper sulphate on the growth sporangial germination and protein of *Phytophthora palmivora* (BUTL) BUTL"
10. "The effect of increasing sodium dodecyl sulphate (SDS) concentration on the activity of red blood cell (RBC) membrane enzymes EG. NADH oxidoreductase and proteases"
11. "Measurement of haemoglobin released with different washing schedule and possible effects on some membrane-bound enzymes".
12. "A study on the activity of erythrocyte membrane enzymes of whole human blood stored over a period of six weeks"
13. "The effect of primaguine phosphate, progynon and pyrimethamine on human red blood cell membrane-bound acetylcholine esterase"
14. "Isolation and purification of Toxin(s) from *Spigella Anthelm*"

### **Publications**

MR. M. F. CHAPLIN (1976) "The use of ninhydrin as a reagent for the reversible modification of Arginine residues in proteins" *Biochemical Journal* Vol. 155 pp. 457-9.

### **Conferences**

Two Papers were presented at the 10th Biennial Conference of the West African Science Association which was held in Freetown, Sierra Leone, in March, 1976.

F. N. Gyang and R. A. Acquah: "Purification and characterization of Aminopeptidase A from Porcine kidney".

J. O. Ashong: "Some nutritional and biochemical problems of the growth and development of human plasmodia in proprietary tissue culture media outside the host red blood cells".

### **Visitors**

The following people visited the department during the session:

Dr. A. J. Turner of the Department of Biochemistry, University of Leeds, as Visiting Lecturer for five weeks under the special link arrangement with the University of Leeds.

Dr. P. H. W. Butterworth, University College, London, as external examiner for the B.Sc. degree.

Professor G. S. Boyd, Edinburgh University, as external examiner for the M.B. II examinations.

### **Benefactions**

The Department acknowledges with gratitude the financial assistance it received from the ICU for:

(a) The purchase of research equipment, spare parts and essential chemicals.

(b) The promotion of the link with the Department of Biochemistry, University of Leeds.

### **Other Activities**

Professor G. S. Asante was external examiner to Makerere University, Kampala, Uganda.

## DEPARTMENT OF GEOLOGY

### Staff

Dr. W. B. Jones joined the Department as a Lecturer in January, 1976 from Bedford College, University of London, where he obtained his Ph.D. on research carried out in the Kenya Rift Valleys.

Dr. M. R. R. Talbot, Lecturer, left the service of the University at the end of the academic year. He has been with the Department since early 1973, occupying a post based on the University of Leeds.

Mr. J. K. A. Banson, Deputy Director of the Geological Survey Department again conducted the undergraduate courses in geophysics as a part-time Lecturer.

Mr. S. A. Amarquaye was promoted Chief Technician with effect from 1st April, 1976. Mr. J. R. Manu was promoted Senior Clerk. Mr. G. Mawunyega joined the Department as Technician Assistant Grade I.

### Teaching

Courses were conducted as follows:

1st year B.Sc. (F.U.E.) New regulations	..	14	students
2nd year B.Sc. (Part I) New regulations	..	9	students
3rd year B.Sc. (Part II) New regulations	..	4	students
			(all Geo- logy single subject)

4th year B.Sc. (Honours) Geology. Old regulations: 1 student. This was the first time the Department produced B.Sc. graduates under the new three-year degree structure, whereas it conducted the B.Sc. Honours course (4th year) under the old regulations for the last time. Mr. Funsho Ajibade, who graduated B.Sc. Honours in Geology was awarded the Waddell prize for his performance at the examination. This is the third time in his now completed undergraduate career that Mr. Ajibade has received this prize. Mr. Ajibade also was awarded a University scholarship to do graduate studies in Geology.

In addition to the courses mentioned above, members of the

Department conducted various geology courses on behalf of other Departments: Physics, Geography and Archaeology.

### Research

Research activities either continued or started during the academic year in the following fields:

- (a) The structural relationships and metamorphism of the Dahomeyan, Togo and Buem rocks (Mr. Adjei). Contact was established with geologists of the Universite du Benin in Togo which, it is hoped, will develop into a joint research programme.
- (b) The evolution of the Birrimian volcanic-sedimentary rocks of Northern Ghana, their stratigraphical relationships and geochemistry. Fieldwork in this area is in progress (Dr. Attoh).
- (c) Mineralogy: the study of red clouded feldspars and the halotrichite group of minerals; the mineralogical composition of beads and artefacts and of certain substances used locally in medicine (Dr. van Landewijk).
- (d) The stratigraphy, palaeontology and structures of the coastal sedimentary basins and of the continental shelf (Mr. Mensah, Prof. Smit). Mr. Mensah paid specific attention to the Sekondi Group.
- (e) The environmental impact and economic geology of the quarry industry in the Greater Accra Area (Mr. Mensah and Dr. van Landewijk).
- (f) The Late Quaternary history of Southern Ghana and Lake Busumtwi (Dr. Talbot). The first  $C^{14}$  dates of the lake terrace sediments were obtained.
- (g) The development of computer programmes for geological and geophysical research (Dr. Attoh).

With the arrival of the recording equipment for the seismometer, which the University received as a generous gift from the Inter University Council for Higher Education Overseas, arrangements were completed for the installation of the instrument in the basement of the Balme Library. The Departments of Geology and Physics of the University and the Geological Survey Department (which provided the seismometer) will cooperate in the operation of the system and the analysis of the recordings.

Meanwhile Dr. van Landewijk continued attempts to arouse the interest of various government and private bodies in the establishment of a National Earthquake Protection Agency for which the Government of Ghana has already expressed support. He paid special attention to the engineering-geological aspect of earthquake hazards.

#### **Conferences, Open Lectures, Colloquia**

Mr. M. K. Mensah delivered one of the Inter-Faculty Lectures held during the session. His topic was: "The Role of the Mining Industry in the Economy of Ghana". He also attended the Conference of the Geological Society of Africa held in Khartoum in January 1976. His participation was sponsored by UNESCO.

Mr. A. O. Adjei participated in the 10th Biennial Conference of the West African Science Association held in Freetown, Sierra Leone, in April, 1976 and presented a paper entitled: "Age, Evolution and Genetic Relationships to the Birimia and Dahomeyan Plates of the Abutia Hills Syncline". Guest speakers in the series of colloquia held in the Department during the session were: Mr. T. T. Akiti of the Water Resources Research Unit of C.S.I.R., Dr. Anan Yorke of the Geological Survey Department and Mr. Walia of ACRES Int. Ltd., consultants to the hydroelectric project at Kpong.

Mr. C. Rundle, a geologist of the Institute of Geological Sciences in the United Kingdom, who spent some time in the country in connection with the establishment of the mass spectrometer at Kwabena, visited the Department in June, 1976 and gave a talk on aspects of potassium-argon dating methods in geology.

#### **Visitors**

Dr. Kahn and Mr. Nauta of the UNESCO Regional Office at Nairobi, Kenya, visited the Department on 25th November, 1975 and held discussions with the Head of Department.

Mrs. Viaux and Messrs. Pouclet and Menot, members of the academic staff of the Geology Department of the Universite du Benin, Togo, were the guests of the Department on 11th December, 1975. The possibility of starting a joint research programme on geological problems shared by Ghana and Togo

was discussed. Mr. Adjei paid a return visit to the Université du Bénin and made a fieldtrip to the Atacora range with his Togo colleagues later in the session.

Dr. R. Trompette of the Laboratoire de Géologie Dynamique of the University of Aix-Marseille (Saint-Jerome), well-known for his work on the geology of Africa, also visited the Department and met members of staff.

A team of staff and students of the Geology Department of the Université d'Abidjan led by Dr. R. Casanova stayed at the University for a few days in April, 1976 during a geological study tour of Ghana and Togo. Professor Smit, Dr. van Landewijk and Mr. Adjei led the group on a field trip to the Shai Hills and the Akosombo area.

Professor D. A. Livingstone of Duke University, U.S.A. was based in the Geology Department during the period of his research on the sediments of Lake Bosumtwi.

Directors of Geological Surveys of Commonwealth Countries in Africa, meeting in Accra, visited the Department on Wednesday 28 April, 1976.

Professor M. O. Oyawoye of the University of Ibadan acted as External Examiner in Geology and visited the Department in that capacity in June, 1976.

### **Benefactions**

The Amoco Ghana Exploration Company presented the Department with a large number of ditch—and core samples of two of the company's offshore bore holes. This material will be used for certain specific stratigraphic/micropalaeontological investigations.

Mr. Victor Micheletti donated to the Department a collection of Italian and British marble specimens and a driving belt for the Department's ore polishing machine (which it was unable to obtain on the market in Ghana).

Dr. R. Casanova of the Université d'Abidjan gave the Department a copy of his D.Sc.—thesis on the Geochemistry of the Birrimian rocks of Ivory Coast.

The Department wishes to express its gratitude to those benefactors.

### **Other Activities**

The Geology Department participated in the Third International Trade Fair in February, 1976, in co-operation with the Geological Survey Department.

Extra-curricular activities of Senior Members included the following: Mr. Mensah lectured on the subject 'Geological and Natural Resources and Agricultural Endeavours' to participants in Experiment in International Living.

Dr. K. Attoh contributed to the G.B.C. External Service programme "Campus Report" and talked about "Problems of Science Literacy" and "Geological Research".

Professor Smit took part in a Panel Discussion on the subject "Mineral Resources in Ghana and their Exploitation" organized by the Ghana Institute of Management at the British Council on 17th June, 1976. His topic was: "Manpower Training for the Mines and Mineral Industries"

### **Publications**

ATTOH, K. "Stoichiometric consequences of metamorphic mineral-forming reactions in pelitic rocks". *Lithos* 9, No. 2, 1976.

BLUNDELL, D. J. AND BANSON, J. K. A. "Interpretation of Seismic Reflection Survey across the Continental Shelf South of Accra and its bearing on Earthquakes in the Area". *Rep. Geol. Survey* No. 75.1.

MENSAH, M. K. "The Role of the Mining Industry in the Economy of Ghana" (accepted by Universitas).

SMIT, A. F. J. "Geological Training in Ghana"

KESSE, G. O. *Rep. Geol. Survey* No. 75.6 (Appendix 4).

TALBOT, M. R. R. "Coastal Ghana: Archaeology and Geology" (with S. E. Nygaard). *Nyame Akuma*, May 1976 (in press)  
"Lake Bosomtwi, Ghana" *Nyame Akuma*, May 1976 (in press).

## **DEPARTMENT OF MATHEMATICS**

### **Staff Changes**

Dr. G. K. Boateng returned to the Department in November,

1975 after a year's sabbatical leave which he spent at the University of Manchester.

Mr. J. S. Jackson was granted a year's sabbatical leave beginning in October, 1975.

Dr. D. Adu-Gyamfi, a former student of the department, joined the staff in October, 1975 as lecturer in Mathematics.

Dr. D. A. Akyeampong and Dr. S. I. K. Odoom were promoted Associate Professors with effect from 1st June, 1976.

### Students

Enrolment in the undergraduate courses in mathematics and Statistics continue to increase. Student numbers this year were:

<i>Mathematics</i>	..	..	<i>Arts</i>	<i>Science</i>	<i>Total</i>
F.U.E.	..	..	32	36	68
Part I	..	..	5	22	27
Part II	..	..	—	4	4
			-----	-----	-----
All Years	..	..	37	62	99

#### *Applied Mathematics*

F.U.E. Science	..	..	..	..	6
B.Sc. Part I			..	..	2
					-----
Total		..	..	..	8
					-----

<i>Statistics</i>	..	..	<i>Arts</i>	<i>Science</i>	<i>Total</i>
F.U.E.	..	..	75	15	90
Part I	..	..	49	15	64
Part II	..	..	12	11	23
			-----	-----	-----
Total undergraduates	..	136	41	177	

Graduate Diploma	...	...	..	..	6
M.Sc.	..	..	...	..	5

In the degree examinations this year, 3 students obtained first class honours:

One in B.Sc. Statistics (Major), Mathematics (Minor) two in B.A. Statistics and Economics.

Four others obtained second class (upper) honours degrees.

Two students, Mr. Pasmor Kuranchie and Mr. P. T. Nkansah were awarded University Graduate Scholarships to study for higher degrees in Statistics.

Waddell Prizes in Science were won by the following students:

Pasmor Kuranchie—Prize for final year students Y.

Agyemang-Kwarteng—Prize for F.U.E. Science.

## Research

Members of the department continue with research in the following areas:

### *Several Complex Variables*

Solutions with bounds of the  $\bar{\partial}$ -equation—Dr. P.W. Darko.

### *Topology*

On Localised complex bordism theory—Dr. K. Maison.

### *Numerical Analysis*

Numerical solutions of differential equations—Dr. G. K. Boateng.

### *General Relativity*

Integrability conditions in Riemann Spaces—Dr. J. M. Hyde.

Scattering of Elementary Particles by a black hole—Dr. N. K. Kofinti.

### *Elementary Particles*

SU (2) Clebsch-Gordon coefficients

High energy aspects of the 3 superfield theory—Professor D. A. Akyeampong.

### *Statistical Mechanics*

Propagation of light in fluids—Dr. D. Adu-Gyamfi.

### *Probability and Statistics*

Stochastic population models—Dr. C. F. Wong

Optimization problems of stochastic systems—Professor S. I. K. Odoom.

The following theses were presented for the M.Sc. Statistics degree:

1. G. Bonney—A discriminant selection index for yield in cow-pea.
2. P. T. Nkansah—On the efficiency of treatment comparisons in a randomised block design.

### **Publications**

DR. D. ADU-GYAMFI (AND B. U. FELDORHOF)—“On the propagation of light in media with higher multiple densities”, *PHYSICA A* 81, 295 (1975).

DR. P. W. DARKO—Sections of coherent analytic sheaves with growth in complex spaces. *Annali di Matematica IV*, Vol. CIV, 1975.

### **Conferences**

Dr. S. I. K. Odoom attended the Workshop on “The teaching of Mathematics in African Universities” organised by the Association of African Universities in Dakar, December, 1975, at which he presented a paper on Co-operation: The joint organisation of teaching and research programmes and seminars.

Drs. D. A. Akyeampong and J. M. Hyde attended the 10th biennial conference of the West African Science Association, held in Freetown, Sierra-Leone in March, 1976, at which they read the following papers:

Dr. D. A. Akyeampong—“The high energy behaviour of the 3 superfield theory”.

Dr. J. M. Hyde —“Integrability conditions for a class of equations in Riemannian Spaces”.

### **Extension and Other Activities**

Service rendered by members of the department to organisations outside the University:

Professor D. A. Akyeampong : Member, National Council for Higher Education. Hon. Secretary, Ghana Academy of Arts and Science. Member, Council for the C.S.I.R. Reviewer, *Mathematical Reviews* (an International Journal).

Dr. N. K. Kofinti: Member, Sub-Committee for Mathematics of the National Advisory Council on School curricula.

Dr. J. M. Hyde: National Vice-President and member of the National Executive of the Ghana Science Association. Honorary Secretary and member of Council and Executive

Committee of the West African Science Association.  
Member, National Committee of U.N.I.S.I.S.T.

Dr. D. Adu-Gyamfi; Part-time tutor in Mathematics, Accra Workers College.

Prof. S. I. K. Odoom: Member, Research Coordinating Committee of the Water Resources Research Unit of the C.S.I.R. Member of Council, West African Examinations Council. Member, Editorial Board of the *Ghana Journal of Science*. External Examiner in Statistics, University of Nigeria, Nsukka and University of Science and Technology, Kumasi.

Five members of the department continue to serve variously as examiners, chief examiners, moderators and members of subject panels for school mathematics examinations conducted by the West African Examinations Council.

Drs. N. K. Kofinti and J. M. Hyde are at present engaged in writing school texts for Additional Mathematics and A-Level Mathematics.

## DEPARTMENT OF NUTRITION AND FOOD SCIENCE

### Staff

Dr. R. Orraca-Tetteh was appointed Acting Head of the Department. Mr. J. D. Watson was promoted Senior Lecturer. Dr. D. Y. Dako was granted Sabbatical Leave. Dr. Suzanne Grondin joined the department as lecturer on the Ghana-Guelph agreement.

Dr. M. L. Woolfe completed his fourth year of appointment and resigned with effect from 30th September, to take up the one year left of his home-based post in the University of Strathclyde.

Dr. Jennifer Woolfe and Dr. R. Priestly also resigned their appointments. Dr. Betty Bediako-Amoa has been granted leave of absence for two years.

### Students

Student numbers were as follows:

B.Sc. Part I Nutrition and Food Science	..	12
B.Sc. Part II Nutrition	.. . . . .	4
B.Sc. Part II Food Science	.. . . . .	12

B.Sc. (Home Science) Part I Nutrition and Food Science .. .. .	2
B.Sc. (Home Science) Part I Basic Nutrition ..	4
B.Sc. (Home Science) Part II Nutrition ..	4
B.Sc. (Home Science) Part II Food Science ..	4
B.Sc. Honours (Old Regulations) Food Science	3
Diploma in Nursing Part II Nutrition ..	20
M.Sc. Part I Nutrition .. .. .	1
M.Sc. Part I Food Science .. .. .	2
M.Sc. Part II Food Science .. .. .	2
Ph.D. Food Science .. .. .	1

The Wadell prize for the B.Sc. Part I was awarded to Miss Gladys Boison for being the best student in the 1973 examinations. The first students to undergo the courses for the new 3-year degree programme graduated from the department. Of the 12 students who took the examinations 6 obtained second upper and 6 second lower grading.

### Courses

The new B.Sc. degree course has been completed for the first time and it will be evaluated. Courses were designed in Nutrition and Food Science for 3 M.Sc. students who were admitted from a different discipline.

### Research

Various research projects were undertaken by both staff and students.

These include:

1. Studies into cooking of legumes by previous soaking in a local chemical.
2. Continuation of work on baby foods.
3. Erythrocyte glutathione reductase activity as an index of riboflavin status in Ghanaian subjects.
4. Effects of high energy feeding on rate of recovery from protein-energy malnutrition.
5. Metallic contamination of Ghanaian canned foods.
6. Investigation into fish constituents during processing.
7. The Structure and properties of mucilaginous polysaccharides in Ghanaian foods.

8. Processing characteristics of maize drink (Ahei).
9. Microbiology of water and fish from the Korle Lagoon.
10. The effect of okro mucilage on plasma cholesterol level in rats.
11. Evaluation of nutrition education at the Princess Marie Louis Hospital in Accra.
12. Food intake of toddlers in Dome village and the Osu Children's Home.
13. Microbiology of shell fish in Ghana.
14. Microbiology of local eggs.
15. The effect of pre-soaking on the rate of gelatinisation of rice.
16. The nutrient content of some legumes consumed in Ghana and their role in the diet.
17. The resting metabolic rates of some Ghanaian University students.
18. Nutritional survey of the village of Ablekuma in the Greater Accra Region.
19. Re-survey of village of Baafi in Techiman, Brong Ahafo.
20. Continuation of activities in the Ghana/IDRC Fisheries Project at Elmina.

### Publications

- ORRACA-TETTEH, R. "Nutrition problems in Africa South of the Sahara". *Proc. Xth Int. Congr. Nutrition, Kyoto*. "Cultures in Conflict". Symposium on the Biological and Cultural variability in Human Nutrition. *Progress in Human Nutrition*. Vol.2 Avi Publishing Co. Inc. Connecticut. "Nutritional problems in English-speaking West Africa". F.A.O./S.I.D.A. Workshop on Food Promotion in English-speaking countries of West Africa, 1976. "Food Research in Ghana" *Encyclopaedia of Food Science*. Avi Publishing Co. Inc. Connecticut.
- WATSON, J. D. "Riboflavin content of selected plant foods in Ghana". *Ghana Jnl. Agric. Science*.
- WOOLFE, M. L. AND BOEH-OCANSEY, L. E. O. "The Preservation of Cocoyam leaves" (*Xathosoma sagittifolium*, Schott) *J. Agric. Sci.* 1975.
- WOOLFE, M. L. (Editor) Seminar on the Food Industry in West Africa. Department of Nutrition and Food Science, University of Ghana, December 1975.

- WOOLFE, J. A. "The story of one Village Women's Group in Ghana". *Bull., Brit. Nutr. Foundation.* 3, 253, 1976.
- WOOLFE, J. A. AND ASHONG, J. O. "A comparison of Hair Root Morphology with Anthropometric and Biochemical Indices of Nutritional Status of Ghanaian Pre-school children" *J. Tropical Paediatrics, Environmental and Child Health.*
- PRIESTLY, R. J. "Moisture Requirements for Gelatinisation of Rice". *Die Starke* 27 (12) 416, 1975. "Apparent Solubility and Alkali Degradation patterns of rice varieties". *J. Food Sci.* 41 (1) 54, 1976.

### Conferences

Dr. R. Orraca-Tetteh participated in International Symposium on the Biological and Cultural Sources of Variability in Human Nutrition in Berkeley, California in December 1975. This was sponsored by the U.S.-Japan Malnutrition Panel and the University of California, Berkeley. He read a paper on "Cultures in Conflict". Dr. R. Orraca-Tetteh attended F.A.O./S.I.D.A. Workshop on Food Promotion for English-speaking countries of West Africa held at Greenhill, Accra from 5 to 10 April, 1976. He presented the opening working paper on "Nutrition problems in English-speaking West Africa".

### Visitors

Miss Erica R. Wheeler of the Human Nutrition Department, London School of Hygiene and Tropical Medicine, was on I.U.C. visiting lecturer to the department for 6 weeks during the Lent term. She also gave two seminars on "Variability and Adaptability in Energy Metabolism", and "An Approach to the Definition of the National Nutrition Problems". Other visitors to the department were Dr. Moises Behar, Chief of Nutrition of the World Health Organisation (WHO). Professor and Mrs. D. B. Jelliffe, of the Division of Population, Family and International Health, University of California Los Angeles; Professor J. C. Waterlow of the Human Nutrition Department, London School of Hygiene and Tropical Medicine; Professor C. C. Cheftel of the Laboratoire de Biochimie et Technologie Alimentaires, Universite des Sciences et Techniques du Languedoc, Montpellier, France.

Professor W. R. Stanton of the University of Malaysia, visited the department in connection with the F.A.O. documentation of Institutions dealing with agricultural by-products and waste utilisation.

#### **Extension and other Activities**

The staff and students studying Nutrition undertook a two-week Nutrition survey of the village of Ablekuma in the Greater Accra Region. The results of this survey have been analysed and recommendations made. It hoped to find funds to carry out an applied nutrition programme in this village.

The department has been involved in an Applied Nutrition project in the village of Baafi in Techiman, since it was surveyed in 1972. A re-survey is being carried out this year to evaluate the programme.

A Research fellow, Dr. Jennifer A. Woolfe has continued to run a women's group in Dome village near Kwabinya. Activities carried out include nutrition education, hygiene, health and sewing. A simple solar drier built in the department by students and staff has been successfully tried in the village, for drying vegetables.

#### **Benefaction**

U.N.I.C.E.F. provided an additional V.W. Combi Bus for the department. Through the Ghana-Guelph agreement, books, chemicals and spare parts for equipment were received.

## **DEPARTMENT OF PHYSICS**

#### **Staff**

Drs. G. K. Greenhut and T. Beer, both Senior Lecturers resigned their appointments at the end of the session.

Dr. G. K. Tetteh who had been on secondment to the Ghana Atomic Energy Commission for two years resigned his appointment as from 30th September, 1976.

Dr. E. T. Micah returned to post after a year spent attending the International Seminar in Physics at the University of Uppsala, Sweden.

Mr. D. A. Adutwum spent six months at the University of Birmingham under the Inter-University Council Technician Training Scheme.

Professor Koster, on secondment to the Computer Science Unit has been appointed Head of the Department of Computer Science.

Dr. D. Yeboah-Amankwah was appointed Acting Head of the Department of Physics.

### Students

F.U.E. Science	..	..	..	..	..	44
F.U.E. (Physics with Mathematics)	..	..	..	..	..	53
First Year Medicine	..	..	..	..	..	75
Second Year B.Sc.	..	..	..	..	..	7
Third Year B.Sc.	..	..	..	..	..	3
Fourth Year B.Sc. Honours (Old Regulation)	..	..	..	..	..	1
M.Sc.	..	..	..	..	..	3

Mr. V. C. K. Kakane a graduate student spent three months at the Max-Planck Institute in Heidelberg, Germany, on a practical attachment on experimental nuclear physics.

### Courses

The first set of students graduated under the new three-year degree structure. The new 2-year M.Sc. Programme was started with two students. The first part of the programme consists of formal courses examined at the end of the first year and the second part is taken up with thesis research in the second year. The areas of research being emphasized are atmospheric physics, electronics and instrumentation, nuclear and radiation physics, mechanical properties of solids and electron microscopy.

### Undergraduate projects and M.Sc. thesis accepted during the year B.Sc. Projects—June, 1976

A. Akycampong:

Sensitivity of ionization gauges with residual gases.

V. Obih:

The tensile strength of welded aluminium joints.

R. Quist:

A study of the surface topography of chemically etched alpha quartz using scanning electron and optical microscopy.

**L. L. N. Amaeshi:**

Designing and construction of a right circularly polarized serial with a minimum gain of 17 db to be matched to a transmission line with a characteristic impedance of 50 ohms.

### **M.Sc. Theses**

**K. A. Narh (Sept. 1975):**

Studies of the Surface Properties of some Ghanaian diamonds.

**A. W. K. Kyere (November 1975):**

The performance of the Kwabenya shadow shield wholebody counter.

### **Research Activities**

**Dr. E. K. Agyei:**

1. Mass spectrometry and Potassium—Argon geochronology.
2. Variation of potassium abundance in minerals.
3. Fractionation of the Argon Isotopes in the dating process.

**Dr. R. D. Baeta:**

1. The nature and stability of defects in ceramic crystals; dislocations in molecular structures.
2. Radiation damage studies in quartz.

**Dr. T. Beer:**

1. Northern Ghana Drought Project.
2. Oceanographic data analysis.
3. Explosive dispersal of seeds.
4. Ionospheric total electron content.

**Dr. G. K. Greenhut:**

1. Climatology of the Intertropical Convergence Zone.
2. Radiative decays of mesons.

**Dr. R. Kwadjo:**

1. Mechanical properties of welded aluminium joints.

**Mr. S. D. Mark:**

1. Photoconductivity—Solid State Physics.

**Dr. E. T. Micah:**

1. Computation of Knight shift in metals.

**Dr. D. Yeboah-Amankwah:**

1. Primary fixation in the Volta Lake.
2. Magnetic storm effects on the total electron content of the ionosphere.

3. Mossbauer spectroscopy.

Professor J. R. Koster:

1. Ionospheric studies—scintillation measurements and ionospheric irregularities.
2. Total electron content of the ionosphere.

### Conferences and other activities

Dr. R. D. Baeta read a paper titled "On the thermally activated dislocation glide in quartz" at the 10th Biennial Conference of W.A.S.A. in Freetown. Dr. R. Kwadjo and Mr. S. D. Mark attended the Summer College Workshop at the International Centre for Theoretical Physics in Trieste, Italy. Dr. Beer gave an Inter-Faculty lecture on "Light in the sky".

Dr. Yeboah-Amankwah was Visiting Scholar at Vanderbilt University for one month in April-May. He gave a number of lectures and seminars in Vanderbilt University, Fisk University and Tennessee State University. He also gave an Inter-Faculty Lecture on "Energy"

### Benefactors

The Department is grateful for sets of books received:

1. Under the Ghana-Guelph Project.
2. From the estate of the late Professor H. E. Huntley, so generously donated by his widow.

### Publications

DR. R. D. BAETA:

"Electron irradiation damage in synthetic quartz". Page 307 in the *Developments in Electron Microscopy and Analysis*. Edited by J. A. Venables. Academic Press 1976.

DR. T. BEER:

1. "Dispersion of Thermospheric Waves". JATP 37, 75, 1975.
2. "Whispering Galleries", Contemp. Phys. 16, 257, 1975.
3. "Tropical Iridescent Clouds". Bull. Am. Met. Soc. 56, 58, 1975.
4. "Mountain Waves". Science Progress, 63, 1, 1976.
5. Book review: "Structure and Dynamics of the Upper Atmosphere" edited by F. Verniani, Nature 254, 89, 1975.
6. The Aerospace Environment, Wykeham, London, 1976.

**DR. G. GREENHUT:**

1. "Current algebra, partial conservation of the axial vector current and PP—KK  $\pi\pi$ ". *Phys. Rev.* (in press) 1976.
2. "A new criterion for locating the subtropical high in West Africa". *Jour. Appl. Meteor* (in press) 1976.
3. "Regge pole contribution to vector meson radiative decays". *Phys. Rev.* 1976 (in press).
4. "Relations between the Z criterion for the subtropical high Hadley cell parameters and the rainfall in Northern Ghana". *Monthly Weather Rev.* 1976 (in press).

**DR. D. YEBOAH-AMANKWAH:**

1. "Increase of equatorial electron content (TEC) during magnetic storms". *J. Atmos. Terr. Phys.* **38**, 45, 1976.

**PROFESSOR J. R. KOSTER:**

1. "Ionospheric Production rates and the initial zenith angle at Legon". *J.A.T.P.* Vol. **38**, 1976.

**Obituary**

Professor H. E. Huntley, the first Head of the Department passed away at his home in the United Kingdom on August 18, 1975. Born in 1892, he lived for 82 years. Appointed as Senior Lecturer and Head of the Department of Physics of the University College of Gold Coast in 1949, he was promoted professor two years later, a post he held continuously till his retirement in 1957 at the age of 65.

Professor Huntley was interested in radio astronomy and ionospheric physics and, apart from numerous scientific papers, he found time to write two books on physics entitled: *Dimensional Analysis* and *Nuclear Species*.

Professor Huntley was an excellent teacher and a man of sterling character but he will most probably be remembered for his leading roles in the planning and construction of the present physical plant of the Department, as well as, the promotion of physics in the developing environment provided by Ghana in the early years of the University.

**DEPARTMENT OF ZOOLOGY**

**Staff**

The year saw two staff resignations, Dr. R. L. G. Lee and

Mrs. J. A. Lee have resigned their appointments with the University with effect from 30th September, 1976. There have been no new additions to the staff.

Mr. S. A. Whyte of the Volta Basin Research Project lectured on Freshwater Insects.

Dr. C. T. Lewis of Imperial College of Science and Technology London and Dr. W. E. Eguagie of the Cocoa Research Institute of Nigeria, Ibadan, were Visiting Professor and Visiting Principal Research Officer respectively to the Department. Dr. Lewis lectured on insect physiology and Dr. Eguagie on insect ecology to our B.Sc. Honours/M.Sc. Part I students. Dr. D. Loosli visited also the Department through the courtesy of CEIBA-GEIGY (Switzerland) as Senior Scientist and gave M.Sc. students a course of lectures and practicals on insecticides.

Dr. Ntifo of the Cocoa Marketing Board was again appointed part-time lecturer for insects of stored products and Mr. S. K. Firempong of Cocoa Research Institute, Tafo lectured on part-time basis to the National Diploma in Agriculture students.

### **Courses**

The new degree programme in Zoology is in its third year of operation and the first batch of 9 students graduated in June, 1976. The course system has had its inherent problems, especially that of setting papers out of unrelated courses. It is hoped that initial experiences gained will assist in future review of the new degree structure.

As in the past, the Department was involved in inter-faculty co-operation by teaching entomology at various levels to the students of the Department of Crop Science, Faculty of Agriculture.

### **Field Course**

The Zoology Department Easter Field Course which concentrates on non-aquatic topics, was held this year at the Mole National Park from April 3rd to 9th. Nine third-year zoology students and one botany student (taking the Wildlife course as part of the Botany Department's Ecology Option) participated as well as three members of the Zoology Department. The students were divided into two groups, one under Dr. Taylor and the other under Dr. Grubb.

Subjects investigated were as follows: rodent trapping, examination of other organisms of gallery woods, ecology of large mammals, frequency of sightings of game on various road stretches.

Although the group was not specifically set out to study birds, an advantage was taken of opportunities to watch raptors and water birds.

We are very grateful to the Game and Wildlife Department and particularly to Dr. E. Asibey for allowing us the use of facilities at Mole.

### Students

The students in the Department were distributed as follows:

F.U.E. Science	66
F.U.E. Medicine/Dentistry	75
B.Sc. Part I	23
B.Sc. Part II	9
B.Sc. Honours/M.Sc. Part I	5
M.Sc. Part II	4
Ph.D.(non-resident)	1

For the first time in the history of the Department, a First Class, Honours degree was awarded to Miss Y. Ntiamoah-Baidu in the June 1975 Examinations.

### B.Sc. Honours Projects

WOODE, E. (1976). The ecology and behaviour of *Anochetus* sp. (Hymenoptera: Formicidae). Studies on the effect of certain chemicals on the heart-beat of the Adult Grasshopper *Zonocerus variegatus* (Orthoptera).

SINNADURAI, P. (1976). A study of the ecology of *Pheidole megacephala* West (Hymenoptera: Formicidae). Possible methods for the study of Malpighian tubule activity in *Zonocerus variegatus* (Orthoptera: Acrididae).

KPORUGBE, P. G. O. (1976). The ground arthropod fauna of the cassava farm of the Zoology Department as determined by pit fall traps. Sense organs on mouthparts of Grasshopper *Zonocerus variegatus*.

OFEI, O. (1976). Activities of beetles associated with cattle dung burial at Nungua farm, University Research Station, Accra

area. Correcting behaviour in the cotton stainer bug *Dysdercus*.

ASIGRI, V. L. (1976). Biology and Ecology of a filth breeding Diptera *Musca domestica* L. at Nungua. Mobilisation of blood sugar and Lipids in *Zonocerus variegatus* (Orthoptera Acrididae).

### Seminars

The following seminars were held during the 1975-76 session:

Dr. E. Asibey (Game and Wildlife Department) presented a seminar on "The grass-cutter in the diet of West Africans".

Dr. Rolf Loosli (CEIBA-GEIGY, Switzerland) "The control of strain specificity in laboratory animal studies with special reference to the genetics of strain characters".

Dr. Harry Townson (Liverpool School of Tropical Medicine) "Approaches to genetical control in arthropod vectors of disease".

Joint seminar with Biochemistry and Botany Departments. "Swollen shoot virus of cocoa—Know Your Enemy".

K. Adu-Mensah (University of Ghana, Zoology Department) "Biology of some *Oxycarenus* species".

Dr. C. T. Lewis (Imperial College of Science and Technology, London) "Some recent studies on insect epicuticle".

Dr. W. E. Eguagie (Cocoa Research Institute of Nigeria), "Key factor analysis in ecological research with special reference to the bug *Tingis ampliata*".

Dr. Colin Campbell (Cocoa Research Institute of Ghana), "The ecology of swollen shoot disease".

Interdepartmental Seminar "Biotic and Climatic Change in the Quaternary of Africa".

Mr. J. Hall (Botany Department) "Plant species in Ghana with disjunct distributions; their possible bioclimatic significance".

Dr. M. Talbot (Geology Department) Climatic change over West Africa during the past 30,000 years: Geological and Geomorphological evidence".

Dr. M. Lock (Botany Department) "Distribution of *Afromomum* and Problems of evolutionary phytogeography".

Mr. B. Hughes (Zoology Department) "Does the past 'explain' anything with particular regard to the present geographic distribution of African snakes?"

**Dr. P. Grubb (Zoology Department)** "Mammal speciation and the quaternary vicissitudes".

Seminars delivered to outside bodies:

**Prof. R. Kumar (Zoology Department)** "What is being done and what needs to be done in Cocoa Entomology in Ghana" (to staff of Cocoa Research Institute, Tafo, 22nd April 1976).

### **Students Consultative Committees**

The two students Consultative Committees continued to function well. Students elected to serve on the committees were:

<i>Science</i>	<i>Senior Members on the Committee</i>	
Mr. G. R. Myers	Dr. I. R. Taylor	Dr. R. L. G. Lee
Mr. A. L. Odai	Prof. R. Kumar	Prof. W. Z. Coker
Miss G. Baffoe	Dr. M. Lieberman	
Miss S. Sai	Mr. B. Hughes	
Mr. H. Meier	Prof. J. K. M. Hodasi	
Mr. G. A. Armah	Dr. P. Grubb	
Mr. V. L. Asigri	Mrs. J. A. Lee	

<i>Medicine</i>	<i>Senior Members on the Committee</i>	
Mr. C. H. Ackah	Prof. J. K. M. Hodasi	Dr. W.A. Chinery
Mr. E. A. Obeng	Dr. Mary Ward	Dr. R.K. Anteson
Mr. S. Clarke	Prof. W. Z. Coker	
Miss B. Hughton	Mr. B. Hughes	

The items discussed at the Consultative Committee Meetings were mostly student problems and requests, for example, whether the Departmental library opening hours could be extended to about 10.00 p.m. on week-days. As in the past students response has not been enthusiastic. Students were advised to ensure that they obtained the views of the student body on matters to be discussed before the actual meetings.

### **Research Activities**

**Prof. J. K. M. Hodasi**

1. Helminth fauna of domestic fowl and Guinea fowl.
2. Biology and ecology of *Bulinus globosus*.

3. Biology and behaviour of the Giant African snail, *Achatina achatina*.

Prof. R. Kumar

1. Biology and systematics of African cockroaches.
2. Biology and systematics of the shield bugs (Pentatomoidea) of the world.
3. Ecology and population dynamics of cocoa farm insects.

Prof. W. Z. Coker

1. Insect toxicology and resistance.
2. Enzymology of medical and agricultural insects and snail vectors *Bilharzia*.

Dr. P. Grubb

1. Speciation in African animals, especially large mammals.
2. Biology of West African Lepidoptera.

Mr. B. Hughes

African snakes.

Dr. R. L. G. Lee

1. Statistical models for fisheries biology, host-parasite relationship and the smoltification of salmon.
2. Multivariate analysis and modelling of helminth parasite life cycles.

Dr. M. E. Lieberman

Marine ecology, population dynamics and competition on the species level, environmental physiology of marine gastropods, size-structure and organisation of ecosystems, mathematical models.

Dr. I. R. Taylor

Social organisation and feeding behaviour of avian and mammalian populations in relation to population dynamics and regulatory processes.

Mrs. J. A. Lee

Insect endocrinology.

### Conferences

Professor R. Kumar attended the 5th International Cocoa Research Conference (September 1975) and presented a paper entitled "Natural enemies of *Characoma stictigrapta* Hmps". He was appointed as an official rapporteur to the entomology section of the conference.

At the West African Science Association Conference held at Freetown, Sierra Leone from 29th March to 2nd April, 1976, the following read papers:

Prof. J. K. W. Hodasi—"Some aspects of the biology of *Achatina achatina*, the giant African snail".

Dr. M. Lieberman—"The supra-littoral fauna of West Africa".

Prof. W. Z. Coker—"A preliminary study of the esterases of some members of the *Simulium damnosum* complex using electrophoretic techniques".

### Extension and Other Activities

The Department of Zoology began an extension programme designed to improve yields of local fishermen fishing offshore. The first phase of this programme is designed to train them to increase their navigational skills and to use radio communication. The Department also commenced the building of a new thirty-five foot research vessel which will be used in conjunction with the extension programme to train undergraduate and graduate students, and for faculty research.

Professor J. K. M. Hodasi was the External Examiner to the Department of Biological Sciences, University of Science and Technology, Kumasi. He was also the University representative on the Medical Research Committee of the CSIR, and the Fishery Hydrobiological Sub-Committee of the Volta River Authority.

Professor R. Kumar served on the executive of Accra Branch of Ghana Science Association. He continues to provide and dispense free insect identification service. He advises Nsawam Canneries on pest control and pest contents of their tinned foodstuffs earmarked for export and has been requested to follow up the work with field visits when the canning season starts. He acted as an external examiner to the University of Cape Coast.

Professor W. Z. Coker has engaged in collaborative research with Dr. Harold Townson, Department of Entomology, Liverpool School of Tropical Medicine on the electrophoretic determination of the *Simulium damnosum* complex. So far the results are encouraging. The research is sponsored by the World Health Organization and is of vital importance in the evaluation

of the success of the Onchocerciasis Control Programme in the Volta Basin Area of West Africa.

### **Visitors**

Dr. E. Ayensu, Chairman, Department of Botany, Smithsonian Institution.

Mr. Kjell B. Sandved, Museum of Natural History, U.S.A.  
Professor W. H. Gotwald, Utica College, New York.

Dr. H. Townson, Liverpool School of Tropical Medicine.

Mr. A. J. Kent, Slough, U. K.

Dr. A. Sampong, Cocoa Research Institute, Kumasi.

Drs. J. T. Legg and C. Campbell, Cocoa Research Institute, Tafo.

Dr. B. M. Usher, York, U.K.

Dr. Robert Payne, University of Michigan.

Professor F. M. A. Ukoli, Ibadan, Nigeria.

Professor F. A. Toye, Ibadan, Nigeria.

Dr. Carl Hopkins, University of Minnesota—He recorded the electrical discharges of various electric fish at Lake Volta.

Dr R. Loosli, Ceiba-Geigy, Basel.

Mr. D. J. Girling, Cibe, Kumasi.

Dr. W. E. Eguagie, Cocoa Research Institute of Nigeria, Ibadan.

Dr. C. T. Lewis, Imperial College of Science and Technology, London.

Mr. R. G. Davies, Department of Zoology, Imperial College of Science and Technology, London. He was this year's external examiner to the Department.

### **Benefactors**

The Fund for Overseas Research Grants (FORGE) awarded Mr. S. Whyte and Dr. M. Lieberman a grant of \$5,000.00 to complete their study entitled "Population biology of commercial fish of the Volta Basin and Lake Bosumtwi".

Dr. P. Grubb was awarded grants from the Royal Society, The American Philosophical Society, as well as the University of Ghana, to visit the United States in June/July of 1975 during Sabbatical, to study in various museums as part of a project on Speciation in African Mammals. He visited museums in New York, Pittsburg, Chicago, Philadelphia and Washington.

## Publications

HODASI, J. K. M.

1. "Preliminary studies on the feeding and burrowing habits of *Achatina achatina*". *Ghana J. Sc.* 1974.
2. "The effects of low temperature on *Lymnaea truncatula*" *Z. Parasitenk* 48, 281-286 (1976).

KUMAR, R. (ed.)

1. Proceedings of the 4th Conference of West African Cocoa Entomologists, Zoology Department, Legon, xxi 202 pp.
2. 1975. "Evaluation of chemicals for the control of cocoa pests in Ghana". *Proc. 4th Conf. Cocoa Entomol.* 210-218 (with E. Owusu-Manu).
3. 1975. "A review of the cockroaches of West Africa and Congo Basin". *Bull. IFAN, Dakar* 37 (1) 27-12.
4. 1975. "Biology and immature states of cotton stainers found in Southern Ghana" *Biol. J. Linn. Soc.* 7 (2): 83-111 (with B. A. Fuseini).
5. "Ecology of cotton stainers (Heteroptera: Pyrrhocoridae) in Southern Ghana" *Biol. J. Linn. Soc.* 7 (2): 113-146 (with B. A. Fuseini).
6. 1975. "A new genus and three species of cockroaches (Blattaria: Dictyoptera) from Africa". *Zool. J. Linn. Soc.* 57: 179-184.
7. 1975. "Natural enemies of *Toxoptera awontii* (Boy.) (Homoptera: Aphididae) on cocoa in Ghana" *Biol. J. Linn. Soc.* 7 (4) 261-292.
8. 1976. "Alimentary and reproductive organs of *Diopsis thoracica* (Diptera: Diopsidae)". *Ann. Ent. Soc. Amer.* 69 (2) 190-94 (with D. Nutsugah).

LIEBERMAN, M. AND J. D. MCCARTHY 1976.

"The design of a directional, treadleactuated animal movement recorder". *J. Wildl. Manage.* 40 (1).

## DEPARTMENT OF COMPUTER SCIENCE

Near the end of the 1975-76 session the University Council approved the upgrading of Computer Science in the University

from the status of a 'unit' to that of a full department in the Faculty of Science. Plans were approved to enable students to offer computer science as one subject in a two-subject degree programme in the Faculty. Professor John R. Koster was appointed as substantive head of the new Department.

At the end of the 1975-76 session, Mr. James L. Wolfe, a peace corps volunteer and instructor in computer science, left upon the completion of his three years of service in the country.

Seven graduate students successfully completed the course leading to the graduate diploma in Computer Science. Two of these have received University of Ghana scholarships for further studies abroad.

Service courses introducing students to the computer and training them in the elements of programming were offered as usual to interested students of all faculties during both the first and the second terms. Two somewhat more specialized courses were offered to students of the School of Administration, and an introductory course was offered during the long vacation for students of the Regional Institute for Population Studies. Over 200 students availed themselves of these courses.

During the long vacation IBM (Ghana) provided a lecturer for a short course in RPG (Report Program Generator) for graduate diploma students and other interested persons in the University.

### **The Computing Centre**

The Computing Centre is intended to serve the computing needs of the entire University community. The machines are fully committed from 6.00 a.m. to 8.00 p.m. daily.

Approximately two hours are used daily to meet the University's own accounting and data processing needs. The rest of the time is largely devoted to academic computing, both research projects and student programs. Outside the period mentioned, the computer is available to qualified individuals for "hands on" operation of their own jobs.

The Computing Centre is also prepared to give computing advice and assistance to outside bodies, and includes among its clients the following: The Bank of Ghana, The Council for Scientific and Industrial Research, The Food Research Institute,

The Department of Meteorology, The World Health Organisation, The Ministry of Agriculture, The Ministry of Foreign Affairs, The Ministry of Health, The Ghana Tourist Control Board, The Agricultural Research Institute, The Ghana Teaching Service, The Food and Agricultural Organisation. The Institute of Statistical, Social and Economic Research together with its many contracts, and the Danfa Rural Health Project are major users within the University. A number of small engineering firms also make use of the University's services.

No major hardware changes were effected in the computing centre during the current session, though the replacement of the line printer enabled printing speeds to be upgraded from 240 to 600 lines per minute. The IBM 1130 presently installed in the Centre is still able to cope with the main University needs. But the inexorable increase in demand will exceed capacity in about two years. Hence a study of future computing needs in the University will begin in 1976-77, with a view to ordering new hardware around the beginning of 1977-78, and putting it into service a year later.

## DEPARTMENT OF CHEMISTRY

### Staff

Mr. K. A. Wood left the Department at the end of September 1975 to start his Ph.D. course in X-ray crystallography at Imperial College, London University.

Mr. S. K. Nyarko continued as Demonstrator in the Department till the end of December 1975, when he left to start his Ph.D. course in radiochemistry at the University Chemical Laboratory, Cambridge University.

Professor D. A. Bekoe was appointed Vice-Chancellor with effect from January, 1976.

Professor F. G. Torto was away on sabbatical leave for the session.

Dr. M. C. Chaco resigned with effect from the end of the session, after 13 years' service to the Department.

Normally Peace Corps (U.S.A.) personnel are attached to Departments for one year only. However, Mr. J. Spring was able to spend a second year with us, and left at the end of the session.

Dr. F. L. Phillips joined the staff in January, 1976 after obtaining his Ph.D. in X-ray crystallography from Imperial College, London University.

Dr. P. C. Goswami was elected Fellow of the Chemical Society (London) and also Member of the Royal Institute of Chemistry (London).

As in the previous academic year, we had to rely on outsiders for part-time lecturing. In view of the shortage of staff not only at Legon but also at Kumasi and Cape Coast, an arrangement for part-time lecturing was made to the mutual advantage of all the three Departments. Of the Kumasi staff, Professor B. Bis was lectured to our B.Sc. Pt. II (New Regs.) 3.2.1 Combination and B.Sc. (Hons.) Year IV (Old Regs.) students on Valence Theory, and Dr. D. N. S. Rao lectured to the same groups of students on Applications of Spectroscopic Methods. Dr. I. M. Procter of Cape Coast lectured to our B.Sc. Pt. II (New Regs.) 3.2.2. Combination and 3.2.1 Combination students on Inorganic Chemistry of Transition Elements. For our part, the following staff gave part-time lectures at U.S.T., Kumasi:

Dr. R. E. Pearson: Year I Human Biology (Medicine); Physical Science (Physical Chemistry).

Dr. W. A. Asomaning: Year III and Year IV (Hons. Chemistry); Co-ordination Chemistry and Organometallics.

Dr. I. A. Mensah: Year IV (Hons. Chemistry); Special Topic—Alkaloids.

Dr. W. R. Phillips: Year IV (Hons. Chemistry); Special Topics—Photochemistry and Biogenesis.

Professor J. A. K. Quartey: Year I Human Biology (Medicine); Physical Science (Organic Chemistry); Year IV (Hons. Chemistry); Advanced Organic Chemistry and Special Topics (Steroids, Terpenoids, Vitamins and Hormones, Dyes and other natural products).

### Student Numbers

Student numbers during the session were as follows:

F.U.E. Science	..	..	..	..	94
F.U.E. Medicine and Dentistry	..	..	..	..	75
F.U.E. Home Science	..	..	..	..	—
B.Sc. Pt. I (New Regs).	..	..	..	..	25

<b>B.Sc. Pt. II (New Regs):</b>				
3.2.2 Combination	..	..	..	3
3.2.1 Combination	..	..	..	2
<b>B.Sc. (Hons.) (Old Regs.)</b>	..	..	..	5
<b>M.Sc.</b>	..	..	..	2

### Courses

As would be seen from the foregoing paragraph, the new degree-structure was operated in its entirety for the first time last session. A Scheme for Determination of the Degree Results was discussed by the various Faculty Boards and approved by the Academic Board. On the whole, the new degree-structure seems to be working well. A welcome innovation was the introduction of a substantial research project to replace merely formal practical classes in both the 3.2.2 and 3.2.1 Combinations. It has also become clear that, in practice, the range of options must be fairly limited. In any case, the options available in any year depend on the staff available. Any other changes which have been found to be necessary will be submitted to the Faculty Board in the 1976-77 session.

### Research

Research was carried out in the following areas:

- (a) X-ray crystallographic studies of inorganic complexes (Dr. F. L. Phillips).
- (b) Gas-phase kinetics of cyclic alcohols (Dr. Dakubu).
- (c) Photochemical reactions (Dr. P. C. Goswami, Dr. W. R. Phillips).
- (d) Organometallic compounds (Dr. W. A. Asomaning).
- (e) Investigation of Ghanaian and other West African medicinal plants: Alkaloids (Dr. I. A. Mensah); essential oils (Dr. W. A. Asomaning, Dr. M. C. Chaco, Dr. W. R. Phillips, Prof. J. A. K. Quartey); steroidal and other constituents (Dr. M. C. Chaco, Prof. J. A. K. Quartey).
- (f) Biogenetic studies using tracers (Prof. J. A. K. Quartey).

### Publications

M. C. CHACO

1. "Essential oils from West African plants: Ishwarane from

- Bixa Orellana*", *J. West African Sci. Assn.* **18**, 84 (1973) (with J. A. K. Quartey).
2. "New solutions for the energy problem"; *Universitas* (in press).
- I. A. MENSAH
1. "The role of language in intellectual development"; *Universitas*, **4**, No. 2.
  2. "Wisanine, a novel alkaloid from the roots of *Piper guineense*"; *Tetrahedron Letters* (in press) (with F. G. Torto & I. Baxter).
  3. "N-isobutyl-trans-2-trans-4-eicosadienamide and other alkaloids from the fruits of *Piper guineense*"; *Phytochemistry* (in press) (with F. G. Torto, I. Baxter, I. V. Oppong & J. K. M. Saunders).
  4. "Herbal medicine: does it have a future in Ghana?" *Universitas* (in press).
- R. E. PEARSON
1. "The development of science concepts", in *Concept Growth and Development*. (ed. R. O. Ohuche & B. Otaala) African Educational Resources, Monrovia (in press).
  2. "What can children learn about science: some psychological aspects of science education"; *Universitas* (in press).
  3. "Children's development"; *Unesco Handbook for Science Teachers* (in press).
- F. L. PHILLIPS
1. "The crystal structure of tetraphenylarsonium nitridotetraiodo-osmate (VI): a high-oxidation-state iodo complex of square-pyramidal osmium"; *Transition Met. Chem.*, **1**, 28 (1975) (with A. C. Skapski & M. J. Withers).
  2. "The crystal structure of tetraphenylarsonium nitridotetra-chlororuthenate (VI): a square-pyramidal ruthenium complex"; *Acta Cryst.*, **B 31**, 2667 (1975) (with A. C. Skapski).
  3. "Crystal and molecular structure of bis [-oxo-oxo-(tetramethylethane-1, 2-diolato) osmium (VI)]: a dimeric monoester complex with square-pyramidal co-ordination", *J. Chem. Soc. (Dalton)*, 2586 (1975) (with A. C. Skapski).
  4. "Crystal and molecular structure of dichlorotris-(2-methylimidazole) manganese (II): a high spin pentaco-

ordinate complex of manganese"; *Acta Cryst. B* 32, 687 (1976) (with F. M. Shreeve & A. C. Skapski).

J. A. K. QUARTLEY

See M. C. Chaco.

F. G. TORTO

See I. A. Mensah.

### Conference, Seminars, etc.

Dr. I. A. Mensah presented two papers on "Isolation and characterisation of some alkaloids of the fruits of *Piper guineense*" and "Wasanine, a novel alkaloid from the roots of *Piper guineense*" at the 10th Biennial Conference of the West African Science Association at Freetown, Sierra Leone, in March, 1976.

### Other Activities

Members of the Department served on various Boards and Committees, including:

	<i>University</i>	<i>Outside</i>
Dr. W. A. Asomaning	Faculty Board of Science, Academic board, Residence board, Library board, Scholarships committee, Legon Hall Senior Tutor, Legon Hall Council, Management committee for the Central Cafeteria.	West African Examinations Council.
Dr. M. Dakubu	.. Library board	West African Examinations Council, Committee on Petroleum products (Standards board).
Dr. P. C. Goswami	.. Departmental Librarian, Legon Hall Tutor.	
Dr. I. A. Mensah	.. Mensah Saibah Hall Council.	West African Examinations Council, Treasurer, Ghana Association of University Teachers.
Dr. R. E. Pearson	.. Science Laboratory Technician Scheme Co-ordinator. <i>Universities Editorial Board.</i> Honorary Coach, University Volleyball team.	<b>EDITORIAL TEAM</b> Project for science integration, a junior secondary school science course for Ghana (Ghana Association of Science Teachers).
Dr. F. L. Phillips	.. Akuafio Hall Choirmaster.	West African Examinations Council.

Dr. W. R. Phillips	Faculty Board of Agriculture, Legon Hall Tutor, Legon Hall Choirmaster, University Joint Choirs Choirmaster.	West African Examinations Council.
Prof. J. A. K. Quartey	Faculty Board of Science, Academic Board.	Environmental Protection Council: Toxic Chemicals Committee. West African Examinations Council.

## FACULTY OF SOCIAL STUDIES

### DEPARTMENT OF ARCHAEOLOGY

#### Staff

In October, Mr. E. Effah-Gyamfi joined the Department from the Ghana Museum as an Assistant Lecturer. At the end of the year, Professor Merrick Posnansky left after 9 years to take up an appointment as Professor of African History at U.C.L.A. and Miss S. Nygaard left after 4 years. The appointment of Dr. J. E. G. Sutton of Zaria University as Professor was announced. Mr. J. Anquandah was appointed Acting Head prior to Dr. Sutton's arrival. Mr. S. Apea-Dankwa returned from his attachment to Durham University under the I.U.C. technical training programme, and at the end of the year, was appointed Acting Chief Technician when Mr. D. Agyei-Henaku went to the London Institute of Archaeology on a 6-month I.U.C. Technical Secondment. In January, Professor Posnansky was elected a Fellow of the Society of Antiquaries of London. Mr. E. Effah-Gyamfi registered for a Ph.D. on the Archaeology of the Bono Manso State which was the first registration for a Ph.D. in Archaeology at Legon.

#### Students

There were a total of 48 students, 23 in their first year, 20 in their second and third years, 5 M.A. students and 4 students from Holland and the U.S.A. reading selected courses. During the year, Mr. Francis Musonda successfully completed his M.A. thesis on "The Later Stone Age of the Volta Scarp", and Mr. E. K. Agorsah received his M.A. for his thesis on "Some Considerations on the Archaeology and traditional history of the Begho area"

## Courses and Research

A new course on Technological Traditions in Western Africa was introduced into the M.A. syllabus. A series of lectures were given by Mr. K. A. Myles, the Acting Director of the Ghana Museum in the Ghana Museum for the second year students. An active programme of research was undertaken during the year. Over the Christmas vacation, a party of 11 Ghanaian sixth formers and students joined with a group of 9 young people from England belonging to the Brathay Exploration Group and undertook the mapping and excavation of Fort Ruychaver near Prestea, a Dutch fort built in 1654 which was blown up in 1659 and whose exact location was unknown until 1969. Other work involved the excavation of 2 rubbish dumps at Hani dating from the 1930s which threw light on the processes of rubbish accumulation and decomposition which is of relevance in interpreting rubbish accumulation on archaeological sites.

Excavations were also continued at the capital site of Bono Manso by Mr. Effah-Gyamfi who organised training for a total of seven students and by Mr. Anquandah at Boyasi, a new Kintampo culture site first discovered by Dr. L. Newton of U.S.T. Professor Posnansky continued his survey of the iron slag site at Dapaa near Debibi which has now been dated to the period of Begho.

During the Easter vacation a very successful excursion was organised by Mr. Anquandah to sites and villages practising traditional crafts in the Kumasi region.

## Publications

The fourth volume of *Field Notes* by Professor Oliver Davies on Southern Ghana was published and the second volume of *Sankofa* edited by James Anquandah was sent to Press. Members of staff availed themselves of the biannual publication of *Nyame Akuma* a newsletter of African Archaeology published by the University of Calgary and reports on Excavations at Begho D2 and D3 by Mr. James Anquandah and Mr. L. B. Crossland appeared in No. 7 for October 1975 (pp. 16-23) as well as a report by Professor Posnansky on his excavations at ironworking sites at Hani and Debibi. In No. 8 for May 1976, there were reports by Professor Posnansky on his work at Debibi, Fort Ruychaver and Hani (pp. 25-27); by Mr. J.

Boachie-Ansah at Bonoso and Ahwene Koko (pp. 27-31); by Mr. James Anquandah at Boyasi Hill (pp. 33-35) Miss S. Nygaard in collaboration with Dr. M. Talbot on Coastal Ghana: Archaeology and Geology (pp. 36-37) and by Dr. Dombrowski on her reconnaissance in the Mole Game Reserve (pp. 38-39).

MR. JAMES ANQUANDAH

1. "The Smith's quarter at Be'o—a preliminary report of the 1975 excavation", *Sankofa*, II (1976).
2. "The rise of civilization in the West African Sudan—an archaeological and historical perspective" *Sankofa*, II (1976).

MR. L. B. CROSSLAND

"Nyarko and Dwinfuor D3 excavations in 1975", *Sankofa*, II (1976).

DR. J. C. DOMBROWSKI

"Mumute and Bonoase—Two sites of the Kintampo Industry", *Sankofa*, II (1976).

MR. EFFAH-GYAMFI

1. "Aspects of the Oral Traditions and Archaeology of the Bono State", *Trans. Hist. Soc. of Ghana*, IV, 2, (1976).
2. "King Ameyaw Kwakye of Tekyiman", *Universitas*, V, (No. 1), (1976).
3. "Oral Traditions of the Bono State", supplement of *I.A.S. Research Review* (in press).

PROFESSOR M. POSNANSKY

1. "New Radiocarbon dates for Northern and Western Africa", *Journal of African History*, XVII (1976) pp. 161-195 (with R. D. McIntosh).
2. "Fort Ruychaver Rediscovered", *Sankofa*, II (1976) (with Dr. Van Dantzig).
3. "New Radiocarbon Dates from Ghana", *Sankofa*, II, (1976).
4. "Introduction to the Later Prehistory of Sub-Saharan Africa". Chapter 22 of *The Unesco History of Africa*. Vol. II.
5. "The Early Iron Age Societies of Sub-Saharan Africa". Chapter 30 of *The Unesco History of Africa*. Vol. II.

6. Edited *West Africa Trade Project*. Report for 1975 with contributions by L. B. Crossland, J. C. Dombrowski, Mr. F. Musonda and R. McIntosh. Also reviews of *Africa in the Iron Age* by Roland Oliver and Brian Fagan, Cambridge 1975 in *Journal of African History*, XVII (1976) and *Men of the Earth* by Brian Fagan, Boston 1974 in *International Journal of African Historical Studies*, IX, (1976).

### **Conferences**

Professor Merrick Posnansky gave a paper on the "Archaeological Foundations of the History of Ghana" to the Conference on the Historiography of Ghana in May 1976.

### **Seminars**

Seminars were held throughout the year when the following speakers gave papers: Dr. Mubarak Al-Rayyah, Merrick Posnansky (Michaelmas, Lent and Trinity terms), Mr. L. B. Crossland, Mr. James Anquandah (Michaelmas and Trinity Terms), Mr. K. A. Myles, Mr. D. Kiyaga-Mulindwa, Mr. E. Effah-Gyamfi (Lent and Trinity terms), Dr. J. C. Dombrowski, Mr. R. Ebanks, Dr. M. Talbot and Mr. E. K. Agorsah.

### **Library**

A total of 37 books and 65 periodicals and pamphlets were accessioned during the year. Though many of these were bought from Department's funds there were many donations, the most important of which were from Miss S. Nygaard, Professor Merrick Posnansky, Dr. A. Van Dantzig and the History Department. The U.S.I.S. also provided the important Time-Life Series on *The Emergence of Man* on loan to the Department.

The Clerk in charge of the Library, Mr. D. K. Mensah resigned during the year. Mr. E. Effah-Gyamfi replaced Miss S. Nygaard as staff member in charge of the Library. Plans are afoot to extend the shelving in the Library and provide new cupboards for the rare books and theses.

### **Benefactions and Visitors**

The East German Government, through the Akademie der Wissenschaften, has offered to undertake free of charge 8-12

radiocarbon determinations annually which is the equivalent of an annual gift of up to \$1,000 at present commercial rates.

Visitors to the Department included Professor B. Brentjes, Dr. R. Law, The Apintohe, the Hanihene, Professor M. Crowder, Dr. Ekpo Eyo, Mr. Patrick Bulenzi of UNESCO, the Deputy Director of Sudan Antiquities Dr. Mubarak Al-Rayyah and the External Examiner, Professor N. David of Ibadan.

### **Prizes**

A student prize to be known as the Richard B. Nunoo prize, named after Africa's and Ghana's first archaeologist and first Ghanaian Director of the Ghana Museum, was established with the help of donations from Professor O. Davies, Professor C. T. Shaw, Professor Merrick Posnansky, Mr. R. B. Nunoo and Professor P. L. Shinnie. It will be awarded annually to the most outstanding student of the Department.

### **Museum**

The year was a relatively quiet one, though 3 new show cases were built and the lighting system completed. The number of visitors continues to increase making the Museum a popular attraction to visitors from outside Legon.

### **Other Activities**

Mr. James Anquandah gave a weekly talk on the G.B.C. in the series "African Landmarks" on the History and Archaeology of Africa from 5 million B.C. to A.D. 1900.

As part of the Silver Jubilee celebrations of Mawuli Secondary School, Professor Merrick Posnansky addressed senior school children from all over the Volta region at Ho in November. He also spoke to the British Women's Association and Achimota sixth formers.

## **DEPARTMENT OF ECONOMICS**

### **Staff**

Professor J. C. de Graft-Johnson was promoted to the rank of a full Professor with effect from 1st June, 1975.

Dr. Jones Ofori-Atta was also promoted Senior Lecturer with effect from 1st June, 1975.

Mr. S. N. M. Doodoo who read for the M.Sc. and M.A. at both Legon and Western Ontario respectively has been appointed a Lecturer.

Professor N. Ahmad resigned his appointment with this University with effect from 31st December, 1975. Dr. J. G. A. Vermeeren, the last of the Western Ontario personnel on the staff, returned to the University of Western Ontario after a 3-year tour as Visiting Lecturer under the Western Ontario/University of Ghana Twinning Arrangement. The Arrangement has been terminated with effect from the 1975-76 academic year.

### Students

Student numbers are still increasing. Intake for the various courses in the Department for the 1975-76 academic year were as follows:

F.U.E. Arts and Social Science	..	..	207
B.A. Part I	..	..	120
B.A. Part II	..	..	64
M.Sc. (Final Year)	..	..	9

The M.Sc. (Preliminary Year) operated as a remedial course for students.

Our Lecturers assisted with the following courses:

F.U.E. (Administration)	..	..	77
Dip. Public Administration I	..	..	22
Dip. in Accounting I	..	..	40
Dip. in Social Administration I	..	..	25
B.Sc. (Agric.) Part II	..	..	10
B.Sc. (Agric.) Part III	..	..	10
M.Sc. (Agric.)	..	..	3
Prison Administration II	..	..	12
Prison Administration I	..	..	15

### Courses

Introduction to the Economic History of West Africa was approved as an alternative course for students combining Economics Statistics or Mathematics at the T.U.C. level.

## Publications

R. G. BROOKS, "Costs of Selected Health Institutions in the Central Region, 1972-73", *Ghana Medical Journal*, Vol. 14, No. 3, December, 1975.

JONES OFORI ATTA

1. "Policy for Trade-Induced Resource Transfers for Economic Development", *Economic and Social Affairs*, Vol. 2, No. 1,
2. "The Stagnation Crisis in Ghana", *Universitas*. Vol. 4 No. 2.
3. "Sectoral Changes in Income Distribution in the Economies of West Africa", *Universitas* (forthcoming).
4. "Foreign Trade Regions and Economic Development: Ghana". (Review Articles) *Economic Bulletin of Ghana* (forthcoming).

KOBENA G. ERBYNN

1. "The Role of Incentives for Farmers in Increasing Agricultural Productivity" In *Productivity in Agriculture Management Development and Productivity Institute*, Accra, October, 1975.
2. "The Oil Crisis and Its Impact on Ghana". To be published in *Proceedings of the Ghana Academy of Arts and Sciences* Vol. XIII.
3. (With E. O. Otchere, *et. al*): "Response of sheep to rice straw or Cassava Poels Fortified with Urea and Molasses as Supplemental Feed". *Proceedings of the Freetown Conference of West African Science Association* (1976). Also to be published soon in *Ghana Journal of Agricultural Science*.
4. "Report of the Committee on Guaranteed Minimum Prices for Agricultural Produce". Part One: Cost of Farm Mechanized Services. Accra (*K. G. Erbynn, Chairman of Committee*). February, 1976.
5. "Report of the Committee on Guaranteed Minimum Prices for Agricultural Produce". Part Two: "Guaranteed Minimum Prices for Agricultural Produce", Accra. (A seven-member National Committee with K. G. Erbynn as Chairman), March, 1976.

## Conferences

### J. C. DE GRAFT-JOHNSON

1. "Economic and Social Developments in the 19th Century", *Seminar on Ghanaian Historiography and Historical Research*, organised by the Department of History, University of Ghana, Legon, 20-22 May 1976.
2. "Ghana and the ACP-EEC Convention", Opening Address at the *Workshop of ACP-EEC Relations*, 22-24 January, 1976, organised by the Faculty of Law, University of Ghana.

### K. G. ERBYNN

1. "The Role of Statistical/Econometric and Computing Techniques in Development Planning". *Proceedings of the First Legon Statistical and Computing Society Seminar* (1975).
2. International Seminar on Socio-Economic Problems of Rural Development, University of Cape Coast, Cape Coast (5-12 January 1976). (Discussant's Paper on "Agricultural Policies and Extension".)
3. Pan-African Bi-Lingual Symposium on Raw Materials and the Development of Africa. Organised by the Pan-African Foundation for Economic, Social and Cultural Development (FOPADESC), Lome, Togo (26-31 January, 1976). (Presented a paper on "Industrialization in Africa: Problems and Prospects")
4. Summit International Seminar on UNCTAD IV. Organised by Society for International Development, Washington, D.C., U.S.A. (4-5 April 1976). (Represented Africa south of the Sahara.)
5. International Conference on Natural Resources Management in Arid Regions (West African Conference). University of Arizona, Tucson, Arizona, U.S.A. (11-17 April, 1976). (A member of the Official Ghana CSIR delegation—leader of delegation.)
6. Seminar on Urbanization and Rural Development in Ghana. Organised by the Department of Geography, University of Ghana, Legon (11-17 July, 1976). (Discussant's Paper on "Measuring Economic Growth Impact".)

7. XVI International Conference of Agricultural Economists. Organised by the International Association of Agricultural Economists. The Kenyatta Conference Centre, Nairobi, Kenya (26 July-4 August, 1976). (A member of the official delegation from the Ghanaian Association of Agricultural Economists.)

## DEPARTMENT OF GEOGRAPHY

### Staff

Professor K. B. Dickson, Head of Department, was away on a year's Sabbatical leave and Dr. G. Benneh, Senior Lecturer, was appointed Acting Head of Department with effect from October 1, 1975. Dr. Clement Dorm Adzobu, Lecturer, resigned from the service of the University. Mr. C. S. K. Toboh took up appointment as Senior Research Assistant in September, 1976.

### Students

Student numbers for various courses in the Department were:

F.U.E.	..	..	..	..	..	122
Second Year	..	..	..	..	..	37
Third Year	..	..	..	..	..	18
First Year M.A.	..	..	..	..	..	2
Second Year M.A.	..	..	..	..	..	2
Ph.D. Student	..	..	..	..	..	1

### Courses

The syllabus of a new undergraduate course in Medical Geography was approved by the Academic Board.

### Publications

ADDO, DR. S. T. "The Role of Cocoa in Road Development in Ghana's Central Region". Accepted for publication. *Bulletin of Ghana Geographical Association*. Expected to be published in 1977.

AGYEPONG, DR. G. T. "Preliminary Report on Coastal Erosion and Pollution on the Eastern Coast of Ghana". Report submitted to Environmental Protection Council.

**BLNING, DR. R. B.**

1. "Colonial Development Policy in Northern Ghana 1898-1950". *Bulletin of Ghana Geographical Association*, Vol. 17, 1975, pp. 65-79.
2. "Foundations of the Modern Native States of Northern Ghana". Accepted for publication in *Universitas*, Vol. 5, No. 1 Expected in 1976.

**BENNEH, DR. G.**

1. "Traditional Political Systems, Titles to Land and Tenures in Ghana", *Bulletin of Ghana Geographical Association*, Vol. 17, 1975, pp. 57-64.
2. "Population Growth and Food Supply in Ghana". *Peasant Studies Newsletter*, Centre for International Studies, Pittsburgh, October 1975, Vol. IV, pp. 17-22.
3. "Communal Land Tenure and the Problem of Transforming Traditional Agriculture in Ghana", *Journal of Administration Overseas*, H.M.S.O., London, Vol. XV, January 1976, pp. 26-33.
4. With Addo, N. O. *et al.* *The Impact of Tourism on Social Life in Ghana*, Accra, Vol. II, July 1976. Mimeographed. pp. 1-178.

**BURKO, DR. D. A.**

1. "Perception, Migration and Urban Primacy in Ghana: A Study of Accra-Tema Metropolitan Area" *Bulletin of Ghana Geographical Association*. Vol. 17, 1975, pp. 80-95.
2. "The Structure of Ghanaian Cities: A Descriptive Model". Accepted for publication in *Bulletin of the Ghana Geographical Association*. Expected in 1976.
3. "Urban-biased Policies and the Development of Urban Primacy in Ghana". Accepted for publication in *Economic and Social Affairs Bulletin*.

**GYASI, DR. E. A.**

1. "Population Pressure and changes in Traditional Agriculture: Case Study of Farming in Sekesua-Agbelitsom Ghana". Accepted for publication in *Bulletin of the Ghana Geographical Association*. Expected in 1976.

**NABILA DR. J. S.**

1. "Depopulation in Northern Ghana: Migration of the Frafra People" in David, A. S., Laing, E. and Addo, N. O.

(eds.) *Interdisciplinary Approaches to Population Studies*, University of Ghana Population Studies No. 4, Legon 1975, pp. 70-83.

2. With Other (eds.) *Field Data Collection in the Social Sciences: Experiences in Africa and Middle East*, Agricultural Development Council, New York, 1976, pp. 1-200.

SONGSOORE, DR. J.

1. "Towards the Building of a Model of Urban Growth Dynamics: The Case of Large Northern Ghanaian Towns". Accepted for publication in *Universitas*. Expected in 1976.
2. "Population Density and Agricultural Change Among the Dgba of Northern Ghana". Accepted for publication in *Bulletin of Ghana Geographical Association*. Expected in 1976.

**Students Handbook:** The Department published for the first time a student's Handbook. The Handbook contains course outlines and recommended reading lists for all the courses offered by the Department, a guide to the preparation and presentation of undergraduate dissertations and a list of publications in the Departmental Library. Apart from its major role of disseminating relevant information to students of Geography and related disciplines, it is hoped that employers who would like to know the capabilities of a geographical trained graduate will find it an invaluable document.

**Newsletter:**

The first volume of the Department's *Newsletter* was published in the course of the session. Among the objectives of the *Newsletter* are:

- (1) To help the Department maintain close links with its alumni by keeping in touch with past students and
- (2) to keep the public informed about the academic and Social activities in the Department.

The *Newsletter* will appear once a year.

### Conferences

The Department organised a six-day seminar, 12th-17th July, 1976 on *Urbanization and Rural Development in Ghana* in

Commonwealth Hall, Legon, in collaboration with the Centre for Development Studies, University of Science and Technology. The seminar which was attended by sixty participants drawn from the three Universities, Government Departments, Banking Institutions, Regional Development Corporations, the National Economic Planning Council, International Organisations in Ghana and Students was funded by the Ministry of Economic Planning and the University of Ghana Research and Conferences Committee.

Dr. Robert Gardiner, Commissioner for Economic Planning gave the keynote address and Dr. D. A. Bekoe, Vice-Chancellor of the University of Ghana delivered the welcome address. 30 papers were presented on the following themes: Concept of Development, Problems and Policies of Rural Development in Ghana, Problems and Policies of Urbanisation in Ghana, Regional Planning and Rural Development, Strategies for Integrated Rural Development, Measuring Economic Growth Impact and Implementation of Development Plans. Arrangements have been made for the publication of the proceedings of the Seminar.

The following papers were presented by the teaching staff of the Department at the Seminar:

Addo, Dr. S. T.: "Rural-Urban Linkages in Regional planning"

Agyepong, Dr. G. T.: "Land as a Resource Factor in Urban and Rural Development"

Bening, Dr. R. B.: "Administration and Development in Northern Ghana 1898-1951"

Benneh, Dr. G.: "Improving Traditional Agriculture through Agricultural Co-operatives. The Case of Ashanti-Mampong District 1962-66"

Berkoh, Dr. D. A.: "Analysis of Urban Agglomeration and its meaning for Rural People"

Gyasi, Dr. E. A.: "Some Preliminary observations on the Impact of a pilot Rural Development Project in the Akwapim-Mampong Valley: The Mampong Valley Social Laboratory"

Nabila, Dr. J. S.: "Rural Out-Migration and its Implications for Rural Development in Ghana"

Other conferences attended by members of staff included the following:

Addo, Dr. S. T.: Ghana Geographical Association Easter Conference, April 1976, Cape Coast. *Paper read*: "The use of Quantitative Techniques in Geography".

Benneh, Dr. G.:

1. Seminar on *Land and Economic Development in Ghana*, U.S.T., Kumasi, September 1975. *Paper Read*: "Economics of Land Use in Ghana".
2. Seminar on *Forces and Factors involved in the Inter-Regional and Intra-Regional Transmission of Growth*, Ministry of Economic Planning, Accra, 4th December 1975. *Paper Read*: "Regional and Rural Development in Ghana".
3. *27th Annual New Year School*, U.S.T., Kumasi, December 1975. *Open Lecture*: "Problems and Prospects of Ghanaian Cities."
4. Seminar on *Socio-Economic Problems of Rural Development*, Centre for Development Studies of Cape Coast University, January 1976. *Paper Read*: "Regional Development Planning as a Unifying Approach to the Development of Ghana."
5. *West Africa Conference*, Co-sponsored by the Council for Scientific and Industrial Research (Ghana) and the University of Arizona, April 11-15, 1976 *Tuscon, Arizona*. *Paper Read* with R. Dadoo—"The Impact of the Volta River Project on Life Style and Population Distribution".
6. Seminar on the *Analysis and Utilization of Development Demographic Data for the National Planning Policy Formulation and Plan Implementation*, Regional Institute for Population Studies, Legon, April, 1976. *Paper Read*: "Regional Development and Socio-Economic Development in Ghana."

Nabila, Dr. J. S.:

1. *Seminar on Implications of Development on Population*, Institute of African Studies, University of Sierra Leone and Population Dynamics Programme, Legon, Fourah Bay College, Freetown, July 7-10, 1975. *Papcr Read*: "The Role of Education in the Process and Patterns of the Migration of the Frafra of Northern Ghana".

2. Seminar on *Population in Development Planning* organised by RIPS at the University of Ghana, April 1976. *Paper Read*: "Migration and Development Planning in Ghana."
3. Seminar on *Population Growth and Development Planning* organised by University of Liberia. P. D. P. of Legon and I.P.P.F., University of Liberia, Monrovia. August 13-21, 1976. *Paper Read*: "The Impact of Mining on Population Re-distribution in Ghana"

#### Visitors

1. Dr. E. M. Bridges, M.Sc., Ph.D., Senior Lecturer, University College of Swansea, Wales, United Kingdom, visited the University as guest of the Department from 5th December to 9th December, 1975 after attending an international conference on Savanna Soils in Africa in Ghana. Dr. Bridges gave two lectures on Geomorphology and Soils to our B.A. Part II students. He had a brief visit to a section of the coast between Accra and Tema.
2. Dr. Jack D. Johnson, Director, Office of Arid Lands Studies and Natural Resources Programme, University of Arizona, U.S.A., visited the Department in February 1976. He was in the country to finalise arrangements for the *West Africa Conference* which the University of Arizona and the Council for Scientific and Industrial Research of Ghana (CSIR) were organising at TUSCON, Arizona from April 11-15, 1976.
3. Dr. G. Benneh, Acting Head of Department, met the UNFPA, SIDA Mission during their visit to the University in February 1976. He briefed the Mission on the population programme of the Department and research being undertaken by staff in the field of population.

#### Benefactions

1. The Ministry of Economic Planning made a cash grant of C5,000.00 to the Department to help the Department organise a national seminar on Urbanization and Rural Development in Ghana at Legon from the 11th-17th July, 1976.
2. The Pioneer Tobacco Company gave the Department

financial assistance of ₵1,125.00 to help the Department meet the cost of publishing a Departmental Newsletter.

3. Dr. Adjei Barwuah, Executive Director of the Tourist Control Board presented a number of books, journals and pamphlets to the Department's Library on 11th February 1976. The gifts were received by Dr. Jones Ofori-Atta, Dean of the Faculty of Social Studies, on behalf of the Department.

### **Extension**

As a result of the Memorandum of Understanding between the University of Ghana (Department of Geography) and the Ghana National Family Planning Programme Secretariat, Dr. J. S. Nabila, Lecturer in the Department, provides consultancy direct labour of 40% of his time as the Head of Evaluation and Research Unit of the Ghana National Family Planning Programme. The Evaluation and Research Unit is responsible for collecting, tabulating, interpreting and reporting promptly at regular intervals, service statistics generated by the Programme.

Drs. G. T. Agyepong, R. B. Bening and G. Benneh have been preparing manuscript maps for the Ghana National Atlas Project.

## **DEPARTMENT OF HISTORY**

### **Staff**

Professor A. A. Boahen spent the session on Sabbatical Leave. During the Michaelmas Term he was at the Centre of West African Studies, University of Birmingham as Cadbury Visiting Research Fellow, while the remainder of the session was spent as Visiting Professor at the University of California, Los Angeles.

Professor J. O. Hunwick assumed headship of the Department on 1st October, 1975 for a three-year term of office.

Professor Douglas Glasgow of the University of California, Los Angeles spent the session as Honorary Visiting Professor in the Department.

### **Students**

The total undergraduate enrolment in the Department for the

session was 249, made up as follows:

F.U.E.	..	..	..	..	..	155
B.A. Part I	..	..	..	..	..	60
B.A. Part II	..	..	..	..	..	26
Special Admission	..	..	..	..	..	8

All students majoring in History were successful at the June 1976 examinations.

The 1st year M.A. class consisted of four students while three others were engaged in writing their theses.

### **Courses**

A new Special Paper for the Part II course, "The Ghana Civil Service, 1951-1960" was devised and taught by Professor M. Priestly Bax. An M.A. paper, "Methodology of Oral Tradition" was introduced and taught for the first time by Dr. R. H. K. Darkwah.

### **Research**

In October 1975, the Department of History launched a major project of research and writing on the History of Ghana. The eventual aim is to produce an authoritative History of Ghana from earliest times to the present day. The early stages of the project will be concerned with furthering research into Ghanaian history by the collection of oral tradition and the exploitation of written records. The department will serve as the physical locus of the project and a room is being set aside for the conservation of source materials and the establishment of a reference collection. The general direction of the project is in the hands of a departmental committee chaired by Mr. Isaac Tufuoh.

During the 1975-76 session several activities were undertaken. Mr. E. A. Soyir-Yariga, a History graduate doing National Service was employed as a Research Assistant, collecting, transcribing and translating oral traditions from the eastern area of the Upper Region. A start was made in the establishment of a card-index bibliography of Ghanaian history under the direction of Dr. A. A. Illiasu. A Seminar on Ghanaian Historiography and Historical Research was held, 20th-22nd May at which fifteen papers were presented by members of the

History Department and other departments and institutes of the University of Ghana and members of the Department of History, University of Cape Coast. The Proceedings of the Seminar are to be published during the 1976-77 session.

### Publications

HUNWICK, PROFESSOR J. O.

1. *Islam and Africa: friend or foe?* Inaugural lecture published by Ghana Universities Press 1976.
2. "The Study of Muslim Africa: retrospect and prospect" in C. Fyfe (ed.), *African Studies since 1945: a tribute to Basil Davidson*, Longman, London, 1976, pp. 136-155.

BAX, PROFESSOR MARGARET PRIESTLY

1. *Ghana's Financial Bureaucracy: a historical approach*. Open Lecture published by Ghana Universities Press, 1976.
2. "Nana Ofori Atta I and public affairs in Ghana, 1916-43", *Legon Journal of the Humanities*, ii (1976), pp. 1-14.

VAN DANTZIG, DR. A.

1. "The Ankobra Gold Interest", *Transactions of the Historical Society of Ghana*, xiv, 2 (1973), pp. 169-186.
2. "Effects of the Atlantic Slave Trade on some West African societies", *Revue Francaise d'Histoire d'Outre-Mer*, lxii (1975), pp. 252-269.
3. "English Bosman and Dutch Bosman: a comparison of texts", *History in Africa*, ii (1975), pp. 185-216.

ILLIASU, DR. A. A.

"The establishment of British Administration in Mamprugu 1896-1930". *Transactions of the Historical Society of Ghana*, xv, 2 (1974). Articles on Tohugu, Atabia, Muhammed Zangina, Amaria, Sitobu and Sulemani Ndewura Jakpa for the biographical Volume of the *Encyclopaedia Africana*, 1976.

### Conferences and Seminars

The Department organised a three-day Seminar on Ghanaian Historiography and Historical Research, 20-22 May 1976 (see above). The following papers were presented by members of the department:

DR. A. VAN DANTZIG:

- "South-Western Ghana and the Akan-speaking areas of the Ivory Coast"
- DR. A. A. ILLIASU and MR. R. G. THOMAS:  
"Northern Ghana"
- PROFESSOR M. BAX:  
"Colonial Policy and Administration".
- PROFESSOR J. O. HUNWICK:  
"The Islamic Theme in Ghanaian History".  
The usual series of fortnightly Staff and Post-graduate seminars was held during the session. The following papers were delivered:
- DR. R. B. BENING (Dept. of Geography):  
"The Ghana-Togo border 1880-1957".
- DR. C. N. WADIA:  
"Sinhas: the only non-white hereditary peerage in England".
- MR. R. ADDO-FENING:  
"The Emancipation of slaves and pawns: impact on Akim Abuakwa".
- MR. R. S. N. BAX, (Controller & Accountant-General's Office Accra):  
"Local Administration in Northern Ghana 1951-1955".
- DR. A. A. ILLIASU:  
"The 'Separation Movements' of the Frafra and Kusasi districts 1954-1960"
- MR. I. TUFUOH:  
"The Basel and Wesleyan Missions and domestic slavery in the British Protectorate of the Gold Coast"
- DR. J. K. FYNN (Institute of African Studies):  
"Nananom Pow of the Fante: myth and reality".
- DR. J. K. FYNN (Institute of African Studies):  
"The stateless people of north-western Ghana: a tentative reassessment of the case of the Dagarba of Nandom".
- PROFESSOR M. O. BESHIR (University of Khartoum):  
"Southern Sudan's relations with the North: a personal view".
- DR. R. LAW (University of Stirling):  
"The Horse in West African History"  
Professor Hunwick and Mr. Addo-Fening attended the 2nd Conference of the Association of African Historians in Yaounde

Cameroon, 14–20 December 1975. Professor Hunwick attended the 2nd Colloquium of the SCOA Foundation for the promotion of African historical research in Bamako, 15–21 February, 1976. Dr. Wadia presented a paper entitled “Bose and Ghandi: personalities in conflict” to the 2nd International Netaji Seminar in Calcutta in January 1976, though he was unable to be there to read it in person. The Annual Conference of the Historical Society of Ghana, held at Cape Coast in April 1976 was attended by Professor J. O. Hunwick, Dr. R. H. K. Darkwah, Dr. A. Van Dantzig, Mr. R. G. Thomas, Dr. A. A. Illiasu, who read a paper on “The Northern Territories Council 1946–1957” and Mr. R. Addo-Fening who read a paper on “The Ofori Atta regime—the first eight years 1912–1920”. Mr. R. G. S. Sprigge participated in the annual 2-day meeting of the Linguistic Circle of Accra July 2–3, 1976.

### **Visitors**

The Department was visited by the following scholars: Professor M. O. Beshir of the Institute of African Studies, University of Khartoum, Professor Michael Crowder, of the Centre for Cultural Studies, University of Lagos who addressed staff members on the present state of history teaching and research in Nigeria, Dr. R. Law of the Department of History, University of Stirling, Professor P. Gutkind, Chairman, Department of Anthropology, McGill University, Montreal and M. Nicoue Gayibor of the Department of History, University du Benin, Togo who both participated in the Seminar on Ghanaian Historiography and Historical Research, Dr. Martin Kanike of the Department of History, University of Dar-es-Salaam and Dr. Abdoulaye Bathily of the Department of History, Université de Dakar.

### **Other Activities**

Professor Hunwick undertook a consultant mission for the UNESCO in February 1976 to report on state of development of the Ahmad Baba Centre of Documentation and Research in Timbuktu and to advise on its development. The mission also took him to Niamey and Dakar to discuss regional co-operation in the collection and preservation of historical manuscripts.

## DEPARTMENT OF LIBRARY AND ARCHIVAL STUDIES

### Staff

With the appointment in October 1975 of two UNESCO experts (Mr. M. G. Cook and Miss D. G. Keswani) and a Senior Lecturer (Mr. J. M. Akita) in archival studies, the overall staff position improved considerably. In addition, and under the sponsorship of the Inter-University Council, Visiting Professor A. F. Johnson was seconded from Birmingham, to take up the academic as well as practical training functions of Mrs. C. O. Kisiedu who left in August 1975 to spend a year's study leave at the University of Sheffield, England, having obtained a British Council scholarship. She also won the highly competitive Nancy Stirling Lambert fellowship tenable at the University of Wales, Aberystwyth.

Mr. F. K. Nyarko also secured a UNESCO Fellowship for higher professional studies at the University of Loughborough, leading to a Masters degree. Mr. Nyarko won the "Sisson and Parker Prize Award" for exceptional performance in the June 1976 examinations.

But in spite of the above gains the Department continued to invite part-time lecturers from within the University and the profession to teach particular courses.

Mr. J. M. Akita who retired as Chief Archivist of the Ghana National Archives in March 1976 took appointment in April as National Counterpart—Director of the Regional Training Centre for Archivists which is affiliated to the Department in a permanent relationship.

### Students

Students recruitment was as follows:

Graduate diploma in library studies .. ..	6
Certificate in librarianship .. ..	18
Graduate diploma in archival studies .. ..	11
Certificate in archives administration .. ..	8

In its first year of operation therefore the Regional Training Centre for Archivists (RTCA) contributed 19 students drawn from 8 African countries including Ghana. All the graduate students earned UNESCO fellowships and were sponsored by

National Archives as well as Universities and Museums. It is expected that private institutions will, in the following years, sponsor students to take courses in both library and archival studies.

### **Courses**

Revised graduate diploma syllabuses were approved by the Academic Board. But in view of certain practical difficulties, the syllabus which provided for joint library and archive courses could not be offered as the Department was not fully staffed in the required subjects. Despite this, archival studies had a very successful first year.

Under the new Regulations, graduate students should undertake a task in some practical operation during the months of July–September and submit a report of completed work, assessable as Part II of the examination. The proposals of all graduate diploma students were approved and were required to be submitted by 15th September 1976.

As in previous years the following Occasional Lectures were delivered by visitors:

1. Miss E. Asafu-Adjaye (Law Librarian, University of Ghana, Legon). *Topic*: The Ghana Law of Intellectual Property: Copyright and Libraries.
2. Professor Ralph E. Kliesch (School of Journalism and Communication Studies, Legon). *Topic*: Introduction to communication theory, with a slant to librarianship.
3. Professor Margaret Bax (under the name Margaret Priestly is the author of *West African Trade and Coast Society: a study*). *Topic*: Public financial administration in Ghana and its historical sources.
4. Mr. Colin Ray (Chairman of the Section on work with Children: International Federation of Library Association—IFLA). *Topic*: Current Developments in British Public Library Systems.
5. Professor W. B. Ashworth (of the Polytechnic of Central London). *Topic*: Current Developments in the techniques and administration of information systems.

### **Publications**

The first number of *The Legon Librarian-Archivist* written

and published entirely by students of the Department was cyclostyled for distribution to past and present students in June 1976. Two articles by members of staff were included; in addition three others prepared the following manuscripts for publication:

Mr. M. G. Cook's *Archives Administration* will be published by W. Dawson and Sons Ltd., Folkestone.

Mrs. C. O. Kisiedu's *Manual for Cataloguers in the Balme Library*, and

S. I. A. Kotei, with Martin Galvin's *Library Resources for Adult Students in Ghana*, have been issued in the Department's *Occasional Paper Series* as Numbers 13 and 14 respectively.

Late in 1975, the Department was approached by the General Editor of *Grafton Basic Text Series* of Britain, to prepare a "Manual for Library and Archives Assistants" with special reference to developing countries, and emphasis on tropical requirements. An outline for volume 1 has been submitted and chapters are being prepared in collaboration with Mr. John Davies of the Malaysia National Archives.

### Conferences

The first meeting of the Regional Advisory Council of the RTCA was held at the University in 1976. The Council was launched with short introductory remarks by the Resident Representative (Dr. Gregorio Feliciano) in Ghana of the UNDP and the Pro-Vice-Chancellor, Professor Laing. The meeting was presided over by the Commissioner for Supreme Military Council Affairs, Mr. E. H. Buckman. Also present were nine Government representatives from the following African countries: Botswana, Cameroun, Gambia, Kenya, Lesotho, Malawi, Nigeria, Sierra Leone and Tanzania, being countries who had so far endorsed the project.

In the previous month, i.e. from 20th to 24th inclusive, the Department convened a Seminar on the *Writing and Production of Literature for Children*. The Ghana Publishing Corporation, Ghana Library Board and the Ghana National Book Development Council offered administrative and professional support. The Seminar was financed by a UNESCO grant

of \$2,875.00 to cover secretarial and stationery expenses as well as lecturers' fees.

The board and lodging expenses together with transport for resident participants was paid from a generous subvention of ₵4,000.00 from the Authorship Development Fund of the Ministry of Education. The cost of refreshment was borne by the Arts Council of Ghana which provided a total amount of ₵1,000.00.

Altogether about 150 teachers, writers, publishers, printers and librarians attended and papers were read by Mr. Amu Djoleto, Dr. Jawa Apronti, Mr. Kofi Sey, Professor de Graft Hanson, Mrs. Efua Sutherland, Rev. Professor Ansre, Mr. E. Y. Egblewogbe, Dr. C. H. Ayisi, Mr. J. Adu, Dr. D. A. Nimako, Mr. Addo Osafo, Mr. K. B. Arkoful, Mr. A. F. Menka, Dr. M. Assimeng, Miss. J. Sackey and others, but mostly University of Ghana lecturers.

An international selection of the best produced children's literature was received from no less than 40 publishers and put on display throughout the Seminar. The entire proceedings will be published in 1977.

The Acting Head of Department, Mr. S. I. A. Kotei was invited to a Seminar on Education and Training organised by the International Federation for Documentation (FID) in Mexico City, late in September 1976. He also attended the 38th Congress of FID at the same venue.

### Visitors

The RTCA had visits from two short-term specialists to deliver 3-4 week courses in particular subjects taught at the centre. They were:

Mr. John Davies, Head of Conservation in the National Archives, Malaysia, who lectured on Documentary Repair and Restoration and advised on the design of a teaching laboratory;

Mr. A. H. Leisinger, Jr., Chairman of the Microfilming Committee of the International Council on Archives, gave lectures on archival reprographics and advised on the establishment of a reprographics laboratory.

Other distinguished visitors were: Mr. Morris Rieger, Deputy Executive Secretary of the International Council on Archives,

who delivered a lecture on "Trends of Archival Management in the United States." As already reported, Visiting Professor (Mrs.) M. Bax was invited from the Department of History to lecture on "Public Financial Administration in Ghana and its Historical Sources", and Miss Joan Coburn, Deputy Archivist, Greater London Archives spoke on archival activities in London. The following persons also paid visits in transit:

Magnus John, Open University Library, Walton Hall, Milton Keynes, England.

Linda M. White, College of Agriculture, Centre for Quantitative Studies, University of Arizona, U.S.A.

Mrs. Chen, Chinese Embassy, Accra.

Mr. P. A. Kobelo, IDM, Mzumbe, Morogoro, Tanzania.

Ruby O. Robinson (Mrs.), Regional Library Consultant U.S.I.S., Lagos, Nigeria.

Mr. P. Bache, Director, U.S.I.S., Accra.

Mr. G. K. French, Cultural Officer, U.S.I.S., Accra.

### **Benefactions**

As part of the initial launching of RTCA, UNESCO presented to the departmental library a collection of books on archives administration and allied topics.

The United States Information Service in Ghana also made a generous donation of books and pamphlets on information science, requested by the Department to support courses in information studies and documentation to be mounted from the 1976-77 academic year onwards. A similar subject range of books is expected from the Inter-University Council. The Department wishes to express its obligation to all present and future benefactors.

### **Extension Activities**

The Acting Head of Department continued to serve as an executive member of the Ghana National Book Development Council, the National Commission for UNESCO, and the Ghana Library Board. He was also chairman of the Adhoc Committee for the joint CSIR and the National Academy of Sciences of the United States, meeting on a National Information System for Ghana.

Mr. J. M. Akita retained his executive membership of the International Council on Archives.

Mr. M. G. Cook also serves on the following bodies: Society of Archivists (Member, Member of Council 1970-5) British Records Association, Society of American Archivists, International Council on Archives, Business Archives Council (member of executive 1971-75).

## DEPARTMENT OF NURSING

### Staff

The Department has been unable to fill its vacant position for a lecturer in psychiatric nursing.

### Students

The student enrolment for the different courses in the Department for the 1975-76 session was as follows:

First-Year Diploma in Nursing Education .. ..	23
Second-Year Diploma in Nursing Education .. ..	18
First-Year Diploma in Nursing Service Administration	5
Second-Year Diploma in Nursing Service Administration .. .. .	2
Management Course in Nursing (Michaelmas & Lent Terms) .. .. .	35

### Courses

There have been no major changes in course structure except the following areas:

- (a) For the fulfillment of the requirements of the Advanced Nursing Course, in the 2nd year, students were expected to prepare a research design on a researchable problem, but the research was not expected to be carried out. For the first time, this year, with students working in groups of 4-5, data were collected and analysed for the research projects.
- (b) The first set of students have completed the Family Planning Integration Programme commenced in 1974. A four-week practical course was organised for them at the end of the session.
- (c) The Programmes for the B.A. and B.Sc. Nursing Degree

course have been accepted by the Faculties of Social Studies and Science, subject to a few modifications.

### **Research Projects**

#### *Departmental Demonstration Ward Project*

1. The Project was commenced in March 1973. Phase III, the implementation stage, was commenced in May 1975 and continues in progress despite difficulties. The main difficulties have been in the staffing of the ward. Nursing care Planning has now been extended to all patients on the ward and not just for patients on one side of it only. Record keeping materials are currently under review. Data are being collected on patient and staff satisfaction with nursing care on the ward. The Ministry of Health donated ₵5,000.00 for the project this year.
2. The study to identify the size of Secondary School Students who would be interested in reading a degree in Nursing at the University, commenced in November, 1972, is at the reporting stage.
3. A survey of the size of the nursing population who are interested and qualify academically to read a degree in Nursing is in progress.

#### **Miss Akiwumi:**

- (a) The Correlative Study between performance in the entrance examination for entry into the Diploma Programme of the Department and ability to successfully complete the Programme is at reporting stage. It was started in 1974.
- (b) The effects of transfers away from husbands on the family life of Nurses is in progress.
- (c) Survey of staffing Patterns of selected hospitals in Ghana is at data collection stage.
- (d) Evaluation of the comprehensive Nursing Programme in Collaboration with others for the Nurses and Midwives Council.

#### **Dr. Kisseih:**

A History of Professional Nursing in Ghana. Data being collected.

## Publications

MISS A. AKIWUMI

"A Nurse Called Florence", *Ghanaian Nurse*, Vol. 8, No. 2, pp. 13-16.

MR. S. K. DOKU

1. "Communication—A Therapeutic Tool", *Ghanaian Nurse*, Vol. 8, No. 2, pp. 19-20.

2. "The Nurse and the Community", *The Mirror* January 4, 1976.

3. "Present Ambulance Services should be Improved", *Ghanaian Times*, April 5, 1976.

4. "Tribute to Pioneer Nurse Education", *Ghanaian Times*, May 17, 1976.

Self-Instructional Materials were produced on various subjects by members of the Department and published by the African Health Training Institutions Projects of North Carolina, 1976. These are:

MISS AKIWUMI

*Bleeding in Early Pregnancy.*

MRS. AKITA

*Introduction to Kwashiorkor. Its Nature, Causation and Manifestations.*

MR. OSEI-BOATENG

*Fertilization and Development of the Ovum Up to the 28th Day.*

MISS ADDISON

*Pertussis (Whooping Cough) Etiology, Treatment Nursing Care and Prevention.*

Miss Abadoo

*The Physiology of First Stage of Normal Labour.*

## Conferences and Workshops

1. A Colloquium was organised by the Department in connection with its proposed degree programme in January 1976. The Colloquium brought together all persons who will be expected to have anything to do with the programme including Government agencies, such as Ministry of Health, Establishment Secretariat, Scholarship Secretariat, Public Services Commission, Manpower Board, University lecturers, Medical School, Nurses and Midwives Council

and the Nurses Association. There were 21 participants and 14 observers. Members of staff participated on the various panels for discussion, viz:

Miss Akiwumi:

Planning the Nursing Degree Programme in Compliance with the University Degree Structure while at the same time meeting the Professional Nursing Requirement.

Mrs. Osei-Boateng:

How Candidates with 'A' Level Passes could make up the Deficiency.

Miss Abadoo:

When to write the Professional Nursing Examination and the Status of the student after the Third Year.

Mrs. Akita:

The Place and Status of the Degree Graduate Nurse in the Health Care Delivery System and in the Nursing Hierarchy.

Dr. Kisseih:

Other Possible Job Opportunities for the Degree Graduate Nurse.

2. In collaboration with the Nurses and Midwives Council a Workshop was organised for the Examiners of the Nurses and Midwives Council in April, 1976 on "Evaluation". There were 25 participants. A number of papers were read by members of the Department. These are:

Miss Akiwumi:

Trends in Nursing.

Evaluation—Recapitulated of preceding courses on Evaluation.

Miss Addison:

Problems Solving Method.

Comprehensive Patient Care.

Miss Abadoo:

Epidemiological Approach.

Mrs. Akita:

Family Centred approach in Community Nursing Care, including continuity of care.

3. Seminar for Senior Doctors in the Ministry of Health in Ghana on Administration and Management. Dr. Kisseih

read a paper entitled Nursing Problems in the Management of Health Services.

#### **Visitors**

1. Donald W. Helbig, Downstate Medical Center, Brooklyn, N.Y.
2. Clemic Jean Smith, W.H.O., P.O. Box 9292, Dar-es-Salaam Tanzania.
3. Francis Samuel Koku, Prices & Incomes Board, State House.
4. Clifford Anthony Agbenaza.
5. E. O. Adebo, Department of Nursing, University of Ibadan, Nigeria.
6. H. R. Dyfan, Chief Nursing Officer, Sierra Leone.
7. Annie H. Lusack, Matron, The Gambia.
8. Mary Owusu, Chief Nursing Officer, Ministry of Health, Accra.
9. Emelia Banson, Reg. Public Health Nurse, Accra.

#### **Benefactions**

1. The Department received the sum of ₵40,000.00 from the Ministry of Health towards the building of a permanent block for the Department. This brings to ₵90,000.00 the total amount of money voted by the Ministry.
2. It also received the sum of ₵10,210.00 from the National Family Planning Programme towards the Programme to integrate Family Planning into the courses offered by the Department.
3. A sum of ₵5,000.00 has been voted by the Ministry of Health towards the Demonstration Ward Project.

#### **Extension and Other Activities**

##### **Miss Akiwumi:**

- Continued to serve as Editor in Chief of *Ghanaian Nurse*.
- Chairman of Committee Evaluating the Comprehensive Nursing Programme for the Nurses and Midwives Council.
- Member of the Professional Services Committee of the International Council of Nurses.
- Member of the Building Committee of the Nurses & Midwives Council.

**Dr. Kisseih:**

Member of the Board of Directors of the ICN.  
World Health Organization's Expert Advisory Panel on Nursing.

Member of Ghana Red Cross Society's Development Plan and Disease Relief Committee.

Member of the Ghana Registered Nurses Associations Expert Advisory Panel.

Member of the National Registered Nurses Association's Building Committee.

Superintendent of the St. John Ambulance Brigade.

**Mrs. Alice Akita:**

Member of the Nurses and Midwives Council.

Member of International Union of Nutrition Science Subcommittee on Nursing Education.

**Mr. S. Doku:**

Member of Editorial Board of *Ghanaian Nurse*.

Member of Ad Hoc Committee on Nursing Practice—Ghana Registered Nurses Association.

**Miss S. Abadoo:**

Member of the Nurses and Midwives Council Examination Committee (Midwifery).

Member of Agogo Ecumenical Nurses Training College.

**Mrs. Osei-Boateng:**

Member of the International Nursing Review Participating Panel.

Member of the African Consultative Group for Nursing, Midwifery and Allied Health Professions.

## DEPARTMENT OF PSYCHOLOGY

### Staff

Dr. C. H. Ayisi, Senior Lecturer, joined the Department from Cape Coast University.

Mr. J. O'Regan, Peace Corps Volunteer, resigned his appointment on the completion of his contract.

## Students

The distribution of students for the session was as follows:

	<i>Arts</i>	<i>Science</i>
First Year .. .. .	54	25
Part I .. .. .	24	3
Part II .. .. .	3	3
M.Sc. .. .. .	—	1

## Courses

Courses continued to be offered to students in the Departments of Home Science, Nursing and Social Administration.

## Research

Dr. C. E. Fiscian continued with the study of "Some Psycho-Social Correlates of Acceptance of Sterilisation as a Means of Fertility Control" He also did preliminary work on two projects:

- (a) Some Personality correlates of Academic Achievement.
- (b) Field Dependence/Independence in Ghana.

Dr. Ayisi embarked on a Psychological study of the Akonedji Shrine at Larteh. He also started work on African Infant Precocity and Child Animism.

Mr. H. C. A. Bulley is working on a validation of University entrance and selection requirements.

## Conferences, Seminars, etc.

Dr. C. E. Fiscian attended the Second Pan-African Conference on Psychology held at the University of Nairobi from December 29th to January 2nd, 1976. The Conference Theme was: "The Contributions of Psychology to Development in Africa". He presented a paper on "Educational Selection and Placement in Ghana: Some Present Problems and Future Prospects". He also participated in a Seminar on Guidance and Counselling in Secondary Schools, sponsored jointly by the U.S.I.S., and the Careers Advice Centre, where he presented a report on Problems of Foreign Students. Dr. Ayisi participated in the following Seminars:

- (a) Seminars on Writing and Production of Literature for Children organised by the Department of Library and

Archival Studies in April. He presented a paper: "Educational Psychology of Reading".

- (b) Seminar for Playwrights—Children's Drama Development Project, organised by the Institute of African Studies, Legon, in July. He presented a paper: "Children's Aspirations".

Dr. Kwabena Adjei participated in the 10th Annual Home Science Conference on "Home Science Education", organised by the Ghana Home Science Association, in April and presented a paper on: "Developmental Tasks of An African Child"

He also presented a paper on "Our Children's Sense of Humour" at the Seminar for Playwrights.

Mr. Bulley also participated in the Seminar on Guidance and Counselling, at which he presented three papers, based on a research project: "Values in Vocational Choice Among Secondary School Students"

The Department organised the first ever joint Student/Staff Seminar with the Department of Psychology, University of Lagos, at Legon from 5th to 9th April. The following papers were presented:

1. Effect of Alcohol on Eye-Hand Co-ordination (N. Duodu—Legon).
2. Factors Affecting Intellectual Development in Children (V. Eze—Nigeria).
3. Concepts of Mental Illness in Nigeria (Oblora—Nigeria).
4. Traditional and Psychological Methods in the treatment of Enuresis (Dr. S. Danquah—Legon).
5. Programmed Instruction Vs. Conventional Classroom Teaching (E. Kuma—Legon).
6. Teaching, Theory and Application of Psychology in Developing Countries (A. Emaikwu—Lagos).

### Publications

FISCIAN, C. E. "Educational Selection and Placement in Ghana: Some Present Problems and Future Prospects". (Accepted by International Review of Applied Psychology.)

ADJEI, K., "Influence of Specific Maternal Occupation and Behaviour on Piagetian Cognitive Development" in DASEN, P. R. (Ed.) *Piagetian Psychology: Cross-Cultural Contributions*. New York: Gardner Press Inc.

AYISI, C. H., "The Psychology of Human Attention" (*Universitas*). Educational Psychology of Reading. Children's Aspirations.

### Visitors

Professor A. C. Mundy-Castle, Professor of Psychology at the University of Lagos visited the Department for two weeks in the Lent Term, and gave a series of Lectures.

### Other Activities

Mr. H. C. A. Bulley continued to serve as External Examiner in Educational Psychology at the University of Cape Coast.

Dr. Fiscian continued to serve as External Examiner in Psychology at the University of Lagos, Nigeria. He also continued to serve as Consulting Editor of the *West African Journal of Educational and Vocational Measurement*, and also as a member of The Research Committee of the Manpower Board.

## DEPARTMENT OF SOCIOLOGY

### Staff

Mr. D. N. A. Nortey was promoted Senior Lecturer with effect from 1st June, 1976.

Dr. A. F. Aryee was transferred to ISSER from 1st April 1976, but maintained teaching ties with the Department until the end of the year. He was promoted Senior Research Fellow in the Trinity Term.

### Students

Sociology continues to be a very popular subject among first year students. Over-all registration for the year was as follows:

F. U. E. . . . . .	257
B. A. Part 1 . . . . .	159
B. A. Part 11 . . . . .	48
Social Administration Part 1 . . . . .	25
Social Administration Part 11 . . . . .	23
Postgraduate Diploma in Social Administration . . . . .	1
M. A. in Sociology 1st Year . . . . .	3
M. A. in Sociology 2nd Year . . . . .	3
Ph.D. . . . . .	3

## **Research Projects**

Various research projects already underway were continued; and include the following:

**Kumekpor, T. K. and others**

The study of the Brain Drain in Ghana sponsored by the United Nations Institute for Training and Research (UNITAR) and Carnegie Corporation began in 1971 and is now in its third phase which includes a study of medical personnel.

**de Graft-Johnson, K. E. & Brefo-Boateng, J.**

*Urban Studies*: Analysis of data on the Sekondi-Takoradi Survey still continues. Over 800 tables are now nearly ready. The Family Life Study in Accra is now completed (Part of the data was used for his Ph.D. dissertation by Dr. A. F. Aryee who was in charge.)

**Fiawoo, D. K.**

1. Studies of the Young Child in Ghana found by UNICEF. This study, started in 1974, has now been completed.
2. Small-scale studies on modern Ewe social and religious life.
3. Co-ordinator of Government Project on a Socio-Economic Survey of the Abor-Akatsi area in the Lower Volta.

**Assimeng, J. M.**

1. Initiated a study of the implications of religious values and religious affinity for demographic behaviour.
2. Virtually completed a monograph on Religion in Ghana: a Sociological introduction.

**Twumasi, P. A.**

1. Background characteristics of Medical students in Ghana from 1964 to 1974.
2. Ghana Tourist Board Research. Vol. 2 report on Household.
3. Community involvement in Health Care. Kintampo Project. Longitudinal Studies 1975-78.

**Date-Bah, E.**

1. Professional Drivers in Ghana: preliminary findings.
2. Studies of the Roles played by the Ghana Employers Association and the Trade Unions in Employment promotion in Ghana.

Mends, E. H.

Ethnographic data on Fanti from Vernacular Sources.  
Ethnic and Religious Aspects of Population—Ongoing  
research under P.D.P.

### Publications

DATE-BAH, E.

1. "Informal Networks among the employees of a Ghanaian Garment Factory", *Ghana Journal of Sociology*, Vol. 9 No. 2, 1976.
2. "Supervision in a Ghanaian Factory", in the *Ghana Journal of Sociology*.
3. "The Role of Trade Unions and Employer Organisations in Employment promotion in Ghana" forthcoming, by International Labour Institute, 1976.
4. "Attitudes towards Disease & Illness in Ghana" *Conch* March 1976, by Twumasi, P. A., G. K. Nukunya & N. O. Addo.
5. "Social Aspects of Health and Illness", *Ghana Medical Journal* (Vol. 6 No. 2, 1976, forthcoming), Twumasi, P. A.
6. "The Parsonian Sick Role Formulation and Illness Behaviour in Ghana", *Ghana Journal of Social Science* (Forthcoming) 1976 (Twumasi, P. A.).
7. "Field Problems in Rural Social Research with Particular Reference to Non-Response Rate", *Research Review* No. 2 1975 (Twumasi, P. A.).
8. "Traditional African Medicine" in *African Encyclopaedia*. Oxford University Press, 1974 (Twumasi, P. A.).
9. "Health Care in Ghana", *Journal of the National Medical Association* (New York, U.S.) Vol. 67, September 1975, No. 5 (Twumasi, P. A.).
10. "Some Aspects of School Welfare in the Accra Area", *Legon Family Research Papers*, No. 4, 1975 (Asamoah, Y.).
11. "Physical Growth & The Social Environment: A West African Example" in *Biosocial Interrelations in Population Adaptations*, Watts et al. edited Monton, 1975 (D. K. Fiawoo).
12. "Child Fostering in Ghana" in proceedings, *Report of Seminar on The African Child in Great Britain*, Commonwealth Students Children Society, 1975 (D. K. Fiawoo).

13. "Some Basic Elements in the Culture of Ghana". Forthcoming *Universitas*, 1976 (Mends, E. H.).
14. "Patterns of Aggressive Behaviour in Ghanaian Children"—Proceedings on *SEMINAR FOR PLAYWRIGHTS' CHILDRENS' DRAMA-DEVELOPMENT PROJECT*, 3RD-9TH JULY, 1976 (D. N. A. Nortey).
15. "New Dimensions of Crime"—Proceedings of Ghana Sociological Association 10th Annual Conference, April 2-5, 1976. (D. N. A. Nortey).
16. "Social Work—Social Change"—Advanced by Department of Social Welfare and Community Development, 1976 (D. N. A. Nortey).

### Conferences

Sub-Regional Seminar on Family Welfare as a Component of Development organised by the Department of Sociology, International Association of Schools of Social Work and International Planned Parenthood Federation. From 4th to 8th February, 1976.

Annual Conference/Ghana Sociological Association Conference organised by the Association in collaboration with the Department of Sociology, on the theme: "The Role of Sociology in National Development and Planning". From 2nd to 5th April, 1976.

### Visitors

Professor Peter C. W. Gutkind, McGill University, Montreal, Canada.

### Extension and other Activities

As in previous years, members of Department have served on Government boards and delegations. Members have also participated in researches initiated and supported by Ministries and Government departments. The latest of these researches is "Funeral Customs in Ghana" requested and partly funded by the Law Reform Commission.

## DEPARTMENT OF POLITICAL SCIENCE

### Staff

Professor Kweku G. Folson returned to the Department as

the substantive head in January, 1976. Drs. J. A. Peasah, S. K. B. Asante and Yaw Saffu were promoted Senior Lecturers.

### **Students**

During this academic year, the Department took on 308 students for the F.U.E., 163 for B.A. Part I, 51 for B.A. Part II 47 for Diploma/Certificate and 6 for other courses. One candidate enrolled for the M.A. written examination and three others, who had already taken their written exams, were engaged on their theses.

### **Courses**

No changes were made in syllabuses for courses in Political Science. Syllabuses under the new degree structure as approved by the Academic Board remain in force. Committee on revision of syllabuses however continued to work.

Lecturers in the Department have continued to offer their services to the Institute of Adult Education, External Degree Centre and University of Science and Technology in various Political Science courses.

### **Research**

The Departmental Research Project on Local Government started in July 1972, but the progress of which was slowed down for sometime, was revived on the return of Professor Folsom to the Department. It is expected that the final report on the Project will be ready by the close of next academic year.

A three-day workshop on the implementation of the new local government decree was held from September 23 to 26, 1976, as part of the Project.

### **Publication**

**PROFESSOR KWEKU G. FOLSON** "The Marxist Period in the Development of Socialist Ideology in Ghana". (Forthcoming) *The Universitas*.

**DR. YAW MANU.**

Review: "The Administration of Ghana's Foreign Relations, 1957-65" by M. Dei-Anang. (Forthcoming) *The Transactions of the Historical Society of Ghana*.

**DR. J. A. PEASAH**

1. "Politics in Abuakwa" in Dennis Austin & Robin Luckham (eds.) *Politicians and Soldiers in Ghana, Frank Case*, London, 1975.
2. Review, John Dunn & A. F. Robertson, "Dependence and Opportunity: Political Change in Ahafo, 1973" in *Ch'Indaba* 2.

**DR S. K. B. ASANTE**

1. *Pan-African Protest: West Africa and the Italo-Ethiopian Crisis 1934-41*. (In the Press) Longman Group Ltd., England (for the Legon Historical Series).
2. "The Politics of Confrontation and Indifference: The U.S. Relations with Africa" (Forthcoming) *The Universitas* Vol. 6, No. 1, 1976.
3. "Africa and the Middle East Crisis". (Forthcoming) *Social Science Journal*, Vol. 3, No. 2.
4. "Pan-Africanism Revisited: A Review of the Pan-African Movement" by Immanuel Geiss. (Forthcoming). *Ch'Indaba*, No. 50, October 1976/March 1977.
5. "I.T.A. Wallace Johnson and the Italo-Ethiopian Crisis" *Journal of the Historical Society of Nigeria*, Vol. 7, No. 4, 1976.

**DR. AFARI GYAN**, *Political Ideas of Kwame Nkrumah*, African Heritage Studies, 507, Fifth Avenue, New York, N.Y. 10017, U.S.A. 1976.

**Conferences**

Drs. Yaw Manu and J. A. Peasah attended an international symposium on the 6th October Middle East War held in Cairo, Egypt, from the 27th to the 31st of October, 1975.

Dr. Emmanuel Hansen and Dr. Afari Gyan attended the Association of African Political Scientists Biennial Conference in Lagos, Nigeria, April 4-9, 1976. Dr. Hansen read a paper entitled "Freedom and Revolution in the Thought of Frantz Fanon" and Dr. Afari Gyan read a paper entitled "Political Ideas of Kwame Nkrumah".

**Visitors**

Dr. James McCain from the State University of New York at Brockport was in the Department during the Michaelmas

term on an Exchange Programme between his University and ours. While in the Department he helped with the teaching of students taking B.A. Parts I and II courses.

#### **Benefactors**

A number of books essential for teaching comparative government were donated by the United States Information Services.

#### **Extension and Other Activities**

Professor Kweku G. Folson and Dr. Yaw Manu acted as External Examiners to the Departments of Political Science respectively at Ahmadu Bello University, Kaduna and University of Lagos. Dr. S. K. B. Asante spent the first term of the academic year at the State University of New York at Brockport, U.S.A. as this University's Professor in exchange for Dr. James McCain.

### **[INSTITUTES AND SCHOOLS]**

#### **MEDICAL SCHOOL**

#### **DEPARTMENT OF ANAESTHETICS**

#### **Courses**

On 1st June, 1976 Professor K. A. Oduro went to the U.K. at the invitation of the Inter-University Council (1) as Visiting Professor to the University of Sheffield and (2) to deliver a series of lectures.

Dr. Y. Adu-Gyamfi, lecturer in the Department went to China for a 3-month course in Acupuncture. The benefits of this ancient and yet little understood practice are yet to be assessed in Ghana.

#### **Visitors to the Department**

During the academic year Professor V. W. Fowler, Head of the Department of Anaesthesia, University of Lagos, Professor S. A. Oduntan, Head of the Department of Anaesthesia, University of Ibadan visited the Department. During the 3-day visit, long meetings were held to lay down proposals for the formation of the Faculty of Anaesthetists within the West African College of Surgeons.

### **Publications**

K. A. ODURO "Refrigeration Analgesia for Amputation" (1976),  
*West African Journal of Surgery* Vol. 1, No. 1.

### **Benefactions**

Dr. S. Amoa-Ampah, Senior Medical Officer in Anaesthesia, presented the Department with a number of epidural and spinal needles and ampoules of Bupivacaine. As these were almost out of stock the gifts were most welcome.

## DEPARTMENT OF ANATOMY

### **Staff**

Two Surgeons were appointed joint-Lecturers in the Departments of Anatomy and Surgery. They are:

Dr. B. A. Kuma, F.R.C.S. and

Dr. J. B. Quartey-Papafio, M.D., F.R.C.S.

Dr. A. S. Ayertey was sent to the University of Cambridge to pursue a post-graduate course leading to the degree of Ph.D.

### **Students**

The intake of medical students increased from 55 to 65. In addition, 10 dental students were also admitted.

### **Courses**

For the first time since the beginning of the School, a course in Oral Biology for dental students was taught.

### **Publications**

Engmann, Nii-Lomote, Otuteyc, E. T. and Kplomede, S. K.  
(1976) "Phenotypic girls with unusual chromosome complements". (In Press) September, 1976.

### **External Examinations**

Dr. F. R. L. Engmann was external examiner to the University of Ibadan, Nigeria, in March 1976.

Ahmadu Bello University, Zaria, Nigeria, in June 1976.

### **Visitors**

Dr. H. W. Noble, visiting lecturer from the Dental School, University of Glasgow, stayed for 3 months to run the course in Oral Biology for the dental students.

## DEPARTMENT OF CHEMICAL PATHOLOGY

### Staff

Dr. Asimeh has recently been appointed lecturer in the department and we hope that he will join us soon.

Mr. Donkor, Principal Research Assistant, left for Japan earlier this month for a six months training under the Ghana/Japan research collaboration programme.

Miss Vida Ofei has also been appointed laboratory technologist and she is expected in the department at the end of this month.

### Students

One student had distinction in Pathology which includes Chemical Pathology.

### Research

1. Protein and amino acid patterns in normal and malnourished children in Ghana (nearly completed).
2. Biochemical changes in Onchocerciasis (nearly completed).
3. Quantitative determination of metals, e.g. K, Na, Ca, Mg, Fe in blood, and cerebrospinal fluid in children suffering from Meningitis (nearly completed).
4. Balance studies in metabolic bone disease.

### Publications

"Beer—The National Drink". *Ghana Medical Journal* (in press).

FENUKU R. I. A. AND FOLI A. K. 'Serum Alkaline phosphatase activity during pregnancy and postpartum period in Ghanaian women'. (1975) *Trop. geogr. Med.* **27** 371-374.

### Visitors

Four Japanese Professors from Fukushima Medical School visited the department in June.

Two WHO representatives spent four days in the department in April discussing the detailed programme for the WHO course on Quality Control which the department is hosting.

## **Benefactors**

The Valco Fund donated a Computerised Gas Analyzer to the Department. Two other items of equipment ordered for the department by the Valco Fund are expected to arrive soon. We also received various items of equipment and spare parts, including a Gas Chromatograph and Refrigerated Centrifuge from the Japanese Government under the Ghana/Japan Research collaboration programme.

Dr. G. R. E. Swaniker was reappointed to the Management Board of the Food Research Institute (C.S.I.R.).

Dr. Swaniker was Moderator and External Examiner in Biochemistry of the University of Science and Technology, Kumasi. He also acted as External Examiner in Chemical Pathology for the Nigerian A.I.M.L.T. examination for Laboratory Technologists.

## **DEPARTMENT OF CHILD HEALTH**

### **Staff**

Dr. A. L. Rudwick, Registrar, resigned her appointment at the end of May, 1976.

Dr. F. K. Nkrumah went to the National Cancer Institute in Bethesda, U.S.A. on a year's Sabbatical leave.

### **Students**

There were two streams of students in the Department from January to July 1976. The Senior students in their 5th year were doing the advanced course in Paediatrics leading to the Final Examination in June 1976. The second stream of junior students rotated in three successive groups through the Department, each group spending eight weeks.

*The Nestle Paediatrics Prize* for 1975 was awarded to Mr. Yosef Kwaku Kwamie as being the best student in Paediatrics.

*The Nortei Ababio Prize* for 1975 was awarded to Mr. Abednego Ofori Addo.

### **Conferences**

Dr. J. M. Blankson attended the 8th International Teaching Seminar on Cardiovascular Epidemiology in Mexico and read a paper on "Arterial Blood Pressure ranges in African Children".

## Courses

Dr. S. H. Annobil and Dr. C. A. Reindorf attended a two-week course on Teaching Methodology and Family Health Programme organised by the University of North Carolina in conjunction with the University of Ghana Medical School in Accra.

## Publications

### C. A. REINDORF

1. "Incidence of Bacteraemia 1970-73—Studies in Premature Babies Unit of Korle Bu Teaching Hospital." *Ghana Medical Journal Vol. 14 No. 2.*
2. "Range of Haematocrits", *Ghana Medical Journal Vol. 14 No. 4.*

### A. G. BOOHENE

1. "The Pattern of Childhood Diseases as seen in a Teaching Hospital in Ghana". *Documenta Geigy*. "Medicine in the Tropics" March 1976 pp. 2-3.
2. "Recent Negotiations on Salary Scales and Allowances for Medical Officers and Dental Surgeons in the Civil Service", *Ghana Medical Journal* 1975, **14**, 150-153.

J. M. BLANKSON AND E. C. CHRISTIAN: "Congenital Heart Disease in Ghana" *Tropical Cardiology* (1975) Vol. 1 5-9.

S. H. ANNOBIL: "Pulmonary Changes following Turpentine Poisoning" Accepted for publication by *Ghana Medical Journal*.

## Visitors

Professor J. O. Forfar, Professor of Paediatrics in the University of Edinburgh paid a visit to Ghana under the auspices of the British Council and delivered a lecture on "Congenital Malformations" to the 4th Year Medical Students.

## DEPARTMENT OF COMMUNITY HEALTH

### Staff

In the academic year 1975-76 there have been one promotion from Senior Lecturer to Associate Professor, and promotions to the rank of Chief Technician (1), Senior Dietician/Nutritionist (1), and Health Superintendent (1).

Mr. E. K. Andoh was on study leave working towards his doctorate in Demography at the University of Pennsylvania.

Four Senior Members were seconded to the Department. Three physicians from the Ministry of Health, two of whom have returned from U.C.L.A. after taking their M.P.H. degrees. One Anthropologist was seconded to the Department from the Ministry of Trade and Industries.

### Students

The department taught students from the 2nd to the 6th year.

<i>Year</i>	<i>Number</i>	<i>Courses</i>
2nd	76	Community Health Survey
3rd	59	Introduction to Community Health, Ecology Epidemiology, Environmental Health, Health Education
4th	55	Maternal and Child Health, Nutrition, Health Administration
5th	54	Occupational Health, Health Information, Community Health Practice,
6th	50	Revision Courses and Tutorials

In the Final M.B., Ch.B. examination in June 1976 the only distinction was won by a candidate in Community Health.

### Courses

The major change was the presentation of the objectives of courses in the department in behavioural terms, with an arrangement such that students will study the scientific principles, community diagnostic methods and health programme that are carried out to solve problems identified.

The students in the final year spent a month in the Community Clerkship in Danfa District—weekly trips are made to Akosombo, Tema and other sites of public health activity. It is hoped with the help of the Ministry of Health the accommodation in Danfa Health Centre will be enlarged.

The second month of the Community Health Clerkship is spent in a district hospital as has been done in the past two years. This year students have used Berekum Holy Family Hospital, Agogo Hospital, Bawku Hospital, Bolgatanga

Hospital and Adidome Hospital. The medical Staff at these hospitals are enthusiastic about these student clerkships and it is the hope that more medical school staff will be able to spend time at these district hospitals during the time students are in residence.

The Ministry of Health is helping to put up residential accommodation for students at Akosombo as part of the joint collaborative programme of service, research and teaching. The residence will be used by students from the medical school and other health training institutions.

The Department co-operates with the Department of Paediatrics in three major ways. These include the teaching of Nutrition by departmental staff of Paediatric students at the Princess Marie Louise Hospital; practical exercises in Health Education in Children's Block twice a week to 4th Year Students; and also the Social Paediatrics Seminar in the Department of Child Health.

The Co-ordinated Course for 3rd Year Students included contributions by staff from the Department. It is hoped that this course will develop to involve the Department more and more.

Members of the Department during the year gave lectures or assisted in teaching in other Departments of the University of Ghana, i.e. Departments of Post-Basic Nursing, Sociology and Social Administration.

### **Conferences**

The Department organised the 7th Annual Review Meeting of the Danfa Project, February 18-19, 1976. Several papers were presented by Departmental Staff on the Danfa Project. The Department organised the African Health Training Institutions Project Workshop in the Medical School, April 20-30, 1976.

The Department represented the Medical School at the Accra Meeting of the Association of Medical Schools of Africa, April 4-9, 1976 and presented a paper.

ASHITEY, G. A., OFOSU-AMAAH, S. AND WURAPA, F. K.

"Co-operation between Governments and Universities in education for and delivery of Health Care in Rural Areas". A.M.S.A. Meeting Accra, April 4, 1976.

ASHITEY, G. A.

"Schistosomiasis in Ghana—country profile". International

Conference on schistosomiasis, Cairo, October 18–22, 1975.  
OFOSU-AMAAH, S.

1. "The utilization of findings from the Danfa Project—The Prospects". East Africa Medical Research Council Annual Scientific Meeting, Nairobi, Kenya.
2. "The Evaluation of Family Planning in Health Services". Workshop on the Integration of Family Planning in Maternal and Child Health, G.I.M.P.A., July 1976.
3. "Problems of Peri-natal Mortality in Ghana", 5th Annual Scientific Meeting of the European peri-natal Medicine Society, Sweden, June, 1976.
4. Paper read at symposium on "Improving the Health of Ghanaians". Panel also heard papers from Professor C. O. Easmon, Dr. E. Akwei, Dr. F. Grant, University of Ghana Alumni Association, May 10, 1976.
5. "The Complications of Immunization", and Nicholas, D. "Introduction to the Danfa Project Immunization Programme"—at the Regional Seminar of the Ministry of Health, Bolgatanga 14th May, 1976.
6. "Children and the issues of Health in Ghana". Seminar arranged by Institute of African Affairs, Legon, July 7, 1976.

WURAPA, F. K. AND BELCHER, D. W.

"Questionnaire Interview Morbidity Data for Health Planning". U.N. Institute for Population Studies Seminar, March 22–29, 1976.

MRS. MATILDA PAPPOE

Prepared a country statement for the UNESCO/WHO Inter-regional Consultation on Training in Communication/Education in support of Family Health/Planning Programmes, held in Alexandria, from 24th to 28th November, 1975.

### Visitors

There were two types of visitors to the Department. First there were foreign medical students from United Kingdom and U.S.A Medical Schools, who joined our own students in the Community Health Clerkship at Danfa or in District Medical Clerkships. There were also visits by four senior Nurses—two from Nigeria (Ibadan, Lagos) and two from Sierra Leone who came to study the programmes of the Danfa Project particularly the Traditional Birth Attendant Project.

The second type of visitors were distinguished scientists or research workers who came to see our work and to exchange ideas. These included Professor and Mrs. D. Jelliffe, U.C.L.A., Professors Bradley and Waterlow, London School of Hygiene and Tropical Medicine, the UNFPA/SIDA Evaluation Team on Family Planning (including Dr. Wishik, Dr. L. Engstrom and Dr. Eva Berarandt), Prof. Fasan, Dr. Oyediran, Prof. Shehu, Lagos, Ibadan and Ahmadu Bello Medical Schools.

During the AMSA Meeting in April 1976 all the distinguished Dean and Senior Medical School Professors visited Danfa.

Other distinguished visitors included Professor Forfor, Edinburgh, Professor E. Green, Washington University, and Dr. Moses Behar, W.H.O. Nutrition Officer, Geneva.

### **Benefactions**

The major gifts to the Department have been vehicles. The I.P.P.F. presented a Landrover and V. W. Kombi Bus (through the instrumentality of Professor F. T. Sai, I.P.P.F. Assistant Secretary-General, and former Head of Department). The Ministry of Finance also presented an Audi 100 Saloon Car to the Department.

These gifts have allowed us to retire all our previous vehicles whose average age was 8 years, and these have made a great difference to various field projects. Books were also presented to the Department Library by various persons and agencies.

A television set has been earmarked for presentation to the Danfa Health Centre and the surrounding villages by the Commissioner for Information.

*Senior Staff Seminars* have been instituted since March 1976 and have been most exciting and stimulating. 13 have been held so far and have attracted experts both within the medical school and outside in the field of Public Health to present their work and problems to a critical departmental audience. It is hoped to consolidate this as a regular Seminar series so that all specialist in the Accra Region would share in the excitement of academic exchange in the field of public health.

### **Research**

The major research programme in the Department remains

the Danfa Comprehensive Rural and Family Planning Health Project. This project started in 1970 and will end in the middle of 1978. The U.C.L.A. Team are phasing out and by the end of 1977 none of the U.C.L.A Staff will remain in the Department. The project also has advanced from a strict testing of hypotheses about family planning to a more operational research mode. Ghanaian staff have taken over the field work.

A second project commenced in January 1976 after much delay in the Population Dynamics Programme fund for a study of Maternal and Child life in Mamprobi District. This is a five-year longitudinal survey which is studying the dynamics of family life as these affect child growth and survival.

The joint research programme on the control of Endemic Diseases on the Volta Lake at Akosombo with the Volta River Authority Health and Safety Department and the Ministry of Health continues. The Department has started several community health programmes, e.g. Maternal and Child Health and School Health Services in Akosombo, and measures to improve village sanitation in the Akosombo district.

#### **Extension and Other Activities**

Television programmes in Health in local languages by Member of Department.

Assistance of Planned Parenthood Association of Ghana to initiate a Traditional Birth Attendant Programme in Bortianor, West Accra and the Ministry of Health (Zonta Project) in East Accra.

Training of Danfa Health Centre Staff in Family Planning February-March 1976. Dr. A. A. Armar, Executive Director, National Family Planning Programme presented certificates to the participants. Training of staff at Obom Health Centre is under way.

Co-operation was established with the Department of Community Health, University of Benin Medical School, Nigeria. A Senior Lecturer spent one month helping the young department at Benin.

Members of the Department gave lectures in training courses and workshops organised by the Ministry of Health, Department of Social Welfare, Institute of Statistical, Social and Economic Research, and the Institute of African Studies.

The Staff of the department helped with suggestions in changes that were incorporated in the Mamprobi Urban Health Centre; for instance, in the conversion of the ground floor of the administrative block into a maternity unit, the addition of a second ward for emergencies and partial roofing of the courtyards for patient seating. Members of staff helped with the orientation of the staff before the Health Centre and it is hoped that it will soon be used as a Community Health Teaching Centre.

### Publications

- NEUMANN, A. K., OFOSU-AMAAH, S., AMPOFO, D. A., NICHOLAS, D. D., ASANTE, R. O., "Integration of Family Planning and Maternal and Child Health in Rural West Africa". *J. biosoc. Science* 1976, 8, 161-173.
- AMPOFO, D. A., NICHOLAS, D. D., AMONOO-ACQUAH, M., OFOSU-AMAAH, S., NEUMANN, A. K., "The Training of Traditional Birth Attendants in Ghana—Experiences of the Danfa Rural Health Project". Accepted for Publication in *Tropical and Geographical Medicine, Amster*, 1976.
- OFOSU-AMAAH, S. "Reflections on the Health Budget—on analysis of the 1974-75 Health Budget". *Ghana Medical Journal* September 1975.
- BELCHER, D. W., NEUMANN, A. K., WURAPA, F. K., NICHOLAS, D. D., OFOSU-AMAAH, S., "The Role of Health Survey Research in Maternal and Child Health/Family Planning Programmes: Danfa Project, Ghana". *Journal of Tropical Paediatrics and Environmental Child Health*. Vol. 21, No. 4, August, 1975.
- BELCHER, D. W., AFOAKWA, S. N., OSEI-TUTU, E., WURAPA, F. K., OSEI, L., "Non-Group-A Streptococci in Ghanaian Patients with Pyoderma". *Lancet*, November 22, 1975.
- JOHNSON, O. G., NEUMANN, A. K., OFOSU-AMAAH, S., "Health Information System Installation—Principles and Problems". *Medical Care*. Vol. 14, No. 3, pp. 210-222, March, 1976.
- BELCHER, D. W., NEUMANN, A. K., WURAPA, F. K., LOURIE, I. M., "Comparison of Morbidity Interviews with Health

- Examination Survey in Rural Africa". To be published in the *American Journal of Tropical Medicine and Hygiene*. (Accepted November 1975.) Scheduled for publication: September, 1976.
- BELCHER, D. W., POBEE, J. O. M., LARBI, E. O., OCCRAN, K., WURAPA, F. K. "Non-Response Factors in a Rural Health Examination Survey in Ghana". To be published in *Public Health Reports*. (Accepted August, 1975.) Scheduled for publication: mid-1976.
- BELCHER, D. W., WURAPA, F. K., ATUORA, D., "Endemic Rabes in Ghana" To be published in the *American Journal of Tropical Medicine and Hygiene*. (Accepted November, 1975.) Scheduled for Publication: September, 1976.
- BELCHER, D. W., WURAPA, F. K., NEUMANN, A. K., LOURIE, I. M., "A Household Morbidity Survey in Rural Africa". To be published in the *International Journal of Epidemiology*. (Accepted November 1975. Scheduled for Publication: mid-1976.)
- AMPOFO, D., NICHOLAS, D., OFOSU-AMAAH, S., NEUMANN, A. K., "The Danfa Family Planning Programme in Rural Ghana" To be published in *Studies in Family Planning*. (Accepted in May, 1976.)
- POBÉE, J. O. M., LARBI, E. B., BELCHER, D. W., WURAPA, F. K., DODU, S. R. N., "Blood Pressure Distribution in a Rural Ghanaian Population". To be published in the *Transactions of the Royal Society of Tropical Medicine and Hygiene*. (Accepted in May.)
- WURAPA, F. K., DERBAN, L. K. A., BELCHER, D. W., ASANTE, R. O., CHINERY, W. A., "A Survey of Parasitic Infections in the Danfa Project Area" To be published in *Ghana Medical Journal*. (Accepted May, 1976.) Scheduled for publication: mid-1976.
- BELCHER, D. W., NEUMANN, A. K., OFOSU-AMAAH, S., NICHOLAS, D. D., BLUMENFELD, S. N., "Attitudes toward Family Size and Family Planning in Rural Ghana—Danfa Project: 1972 Survey Findings". Submitted to *Studies in Family Planning* May, 1976.
- NEUMANN, A. K., WARD, W. B., PAPPOE, M., BOYD, D. I. "Integrated Health and Family Planning Education and

Evaluation in Rural Ghana". Submitted to the *International Journal of Health Education*. January 1976.

2. "Family Health", Vol. 1, No. 1, January 1974; Vol. 1, No. 2 April, 1974; Vol. 2 No. 1, January, 1976. (Journal Published by the Department.)

ASHITEY, G. A.

1. "Conquest of a Disease", Editorial: *Ghana Medical Journal*, 14, 1-2. 1976.
2. "Surveillance of Smallpox". *Ghana Medical Journal*, 14, 76-77, 1976.

## DEPARTMENT OF PHARMACOLOGY

### Staff

Dr. R. A. Lewis, who had been the Head of this Department since November 1965, left the University of Ghana *this year*. Dr. Adjepon-Yamoah was promoted to the rank of Senior Lecturer during the year. Dr. Ayitey-Smith was also promoted to the same rank. Dr. S. O. Larbi began his two-year leave of absence from the University. Dr. G. L. Boye completed the second year of his three-year World Health Organization Fellowship in the U.S.A.

Dr. E. Larbi, who transferred to the Department of Medicine and who taught in the Pharmacology Department, was appointed to the rank of Senior Lecturer.

Dr. Lewis worked as an exchange Professor under W.H.O. auspices at the "Centre Universitaire de Sciences Santes" in Yaounde, for one month. He was an external examiner at Lagos, Ibadan and Enugu.

### Research

We have completed studies on various aspects of the toxicity of chloroquine in animals including the effect of temperature and electron-microscopic evidence of damage to cell organelles. Research is now being diverted towards Clinical Pharmacology and investigation of drugs which can be obtained from locally-grown plants. A colony of congenital hypertensive rats is still under observation.

## Publications

- LEWIS, R. A., *Objective (Multiple Choice) Questions in Pharmacology: Tested for Facility and Discrimination*. 1975 Balliere Tindall, London (143 pages).
- PRESCOTT, L. F., FORREST, J. A. H., ADJEPONG, K. K. AND FINLAYSON, D. C., "Liver Disease and Drug Metabolism". *J. Clinical Pathology*, 1975 28, Suppl. 9.
- PRESCOTT, L. F., ADJEPON-YAMOAH, K. K. AND TALBOT, R. G., "Impaired Lignocaine Metabolism in Patients with Myocardial Infarction and Cardiac Failure". *B.M.J.* 1976 (in press).
- LARBI, S. O. AND STAMER, G. A., "Direct Methaemoglobin Forming Effect of Aniline Blood"—Submitted for publication.

## Conferences

- AYITEY-SMITH, Potentiation of Pentobarbital Sleeping Time by Chloroquine in the (Abstract) 6th Annual Conference of West African Society for Pharmacology.
- LARBI, S. O. AND LEWIS, R. A., A Study of Indigenous Plants with Laxative Activity: Biological Assay of *Cassia Podocarpa* (Abstract) 6th Annual Conference of West African Society for Pharmacology.
- LEWIS, R. A., Drug Treatment of Venereal Disease: A Review of West African Literature and Retrospective Analysis of 273 Cases in Ghana. (Symposium) 6th Annual Conference of West African Society for Pharmacology.
- ADJEPON-YAMOAH, K. K. AND PRESCOTT, L. F., Some Preliminary Studies of the Effect of Chronic Liver Disease on Drug Metabolism (Abstract), 4th Biennial Conference of the West African Society of Gastroenterology, Accra 1976.

## Extension and Other Activities

The Professor and Head of the department has acted as an external examiner in Lagos, Enugu, Yaounde and Ibadan. He has also conferred with the Institutes for Plant Drugs and Clinical Genetics. Dr. S. O. Larbi has been active with the Pharmaceutical Society and Dr. Ayitey-Smith with the West African Science Association. The members of the department are working with the other agencies to reduce the abuse of drugs.

## Benefactions

All the items ordered for this Department by the Valco Fund have been received. The last item was a linear readout ultraviolet spectrophotometer.

## DEPARTMENT OF PSYCHIATRY

### Publications

#### PROFESSOR FORSTLER

1. "The Use of Dothiepin in the Treatment of Psychoneurotic Anxiety with Depressive Features" *AFR. J. PSYCHIAT.* (1975) 2, 157-164.
2. "What is Mental Health", *AFR. J. PSYCHIAT.* (1975) 1, 31-35.

#### DR. C. C. ADOMAKOH

1. "The pattern of depressive illness in Africa"—in Recognition of depression in the African. (Proceedings of a round-table discussion held on 3rd July, 1975 in conjunction with the 10th Pan-African Congress on Psychiatry in Abidjan, Ivory Coast.) Published by *Ciba-Geigy Ltd.*, Basle, Switzerland.
2. "Alcoholism—The African Scene", *Ghana Medical Journal* Vol. 14 No. 3, September, 1975.
3. "A preliminary report on attempt suicides seen in a general hospital". (Accepted for publication by *Ghana Medical Journal*.)

#### DR. S. A. DANQUAH

1. "The Comparative treatment of enuresis among Ghanaian children". *Psychopathologie Africain* Vol. XI No. 3.
2. "Behaviour Modification among children in the Classroom in Ghana". *Ghana Journal of Sociology* Vol. 8 No. 2 and Vol. 9 No. 1.

### Conferences

#### PROFESSOR FORSTER

1. Participated at the World Federation for Mental Health Regional Meeting in Mauritius. (3-7 Nov., 1975). Two papers were presented.  
(1) Racism and its effects on mental health.

(2) The effect of Malnutrition on mental health.

2. Attended Heads of Centres for Study of Psychotropic Drugs in Quebec, Canada.

**DR. C. C. ADOMAKOH**

1. National Alcoholism Forum organised by the American National Council on Alcoholism in Milwaukee, U.S.A., April 27th – May 2nd 1975. Paper presented: Alcoholism – The African Scene.
2. Fourth Pan African Congress of Psychiatry held in Abidjan, Ivory Coast, June 30–July 6, 1975. Papers presented:
  - (a) Psychological Factors and Hypertension by Dr. C. C. Adomakoh and Dr. S. A. Danquah.
  - (b) The pattern of depressive illness in the African.

**DR. S. A. DANQUAH**

1. The 10th Annual Conference of Ghana Sociological Association in conjunction with the Ghana Academy of Arts and Sciences. Held at Legon GIMPA Greenhill. April 2–5 1975. Paper presented: 'Preliminary Survey of Beliefs about Severe and Moderately Retarded Children in Ghana.
2. The Joint Psychological Conference between University of Lagos and University of Ghana, Legon held at Legon, April 1976. Paper presented: Comparative Treatment of Enuresis among Ghanaian Children.
3. Fourth Pan African Congress of Psychiatry held in Abidjan, Ivory Coast, 30–6–75–6–7–75. Paper presented: Psychological Factors and Hypertension by Dr. C. C. Adomakoh and Dr. S. A. Danquah.
4. Seminar and Workshop on Counselling. Midwifery Training College Korle-Bu 6th–7th May, 1976. Paper presented: Counselling in Relation to the Nurse.

### **Extension and Other Activities**

**Dr. C. C. Adomakoh**

Counselling service for the Careers Advice Centre. Lectures and symposia organised by the Centre and by the Midwifery Training College on Counselling.

**Dr. J. J. Lamptey**

1. Examiner in Psychiatry to the Ghana Nursing Council.

2. Counselling at Careers Advice Centre, Legon and Medical School, Korle Bu.
3. Vice-President, Ghana Mental Health Association.
4. Lectures on Mental Health and Illness in Schools.
5. Panelist, Symposium organised by Ghana University Alumni Association. Paper presented: Madmen in the Community.

**Dr. S. A. Danquah**

1. Counselling Services for University students, Legon Careers Advice Centre.
2. Counselling Services for Nurses, Midwifery Training College, Korle Bu.
3. Part-time Lecturer—School of Medical Sciences UST, Kumasi.
4. Consultant to Ghana Registered Nurses Association.
5. Member of Diagnostic Panel, Mentally Retarded Children, Achimota.
6. One of the Principal Investigators—Ghana Tourist Board Research Project: Impact of Tourism on Ghanaian Social Life.
7. Training of Group Therapists—Accra Psychiatric Hospital.
8. Society of Inner Wheel; organised symposium: Talked on Mental Retardation in Ghana.

## DEPARTMENT OF SURGERY

### Staff

Mr. E. D. Yeboah was promoted Senior Lecturer/Urology, Mr. K. G. Korsah, Associate Professor Orthopaedics and Mr. E. Q. Archampong, Associate Professor/General Surgery.

Dr. J. L. Wosornu, Senior Lecturer resigned from 30th September, 1976.

### Publications

**PROFESSOR E. A. BADOE**

1. "Fluid and Electrolyte Therapy in West Africa". *West African Journal of Surgery*, 1:1, 1976.

**PROFESSOR J. K. M. QUARTEY**

1. "Traumatic Avulsion of the Ureter with Obstruction, Pseudo cyst Formation and Hypertension". *Brit. J. Urol.* (1976) 4, 107-110.
2. "Acute Renal Failure in Tropical Africa". B.M.J. (1976) 10th April (Co-author).
3. "Cases and Management of Haematuria in Accra". *Ghana Medical Journal* (Co-author).
4. "Acute Renal Failure and Typhoid Fever". *Ghana Med. J.* 14, No. 3 (Co-author).

**PROFESSOR C. O. QUARCOOPOME**

1. "Ocular Findings of Onchocerciasis in Ghana" (with Hosaka & Yamada), *Folia Ophthal, Japonica*, 26: 1420-1429, 1975.
2. "Onchocerciasis: A comparative study of Ocular Lesions in Endemic and Non-endemic Areas in Ghana". *Ghana Medical Journal*.
3. "Multiple Eyes: A case report". *Ghana Medical Journal*.

**PROFESSOR E. Q. ARCHAMPONG**

1. "Biliary Tract Disease and Sickle Cell Anaemia in Accra". *Ghana Medical Journal* 1975, 14: 175-180.
2. "Typhoid Ileal Perforations: Why such mortalities". *British Journal of Surgery* 1976, 63: 317.

**MR. E. D. YEBOAH**

1. "Acute Renal Failure and Typhoid Fever". *Ghana Medical Journal* Vol. 14, No. 3. (Co-author).
2. "Acute Renal Failure in Tropical Africa". *British Medical Journal*, 10th April, 1976 (Co-author).
3. "Causes and Management of Haematuria in Accra". *Ghana Medical Journal*.

**MR. A. A. D. AMPOMA**

1. "Idiopathic Intussusception in Adult Ghanaians". *Ghana Medical Journal* Vol. 14, March, 1975.
2. "Carcinoma of Thyroid in Korle Bu Hospital: A review of 22 cases". *Ghana Medical Journal*.

**DR. S. BEKOE**

1. "Congenital Heart Disease in Adults: Surgical Management". *Archives of Surgery*, Vol. 110, 1975.
2. "Intubation Without Tracheal Injury". *C.V.P. Journal*, 1975.

## Conferences

At the Conference of the West African College of Surgeons held in Monrovia in January 1976, the following papers were read:

1. Is Post-Operative Retention of Water and Sodium Obligatory?—by Professor E. A. Badoe.
2. Fluid and Electrolyte Therapy in West Africa.—by Professor E. A. Badoe.
3. Causes and Management of Haematuria.—by Mr. E. D. Yeboah.
4. Surgical Management of Patent Ductus Arteriosus.—by Mr. E. D. Yeboah.
5. Factors Affecting Morbidity and Mortality in Abdominal Injuries.—by Professor E. Q. Archampong
6. Traumatic Wounds to the Neck.—by Dr. S. Bekoe.

The Departments of Medicine and Surgery organised the 4th Biennial Conference of the West African Society of Gastroenterologists in Accra in March, 1976. It was a very successful conference and the Guest Lecturer was Professor H. L. Duthie, M.D., Ch.M., F.R.C.S., Head, Department of Surgery, University of Sheffield. The Conference was opened by Professor E. A. Boateng, Executive Chairman, Environmental Protection Council.

The following papers were read by members of the Department:

1. Malignant Tumours of the Large Bowel in Korle Bu Teaching Hospital.—Professor E. A. Badoe.
2. Biliary Composition in Relation to Cholelithiasis in Ghanaians.—Professor E. Q. Archampong.
3. Patterns of Cholestasis in Accra.—Professor E. Q. Archampong.
4. Pentagastrin As a Stimulant For Gastric Acid Secretion in Ghanaians.—Dr. J. L. Wosornu.
5. Experience in a Technique of Proximal Vagotomy in Korle Bu Teaching Hospital.—Mr. H. K. Takyi.
6. Sigmoid Volvulus in Korle Bu Hospital—Review of 53 cases.—Mr. A. A. D. Ampoma.

## DEPARTMENT OF OBSTETRICS AND GYNAECOLOGY

### Staff

Dr. E. K. Newman was promoted a Senior Lecturer during the year.

Dr. A. R. A. Arkutu has been granted two years leave of absence and is working in the University of Dar-es-Salaam.

### Students

Our postgraduate students continue to do well. Four out of the five presented for the Part I M.R.C.O.G. Examination were successful.

### Visitors

Dr. Graham Harley, Consultant, Royal Maternity Hospital, Belfast and Professor E. S. Grech of the University of Zambia visited the Department as External Examiners.

### Benefactions

We received a number of books from the Population Council of New York.

### Extensions and Other Activities

Members of the Department continue to help out with lectures in the Midwifery Training School and the Regional Institute for Population Studies.

## DEPARTMENT OF MEDICINE AND THERAPEUTICS

### Staff

*Headship:* Professor S. R. A. Dodu resumed duty as Head of Department with effect from March 1, 1976.

#### *Promotions:*

1. E. B. Larbi—Lecturer to Senior Lecturer
2. S. K. Owusu—Lecturer to Senior Lecturer
3. B. B. Edoe—Senior Lecturer to Associate Professor

*Re-appointment:* J. H. Addy—Lecturer

*New appointments:*

1. A. R. Neequaye—Senior Registrar
2. K. N. Nkrumah—Senior Registrar

**Student Numbers**

Introductory Clinical Course .. .. .	57
Subinternship Course .. .. .	56
Co-ordinated Course in Medicine and Surgery ..	57
Postgraduate Residency Training Programme ..	4

**Courses**

(i) *New Curriculum:* The implementation of the new curriculum has now reached its final stages and the first students on that programme are due to qualify in December 1976. The Department of Medicine has been mainly concerned with the Introductory Clinical Course and the Co-ordinated Course organised by the Departments of Medicine and Surgery. The Department has also kept up co-ordinating links with the Departments of Community Health and Pathology.

(ii) *Introduction to Nuclear Medicine:* The Nuclear Medicine Unit of the Department of Medicine was inaugurated on 16 January 1976. Prof. S. R. A. Dodu, then Dean of the Medical School was chairman for the function. Brig. N. A. Odartey-Wellington, Commissioner for Health, was the guest of honour at the ceremony.

As part of the inauguration activities the Unit conducted a course of 6 weekly seminars to provide an introduction to nuclear medicine at the postgraduate level.

**Research**

The Department of Medicine has been designated a WHO Collaborating Centre for Research and Training in Cardiovascular Disease in recognition of the work being carried out in this field in the Department.

In collaboration with the WHO Cardiovascular Research Team which is based in the Department the project started in 1973 was continued during the 1975-76 academic session. The

field surveys were taken a step further by measuring the extent of heart disease in general and also hypertension in a well-structured sampled population, a study that has come to be known as the Mamprobi Project. The opportunity was taken to estimate the prevalence of Tuberculosis in the population and to establish normal values for Pulmonary Function. This cross-sectional study is being followed-up by longitudinal studies, and data arising from the Mamprobi Project are being collated and analysed.

### **Publications**

**ADDY, J. H.**

"The Pattern of Porphyria Cutanea Tarda in Black Ghanaians", M. D. Thesis, University of London, 1976.

**ADU, D.**

1. "Acute Renal Failure in Tropical Africa", Adu, D., Anim-Addo Y., Yeboah E. D., Quartey, J. K. M., Ribeiro, B. F., Foli, A. K. *Brit. Med. J.* (1976) 1, 890-892.
2. "Acute Renal Failure and Typhoid Fever" Adu, D., Anim-Addo, Y., Foli, A. K., Yeboah, E. D., and Quartey, J. K. M., *Ghana Med. J.* 14 (3) September, 1975.

**DAKUBU, S.**

"Cell Inactivation by Ultrasound". *Biotechnology and Bioengineering* Vol. 18, pp. 465-471 (1976).

**DODU, S. R. A.**

"Management Problems of an Affiliated Teaching Hospital". *Ghana Med. J.* (1975) 14 (Dec.), pp. 326-331.

**FOLI, A. K.**

1. "Variations in total serum alkaline phosphatase activity with age and sex in adult and adolescent Ghanaians", Fenuku, R. I. A., Foli, A. K. *Clinica Chimica Acta* (1975) 60, 303-306.
2. "Serum alkaline phosphatase activity during pregnancy and post-partum period in Ghanaian women", Fenuku, R. I. A., Foli, A. K. *Tropical and Geographical Medicine* (1975) 27, 371-374.
3. "Clinical problems in Amoebiasis", Archampong, E. Q., Foli, A. K., *Ghana Med. J.* Vol. 14, (1975) 122-128.

LARBI, E. B.

"Some economic aspects of hypertension". Proceedings of Symposium. Chapter in book *Hypertension in Africa* 1975. Edited by O. O. Akinkugbe and Ed Bertrand Literamed Publication (Nig.) Ikeja, Lagos, pp. 137-147.

OWUSU, S. K.

"Hyperosmolar Non-Ketotic Diabetic Coma in a Juvenile"  
S. K. Owusu, F. S. Anterkyi, K. E. Shaw-Taylor, F. I. D. Konotey-Ahulu, *Ghana Med. J.* **14**, 241-242, 1975.

POBEE, J. O. M.

1. "A review of Cardiovascular Diseases as seen in the Cardiac Clinic of the Korle Bu Teaching Hospital. Accra, Ghana". *Ghana Med. J.* (1975) **14**, 41-49 J. O. M. Pobee, E. B. Larbi, Y. Anim-Addo.
2. "Valvular Lesions of the Heart as observed in the Korle Bu Teaching Hospital, Accra". *Cardiologie Tropicale* 1975 **1** (2) 81-86.
3. "The aetiology of Hypertension with special reference to Renal Disease Schistosomiasis". Proceedings of Symposium. Chapter in book on Hypertension in Africa. 1975. Edited by O. O. Akinkugbe and Ed. Bertrand. Literamed Publications (Nig.) Ikeja, Lagos, pp. 15-24.
4. Accepted for publication—"Non Response Factors in a Rural Health Examination Survey" in *Public Health Reports* (with Belcher, Larbi, Ocran and Wurapa).

### Conferences

Larbi, E. B. and Pobee, J. O. M.

- (a) CIBA Symposium on Cardiovascular Diseases in Africa held in Ibadan, Nigeria from March 15-19, 1976. Paper on Ischaemic Heart Disease in Africans—read by Pobee, Ikeme, Larbi and Blankson Pole.
- (b) Conference of Association of Physicians of West Africa held in Freetown, Sierra Leone, April 21-23, 1976. Papers read:
  - (i) The Myth of the rarity of severe Hypertensive Retinopathy in Africans—Pobee, Larbi, Maria Hagan and C. O. Quarcoopome.
  - (ii) Retinal Disease in Hypertensive subjects identified

- in a survey of public servants—Maria Hagan, E. B. Larbi, J. O. M. Pobee, C. O. Quarcoopome.
- (iii) The validity of the application of E. C. G. criteria for left ventricular Hypertrophy in Africans—J. O. M. Pobee.

E. B. Larbi

World Health Organisation Conference on the Community Control of Hypertension representing the Accra Centre and presented a progress report on the project.

Pobee, J. O. M.

Organisation of African Unity Scientific Advisory Panel on Cardiovascular Disease in Africa held in Addis Ababa, September, 1975. Rapporteur.

Dakubu, S.

1. 10th Biennial Conference of West African Science Association 1976 (Freetown) Paper Read: "The Scope and requirements of a modest Nuclear Medicine Unit"
2. 4th International Conference on Medical Physics, 25 - 30 July 1976, Ottawa, Canada. Paper read: "Muscle Blood Flow Measurements in relation to Salt Taste Thresholds"

Visitors

Visitors to the department included Dr. E. H. Belcher (I.A.E.C. Vienna) in connection with the Nuclear Medicine Unit; Dr. (Mrs.) A. O. Erinoso-Francis (Ibadan, Nigeria), Dr. I. T. Wetermen (University of Leyden, Holland) and Dr. P. Ball (Middlesex Hospital, London) and Prof. Francis, U.C.H., Ibadan) who acted as external examiners.

## DEPARTMENT OF PHYSIOLOGY

Staff

Professor H. H. Phillips was appointed Acting Dean, 1st February, 1976 following resignation of the Dean, Professor S. R. A. Dodu. Professor S. Addae has been appointed Acting Head of the Department of Physiology. Drs. F. K. Adzaku and P. O. Odonkor have been seconded to the Department in preparation to have them proceed overseas for Ph.D. courses in

Physiology. Miss Rosanna Graves has taken up the position of a Principal Research Officer in the Department. Mr. D. E. Laryea has been appointed a Technician, a Senior Staff Grade.

### Students

Seventy-six students took the M.B. II/B.D.S. II examination in July 1976. Seventy-five students were admitted for the M.B. II/B.D.S. II course starting July 1976. Sixty-eight of them are Medical Students and Seven Dental Students.

### Publications

ALLEYNE, G. A. O., VAN EPS, L. W. S., ADDAE, S. K., NICHOLSON, G. D. AND SCHOUTER, H. (1975), 'The Kidney in Sickle Cell Anaemia'. *Kidney International*, 7, 371-379.

ADDAE, S. K. AND IBRAHIM, M. B. (1975) "Hyposthenuria in Sickle Cell Trait". *Ghana Medical Journal* 14, 121.

ADDAE, S. K. (1975)

1. "Is the Urine Concentrating Ability Defective in the African?" *Lancet*, pp. 1100, November, 1975.
2. (1974) "Thyrotoxicosis in the African". *Ghana Medical Journal* 14, 226-227.
3. (1975) "The Physiology of Sickle Cell State in Relation to Aviation". *Ghana Medical Journal* 14, 128-132.
4. (1975) "The Kidney in Cell Disease". *Ghana Universities Press*.

FLETCHER, J. J. AND VARTANIAN, G. A. (1975) Further "Analysis of the Relation Between the Amplitude of Action Potentials in the Heart Muscle Fibres, Intramyocardial Conduction Velocity and the Amplitude of the E. C. G." *Ghana Medical Journal* 14, 29-32.

### Research in Progress

The hormonal status of the sickle cell patient, blood volume and plasma volume, total body water as well as total exchangeable sodium are being studied This is an inter-departmental project initiated by this Department with the Departments of Surgery and Medicine participating.

## Conferences

Dr. J. J. Fletcher read a paper on Simple Electrical Method for the Measurement of PCV and RBC at the 9th Biennial Conference of the Ghana Science Association, Legon, March 1975.

## SCHOOL OF JOURNALISM AND COMMUNICATION

### Introduction

In general this has been a year of stock-taking and of continuing projects begun earlier. A number of directional changes are likely in the future following our analysis of our past events. Of particular interest has been the increase in our reputation throughout the world. Last year we took part in a seminar in Sierra Leone, this year one of our number will be a major participant in a UNESCO seminar in Paris on Graduate Education, and during the next year we will again host the African Conference of Communications Educators as well as a short course in Training the Trainers run by the Thomson Federation.

In addition, students of our diploma class will perform internships outside Ghana: one with *The Nation*, a Nairobi newspaper; one with *To The Point International*, a monthly news magazine featuring Africa; and one possibly with Deutschwelle.

### Staff

The staff for the year consisted of Professor J. M. Ripley, Director; Professor Ralph Kliesch, Visiting Fulbright Scholar; and Dr. Paul A. V. Ansah, Senior Lecturer. Dr. Ansah returned to the campus at the beginning of the academic year after a year of study abroad to re-train himself for work in journalism. Another staff member, Dr. Yaw Twumasi, a Senior Lecturer formerly with the Political Science Department, spent the year in the United States on a re-training programme at Michigan State University. Dr. Twumasi is now back and is prepared to take a major role in the development of the school.

Professor Ripley will be terminating his tenure this year as will Professor Kliesch. Next year there will be only one Fulbright Scholar with the school, Professor Sydney, Head of Temple University.

We have also had the good fortune to have a graduate Scholar from the MUCIA group with us since December. Mr. John Brouhard of Indiana University's programme in Audio-visual Educational Technology has assisted us in many ways and will be continuing throughout next year.

### **Students**

Initially, fourteen students were enrolled in the diploma course and six in M.A. course work. One student in each programme was forced to drop out either through illness or the need to earn funds. An additional group of four students was supposed to be writing theses during the year. One of them has completed his theses, and, according to the readers, has successfully passed. He, Mr. S. T. K. Boafo, is the School's first M.A.

Mr. Boafo will be attending Michigan State University next year majoring in developmental journalism for his Ph.D. He will be supported by Carnegie Funds.

### **Courses**

There were no appreciable modifications of the programme during the year although a good deal of time was spent preparing for some major modifications to be requested next year under the leadership of the Acting Director, Dr. Ansah.

### **Research**

The School continued its project with the *Densu Times*, a school-community newspaper being distributed in the Koforidua area and added a second paper in the Swedru area called the *Akora New Era*. Both papers are connected to on-going research begun by Professor Smart which should terminate this summer.

New research projects about to begin are a community newspaper for the Cape Coast region, a photo story magazine dealing with planned parenthood, an evaluation of population

studies communications activities, and several specific topics under the M.A. thesis rubric. In addition, we hope that ground work laid by Professor Ripley will be useful to Professor Head when the World Bank proposal for FM radio stations with a rural and community thrust is implemented. In addition, we co-operated with the Adult Education Institute's indigenous language newspaper brought forth under the aegis of UNESCO.

Among other student projects this year, an excellent content analysis of the Voice of Uganda and the Daily Graphic was conducted. The analysis is in the School's collection.

### **Conferences and Appearances**

This year, due to the heavy teaching load imposed by Dr. Twumasi's late beginning of his retraining, the departmental faculty decided not to offer any conferences or institutional short courses but to make our services available to others and to plan for the following year. We are pleased with the availing of our services by such groups as the Planned Parenthood Association, the Public Relations Association of Ghana, the Armed Forces Relations Committee, Ghana Institute of Journalism, the Ministry of Information, USIS, and others. Appearances were made on campus as well.

### **Benefactions**

The school received a large number of books and other materials from Professor Ripley during the past year. Additional gifts of materials were from USIS, Professor Kliesch and Dr. Ansah.

### **Miscellany**

The school inaugurated a new television and radio studio this year from funds granted by the Carnegie Foundation. The facilities were used for course work and also for editing and adding sound tracks to materials being used in the field by a WHO project teaching people about diseases around the Volta Lake.

The school also began a photo-journalism course which ought to be useful in research work for our students and faculty.

INSTITUTE OF STATISTICAL, SOCIAL AND  
ECONOMIC RESEARCH

**Staff**

*New Appointments*

Okyere, W. A.,—B.Sc. (Ghana) M.Sc. (Guelph)

*National Service*

Attuah—B.A. (Econ.) Legon

Krakue M.—B.A. (Econ.) Legon

Simpson A.—B.A. (Econ.) Legon

*Study Leave*

Aboagye, A. A.—University of British Columbia, 1975

Boateng, E. O.—Liverpool University, 1972

Nyanteng, V. K., —Ohio University, 1972

Akar, I. G.—State University of New York at Buffalo

*Leave of Absence*

de Graft-Johnson, K. T.

*Resignations*

Bhattacharya, C. G.

Okali, C.

**Students**

<i>Courses</i>	<i>Number of Students</i>
Certificate in Statistics	15
Diploma in Statistics	24

**Courses**

The content of the Certificate and Diploma courses conducted by ISSER remained unchanged from 1974–75. Much teaching assistance has been given to other University Departments and the supervision of research students.

**Research**

The research programme at ISSER mainly comprises projects of a long term nature and these have been continued. Several new projects have been initiated.

(a) Under the programme of agricultural studies initiated by

the Ministry of Agriculture, ISSER is examining the technical and capital input requirements for the expansion of certain industrial crops, namely cotton and sugar. Pilot studies are being carried out in the next area of priority, the production and processing of pineapples, rice and Kenaf and vegetable oils, namely oil palm, coconut, groundnut and soyabean.

- (b) ISSER is providing an evaluation and monitoring service for the Cocoa Rehabilitation Project in Ashanti. Detailed farm management studies on a long term basis already in progress in Ashanti have been expanded in scope for the benefit of this project. A major constraint to the success of these programmes has been the supply of labour, which is being investigated in the cocoa rehabilitation area at Suhum.

Another problem has been the control of cocoa sales to ensure repayment. Thus the potential of the Co-operative Buying Agency, which was given a monopoly in the Project at Suhum is being evaluated.

Research in other areas has been expanded. The industries considered to identify the factors of industrial growth have been extended to cover the wood products and footwear industries. It is planned to proceed to the food industry. The educational research programme has been expanded to consider the present educational system in the light of the manpower needs of the country. The employment prospects of all persons when leaving the educational system is investigated at all points of exit and consideration is given to any reviews in the present system to improve employment prospects.

### **Publications**

ADEGBOYE, R. O. & OKALI, C.

"Some observations on the Eastern Region Cocoa Rehabilitation Project—an example of Government participation in agricultural production in Ghana". *Economic and Social Affairs* 1 (4) 1975.

BHALLACHARYA, C. G.

"Estimation of a common mean". *Institute of Mathematical Statistics Bulletin*, 1975

2. "Estimation of a common mean and recovery of interblock information". *Institute of Mathematical Statistics Bulletin*, 1975.
  3. "Yates type estimators of a common mean". *Institute of Mathematical Statistics Bulletin*, 1975.
- BHATTACHARYA, C. G. & SHAH, K. R.**
1. "Interval estimation of treatment differences in block design". *Institute of Mathematical Statistics Bulletin*, 1975.
  2. "Interval estimation of treatment in incomplete block design". Monograph of Faculty of Mathematics, University of Waterloo, 1976.
- BROWN, C. K.**  
 "Some male-female differences in migratory behaviour in selected industrial centres in Ghana" *Economic and Social Affairs* (forthcoming).
- DAPAAH, S. K.**  
 "Effects of soils and seasonal time on accuracy of crop identification in South Western Ontario from 1974 Satellite imagery". *Canadian Journal of Plant Science* (forthcoming).
- EWUSI, K. (Editor)**
1. "The New International Economic Order and its relevance for West Africa" Legon: ISSER, 1975.
  2. "The major development issues of the New International Economic Order". *Economic and Social Affairs* 2 (2), 1976.
  3. "Evaluation employment performance of manufacturing industries in Ghana". *The Nigerian Journal of Economic and Social Studies* (forthcoming).
- Ghana Cocoa Marketing Board*
- DAPAAH, S. K.; GYEKYE, L. O.; OKALI, C. & SELLEY, R. A.**  
 Policies for increasing cocoa production and evaluation of ICCO study of cocoa production and consumption capacity.
- Ghana National Family Planning Programme*
- KUMEPOR, M.**  
 Annual evaluation of the GNFPF.
- ILO RURAL Employment Study*
- BROWN, C. K.**  
 Ghana's strategy of rural development and action programme in the rural sector.

## Conferences

- National Conference on the New International Economic Order. ISSER, Legon, October 1975, organised by K. Ewusi.
- EWUSI, K. The major development issue of the new International Economic Order.
- Symposium on Statistical Needs for Planning*. Legon, October, 1975.
- EWUSI, K. The development of manufacturing industries in Ghana and the Government's role in it.
- Productivity in Agriculture*, Legon October, 1975.
- ATSU, S. Y. & SULLY, R. Evaluation of technological alternatives for crop production in Ghana.
- Computer Workshop on Project Management Data Processing and Analysis For Senior Social Scientists*. Ife, December, 1975.
- KUMUKPOR, M. Participated.
- UNRISD Workshop on Studies of Socio-Economic Indicators and Levels of Living in Rural Areas*, Geneva, December, 1975.
- EWUSI, K. The measurement, planning and monitoring of rural development in Ghana.
- Conference on New International Order*  
Faculty of Law December, 1975.
- EWUSI, K. Participated.
- Ministry of Economic Planning on Financing, Five-Year Development Plan*.
- EWUSI, K. Participated.
- XVth International Seminar on Family Research*, Lome, Togo, January, 1976.
- NUKUNYA, G. K. The Ewe family with special reference to parenthood.
- International Seminar on the Role of Trade Unions and Employers Organizations In Employment Generation and Socio-Economic Development*, Lusaka, January, 1976.
- EWUSI, K. The role of employers and workers organisations in socio-economic development in East Africa.
- Workshop on Club of Rome Project on the Goals and Aspirations of Societies*, Dakar, March, 1976.
- EWUSI, K. Participated.
- Seminar on Analysis and Utilization of Demographic Data for*

*National Planning, Policy Formation and Plan Implementation*  
Accra, March, 1976.

EWUSI, K. The Data and analytical frameworks for the study  
of the active and inactive population of Ghana.

*Annual Home Science Conference, Legon*, April, 1976.

SAL, F. A. Changing concepts of home science: a case study—  
Axim Workshop.

*International Seminar on Integrated Rural Development*,  
Ibadan, April, 1976.

EWUSI, K. A model for programming integrated rural develop-  
ment in Ghana.

*Conference on Nigerian Women and Development in Relation to  
Changing Family Structure*, Ibadan, April, 1976.

OKALI, C. Changing economic relations in rural communities  
*World Conference on ILO'S World Employment Programme*  
Geneva, June, 1976.

EWUSI, K. The role of manufacturing industries in the develop-  
ment of Ghana.

*Seminar on Urbanisation and Rural Development*, Legon,  
Legon, July, 1976.

BOTCHIE, G.

i. Industrial raw materials and regional development.

ii. Planning and implementation of Development Plans in  
Ghana 1919-75: an appraisal.

EWUSI, K., Levels of development at regional and local levels.

SELLEY, R., Techniques of measuring economic growth impact.  
*4th World Congress of Rural Sociology*, Torun, Poland, August  
9-13, 1976.

BROWN, C. K., The Ghanaian rural youth: Human resource or  
human burden.

GHOSH, R. N.

"Inflation and economic growth: statistical evidence". *Econo-  
mic Affairs*, 21 (1 & 2) 1976.

KUMEPOR, M.

1. "Marriage and divorce under the Matrimonial Causes  
Act". In *Legon Family Research Papers No. 3*.

2. "Changing family studies" Legon: Institute of African  
Studies, 1975.

NUKUNYA, G. K.

1. "Population pressure, land tenure and agricultural deve-

lopment in S.E. Ghana". in Polgar, S. (ed.) *Population, Ecology and Evolution*. The Hague: Mouton. 1975.

2. "The family and social change" In Owusu, M. (ed.) *Colonialism and Change; Essays presented to Professor Lucy Mair*.

3. The Hague: Mouton. 1975.

"Shallot farming in Anlo society" In Goody J. (ed.) *Social Change in Ghana*. London. 1976.

**OKALI, C. OPPONG, C. & HOUGHTON, B.**

"Woman power: retrograde steps in Ghana" *The African Studies Review* XVIII, 1975.

**OKALI, C.**

*The importance of non-economic variables in the development of the Ghana Cocoa industry: a field study of cocoa farming among the Akan*. Ph.D. thesis submitted to Univesrty of Ghana, March, 1976.

## **Other Activities**

### *Boards and Committees*

Personnel from ISSER are frequently called upon by the government and other agencies to serve on various boards and committees.

**ATSU, S. Y.** Ghana Food Distribution Corporation.

**EWUSI K.**

Sugar Industry Board.

Council, Economic Society of Ghana.

Editorial Board. *Economic Bulletin of Ghana*.

Editor, *Economic and Social Affairs*.

**NUKUNYA, G. K.**

Museums and Monuments Board.

Board of Directors, Arts Council of Ghana.

Evaluation and Research Committee Ghana National Family Planning Programmes.

**TWUM-BARIMA, K.**

Vice-Chairman, Executive Board of UNESCO; Academic Advisory Committee, Cape Coast University.

## THE POPULATION DYNAMICS PROGRAMME

### Staff

Dr. George Benneh, Senior Lecturer and Acting Head of Department of Geography, was appointed Associate Director by the Vice-Chancellor on November 1, 1975 in place of Professor K. B. Dickson who proceeded on Sabbatical leave during the academic session.

### Faculty Fellowship

Professor K. B. Dickson, Head of Department of Geography, Legon, and Associate Director of PDP was awarded PDP Faculty Fellowship for one year tenable at the Department of Geography, University of North Carolina at Chapel Hill, with effect from October 1, 1975.

### Student Fellowships

#### (a) Overseas Training

The following persons held PDP fellowships during the year:

<i>Name</i>	<i>Country of Origin</i>	<i>University studying</i>
1. Mr. S. M. Getawch*	Liberia	Boston University
2. Miss R. M. Ribeiro	Ghana	School of Public Health University of North Carolina at Chapel Hill
3. Mr. J. P. Abiedu . .	Cameroon	Public Health, UCLA.

#### (b) Local Training

The following graduate students were studying population-related subjects in various Universities in Ghana.:

\* Fellowship ended in December 1975. However PDP has granted candidate research funds to conduct field-work in Liberia and Sierra Leone in 1976 for his Ph.D. This is to be written at Boston University.

Name	Country	Course	Year	Remarks
B. V. Sheku . .	Sierra Leone	M.A., Popula- tion Studies	22-3	Thesis presented in June 1976
F. K. Campbell	Sierra Leone	-do-	22-3	Preparing thesis for presentation.

Name	Country	Course	Year	Remarks
I. Bun (Mrs)	Nigeria	M.A., Geogra- phy	2nd	Field-work in pro- gress, Ibadan, Nigeria for Ph.D Thesis.
W. K. Woyome	Ghana	M.A., Sociology	2nd	Field-work and the- sis preparation in progress
G. B. Fosu	-do-	-do-	2nd	-do-
B. A. Gogo	-do-	M.A., Agric Eco.	2nd	-do-
G. K. Amankrah	-do-	M.A., Architec- ture and Plan- ning, UST.	2nd	-do-
J. N. K. Nyaadie	-do-	-do-	2nd	-do-
T. Atiako- Baiden	-do-	M.A., Statistics/ Demography	1s.	Registered in the Department of Mathematics
S. R. Gyang (Miss)	do-	Diploma in Pop. Studies	1st	Registered in the RIPS.
T. A. Tekpetey	-do-	M.A., Popula- tion Geogra- phy	1st	Registered in the School of Admi- nistration.
V. A. S. Mawu- enyegah (Miss)	Ghana	M.A., Public Administra- tion	1st	Registered in the School of Admi- nistration
Opia-Mensah Kumah	-do-	M.A., Commu- nication/Jour- nalism/Social Change	1st	Registered in the School of Jour- nalism and Com- munication.
R. F. Darpoh	Liberia	Diploma in Journalism/ Communica- tion		Registered in the School of Jour- nalism and Com- munication
M. M. Mangony	Sudan	Diploma in Po- pulation Stud- ies	1st	Registered in the RIPS.

### Teaching Courses

The PDP does not have a teaching programme of its own; on the other hand it encourages and stimulates the development of new courses to be taught as experiments within relevant departments in the Universities, with the ultimate purpose of incorporating these courses into departmental curricula if they prove successful.

### **Teaching Grant and Curriculum Development**

During the year a teaching grant was made to the Centre for Educational Planning and Research, University of Cape Coast (UCC) to:

- (a) plan and run a series of research seminars on population and education;
- (b) draw up a curriculum on population and education for teaching at University level.
- (c) integrate the research seminars with the teaching educational planning at post-graduate level.
- (d) evaluate the content of the research seminars and take measures to specify research and teaching needs in the general area of population and education.

The seminars were most successful, and the proceedings are now to be published by the Centre for Educational Planning and Research with PDP support.

### **Human Ecology Course**

Planning of the Human Ecology course which started in 1974-75 continued during the period under review. A series of workshops was organised by the Interim Working Committee under the chairmanship of Professor E. Laing, PDP Associate Director. Basically the Human Ecology course is meant to be a teaching and research programme in the University, and courses to be offered will be at both Masters and Diploma levels.

### **Human Genetics Course**

The planning of this course, sponsored by PDP, continued under the direction of Professor E. Laing. The aim of the course is to introduce the non-scientist to simple principles of genetics and to some social implications of human genetics, and also to prepare the scientist interested in genetics and its applications in other fields of study. The course consists mainly of a series of lectures practical demonstrations and film shows.

### **Research**

The PDP does not conduct research of its own; the programme however encourages interdisciplinary research effort by providing some support to faculty within various departments

to carry out such activities. Satisfactory progress was made on most of the projects funded by PDP over the past 2 years. Nine new research units were funded during the year and progress on on-going research was generally satisfactory.

### **Publications**

The following manuscripts are now under consideration for publication, apart from those already in the pipeline (see PDP 1974-75 Annual Report to the Vice-Chancellor of the University of Ghana, under Publications):

- (a) *Planned Fertility Reduction in Ghana: Structural Inter-relationships, Potentials Socio-Economic Impact and the magnitude of the Needed Programmes*. By S. K. Gaisie and A. S. David. Published by The Research Triangle Institute, North Carolina, U.S.A., 1976.
- (b) *Moral and Religious Issues in Population and Development in Africa*: Proceedings of a joint PDP/International Educational Fund at New York, Seminar held at Nungua, Ghana in April 1974. Published by Daily Graphic Press Accra, 1976.
- (c) The proceedings of a two-day Seminar held by the Population Dynamics Programme of the University of Ghana, to review progress on its research projects in Ghana. Published by Daily Graphic Press, Accra, 1976.

### **Conferences/Seminars**

The PDP organised a two-day seminar from December 5-6, 1975 to take a preliminary look at the state of affairs concerning the publication research projects it had funded so far in Ghana. The seminar was considered as essential prelude to the proposed PDP 1977 International Seminar which will bring together the results of its work in the West African region, and attempt a full evaluation of the programme. The 1977 Seminar also proposes to look at policy implications of population studies, and how these can be implemented.

The PDP and Institute of African Studies, Fourah Bay College, Sierra Leone, organised a joint seminar on "Implications of Development on Population: lessons from Central Sierra Leone" The proceedings of the seminar were published

in three volumes in mimeographed form at the Institute in Sierra Leone.

### **Visitors**

Among the number of distinguished visitors during the year were the following:

Dr. Vernon L. Mack, United Nations Fund for Population Activities, 485 Lexington Avenue, N.Y.C. 10003. Professor Wede Sareta Jones, Dean of Liberia College, College of Social Science and Humanities, University of Liberia, Monrovia, Liberia.

Dr. W. S. Griffith, Director, Population Education Programme, The University of Chicago, The Department of Education 5835 Kimbark Avenue, Chicago, Illinois 60637.

Dr. Harper, Professor Emeritus, School of Public Health Johns Hopkins University, U.S.A.

Dr. D. Kleinbaum, Associate Professor of Biostatistics, University of North Carolina, Chapel Hill.

### **Activities of PDP Directors**

Professor N. O. Addo visited the University of Sierra Leone, Liberia and North Carolina, Chapel Hill, U.S.A. on PDP assignment.

He participated in RIPS seminars, and served as one of the assessors of seminar papers presented by the students for their Diploma degree in population studies.

He attended the UCC Centre for Educational Planning and Research Seminars on Population Education and presented a paper on "The Population Problem in Ghana: its future socio-economic implications". He also attended a seminar on the Family, Marriage and Fertility in Africa organised by the International Sociological Association in Lome in January 1976.

The Associate Directors, Professor D. A. Ampofo, Professor E. Laing, Professor J. O. de Graft-Hanson and Dr. G. Benneh continued to carry out their normal duties in relation to the development of the PDP. Professor J. O. de Graft Hanson travelled with Professor N. O. Addo to the University of North Carolina at Chapel Hill, U.S.A. on PDP assignment.

## SCHOOL OF ADMINISTRATION

### Staff

The following appointments were made during the Session:

Dr. Paul Collins .. Lecturer in Public Administration.

Mr. P. T. K. Aidam .. Senior Lecturer in Accounting.

Mr. J. Sorensen .. Visiting Lecturer in Business Management.

Mr. N. Akisikpak .. Temporary Lecturer in Business Management.

Mr. Kay Amoah .. Lecturer in International Business.

### Returned from Study Leave

Mr. Kwame Sarpong, Lecturer in Business Management, returned from his doctoral studies at Vanderbilt University in the U.S.A.

### Staff on Study Leave

The following members of staff are on study leave:

Mr. Andrews Lawson:

Lecturer in Quantitative Methods is undertaking doctoral studies in Operations Research at the University of Strathclyde, United Kingdom.

Mr. S. A. Nkrumah:

Lecturer in Public Administration is at New York University reading for a doctorate.

Capt. R. P. K. Boateng:

Teaching Assistant in Accounting is at Columbia University, U.S.A., reading for a Master's Degree in Accounting.

Mr. Augustus Abbey:

Teaching Assistant in Management is undertaking graduate studies in Behavioural Science at the University of Arizona.

### Leave of Absence

Professor K. E. Adjei, Director of the School is on leave of absence for one year and is serving with the UNDP at Arusha, Tanzania.

### Student Numbers

F.U.E. . . . . .	74
B.Sc. (Administration) Part I . . . . .	76
B.Sc. (Administration) Part II . . . . .	83
Graduate Diploma in Accounting . . . . .	8
M.B.A. Part I . . . . .	20
M.B.A. Part II . . . . .	10
M.P.A. Part I . . . . .	6
M.P.A. Part II . . . . .	2
Diploma in Accounting Part I . . . . .	43
Diploma in Accounting Part II . . . . .	23
Diploma in Public Administration Part I . . . . .	23
Diploma in Public Administration Part II . . . . .	15

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### Management Day

In the established tradition of the School, Management Day this year was held during the lent Term on 12th March, 1976. The Guest Firm was Messrs. Lever Brothers (Ghana) Limited. It was a complete success.

### Benefactions

The School received gifts of books and other publications from various organisations and individuals both in Ghana and Overseas.

Two donations, however, need to be mentioned: These were gifts from two visiting Professors of the School—Professor Brant Bonner and Professor Holger Engberg. The books which numbered 174 from Professor Bonner and 100 from Professor Engberg, covered the fields of Management Science, Economics and International Trade.

### Holger Engberg Prize

The School, with Funds from Professor H. Engberg, a Visiting Professor, has, with the approval of the Academic Board, established a Prize Fund for undergraduates of the School in the field of Business Policy.

The first prize which is ₵50.00 is awarded to the best scholar in Business Policy—who is selected on the basis of the final examination result in the subject.

The second prize of C25.00 is awarded to the student whose performance in case discussions in class is adjudged the best.

On the basis of the above criteria the Holger Engberg Prize which took a retrospective effect from the 1974-75 year was awarded to the following undergraduates:

1. 1974-75: (i) Mr Solomon Narteh Kodjo  
(ii) Mr. Frederick Kofi Afriye.
2. 1975-76: (i) Mr. James Philip Tetteh Kofi  
(ii) Miss Joyce Appiah.

### **Other Activities**

#### **(1) Summer School On International Administration:**

*From 12-28 July*

The School of Administration organized a Summer School on International Administration for a group of students from the St. John University, Minnesota, U.S.A.

#### **(2) Seminar on Export Promotion and Development:**

*September 13-24*

The School held a seminar on Export Market Development in collaboration with the Commonwealth Secretariat through the Export Market Development Division of the Commonwealth Fund for Technical Co-operation. The Seminar which was held from 13th to 24th September was designed for officials from both the Public and Private Sectors.

The objective of the Seminar was to provide in-depth training in export market development. The following subjects among others were covered:

International Trade; international Finance; The Principles and Practices of Marketing; Market Research; International Marketing and Co-operative Marketing Systems; International Trade Financing; Transport; Economics and Commercial Intelligence.

Participants came from Gambia, Sierra Leone and Ghana.

## **INSTITUTE OF AFRICAN STUDIES**

### **Staff**

After a year's service in the Institute, Mr and Mrs Carter resigned their post at the end of the Michaelmas Term. Earlier, Mr. Ben Aning, Head of the Music Section, had left on Sabbath

ical to Jamaica, while Miss Patience Kwakwa went on secondment to the State University of New York. Dr. Christine Oppong and Dr. Kwame Arhin also left on a term's study leave during the Michaelmas term, while Professor J. H. Nketia was granted leave of absence to U.C.L.A. during the Trinity Term.

At the beginning of the year, however, new appointments were made: Professor Wole Soyinka was appointed Visiting Professor in Drama, Dr. Alphonse Tekpetey, Research Fellow in African Literature, Dr. Afari Gyan, Research Fellow in Government and Politics and Miss Aba Hayford, Research Fellow in Drama and Theatre Studies. Other appointments were: Mr. Gustav O. Twerefoo, Research Fellow in Music, Dr. Asante Darkwa, Lecturer in Music and Mr. Francis Nii-Yartey, Lecturer in Dance.

### **Students**

During the year eight students were admitted on the M.A. African Studies programme; and they participated in 12 different courses embracing the Arts and Social Sciences. Similarly, three candidates were also admitted on the Ph.D. programme, while four others from various Universities in America were offered Affiliated Research Status.

### **Conferences**

Before the beginning of the Michaelmas Term, a Conference on "African States and the Military" was organised by U.C.L.A. African Studies Centre in co-operation with the Institute of African Studies, Legon, from 18-22 August, 1975.

Shortly afterwards, the Institute in conjunction with the African Regional Secretariat of the International Music Council. UNESCO, organised a Seminar on "The Preservation and Presentation of Traditional Music and Dance". Earlier the Institute of African Studies, in co-operation with the Ghana Broadcasting Corporation, had hosted an African Music Rostrum jointly organised by the International Music Council (UNESCO) and URTNA.

Some members of the Institute also participated in a number of Conferences outside the country. In December, Dr. Alphonse Tekpetey attended a Conference on the Criticism of African

Literature at the University of Ife, Nigeria. Doctors J. K. Fynn and Irene Odotei read papers at a Conference of African Historians in Yaounde, Cameroun, and during the Lent Term Miss Aba Hayford and Professor J. H. Nketia attended a Seminar on 'African Alternatives' held under the auspices of the African Writers Association in Dakar. Mr. Talatu Mustapha also attended a Conference on the Economic History of the Central Savannah States of West Africa in Kano, Nigeria. Finally, during the Trinity Term, a Seminar on "Writing and Production of Literature for Children" was held under the joint sponsorship of the I.A.S. and the Managing Trustees, Valco Fund.

### Visitors

A number of distinguished people visited the Institute during the course of the year. They include Dr. Claude Bissel, who gave the 1976 Aggrey-Fraser-Guggisberg Memorial lectures, Mr. Jack Bornoff of the International Music Council (UNESCO), Mr. H. L. Tucker, Sierra Leone, UNESCO National Commission, Mr. and Mrs. Alioune Diop (FESTAC), Lagos and Mr. Amadu M'bow, Director-General of UNESCO. Others include Robin C. C. Law, Department of History, University of Stirling, U.K., Dr. Thieruo Noucter Bah, Association of African Historians, Dakar, the Nandom Na, Na Polku Chiiri IV, and a group of 35 Malian Teachers of English and five lecturers who were given some lectures on various aspects of the Institute.

### Benefactions

During the year, the Government of Ghana, through the Institute of African Studies, donated a new Neoplan Bus to the Ghana Dance Ensemble. Similarly, the Managing Trustees of Valco Fund have presented one Mercedes Benz Bus to the Kusum Agoromba Group of the Institute of African Studies. They have also donated ₵20,141.60 for the Children's Drama Development Project. Professor Vivian Windlay of New York donated records to the Institute and, on behalf of the Swiss Embassy, Mr. Robert Mayor presented records and Music by Swiss Composers and Artists to the Institute.

## **Extension and Other Activities**

The Children's Drama Project of the Institute was formally inaugurated by the Commissioner for Education and Culture during the Michaelmas Term.

In the Lent Term, Professor J. H. Nketia went on a two-week lecture tour of West Germany. Before that, Mr. Ben Aning had led a team of 20 musicians and dancers from the School of Music and Drama to participate in the International Festival of Youth Orchestras in Aberdeen and London. Earlier, in connection with the UNESCO Inter-Governmental Conference on Cultural Policies in Africa, held in Accra, a Leadership Art Exhibition was held at the Institute for the delegates to the Conference. It was opened by Mr. Amadu M'bow, Director-General of UNESCO.

An African Regional Secretariat of the International Music Council (UNESCO) was set up in the Institute. Professor J. H. Nketia (Director) is the chairman of the Secretariat, while Miss Chapman Nyaho and Mr. G. O. Twerefoo, both of the Institute are joint-Secretaries.

Meanwhile an Extension Service Division has been created in the Institute for the performing Arts. A Research Fellow, Mr. G. O. Twerefoo, who is also a musician, has been appointed to direct the Division. The extension Division offers courses and practical demonstration in Dance, Drama and Music to interested persons and groups on weekly basis, and is open to the public as well as members of the University Community.

## **HALLS OF RESIDENCE**

### **COMMONWEALTH HALL**

Dr. S. A. Banful was the Master of the Hall with Dr. I. K. Chinebuah as the Vice-Master.

We began 1975-76 academic year with 474 students, of whom 79 were non-Resident Students. During the year 2 went abroad as part of their courses of study.

Dr. George Benneh continued as Senior Tutor and Dr. J. K. Nsarkoh succeeded Dr. G. K. Nukunya as Deputy Senior Tutor.

Mr. J. Anquandah who was appointed in October, 1975 in

succession to Mr. J. N. O. Lamptey is currently the Bursar of the Hall.

### Hall Council

The Hall Council for 1975-76 was constituted as follows:

(i) *Ex-Officio*

Dr. S. A. Banful (Master)  
Dr. I. K. Chinebuah (Vice-Master)  
Dr. G. Benneh (Senior Tutor)

(ii) *Governing Body Representatives*

Dr. G. K. Nukunya  
Mr. J. S. Pobee  
Dr. D. A. Akyeampong  
Prof. L. A. Boadi  
Dr. Jones Ofori-Atta  
Dr. J. M. Hyde  
Dr. K. G. Erbynn  
Dr. J. A. Peasah  
Dr. J. K. Nsarkoh

(iii) *J.C.R. Representatives*

Mr. Afoko Amoak  
Mr. Dei-Kwarteng  
Mr. Wiredu Peprah

(iv) *Secretary*

Mr. J. Anquandah (Hall Bursar)

### Senior Common Room Committee

The Senior Common Room Committee members for the year were:

Dr. S. A. Banful (Master) .. .. . *Chairman*  
Mr. J. Anquandah (Hall Bursar) .. .. . *Treasurer*  
Dr. R. B. Benning .. .. . *Secretary*  
Dr. G. K. Nukunya  
Mr. R. E. Wilson  
Mr. J. S. Pobee

### Tutorial Board

The following served as members of the Tutorial Board for 1975-76:

Dr. George Benneh .. .. . *Senior Tutor (Chairman)*

Dr. J. K. Nsarkoh	..	..	<i>Deputy Senior Tutor</i>
Mr. C. K. Brown	..	..	<i>Tutor</i>
Dr. I. K. Chinebuah	..	..	<i>Tutor/Warden</i>
Dr. G. P. Hagan	..	..	<i>Tutor</i>
Dr. K. Adjei	..	..	<i>Tutor</i>
Mr. S. Opoku	..	..	<i>Tutor</i>
Mr. A. T. Konu	..	..	<i>Tutor</i>
Mr. J. K. M. Arthur	..	..	<i>Tutor</i>
Mr. A. Kwarteng	..	..	<i>Tutor</i>
Mr. K. Osafo	..	..	<i>Tutor</i>
Dr. A. Van Dantzig	..	..	<i>Hall Librarian</i>

Four Tutors were assigned special responsibilities for students affairs as follows:

Dr. J. K. Nsarkoh (Deputy Senior Tutor)	..	..	<i>Catering</i>
Dr. G. P. Hagan (Tutor)	..	..	<i>Sanitation</i>
Mr. C. K. Brown (Tutor)	..	..	<i>Sports</i>
Mr. K. Osafo (Tutor)	..	..	<i>Finance</i>

#### **J.C.R. Executives—1975-76**

##### **MICHAELMAS TERM**

<i>President</i>	..	..	..	S. N. Buatsi
<i>Vice-President</i>	..	..	..	M. A. B. K. Amidu
<i>Treasurer</i>	..	..	..	B. B. Asiedu-Amponsah
<i>Secretary</i>	..	..	..	K. T. de Graft-Johnson

##### **LENT TERM**

<i>President</i>	..	..	..	K. Bram-Larbi
<i>Vice-President</i>	..	..	..	E. Micah
<i>Treasurer</i>	..	..	..	S. B. Ayertey
<i>Secretary</i>	..	..	..	O. Gyamera-Amoako

##### **TRINITY TERM**

<i>President</i>	..	..	..	J. Effah-Dartey
<i>Vice-President</i>	..	..	..	C. Osei-Kwadwo
<i>Treasurer</i>	..	..	..	J. T. Okronipa
<i>Secretary</i>	..	..	..	D. Segbefia

Mr. S. B. Kangbere, 2nd Year Arts Student was elected Secretary to the Students Representative Council.

#### **Extra-Curricular Activities**

The Hall awarded 20 Full Colours and 24 Half Colours to students who distinguished themselves in sporting activities.

### **Academic Prizes**

The following 1974-75 F.U.E. Prizes were awarded as follows:

1. Mr. Imoru Adam (Arts Student).
2. Mr. Charles Brempong-Yeboah (Agriculture Student).
3. Mr. Seth-Nelson Kwashie Aboatche (Administration Student).
4. Mr. Augustine Adusu-Donkor (Medical Student).
5. Mr. Patrick Brobee (Medical Student).

### **Conferences and Functions**

The following were the Conferences we hosted during the year:

1. International Congress of University Adult Education—Third World Quinquennial Conference organised by Adult Education (5th-9th July, 1976);
2. Seminar on Urbanization and Rural Development in Ghana organised by Geography Department (11th-17th July, 1976).

### **St. Cecilia's Day Concert**

St. Cecilia's Day was again marked with a Choral Concert in the Hall Chapel on 22nd November, 1975. Performance was by the Ridge Church Choir, Accra and the Academy Trio composed of George K. Ogbe-Violin and Vincent Richter-Piano from the School of Music, Winneba.

### **Commonwealth Hall Day**

Commonwealth Hall Day this year was celebrated on 5th March, 1976. Among the large number of guests at the ceremony were some Commonwealth High Commissioners.

Toasts were proposed to "The Republic of Ghana" and to "The Commonwealth" by Professor D. A. Bekoe, Vice-Chancellor of the University of Ghana and His Excellency Mr. F. O. Olufolabi, Acting Nigerian High Commissioner respectively.

## **MENSAH SARBAH HALL**

We started the academic year without a substantive Hall Master. Following the resignation of Mr. S. O. Gyandoh Jr.,

as Master, Mr. T. F. Wireko-Brobby acted as Master until November 28, 1975, when the Hall Senate unanimously elected Professor W. Z. Coker, Master. Subsequently, Hall Council elected Dr. R. E. Larsen as Vice-Master for a two-year term but Dr. Larsen's term of office has had to be cut short following his resignation from the University to take up a lectureship at the University of Tuskegee in the United States. Dr. F. Andah is the new Vice-Master.

The Hall continued to be without a Bursar following the resignation of and installation of Mr. S. A. Djan as the Omanhene of the Akwapim Traditional Area. Mr. S. K. Pimpong, formerly Senior Auditor of the Government Audit Services, is the new Bursar. Dr. P. A. Twumasi was confirmed as Senior Tutor following the election of the Master.

The Hall was assigned eleven new fellows, and at the end of the session lost four as a result of resignations.

At the beginning of the year 592 students made up of 499 males and 93 females were assigned to the Hall. Apart from this number, 67 students were non-residents attached to the Hall. Six students in the Department of Modern Languages spent the session abroad.

The following academic prizes were awarded during the Sarbah Day Dinner:

Mr. J. E. Kuadah .. ..	1st Class (Administration)
Miss F. Bentoom .. ..	B.A. Part I
Mr. D. M. K. Novixoxo ..	Administration Part I
Mr. I. Wilson-Morkeh ..	Medicine 2nd Year
Mr. S. L. Atta-Krah .. ..	B.Sc. Agric. Part I
Miss C. Nortey .. ..	Drama and Theatre Studies
Mr. E. Oduro .. ..	Diploma in Agric. Part II
Miss D. Carbonu .. ..	Diploma in Nursing Education Part II
Mr. S. C. Sackey .. ..	Diploma in Public Administration Part II

This year's sporting activities came to an abrupt end due to the Inter University Games, which were held at the University of Cape Coast. Sarbah Hall was, however, leading in soccer and hockey.

The student agitation which characterised the previous year has not been evident this year. This is mainly due to the fact

that the Hall encouraged the students to develop their own discotheque in the J.C.R. wing of the Hall rather than make a bid for taking over the S.C.R. Loggia. The J.C.R. now has a splendid Disco christened "Aboogyewa Disco". It is claimed to be one of the best in town.

Sarbah Day Dinner was not as successful as in previous years. Some students who had not indicated they would attend, gate-crashed and got themselves served while some students who had paid to dine went without any food. Among the distinguished guests were Mr. E. M. Debrah, Secretary to the Supreme Military Council and Mr. Justice N. A. Ollennu.

At the beginning of the session, Mensah Sarbah Hall had been plagued with what would become of it as a result of the doubling up exercise going on in all the other Halls. The University had wished to set Sarbah Hall aside as a graduate Hall and this was stoutly resented by the students. On the recommendations of the Residence Board, the University has now agreed to seek the sum of ₵600,000 to convert the Main blocks of Mensah Sarbah Hall for double occupancy.

Balancies will be converted into study areas and additional 48 showers and 48 water-closets will be constructed. It is expected that 282 more students would be accommodated in the Hall when the exercise is completed.

## LEGON HALL

### Hall Administration

The Vice-Master, Professor J. K. M. Hodasi was appointed Acting Master on 1st February 1976 following the appointment of the Master, Professor E. Laing as Pro-Vice-Chancellor from 1st January to 30th November, 1976.

### Staff

Dr. W. A. Asomaning, the Deputy Senior Tutor, was appointed Senior Tutor to succeed Dr. K. A. Haizel, who resigned his post due to his new appointment at the University of Cape Coast. Dr. K. N. Bame also succeeded Dr. Asomaning, as Deputy Senior Tutor.

The following promotions took place in the year:

Mrs. P. K. Amegayibor .. ..	<i>Domestic Bursar</i>
Mr. J. S. K. Mensah .. ..	<i>Senior Storekeeper</i>
Mr. S. B. D. Akpan .. ..	<i>Storekeeper Grade I</i>
Mr. Adu Addo .. ..	<i>Senior Accounts Clerk</i>
Mr. E. K. Equagoo .. ..	<i>Driver Grade I</i>
Mr. George Akpan .. ..	<i>Senior Cook</i>
Mr. J. A. Adoko .. ..	<i>Chief Steward</i>
Mr. Kwasi Torsu .. ..	<i>Senior Steward</i>
Mr. Asempa Grunshie .. ..	<i>Senior Steward</i>
Mr. J. K. Atideka .. ..	<i>Senior Steward</i>
Mr. Kwasi Mensah .. ..	<i>Senior Steward</i>
Mr. Ekow Arthur .. ..	<i>Senior Steward</i>
Mr. Atinga Naga .. ..	<i>Senior Steward</i>
Mr. Frank Essiet .. ..	<i>Senior Steward</i>
Mr. Peter K. Gyan .. ..	<i>Senior Steward</i>
Mr. P. A. Nyamson .. ..	<i>Steward</i>
Mr. Daniel Tsikwa .. ..	<i>Steward</i>
Mr. E. K. Baidoo .. ..	<i>Steward</i>
Mr. Agana Biro .. ..	<i>Steward</i>
Mr. Atia Adunya .. ..	<i>Steward</i>

The following retirements also took place:

Mad. Mercy Nkansah ..	Senior Cook, after 23 years' service
Mr. Kwasi Quarshie ..	Chief Steward, after 22 years' service
Mr. Logosu Amekugi ..	Chapel Keeper, after 23 years' service
Mad. Agnes Mills ..	Senior Cook, after 15 years' service
Mad. Constance Acolatse	Cook, after 12 years' service.

Mr. Isaac Salam, the Hall Bursar, resigned his appointment after four years' service with the Hall. He will be succeeded by Mr. K. E. Agbemafe, a former junior member of the Hall.

### Students

The student population at the beginning of the session was 686 following the partial completion and take-over of a new block (Annex C) of sixty-six rooms. More students were accom-

modated at the beginning of the Lent term when all rooms in the Main Hall were converted for double occupancy. The total number of students in the Hall stood at 800, made up of 734 undergraduates and 66 graduates. Students were distributed as follows:

350	..	..	..	Main Hall
159	..	..	..	Annex A
159	..	..	..	Annex B
132	..	..	..	Annex C

Twenty students were of foreign nationality. Eleven students spent the session abroad.

### Fellows

At the beginning of the session, there were 102 Fellows. Fifteen new Fellows, including 8 former students were assigned during the year. Ten Fellows resigned their appointments with the University at the end of the session. The total number of Fellows at the end of the session was therefore 117 including 66 former Junior Members.

Another significant development was the decision of Fellows at their meeting in December 1975 to honour some past students, former Fellows and some prominent members of the community by electing them to Honorary Fellowship of the Hall. Those elected were:

Mr. G. I. Smith, former Fellow.

Professor K. A. B. Jones-Quartey, former Fellow.

Mr. Justice N. A. Ollennu, Chairman, Volta River Authority.

Mr. D. A. Chapman-Nyaho, Executive Director, Pioneer Tobacco Company

Mr. T. E. Ann, Managing Director, Ghana Commercial Bank.

Dr. S. K. B. Asante, Deputy Attorney-General.

Mr. E. A. K. Kalitsi, Volta River Authority, past student.

Dr. Hutton A. Addy, Medical Practitioner, past student.

Mr. E. A. B. Mayne, Senior Principal Secretary, Ministry of Health, past student.

Mr. J. A. Indom, Principal Secretary, Establishment Secretariat, past student.

Mr. J. B. Wilmot, Principal Secretary, Ministry of Foreign Affairs, past student.

### Hall Activities

On the 30th of January, 1976, junior members of the Hall boycotted lunch in the Main Hall dining hall in protest of an alleged cooking and serving, on several occasions of unwholesome rice. A four-man committee made up of two Hall Council Members and two Students were appointed in June 1976 to investigate and report to the Hall Council. The Report is yet to be submitted.

The Hall performed creditably in the field of Sports by winning first position in most of the competitions. It won forever the Satis Cup for the Cross-Country. It also won the Sinnadurai Shield for being the Best Sports Hall for the session.

*The Voice* did not maintain a good standard of journalism. The Editorial Board had to be disciplined by the Hall Council for publishing an article which was very defamatory.

Students who served on University Committees were:

Mensa-Bonsu, K.	..	Residence Board
Akyea, E. A. T.	..	Students Representative Council
Mireku, O.	.. ..	” ” ”
Manu, F. A.	.. ..	” ” ”
Ocansey, V. A.	.. ..	” ” ”
Oppong, C.	.. ..	” ” ”
Wadee, K. A.	.. ..	” ” ”

The Hall lost two Junior Members: Mr. C. Quartey-Papafio, a final year Arts student on 26th January, 1976 and Mr. H. T. Marbell, a first-year Diploma in Agriculture student on 25th April, 1976. In both cases, a large number of junior members and some tutors attended the burial and subsequently the Memorial Services.

The standard of sermons in the Chapel continued to be high, and, as in the past, preachers were chosen both from within and from outside the Hall. Although the Chapel Choir could not maintain the very high standard it attained in the previous year—both in the quality of singing and in numbers attending practices and services—it nevertheless successfully led singing during worship.

As a means of strengthening further the warm relations between the Hall and Volta Hall in relation to worshipping, the Hall Council approved as an experiment, the appointment of one Assistant Organist from Volta Hall, to be paid from non-Hall funds. This scholarship went to Miss Evelyn Ofori, a 2nd year Arts student. A kind donation of ₵33.00 for the scholarship was received from an anonymous benefactor. A total of ₵314.63 was contributed to the Organ Fund which now stands at ₵582.43. A total of ₵200 from chapel collections was paid to the following charitable organisations: The Society of Friends for Mentally Retarded Children, The Destitutes Home, Chorkor, Accra, and the Children's Ward of the University Hospital, Legon.

The Hall Library had a successful operation during the year. The provision of 100 new chairs in the Library and the Reading Room made it possible for more students to patronise the Library. Ninety-nine books were acquired during the session. Unfortunately response to requests to Fellows for book gifts and donations to the Hall Library was not encouraging. The Pro-Vice-Chancellor presented four books to the Library which were gratefully received. The holdings of the Library now stand at 8,785.

The Senior Common Room continued to function under the Presidency of Mr. E. A. Haizel, whose term of office expired at the end of the session. He was succeeded by Dr. E. V. Doku, an active member of the S.C.R. Committee.

Shortage of drinks considerably affected activities in the Senior Common Room. In spite of this, new metal chairs were bought and some old ones repaired. In addition new cushion covers were provided for the Senior Common Room. The Christmas Party which was held on the 22nd December 1976 was well attended. At the Annual Fellows Dinner held on 3rd July, 1976, the following Fellows were presented with tankards: Dr. K. N. Bame and Dr. S. Sinnadurai, in recognition of their ten years' service to the Hall and Mr. Isaac Salam, on his resignation from the University.

The Hall Commemoration Day Service was held on Trinity Sunday, 13th June 1976. The Guest Preacher was Rev. Major J. K. Dadson, a former Junior Member and now Anglican Chaplain to the Ghana Armed Forces. This was followed, as

usual, by the Anniversary Dinner on 24th July, 1976 and the Annual Ball on 25th July, 1976. At the Anniversary Dinner, the photograph of Professor D. A. Bekoe, third Master of the Hall and now the Vice-Chancellor, was unveiled by Professor J. A. K. Quartey, most senior assigned Fellow of the Hall.

#### *Officers of the Hall*

The Principal Officers of the Hall were:

Professor E. Laing .. .. .	<i>Master</i>
Professor J. K. M. Hodasi ..	<i>Vice-Master</i>
Mr. E. A. Haizel .. .. .	<i>President, S.C.R.</i>
Dr. W. A. Asomaning .. ..	<i>Senior Tutor</i>
Dr. K. N. Bame .. .. .	<i>Deputy Senior Tutor</i>
Mr. J. N. Kudadjie .. .. .	<i>Chapel Warden</i>
Dr. J. E. A. Mills .. .. .	<i>Librarian</i>
Mr. I. Salam .. .. .	<i>Hall Bursar</i>

Other members of the Hall Council were:

Dr. R. K. G. Assoku  
 Professor J. O. de Graft Hanson  
 Dr. Paul Lamptey  
 Professor E. N. W. Oppong  
 Dr. W. R. Phillips  
 Dr. G. E. Sydney Williams  
 Mr. B. Assasi-Gyimah  
 Mr. P. S. O. Taiwo

Tutors for the session were:

Dr. W. A. Asomaning .. .. .	<i>Senior Tutor</i>
Dr. K. N. Bame .. .. .	<i>Deputy Senior Tutor</i>
Mr. J. Akuamoah-Boateng	
Dr. R. K. Anteson	
Mr. J. K. S. Arku	
Dr. R. K. G. Assoku	
Dr. E. V. Doku	
Mr. E. Y. Egblewogbe	
Dr. P. C. Goswami	
Dr. F. N. Gyang	
Dr. R. B. Hunter	
Mr. J. K. T. Kafe	
Dr. N. K. Kofinti	
Dr. J. E. A. Mills	

Mr. K. O. Odeh  
 Dr. W. R. Phillips  
 Dr. S. Sinnadurai  
 Mr. J. P. Sping  
 Mr. J. D. Watson  
 Dr. G. E. S. Williams

The S.C.R. Committee was made up of:

Mr. E. A. Haizel . . . . . *President*  
 Dr. W. A. Asomaning  
 Dr. R. D. Baeta  
 Dr. I. V. Doku  
 Professor J. K. M. Hodas (up to 1.2.76)  
 Mr. J. K. T. Kafe  
 Mr. S. D. Mark  
 Dr. J. E. A. Mills  
 Mr. I. Salam

The Principal Officers of the J.C.R. were:

OCTOBER 1975 TO DECEMBER 1975

Mr. F. I. Selby . . . . . *President*  
 Mr. I. Boakye . . . . . *Vice-President*  
 Mr. F. Dovlo . . . . . *Secretary*  
 Mr. F. Akyeampong . . . . . *Vice-Secretary*  
 Mr. J. K. Owusu . . . . . *Treasurer*

JANUARY 1976 TO DECEMBER 1976

Mr. K. Mensa-Bonsu . . . . . *President*  
 Mr. D. Y. Dovlo . . . . . *Vice-President*  
 Mr. K. Ansa-Asare . . . . . *Secretary*  
 Mr. K. Asare . . . . . *Vice-Secretary*  
 Mr. J. J. T. Mensah . . . . . *Treasurer*

**Hall Prizes**

Hall Prizes were awarded as follows:

Mr. J. Abrokwa . . . . . *Hall Scholarship*  
 Mr. D. E. Pessey . . . . . *Hall Scholarship*  
 Mr. S. J. K. Ackota . . . . . *Hall Exhibition*  
 Mr. T. Y. Manu . . . . . *Hall Exhibition*

Mr. K. Mensa-Bonsu	..	..		<i>Hall Exhibition</i>
Mr. C. A. Avoka	..	..	..	<i>Sprott Prize</i>
Mr. F. W. K. Beecham	..	..	..	<i>Sprott Prize</i>
Mr. E. Boakye	..	..	..	<i>Sprott Prize</i>
Mr. F. Selby	..	..	..	<i>Sprott Prize</i>
Mr. C. A. Avoka	..	..		<i>Sportsman of the Year</i>
Mr. L. S. N. Akuetteh	..			<i>Outstanding Sportsman</i>
Mr. L. T. Ofosu	..	..		<i>Outstanding Sportsman</i>
Mr. J. I. Addae	..	..	..	<i>Hall Colours</i>
Mr. M. Y. O. Akrasi	..	..	..	<i>Hall Colours</i>
Mr. J. Asafu-Adjaye	..	..	..	<i>Hall Colours</i>
Mr. D. Assibu	..	..	..	<i>Hall Colours</i>
Mr. J. Dompoh	..	..	..	<i>Hall Colours</i>
Mr. S. Braimah	..	..	..	<i>Hall Colours</i>
Mr. K. Mensa-Bonsu	..	..	..	<i>Hall Colours</i>
Mr. F. S. Norgbey	..	..	..	<i>Hall Colours</i>
Mr. R. Odei-Tettey	..	..	..	<i>Hall Colours</i>
Mr. B. Owusu-Mensah	..	..	..	<i>Hall Colours</i>
Mr. S. Peter-Andoh	..	..	..	<i>Hall Colours</i>
Mr. V. K. Tsiagbe	..	..	..	<i>Hall Colours</i>

### Conferences

Conferences were organised in the Hall by the Institute of Adult Education, West African Examinations Council, Canadian University Services Overseas and General Agriculture Workers Union of the T.U.C.

### Visitors

Among distinguished guests entertained in the Hall were:

H.E. the French Ambassador, Mr. Jean Deciry.

H.E. the Soviet Ambassador, Mr. Barnov.

Mr. Rossignol, Cultural Attache, French Embassy.

Mr. Craig Baxter, Counsellor, American Embassy.

Professor B. J. Harris, Ahmadu Bello University and Ex-Fellow.

## VOLTA HALL

The session began with a number of new Hall officers. The

Warden Mrs. Kisiedu was away in Britain for the year. The Deputy Warden, Mrs. Laing, therefore acted in her place for the Michaelmas and Trinity terms. During the Lent term however, the latter was also away to Nigeria. The Hall Council arranged for Miss Asafu-Adjaye to act as Warden during her absence. There was also a new Senior Tutor and a new Librarian. Thanks to well laid down procedures and similar experiences of some of these officers however, the Hall did not suffer as a result of the changes.

The officers and members of Hall Council were as follows:

<i>Acting Warden</i>	Mrs. M. Laing (Michaelmas & Trinity Terms)
	Miss E. Asafu-Adjaye (Lent term)
<i>Bursar</i>	Mrs. G. Bentil
<i>Senior Tutor</i>	Mrs. T. Dadson
<i>Tutors</i>	Mrs. P. Amonoo
	Mrs. D. Fianu
	Dr. E. T. Blay
	Dr. E. Date-Bah
	Miss Sophia Lokko
	Ms. N. C. Nyaho
	Dr. I. Odotei
	Mrs. C. Opare-Obisaw
	Miss Angelina Oppong
	Miss E. Asafu-Adjaye (Mich. Term).
	Mrs. E. Kuenyehia (Lent and Trinity Terms).

#### Members of the Hall Council

Mrs. M. Laing/Miss E. Asafu-Adjaye—Ex officio.	
Mrs. T. Dadson	
Dr. F. Dolphyne	
Mrs. C. Bannerman	
Mrs. E. Kuenyehia	
Mrs. P. Amonoo	
Mrs. E. Posnansky	
Mrs. C. Opare-Obisaw	
Dr. E. T. Blay	
Miss P. Christian	} Student Representatives
Miss R. Gbeho	

Total number of Fellows by June 1976 was 57 as opposed to 46 at the same time last session. Associate Fellows also increased from 15 to 19.

Honorary Fellows remained two as for last year.

As a result of conversion of two of the student blocks for double occupancy the Hall was able to increase its intake at the beginning of the session to 349 from its former maximum capacity of 280. During the Lent term there was a further increase to 357 as a result of further doubling up of rooms. There were however a few withdrawals in the Trinity term (due to the fact that students on two-term courses had completed their work) and this brought the number for the term down to 354.

Of the 354 students at the beginning of the session, 181 were first year, 88 second year, 71 third year, 12 fourth year and 2 fifth year.

There were 20 foreign students. Of these 10 were Special Admission students, one was a diploma student. The remainders were degree students.

The following breakdown shows the number of students of the nationalities indicated.

Americans .. .. .	9
Benin .. .. .	1
Botswana .. .. .	1
Ivorian .. .. .	1
Cameronian .. .. .	1
Niger .. .. .	1
Sudanese .. .. .	3
Swazi .. .. .	2
Tanzanian .. .. .	1
	<hr/>
Total	20

J. C. R. Officers of the Hall were as follows:

Miss Phyllis Christian .. .. .	<i>President</i>
Miss Rosaline Gbeho .. .. .	<i>Vice-President</i>
Miss Sylvia Lartey .. .. .	<i>Treasurer</i>
Miss Evelyn Offori .. .. .	<i>Secretary</i>

Hall Prizes were awarded to the following students for their performance during the 1974-76 academic year:

1. *Special Prize*: 1st Class Honours Degree in Zoology C40.00  
*Miss Yaa Ntiamoah-Badu*
2. *McCalleen Prize*: Best Graduating Student C40.00  
*Miss Awo Quaison-Sackey*
3. *Tazelaar Prize*: Best F.U.E. Science Students C20.00  
*Miss Cecilia Coleman* C10.00  
*Miss Margaret Badu* C10.00
4. *Volta Hall Prize*: Best F.U.E. Arts Student C20.00  
*Miss Margaret Lily Hansen*
5. *Bannerman Prize*: Best F.U.E. Admin. Student C20.00  
(Degree Course)  
*Miss Grace Adzroe*
6. *Bannerman Prize*: Dip. Home Science Ext. Pt. II C20.00  
(Non-Degree Course) *Miss Rose Agbola*
7. *Special Prize*: For Distinguished Services in the Hall C10.00 each
 

Miss Esi Sutherland	.. ..	<i>J.C.R. President</i>
Miss Margaret Coleman	.. ..	<i>All-Round Helper and Athlete</i>
Miss Iris Nmai	.. ..	<i>All-Round Athlete</i>
Miss Josephine Nketia-Tabiri		<i>J.C.R. Treasurer</i>

Functions of note that occurred during the year included a Carol Service initiated by the students towards the end of the Michaelmas term. This was so well organised and so successful that it is hoped it would be a regular feature in the Hall's activities. During the Lent term, Volta Hall held its Day. To mark the occasion, there were a brass band parade, a Fanfare and a netball tournament between Fellows and students. The Trinity term saw our students in the exam mood, and so apart from the leavers dinner there was no other Hall social event.

Important visitors to the Hall during the year included Dr. Claude Bissel, the Foreign Minister of the Republic of Ivory Coast and Mr. J. M. Mwanga, Deputy Registrar of the University of Makerere, Kampala.

## AKUAFO HALL

The 1975-76 academic year witnessed the election of Rev. Professor G. Ansre as Hall Master for a five-year period. He was officially installed on the 3rd of March, 1976. Mr. S. B. Kwakwa became the Vice-Master. The following officers of the Hall retained their positions:

Dr. K. Gyekye .. .. .	<i>Senior Tutor</i>
Mr. K. Asare Opoku .. .. .	<i>Hall Chapel Warden</i>
Dr. S. K. Gaisie .. .. .	<i>President, Senior Common Room.</i>

A new post of Deputy Senior Tutor was created during the academic year to which Mr. S. N. Woode was appointed. Dr. F. S. K. Owusu was also appointed as Hall Librarian to replace Mr. C. B. K. Achampong who had resigned.

A new Hall Bursar, Mr. J. I. Haizel took up appointment with effect from 15th September, 1975.

### Hall Council

The officers of the Hall Council for 1975-76 who were also ex-officio members were:

Professor Rev. G. Ansre .. .. .	<i>Master</i>
Mr. S. B. Kwakwa .. .. .	<i>Vice-Master</i>
Dr. K. Gyekye .. .. .	<i>Senior Tutor</i>
Dr. S. K. Gaisie .. .. .	<i>President, S.C.R.</i>
Mr. K. Asare Opoku .. .. .	<i>Hall Chapel Warden</i>

The other members were:

Mr. Ofori Anyinam  
Mr. K. A. Bilson  
Dr. Kodwo Ewusie  
Mr. Kofi Nyame

J.C.R. Representatives:

Mr. S. B. Donkor  
Mr. K. Nyawoto  
Mr. J. I. Haizel, Hall Bursar and Secretary

### Tutorial Board

The following constituted the Tutorial Board of the Hall:

Dr. K. Gyekye .. .. .	<i>Senior Tutor</i>
Mr. S. N. Woode .. .. .	<i>Deputy Senior Tutor</i>
Dr. J. Songsore .. .. .	<i>Tutor</i>
Dr. S. T. Addo .. .. .	<i>Tutor</i>
Dr. J. J. Achiriga .. .. .	<i>Tutor</i>
Dr. M. C. Chaco .. .. .	<i>Tutor</i>
Dr. A. F. Aryee .. .. .	<i>Tutor</i>
Dr. Kofi Darkwa .. .. .	<i>Tutor</i>
Dr. E. O. Otchere .. .. .	<i>Tutor</i>
Dr. J. G. K. Tengey .. .. .	<i>Tutor</i>
Dr. Kodwo Ewusie .. .. .	<i>Tutor</i>
Dr. D. K. Berkoh .. .. .	<i>Tutor</i>
Dr. S. K. Britwum .. .. .	<i>Tutor</i>
Mr. Ofori Anyinam .. .. .	<i>Tutor</i>
Mr. V. O. Nortey .. .. .	<i>Tutor</i>
Mr. K. Asare Opoku .. .. .	<i>Tutor</i>
Mr. E. V. O. Dankwa .. .. .	<i>Tutor</i>

#### *Senior Common Room Committee*

Members of this Committee were:

Dr. S. K. Gaisie .. .. .	<i>President</i>
Dr. M. D. Swaine	
Mr. E. V. O. Dankwa	
Mr. S. N. Woode	

Fellows of the Hall numbered 103.

#### *Junior Common Room*

There were 704 Junior Members in the Hall during the 1975-76 academic year. 121 rooms in the Hall were converted into paired rooms during the year. A new J.C.R. Committee was elected for three terms 1975-76 academic years. The members of the Committee were:

Mr. R. Cruisckshank .. .. .	<i>President</i>
Mr. S. B. Donkoh .. .. .	<i>Vice-President</i>
Mr. M. K. B. Sekley .. .. .	<i>Secretary</i>
Mr. D. O. Attakorah .. .. .	<i>Treasurer</i>

The Glory of Legon Lodge donated 12 Dining chairs to the Hall during the year.

## Conferences, Seminars, etc.

Details of Residential Conferences held in the Hall during the year were as follows:

	Date	No. of Persons
Kumasi Brewery Limited: 6th National Sales Conference .. .. .	5-1-76—9-1-76	34
United African Company: Managers' Course .. .. .	4-4-76—15-4-76	18
Ghana Co-operative Council Limited Seminar .. .. .	18-7-76—30-7-76	50
West African Examinations Council R.S.A. Co-ordinating Meeting .. .. .	4-7-76—10-7-76	126
West African Examinations Council: G.C.E. June, 1976 Co-ordination Meeting (Non-Residential) .. .. .	18-6-76—7-7-76	260
Department of Library & Archival Studies: Seminar on Writing and Production of Literature for Children. .. .. .	5-4-76—14-4-76	60
Nurses Christian Fellowships International Conference .. .. .	3-8-76—15-8-76	150
Executive Meeting .. .. .	16-8-76—21-8-76	54
Language Centre: English Seminar for Malian Teachers .. .. .	3-7-76—24-7-76	40
Union Trading Company of Ghana: (UTC) Course for Senior Staff .. .. .	2-8-76—13-8-76	15
Institute of African Studies: Summer Course for Music, Dance & Drama Organisers from Ghana Educational Service, Arts Council of Ghana (Non-Residential) ..	2-8-76—11-9-76	45
Social Security and National Insurance Trust: Accra. Course for District Managers .. .. .	15-8-76—20-8-76	42
Ministry of Agriculture, Accra Regional Nnoboa Meeting of Maize Crop Association .. .. .	14-7-76—15-7-76	53
Social Security & National Insurance Trust: Refresher Courses for:		
(i) Inspectors Grade I, II & III ..	22-8-76—27-8-76	56
(ii) Inspectors Grade IV (1st Batch) ..	29-8-76—3-9-76	50
(iii) Inspectors Grade V (2nd Batch) ..	5-9-76—15-9-76	50

## Hall Prizes

### (a) *Students*

Hall Prizes were awarded to students who had shown high performance in academic work, sports and those who had given other kinds of services to the Hall.

### (b) *Staff*

During the year members of the Domestic Staff were also awarded prizes for efficiency in various ways:

- Best Cleaner
- Best Steward
- Best Hall Porter
- Best Cook.

A new spirit of co-operation seems to have been kindled in the Hall and we hope that this will flare up and result in greater successes in the ensuing years.

## THE BALME LIBRARY

This year saw an unprecedented increase in the student population and this has resulted in inadequate library facilities. It is therefore satisfying to note that Tenders for the construction of the new £6½ million library will be invited in October 1976.

During the year, a Technical Committee on Library Affairs was created. The Committee has studied the many problems that face the Library and has submitted a report to the authorities. We look forward to improved services in the coming year.

The supply of books and periodicals gave much cause for concern during the session but the situation now appears to be well in hand.

### Library Board

Memberships and representation on the Library Board, which met three times during the year, were as follows:

- Vice-Chancellor, Professor D. A. Bekoe (Chairman)
- Dr. M. Dakubu (Finance Committee)
- Mrs. C. O. Kisiedu (Finance Committee)
- Mr. E. V. O. Dankwa (Faculty of Law)

Miss McGrath (Faculty of Arts)  
Dr. R. B. Dadson (Faculty of Agriculture)  
Mr. S. I. A. Kotei (Faculty of Social Studies)  
Mr. S. B. Sirippi (School of Administration)  
Professor S. K. Addae (Medical School)  
Dr. W. A. Asomaning (Faculty of Science)  
Mr. Obeng Mireku (S.R.C. Representative)  
Mr. J. K. T. Kafe (Acting Librarian/Secretary)  
Mrs. N. Amenu-Kpodo (Recorder)  
Mr. F. K. Nyarko, and later Mr. Henry Dua-Agyeman,  
represented the Board on the Medical School Library  
Committee.

### Visitors

Among distinguished persons who visited the Library were:  
Madam J. C. Ferringa, Ambassador, Royal Netherlands  
Embassy, Accra; Mr. Rudolph Aggrey, U.S. Ambassador to  
the Republics of Senegal and the Gambia; Professor Claude  
Bissel, University of Toronto; Mr. Peter Judge, C.S.I.R.O.,  
Australia; Professor Charles Bourne, University of California,  
Berkeley; Professor Neelameghan, Indian Statistical Institute;  
and Dr. Bernand Blamo, President, University of Liberia.

### Exhibitions

On the occasion of the Liberation Day of Hungary, the Hun-  
garian Embassy mounted a photo exhibition in the Balme Library  
during the first two weeks of April.

### Conferences

The Careers Advice Centre in collaboration with the United  
States Information Services organised a three-day Conference  
on Counselling from 10th to 12th December, 1975. A number of  
Senior Members in the Library participated in the Conference.

The Balme Library hosted the third Meeting of the Standing  
Conference of African University Libraries, Western Area  
(SCAULWA) from April 5 to April 10. The general Conference  
theme was: *Planning and Development of African University  
Libraries*. There were 19 delegates and 13 observers. Seventeen  
papers were read, four of them by Balme Library Staff. After

much discussion, a number of resolutions and recommendations were adopted on staff matters, the role of the University libraries in National Informations systems, University Library Management and Planning.

The Council for Scientific and Industrial Research, Ghana, and the University of Arizona Office of Arid Lands Studies, U.S.A., organised a workshop on Scientific and Technical Information at the American Centre, Accra, February 23-27. Senior Members of the Library participated at the workshop.

Mr. J. K. T. Kafe, Acting Librarian, served on a Joint CSIR/NAS/IDRC Consultative Meeting on Scientific and Technical Information in Ghana, July 5-24, 1976. The group visited several institutions in the country and prepared a report for the consideration of the Executive Chairman of the C.S.I.R.

### Staff Matters

We are happy to announce the appointment of Mr. J. M. Walpole as the new University Librarian. Mr. Walpole, a Briton, is currently at the Library of the National University of Lesotho. He is expected to be at post by September, 1976.

### Other New Appointments

Mr. A. K. Martey .. ..	Assistant Librarian
J. Awoolley-Ashong ..	Account Clerk Grade I
Mr. B. A. Botchwey .. ..	Clerk Grade II
Mr. B. Ohene-Adjei ..	Library Assistant Grade III
Mr. T. K. Braimah .. ..	Library Assistant Grade III
Miss G. L. A. Kemevor ..	Library Assistant Grade III
Miss R. A. Quaidoo ..	Temporary Library Assistant Grd. II
Mrs. C. Graham de Heer ..	Temporary part-time Principal Library Assistant
Mr. M. E. Yorke .. ..	Typist Grade II
Mr. E. Addae .. ..	Messenger/Cleaner
Mr. E. Adjei Mensah .. ..	Messenger/Cleaner
Mr. J. K. Agbobli .. ..	Messenger Cleaner
Mr. C. Appiah .. ..	Messenger Cleaner
Mr. R. S. Nyanor .. ..	Messenger Cleaner
Mr. S. K. Dzreke .. ..	Messenger/Cleaner

### Resignations

- Mrs. E. S. Posnansky .. .. *Assistant Librarian*  
Mr. J. K. Boateng .. .. *Typist Grade I*  
Mr. R. A. Asante .. .. *Librarian Assistant Grade III*  
Mr. P. J. Egi .. .. *Dept. Assistant Grade III*  
Miss Regina Nyarko .. .. *Bindery Assistant Grade IV*  
Mr. Daniel Owusu .. .. *Messenger/Cleaner*  
Mr. R. A. Doku .. .. *Messenger/Cleaner*  
Mr. S. A. Darkwa .. .. *Messenger/Cleaner*  
Mr. Johnson Amegatsey .. .. *Messenger/Cleaner*  
Mr. George Bada (Clerk Grade II) resigned in January, 1976 but has been reinstated on temporary basis since April, 1976.  
Mr. S. K. Mensah .. .. *Dept. Assistant Grade III*  
Mr. E. Frimpong Darquah .. .. *Dept. Assistant Grade III*  
Mrs. M. E. Flinterman was appointed part-time Principal Library Assistant on 3rd November 1975 and resigned on 1st April, 1976.

### Promotions

- Mrs. N. Y. Amenu-Kpodo (from Assistant Librarian to Sub-Librarian).  
Mr. H. M. Ibrahim (from Principal Library Assistant to Assistant Librarian).  
Mr. F. K. Amfo (from Administrative Assistant to Senior Administrative Assistant).  
Mr. S. K. Attah (from Library Assistant Grade III to Library Assistant Grade II).  
Mr. F. K. Bakudie (from Dept. Assistant Grade II to Departmental Assistant Grade I).  
Mr. Michael Asare (from Departmental Assistant Grade III to Departmental Assistant Grade II).  
Mr. I. A. Leey (from Clerk Grade III to Clerk Grade II).  
Mr. A. O. Boamah was granted 1-year study leave to do the Certificate Course in Librarianship.

### Gifts

The Library received a number of publications from various sources—sister Universities and Corporate Bodies, foreign

governments and individuals. It is our greatest pleasure to acknowledge publicly the University's debt to all those who have added to our collections in this generous way.

Notable among the donations are the British and Netherlands Governments' continued donations to the Library on all fields. Her Excellency, the Indian High Commissioner also presented books on the culture and history of India, as did His Excellency the Japanese Ambassador to Ghana when he presented us with a set of books on Japan.

### **Bookstock**

A total of 7,972 books and bound volumes of periodicals were accessioned while 247 books were withdrawn. The grand bookstock now stands at 285,941 volumes while our current subscription to periodicals now stands at 5,162.

The following theses were accessioned during the year:

Adjei, B.: Studies on some aquatic invertebrates in a small artificial pond in the Accra plains—A vaugham Dam.

M.Sc. University of Ghana, 1974.

Adjei, H.: The relationship between Adequacy of Housing and Infection in children between the Age Range 6 months to 3 years at Akosombo and Mangoase. B.Sc. University of Ghana, 1976.

Agbetsiafa, D. K.: Supply responses of Tobacco Farmers in Ghana. M.Sc. University of Ghana, 1975.

Akotoye, N. A. K.: The biology of *Charcoma Strictigrapta hampson* (*Lepidoptera: Noctuidae*), a pod and leaf feeding pest of cocoa in Ghana, B.Sc. University of Ghana, 1975.

Allen, C. A.: Studies in the phonology of self—the language of Santrokofi. M.A. University of Ghana, 1974.

Amable, R. A.: The effects of Potassium, Calcium and Irrigation treatments on the Yield and quality of Tomatoes (*Lycopersicon Esculentum Mill*) M.Sc. University of Ghana, 1974.

Angmor, C.: New voices in Ghana: A study in the Development of Ghanaian Literary writing in English. M.A. University of Ghana, 1974.

Ben-Yunusah, M.: Islam in Gonja, M.A. University of Ghana, 1974.

- Berberich, C. W.: A locational analysis for trade routes of the Northeast Asante frontier Network in the 19th Century. Ph.D. University of Northwestern, 1974.
- Boakye-Boateng, A.: Cultural Ecology of Asante: 1702-1945. Ph.D. University of Ghana, 1974.
- Britwum, K.: *Satire, themes et technique romanesque*. Ph.D. University of Caen (France) 1975.
- Chazan, N.: *Politics and Youth Organisations in Ghana and the Ivory Coast*. Ph.D. Hebrew University, 1974.
- Chitsike, L. T.: *Aspects of Agricultural Development in Northern Ghana*, Ph.D. University of Ghana, 1975.
- Cleal, A. M.: *A comparative study of three Guan Languages: Ncurnuru, Acode and An-yanga*. M.A. University of Ghana, 1974.
- Coplan, D. B.: *Krobo Klama*. M. A. University of Ghana, 1972.
- Dodoo, S. M.: *The tax on cocoa income in Ghana*. M.Sc. University of Ghana, 1974.
- Effa-Gyamfi, E.: *Oral tradition and archaeology: A case study of the Bono State*, M.A. University of Ghana, 1974.
- Gómez, V. M.: *Factors which lead to protein calorie malnutrition in a selected group of children in the Age Group O to Five Years, at the Princess Marie Louise Hospital*, B.Sc. University of Ghana, 1976.
- Granderson, C. T. J.: *Le chef Dans le theatre Negro-Africain Depuis L'Independence*. M.A. University of Ghana, 1974.
- Bruce, H.: *The Interrelationship between Family size and the type of Education given to the children of Low Income Earners (Men) in the Ministries in Accra*. B.Sc. University of Ghana, 1976.
- Hutchful, E.: *Military rule and the politics of demilitarisation in Ghana*, Ph.D. University of Toronto, 1973.
- Iddi, M. D.: *The musketeers of the Dagbong Army-Dagban-Kambonge*. M.A. University of Ghana, 1973.
- Kumado, C. E. K.: *Customary constitutional rules and procedures for enstoolment and destoolment of a chief among the Anlo-Ewe*. LL.M. University of Ghana 1974.

- Kwakwa, P. A.: *Dance and Drama of the gods: A case study*. M.A. University of Ghana, 1974.
- Kwei, E. A.: *Coastal lagoons in Ghana and the ecology of the Blue Crab, Callinectes Latimanus (Rathbun)*. Ph.D. University of Ghana. 1974.
- Mumuni, M.: *Succession to the Nam of Yendi: A legal analysis and critique*. LL.M. University of Ghana, 1975.
- Narh, K. A.: *Studies on the surface properties of some Ghanaian diamonds*. M.Sc. University of Ghana, 1975.
- Nene-Osom, J. A.: *The effect of plant water potential on Nitrogen fixation of Soybeans*, M.Sc. University of Guelph, 1975.
- Ocloo, J. K.: *The study of the factors affecting the natural resistance of the wood of Terminalia Ivorensis*, M.Sc. University of Ghana, 1975.
- Ofori, S. B.: *The study of milk and milk substitutes in Ghana. An analysis of the alternatives*. M.Sc. University of Ghana, 1974.
- Oteng, N. K.: *Maize Marketing in a Rural area and in three Urban centres*, M.Sc. University of Ghana, 1974.
- Owusu-Bennoah, E.: *Factors affecting Absorption and Description of Phosphate in relation to its availability in some Ghanaian soils*, M.Sc. University of Ghana, 1974.
- Plahar, W. A.: *Production and properties of Full-Fat Soy four from locally-produced soybeans*. M.Sc. University of Ghana, 1974.
- Quashie-Sam, J. M.: *Child Care Arrangements provided by nurses in Koforidua for their pre-school children*. B.Sc. University of Ghana, 1976.
- Songsore, J.: *Wa town as a growth centre, 1897-1973*. Ph.D. University of Ghana, 1975.
- Strumpf, M.: *The dramatic elements of the Lodagaa funeral*. M.A. University of Ghana, 1976.
- Twum-Baah, S. L. A.: *Demographic Dimensions and Socio-Economic implications of the manpower situation in Ghana (1948-70)* M.A. University of Ghana, 1973.
- Yeboah, P. O.: *In Vitro studies on the effect of Chloroquine Phosphate on the metabolism of the Rat Reed Blood Cells*, M.Sc. University of Ghana, 1972.

Weaver, D. M.: *Kete-Krachi in the nineteenth Century: Religious and commercial centre of the Eastern Asante Borderlands*. Ph.D. Northwestern University, 1975.

### Statistics and Notes on Some Departments

#### Readers' Services

##### 1. *Registration*

(a) No. of Senior Staff Registered	..	..	480
(b) No. of Students Registered	..	..	3215
(c) No. of readers in other categories	..	..	120
(d) Total	..	..	3,815

2. *No. of books borrowed during the session* 37,280

##### 3. *Attendance (average daily)*

(a) Michaelmas Term:	..	..	..	523
(b) Lent Term:	..	..	..	829
(c) Trinity Term:	..	..	..	791
(d) Total (excluding long vacation):	..	..	..	2,143
(e) Average	..	..	..	714

##### 4. *Photo-reproduction Services*

(a) No. of microcopies ordered for storage	183
(b) No. of microcopies ordered for mutilations	22
(c) No. of microcopies serviced to local clients	5,225
(d) No. of microcopies serviced to overseas clients	756

##### 5. *Library Co-operation*

(a) No. of books loaned to local libraries:	21
(b) No. of books loaned to overseas libraries	—
(c) No. of books borrowed from local libraries	—
(d) No. of books borrowed from overseas libraries	—

#### Cataloguing Department

A total of 4149 books were catalogued, 488 titles were reprocessed. The drop in cataloguing output is the result of several factors, such as:

- (a) One Library Assistant resigned in the course of the year and was not replaced.

- (b) A very productive graduate part-timer resigned.
- (c) Non-arrival of new books suitable for processing by supporting staff.
- (d) As usual, cataloguers were often called upon to undertake other duties in other sections of the library.

### **Publications**

- (a) The Library's Manual for cataloguers which had been in preparation for some time was issued this year. Mrs. C. O. Kisiedu, ex-Chief-Cataloguer, was responsible for its compilation.
- (b) S. N. Amanquah: "International Standards Bibliographic Description [ISBD (M) and ISBD (S)]" (*In Proceedings of the Workshop on International Standards Bibliographic Description (ISBD)*, Accra Central Library, 17th-18th July, 1975, pp. 12-25).
- (c) H. Dua-Agyeman: "International Standards Book Numbering (ISBN); some explanatory notes and comments" (*In Proceedings of the Workshop on International Standards Bibliographic Description (ISBD)*, Accra Central Library, 17th-18th July, 1975, pp. 34-39).
- (d) Number 14 of the Information Sheet Series.
- (e) Four numbers of the Library's Bulletin.

### **Periodicals Department**

The Department catalogued 169 titles and prepared 2,829 titles for binding.

"List of Periodicals in the Fine Arts, Social Sciences and Humanities in the Balme Library" was published and copies are on sale at the University Bookshop. Together with the "List of Scientific and Technical Periodicals" issued in 1972, it gives a comprehensive list of our holdings. The Department also prepared two lists of Back Numbers required by the Library.

- (1) American Publications
- (2) British Publications

### **Students' Reference Library**

1,407 volumes were added to this collection. 1,274 titles were catalogued and 2,604 were borrowed during the session.

A revision of the stock of this collection was started during the long vacation with the assistance of six young graduates under the supervision of professional library staff.

### **Africana Library**

Africana is strictly a reference collection but 493 titles were "borrowed" from the Rare Book Room. An index has been prepared to volumes 2-9 of the "Legon Observer" and work has started on the preparation of indices to six other local journals.

### **Technical Services Unit**

1. No. of Books bound for the Library .. ..	359
2. No. of Books bound for other sections of the University .. .. .	31
3. No. of Periodicals bound for the Library ..	3,179
4. No. of periodicals bound for other sections of the University .. .. .	7
5. No. of pamphlets or photostats boarded (i.e. economy binding) for the library .. .. .	75
6. No. of pamphlets or photostats boarded for other sections of the University .. .. .	1,075
7. No. of theses bound .. .. .	42
8. No. of items mended .. .. .	129

Also 20 reels of microfilm (Ghanaian Newspapers) were produced and 8,807 xerox copies made.

## **CAREERS ADVICE CENTRE**

### **Staff**

Mr. Latevi-Aziaduvor, Senior Clerk of the Centre, was promoted Administrative Assistant with effect from 1st June, 1976.

The following six Senior Members were appointed part-time counsellors attached to the Centre:

- Dr. C. C. Adomakoh
- Dr. K. N. Bame
- Dr. S. A. Danquah
- Dr. C. E. Fiscian
- Dr. J. J. Lamptey
- Mr. H. C. A. Bulley

## **Changes and Developments in Programme**

Because of the National Service Scheme, the need for replacement of students on jobs directly after graduation has been removed, though dissemination of information about jobs and bringing employers and final year students in touch with each other remain an important part of the work of the Careers Advice Centre.

## **Counselling Service**

In November, 1975, a Counselling Service was introduced by the Centre in the light of the apparent growing need for more professional assistance for students for the solution of both educational/vocational, and personal emotional problems. For this Service, six Senior Members with backgrounds in Psychiatry, Psychology and Counselling were engaged as part-time counsellors attached to the Centre. Apart from Dr. Adomakoh who ran a weekly psychiatric clinic at the University Hospital and to whom many students were referred from the Centre, each counsellor was available at the Careers Advice Centre (Dr. Lamptey at the Medical School hostel) once a week on an advertised day from 4.30p. m. to 6p. m., for consultation by students. Students were free to consult any counsellor of their choice with or without reference from the Director of the Centre. They could also consult the Director.

## **Conferences and Seminars**

The Careers Advice Centre organised a successful 3-day conference on counselling in December 1975. The aim of the conference was to:

- (1) Draw attention to the need for a nation-wide counselling programme in Ghana's educational system;
- (2) survey existing counselling service;
- (3) investigate the problems of counselling and possibilities for the improvement of counselling services and
- (4) make recommendations for the organisation of a co-ordinated nation-wide counselling programme.

There were about 58 participants including representatives from the three Universities, the Ghana Education Service, Counselling co-ordinators and Headmasters of secondary

schools, the National Vocational Training Institute, Public Services Commission, Establishment Secretariat, Midwifery Training School, Korle-Bu, the National Youth Council and the Department of Labour and Social Welfare.

The occasion of the Counselling conference was used to organise a seminar for Hall officers, counsellors and other interested Senior Members to whom students may go for advice.

### Visitors

Mr. Stan Berry, an experienced educationist and Director of Admissions, Washington State University and Vice-President, American Institute of Collegiate Registrars, visited the Centre and delivered a speech on "Some Issues in Counselling—The Role of the Counsellor" on the occasion of the Counselling conference.

### Benefactions

The United States Information Services supported our Counselling conference held in December 1975 by donating films, books and cash of Eight Hundred Cedis (₵800.00).

## CENTRAL CAFETERIA

### Staff

Mrs. R. O. Acquah	<i>Senior Domestic Bursar</i>
Mr. Kwesi Aikins	<i>Senior Accounting Assistant</i>
Mrs. Nancy C. Dampsey	<i>Domestic Bursar</i>
Mr. J. K. Tsiagbe	<i>Technician (on study leave)</i>
Mr. G. A. Bobieh-Ansah	<i>Chief Baker</i>

Mrs. Rosalie O. Acquah, Senior Domestic Bursar continued to act as Cafeteria Manager.

Mr. J. K. Tsiagbe, Technician in charge of Maintenance Section was granted one-year study leave without pay with effect from 6th October, 1975. He is expected to resume duty on 1st October 1976.

Mr. G. A. Bobieh-Ansah of the Bakery Section was promoted Chief Baker; status equivalent to Technician or Administrative Assistant grade.

Few promotions and changes in salary structure involving Junior Staff were made in the Administration, Accounts Office, Stores, Maintenance, Bakery and Kitchen sections of the Central Cafeteria. In all, 12 members of the Junior Staff were affected in the exercise.

### Feeding

With the introduction of the coupon system as from 1975-76 Michaelmas Term which made it possible for a student to dine at any catering point in the University, the Central Cafeteria catered for an average of 1,000 students. In addition to the above, about 500 workers in the University took lunch daily from Monday to Friday in the Cafeteria.

### Functions

The following functions in the form of either Luncheon, Dinner or Buffet Parties were held at the Cafeteria for the following Departments and Organisations within the University and other bodies outside the University.

<i>Name</i>	<i>No. of People</i>	<i>Date</i>
The University Sports Coach	14	25-10-75
Mr. G. Y. G. Adabunu, Accra	50	30/31-10-75
Institute of Adult Education	30	25-11-75
Senior Staff Association ..	15	4-12-75
Population Dynamics .. ..	31	6-12-75
Department of Archaeology	23	17-12-75
University Bookshop ..	30	20-12-75
Department of Sociology ..	50	8-2-76
The University Sports Coach	70	20/22-2-76
The United Africa Company, Accra .. .. .	70	29-2-76
School of Administration ..	50	12-3-76
Regional Institute for Popula- tion Studies .. .. .	50	22/29-3-76
Regional Institute for Popula- tion Studies .. .. .	50	26-3-76
Registrar's Office .. ..	350	2-4-76

Department of Library Studies	16	4-4-76
Sports Council of Ghana, Accra .. .. .	25	4/14-4-76
Nursing Department .. ..	31	5/9-4-76
Balme Library .. ..	50	6-4-76
Balme Library .. ..	25	7-4-76
Mr. B. P. Acquaaah, Accra. ..	20	18-4-76
Sports Council of Ghana, Accra. .. .. .	25	20/22-4-76
The Alumni Association .. ..	50	1-5-76
Regional Inst. for Population Studies .. .. .	45	17-6-76
University Sports Coach .. ..	200	27-6-76
West African Examinations Council, Accra .. ..	200	29-6-76
West African Examinations Council, Accra .. ..	180	30-6-76
West African Examinations Council, Accra .. ..	15	9/10-7-76
West African Examinations Council, Accra .. ..	45	17-7-76
School of Administration .. ..	280	23-7-76

### Miscellaneous Services

Apart from the functions mentioned above, departmental orders for tea/coffee service, and services rendered at the Snack/Drinks Bar in the form of soft drinks, beer, beverage and snacks to students, staff and visitors were very encouraging.

## UNIVERSITY PRIMARY SCHOOL

### Enrolment

The number of children on our roll as at the end of the year were:

#### *Nursery Section:*

N. 1A	42	
1B	44	
2C	49	
2D	50	185

*Lower Primary Section:*

Class 1A	36	
1B	36	
1X	35	
2C	36	
2D	36	
2X	36	
3E	36	
3F	36	
3X	36	323

*Upper Primary Section:*

Class 4G	36	
4H	36	
4X	35	
5J	35	
5K	36	
5X	35	
6L	34	
6M	34	
6X	32	
7R	34	
7S	35	
7X	33	415
		<u>923</u>

**Staff**

At the beginning of the Michaelmas Term Mrs. Jemima Ofori-Anyinam joined the staff in place of Mr. S. Y. Asiedu whose appointment was terminated at the end of 1974-75 academic year. At the same time Mr. E. K. Quarcoo was appointed Music Teacher in place of Mr. M. A. Yamoah whose temporary appointment with the school had ended.

Mr. M. V. Arku, a Junior Teacher, resigned his appointment at the end of January, 1976. Consequently, Miss Felicia Appiah was appointed in May, 1976 to take Mr. Arku's place on the staff.

The sad and sudden death of Miss Monica Opare, a Nursery Assistant, occurred at the Korle-Bu Teaching Hospital on

29th May, 1976. Miss Opare had been with the school since December, 1963.

### **Library**

With the appointment of a Library Clerk the school library is now in full operation. All pupils are now able to borrow books throughout the week including Saturdays. There are also facilities for private reading in the library. The library now contains a little over 3,000 volumes and we are continually adding to this number with contributions of ₵1.00 per family per term from parents.

### **Curriculum Development**

This year we have sought to improve on the teaching of the Ghanaian Languages in the school. To this end we have purchased adequate numbers of Graded Readers in Fante, Twi, Ga and Ewe from the Bureau of Ghana Languages.

### **Sports**

The school's annual Inter-Sectional Athletic Competition was held on Saturday, 3rd April, 1976. The competition was very keenly contested by all the four sections in the school. At the end of the competition, Green won the over-all Championship Trophy donated by Mrs. Stella Dontoh.

Mrs. Lily Nketia kindly distributed the trophies to the winners.

### **Open Day**

The School's Open Day was on Saturday, 26th June, 1976 when large numbers of parents came to the school and inspected their children's work for the year.

### **Donations**

This year a number of parents made cash donations to the school to help purchase trophies, jerseys and sports equipment. The donors were: Mrs. Nancy de Graft-Johnson, Professor A. A. Boahen, Mr. & Mrs. A. W. Kayper-Mensah, Mr. & Mrs. P. K. K. Quaidoo, Dr. & Mrs. Kwasi Ampene, Mr. S. Y. Atsu, Mrs. Nyame, Mrs. P. K. Twumasi, Mrs. M. Osei-Boateng, Mrs. Priscilla Buckman and Mr. & Mrs. A. A. Enti, Mr. L. T. K.

Caesar donated two footballs, one volley ball, and a football inflater. Mrs. Margaret Agama donated a trophy for the girls long jump event while Mr. B. Forson sent us from the United States two trophies for the table tennis competition.

### **Flooding at the School**

During the last long vacation the drainage system was considerably improved. As a result there was no flooding at the school during the rainy season.

### **Visitors**

On 25th February, 1976 members of the Management Committee of the School, led by the Chairman, Mr. H. C. A. Bulley, visited the school on inspection. They were highly impressed not only with our work but also with the cleanliness of the compound. It should be mentioned that the cleaning of the school compound is now done every morning by the pupils.

### **Conferences**

The Headteacher, Mr. K. O. Budu-Saidu, was invited to attend a Seminar for Playwrights (Children's Drama Development Project) held at the Institute of African Studies from 3rd to 9th July, 1976. Mr. Budu-Saidu read a paper on Patterns of Aggressive Behaviour in Ghanaian Children.

### **School Associations**

Two more associations were started at the beginning of the year. These were the School Choir under our very energetic Music Teacher, Mr. E. K. Quarcoo and the Young Writers Club (Y.W.C.) under Mr. G. E. M. Ata. The other associations already in existence are the Boy Scouts and Wolf Cub Movement, the Girl Guides and Brownie Movement, the Red Cross Link, the Science Club, the Catholic Youth Organisation (C.Y.O.), the Drama Group and the Dance Group.

### **Prize-Giving Day**

The School's annual Prize-Giving Day this year was on Saturday, 17th July, 1976. Mrs. Florence Dolphyne of the Department of Linguistics was the Guest Speaker. The Chairman

was Dr. H. A. Beecham of the Medical School and Chairman of the Parent/Teacher Association and Miss Juliana Sackey of the Ghana Library Board distributed the prizes.

### Vacation School

Following the success of last year's vacation school, another one has been planned to take place from 16th August to 10th September, 1976.

## UNIVERSITY HOSPITAL

### Hospital Management Committee

The University Hospital is now governed by a Management Committee comprising the following:

Dr. M. A. Barnor	..	<i>Chairman</i>	..	Appointed by the Executive Committee on advice by the Vice-Chancellor.
Dr. F. C. Grant	..	<i>Member</i>	}	Appointed by the Vice-Chancellor in consultation with the Ministry of Health.
Miss H. Aboagye	..	<i>Member</i>		
Dr. K. K. Adjepong-Yamoah	..	<i>Member</i>	..	Appointed by the Academic Board.
Miss A. Akiwumi	..	<i>Member</i>		
Prof. J. E. Wiredu	..	<i>Member</i>		
Dr. S. A. Banful	..	<i>Member</i>	..	Senior Medical Officer
Miss Judith Grant	..	<i>Member</i>	}	Elected by the Students Representative Council.
Mr. P. T. Ulzen	..	<i>Member</i>		

This Committee meets at least three times a year to deliberate on the running of the hospital, including staff and patients' welfare.

### Senior Staff

Dr. S. A. Banful	..	..	<i>Senior Medical Officer</i>
Dr. M. K. Frimpong	..	..	<i>Medical Officer</i>

Dr. Vivian Akoto	.. ..	<i>Medical Officer</i>
Vacant	.. ..	<i>Medical Officer</i>
Mr. K. Twum-Ampofo	.. ..	<i>Hospital Secretary</i>
Miss A. McCarthy	.. ..	<i>Principal Nursing Officer</i>
Mr. Issaka Mahama	.. ..	<i>Senior Technologist</i>
Mr. A. J. Micah	.. ..	<i>Senior Pharmacist</i>
Mr. W. K. Kyere	.. ..	<i>Senior Pharmacist</i>
Mrs. M. A. Djadoo	.. ..	<i>Senior Nursing Officer</i>
Mrs. C. Dickson	.. ..	<i>Sen. Accounting Assistant</i>
Mrs. Doris Clerk	.. ..	<i>Ward Sister</i>
Mrs. W. Tedam	.. ..	<i>Ward Sister</i>
Mrs. C. Topson	.. ..	<i>Ward Sister</i>
Mrs. F. Attipoe-Nukpe	.. ..	<i>Ward Sister</i>
Mr. T. J. Ennisson	.. ..	<i>Health Superintendent</i>
Mr. E. Quaye-Kumah	.. ..	<i>Laboratory Technician</i>

### **New Appointments**

Dr. Vivian Akoto joined the Staff as a Medical Officer on 1st March, 1976 from the Ministry of Health. Dr. A. A. Impraim has also accepted appointment as a Medical Officer and will join the staff very soon.

### **Promotions**

During the year, fifteen Staff Nurses were promoted to the grade of Senior Staff Nurses. Two Senior Staff Nurses, Mrs. F. Attipoe-Nukpe and Mrs. W. Tedam were promoted to the Senior Staff Grade as Ward Sisters. Miss A. McCarthy, a pioneer employee of this Hospital was promoted Principal Nursing Officer (Matron) this year.

### **Students Health Service**

From the beginning of 1974-75 academic year, all First-Year Students had their medical examinations conducted at this hospital and not from outside hospitals as in previous years. This exercise has helped the University Medical Officers to know and to treat students with Onchocerciasis and Sickle Cell diseases and Hypertension.

### **Additional Facilities**

We had hoped that with the increase in the number of students the present students clinic would be extended to provide additional consulting room, laboratory, treatment and injection rooms, but this has not been possible. The result is that the students clinic is now congested and students spend more time at the clinic than is necessary.

There is also an urgent need for the expansion of the University Hospital to provide a Children's Ward, Isolation Ward, new Kitchen, etc.

### **Out-Patients Clinics**

The two out-patients clinics, i.e. the Students Clinic and the main hospital clinic operate on a five-day week—Monday through Friday from 8.00 a.m. to 12 noon. Emergency Clinics are conducted on Saturdays and Public Holidays. Students reporting sick during term time at the Students Clinic at the Central Cafeteria do so between 7.30 a.m. and 8.30 a.m.

### **Out-Patients Statistics**

During the period October, 1975 to July 1976 the Out-Patient Department catered for 43,392 patients. These comprised:

Students: Male .. .. .	7,496
Female .. .. .	1,080
Senior Members .. .. .	694
Senior Members' Dependants .. .. .	3,149
Senior Staff .. .. .	433
Senior Staff Dependants .. .. .	1,638
Junior Staff .. .. .	2,604
Junior Staff Dependants .. .. .	6,516
Monthly Rated .. .. .	267
Monthly Rated Dependants .. .. .	1,191
Daily Rated .. .. .	3,271
Daily Rated Dependants .. .. .	4,283
Private (Public) Patients .. .. .	10,880

### **In-Patients Department**

A total of 1,306 patients were admitted into hospital during

the period October, 1975 to July, 1976. Total number of deliveries during the same period was 343.

#### **Study Leave**

Mrs. E. M. Gaisie: Two years study leave with effect from 1st October, 1975 to do a course leading to the Diploma in Nursing Education—University of Ghana.

Miss G. Peparah: 24-months study leave with effect from 16th May, 1975 to do a course leading to State Certified Midwife at Midwifery Training School, Kumasi.

Miss Eunice Quaye: 30-months study leave with effect from 1st November 1975 to do a course leading to State Certified Midwife at St. Patrick's Hospital, Offinso-Maase.

Miss G. Aggrey: 18-months study leave with effect from 10th May, 1976 to do a course leading to State Certified Midwife at Berekum School of Midwifery.

#### **Donation**

During the year, the sum of ₵200.00 was donated to the University Hospital by Legon Lodge No. 8266 E.C. for patients and nurses welfare. The presentation was made by Mr. Justice N. A. Ollenu, Primus of the Lodge, and received by the Vice-Chancellor Professor Adzei Bekoe on behalf of the University Hospital.