

# THE ROYAL COLLEGE NAIROBI

*Incorporating the Gandhi Memorial Academy*



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Annual Report and Accounts  
for the year 1961/62



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# THE ROYAL COLLEGE NAIROBI

*with which is incorporated the Gandhi Memorial Academy*

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**Visitor:**

HIS EXCELLENCY THE GOVERNOR OF KENYA  
SIR PATRICK RENISON, K.C.M.G.

---

**Chairman:**

SIR PHILIP ROGERS, C.B.E., M.L.C.

---

**Principal:**

J. M. HYSLOP, M.A., PH.D., D.SC., F.R.S.E.

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**Bankers:**

BARCLAYS BANK D.C.O.

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**Solicitors:**

MESSRS. DALY & FIGGIS

## Foreword by The Chairman of the Governing Council

The session which has just ended has been notable in that, for the first time in its history, degree studies have been conducted in the College. The students concerned were studying for Arts, Science and Engineering degrees of the University of London, and it is hoped that a second stream of such students will be admitted next year, and that thereafter the University of East Africa will be providing its own degrees.

Throughout the session building operations were carried out according to the timetable laid down by the Council, and there is now every prospect that accommodation will be available for second-year degree studies in October. The buildings themselves have enhanced the appearance of the College grounds and the Council has every reason to be grateful not only to the Co-ordinating Architect, Mr. A. M. Chitty, M.A., F.R.I.B.A., A.M.T.P.I., but also to the local architects and contractors for carrying out their duties to such a successful completion. Mr. Greensmith, of the City Parks Department, was commissioned to lay out the grounds, and the planting of lawns, flowering shrubs and trees proceeds apace. His work has not yet been completed, but we are sure that the final result will be as pleasing to the eye as is the case with similar schemes he has undertaken in the City of Nairobi. It is already beginning to look delightful.

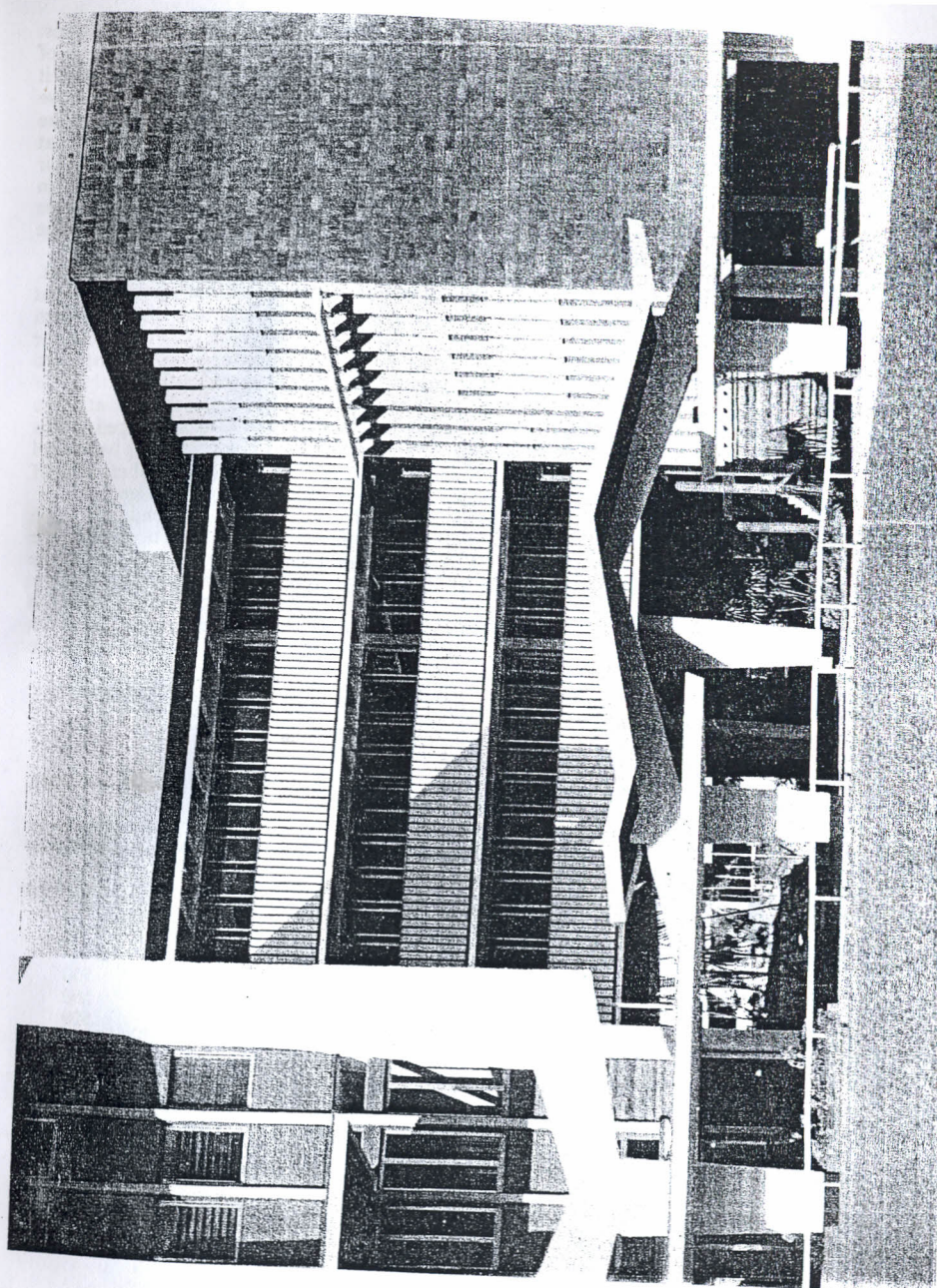
The most serious problem with which the College has been faced throughout the year has been the lack of finance for recurrent purposes, and despite the further assistance granted to the College by the East African Governments, on the recommendation of Sir Charles Morris, it has not been possible to establish adequately the academic Departments of the College. The University of East Africa has, however, invited a committee consisting of distinguished academic persons to visit the three Colleges in September, and it is hoped that as a result of their recommendations some relief from financial stringency will be provided.

When a College has to develop within a framework of inadequate finance, overwork must be the lot of many, and some degree of inconvenience suffered by all. I am happy to record that members of staff have realised the difficulties of the College and have adopted an attitude of self-sacrifice in the interests of the College as a whole.

It is with regret that I have to record the departure of Professor Gale from the service of the College. Professor Gale joined the College in 1956 and was appointed Vice-Principal and Professor of History in 1960. Prior to this date he acted as Principal from 1957 onwards, and much of the work of developing the College in its early years fell on his shoulders. His services were greatly appreciated and I am sure that all members of Council would wish to express their gratitude to Professor Gale and the hope that he will be happy in his new sphere of activity.

It gives me pleasure, on behalf of Council, to thank all members of staff for their most loyal service during the session, and I would, of course, particularly express our very warm thanks to the Principal, Dr. Hyslop. His service to the College has been quite outstanding.

PHILIP ROGERS



Main Entrance, Royal College, Nairobi, seen from the Great Court

# Principal's Report for the Session 1961-1962

The main feature of the past session was the admission in October 1961 of the first students for degree studies in Arts, Science and Engineering. The total number of such students was seventy, of whom fifteen were in the Faculty of Arts, nine in the Faculty of Science and forty-five in the Faculty of Engineering. The total student population was 415, so that degree students represented 17 per cent of the total. This proportion will rise materially when the College reaches full maturity.

The building programme proceeded according to the timetable laid down by the Building Committee, and there will be ready for occupation in October 1962 the Library, an Engineering building, a Science building which has been designed primarily for Chemistry but which will be used for the next few years both by the Physics and Chemistry Departments, also a new hostel for men students and extensions to the women's residence. In addition, a fountain in memory of the late Dr. Yajnik, who displayed great interest in the development of the College, is in the course of construction. The funds for this sculptural group were generously provided by the Gandhi Memorial Academy Society.

The College grounds have acquired a new look and the overall design reflects the skill, ingenuity and vision of Mr. Anthony Chitty, the Co-ordinating Architect. On behalf of the College I wish to record my grateful thanks to him for the excellence of his work so far undertaken. The buildings possess individual characteristics which make each architecturally pleasing in itself, but at the same time make for general harmony in the whole. The extensive building programme could only have been made possible by grants from overseas, and it is with very deep gratitude that I acknowledge the assistance the College has so far received from Colonial Development and Welfare sources. The total grant earmarked for the College development under the Colonial Development and Welfare Act was £900,000, and almost the whole of this sum has already been committed.

During the session discussions took place with representatives of Makerere University College relating to the transfer of the Faculty of Veterinary Science to the Royal College, Nairobi. At the same time attempts were made to raise a capital sum of approximately £500,000 to enable the Faculty to develop into a professionally recognised school. This very large capital sum will be met by grants from the Agency for International Development, the Rockefeller Foundation, Colonial Development and Welfare sources and the Freedom From Hunger Campaign. The Governments of Kenya and Uganda have also agreed to make contributions.

In planning the development of the Faculty of Veterinary Science, Council deemed it desirable that the pre-clinical Departments should be sited in Nairobi, and that para-clinical and clinical studies should be undertaken at Kabete. It was also considered essential that the Departments of Anatomy and Physiology should be sited in close proximity to the Departments of Botany and Zoology, and plans have therefore been prepared to construct buildings for all four Departments on the Chiromo Estate. This estate, which extends over sixty acres and which adjoins the Sports Ground, was purchased by the College by means of a grant from the Colonial Office and the interest already accrued on the sum of £100,000 which was lodged in a College Special Account by the Gandhi Memorial Academy Society. The acquisition of this land will provide the College with sufficient space to cater for the needs of over three thousand students.

The Provisional Council of the University of East Africa and its Academic Committee met on several occasions during the session and considerable progress was made towards the setting up of the University. Mr. Bernard de Bunsen, Principal of Makerere University College, was elected Vice-Chancellor Designate of the new University, and it gave great pleasure to the members and staff of this College when he received his knighthood in May. Dr. Lindsay Young was appointed Secretary of the Provisional Council and Registrar Designate of the University.

During the year the College experienced considerable difficulties with regard to recurrent finance. Most Departments were understaffed and were only able to carry out their teaching

commitments by bearing heavier loads than are normal in most university-type institutions. The prospects for the coming session do not indicate any relief from this condition of financial stringency, despite the fact that the East African Governments have found it possible to make increases in their grants to the College. The estimates for next year have had to be prepared on the basis of obtaining certain members of staff from overseas, whose emoluments will have to be met by the country of origin. It is by no means certain that such aid will be forthcoming and, if not, some Departments will be able to meet the commitments only with the greatest difficulty. The Faculty of Veterinary Science, in particular, is in a precarious condition, since the estimated expenditure is rather more than £90,000, of which approximately £70,000 can be seen to be secure income. The Faculty will therefore have to be heavily subsidised from outside East Africa.

During the months of April and May I paid a visit to the United States of America one of the objects of which was to endeavour to obtain some assistance with recurrent funds, and a programme for the secondment of staff to the College was discussed with certain universities in Northern New York State. While it is premature to state that aid in the form of seconded staff will be forthcoming, there are indications that the good will displayed by the American Universities towards the Royal College will result in some form of financial assistance. Discussions also took place with one of the Foundations relating to the organisation of an Extra-Mural Department within the College, and it is hoped in the connection to establish links with the College of Social Studies at Kikuyu. Visits were paid to several Veterinary Schools in the United States and it seems likely that members of staff drawn from these Schools will be able to take up temporary posts in the College.

The Inter-Collegiate Games, held this session in Nairobi, had to contend with such adverse weather conditions that the Opening Ceremony had to be cancelled. The programme of the actual events, however, was not affected although some of the games had to be played on flooded pitches. Makerere University College were successful by eleven points to five. Interest among both men and women students in sporting activities continued to be keen, and teams participated in several outside competitions. Development has taken place on the Football, Rugby and Cricket grounds, but completion of the work has been delayed by weather conditions.

It gives me pleasure to welcome to the College the following new Heads of Departments:

Professor D. S. Kettle, D.SC.(LONDON): Zoology.

Professor D. B. Sears, D.SC.(RAND), D.PHIL.(OXON.): Mathematics.

Mr. R. H. Nelms, F.R.I.C.S.: Quantity Surveying.

Professor Royston Jones, PH.D.(LEEDS), M.I.C.E., M.I.ST.E., A.M.T.P.I.: Civil Engineering.

Professor P. A. Robins, B.SC.(LONDON), PH.D.(LONDON): Chemistry.

I should also like to extend a welcome to the members of staff of the Faculty of Veterinary Science, who have been transferred from the staff of Makerere University College that of the Royal College, Nairobi.

I must make special mention of various grants and donations received by the College during the year under review.

Endowment Fund:	£
East African Tobacco Company Limited . . . . .	500
A. Baumann and Company Limited . . . . .	100
Magadi Soda Company Limited . . . . .	500
	£1,100
Revenue Account:	
Rockefeller Foundation (Scientific Research Grant) received up to 30th June, 1962 . . . . .	£ 5,157
Rockefeller Foundation (Veterinary School Development) received up to 30th June, 1962 . . . . .	9,965
	£15,122

#### Special Account:

Rockefeller Foundation (Economics books)	£
Rockefeller Foundation (Library Africana)	1,786
Ford Foundation (Research Library)	2,500
A.A.U.P. (Geography books)	10,593
Kenya Dairy Board (Veterinary School Library)	179
East African Tobacco Company Limited (Radio for Men's Halls)	200
Caltex (Kenya) Limited (Library: Halls)	61
Mrs. E. Thompson, E.A.W.L. (Curtains for Women's Halls)	50
	3
	£15,372

These most generous grants and donations have, of course, been suitably acknowledged on your behalf.

News has just been received of the appointment of Professor H. P. Gale as Principal of the Secondary School Teacher Training College in Zaria, Northern Nigeria. Professor Gale has been associated with the College since it opened in 1956, first as Head of the Department of History and Dean of the Faculty of Arts, and later as Acting Principal and Vice-Principal. During his term of office as Acting Principal he was responsible for the early development of the Technical College into the University College. The good wishes of the Royal College go with him to Nigeria where, I feel sure, he will be able to build a Teachers' Training College of the highest quality, serving the essential needs of this new and developing country.

It is fitting to conclude by placing on record my gratitude to all the members of staff for their loyal co-operation during a session in which, despite considerable difficulties, the College made remarkable progress.

#### ACADEMIC REPORT

##### Faculty of Art and Architecture:

The Department of Art had an intake of ten full-time students for the Diploma course in October 1961, making a total of twenty-two students. Twelve students sat for the First Examination of the Diploma in Fine Art (E.A.) and all were passed to the second year of the course.

The first Diploma Exhibition staged in the College attracted considerable interest and numerous examples of students' work were requested for outside exhibition. A first-year student, Miss Loi Kasisiri, was awarded a special prize in a national art competition and Miss Carolyn Davies, a second-year student, gained one of the Gandhi Memorial Prizes. Three senior students who had specialised in Graphic Design completed their courses and all had obtained employment in this field of Art.

In January 1962 Mr. Michael Croydon, A.R.C.A. (LONDON), took up his appointment as Lecturer in Graphic Art. Mrs. Juliet Forster resigned her appointment as part-time Lecturer in Sculpture and Ceramics and returned to England at the end of the session.

The Department is indebted to the Gandhi Smarak Nidhi Trust for their generous donation of an Offset Lithographic Proofing Press, an extremely valuable addition to the Graphic Art equipment.

In the Department of Quantity Surveying courses continued to be related to the professional examinations of the Royal Institute of Chartered Surveyors. The Quantity Surveying course continued as in the past, while provision was made for those who wished to take the General Section examinations. There were eight students in the Department, one of whom sat for the Intermediate Examination and passed subject to reference in a single subject. Eighteen students have applied for admission in 1962.

At the commencement of the session Mr. R. H. Nelms, F.R.I.C.S., took up his appointment as Head of the Department. Preparations have been made for its future role when the College forms part of the University of East Africa. Two degree courses have been planned, viz., B.A. (Land Economics) and B.A. (Quantity Surveying). The former is intended

for those who will be engaged in the planning of land use, new townships and urban development, as well as the valuation of land for taxation and other purposes. The latter degree will provide the academic training for those wishing to take up the profession of Quantity Surveyor. As a result of these changes it is proposed that the Department be re-named the Department of Land Development, so as to give recognition to the wider scope of the courses which are envisaged.

In the Department of Architecture reorganisation was necessary to include G.C.E. subjects required by some students in order to satisfy the new regulations of the R.I.B.A. Eight new and four relegated students were admitted to the three-year and new four-year Intermediate courses. Seven students sat for all or part of the Intermediate Examination of the R.I.B.A. of whom three passed in all subjects and two gained partial success.

The Final course held fourteen students at various stages. For the first time, in June 1962, the R.I.B.A. Final Examination was set and marked locally and "monitored" by the R.I.B.A. New regulations apply to this examination, and three students entered for the new Part I, of whom one passed completely and two partially. Seven students sat the whole examination, of whom two passed completely, five partially, and one sat and passed the old Part I.

As in previous years, practising architects and outside experts lent valuable help in various ways. The Department sent drawings to an exhibition entitled "Planning our Towns and Villages" at Makerere University College. The East Africa Institute's open prize for the Intermediate was awarded to Miss A. E. Jones, the Gandhi Smarak Nidhi prizes went to the late K. K. Chhaya and Mrs. K. Fearn, and the East African Section, Institution of Structural Engineers' prize was won by Mr. M. Sumar.

The session was marred by the tragic death, on the College Rag Day, of K. K. Chhaya, who was one of the most promising students in the Department.

##### Faculty of Arts:

During this session students were admitted for the first time to read for the B.A. degree. Fourteen students were able to choose three from the five subjects offered: Economics, English Literature, Geography, History and Mathematics. Twenty-three students were admitted to study for the University of London G.C.E. 'A' Level Examination in these subjects. Twenty students completed the second year of this course and sat for the examination with the following results:—

Ten candidates obtained three 'A' Level passes

Six candidates obtained two 'A' Level passes

Two candidates obtained two 'A' Level passes and one 'O' Level pass

Two candidates obtained one 'A' Level pass and one 'O' Level pass

Three students also sat 'O' Level Swahili and all three passed.

The Department of English received Mr. R. M. Goodman, B.A., on one year's secondment from the University of California, Los Angeles. Mr. D. M. Etherington, B.ECON., M.SC.(CORNELL), was appointed as a Lecturer in Economics and Mr. R. B. Ogendo, B.SC.(ABERDEEN), as a Lecturer in Geography. Mrs. E. Stock, B.A.(WALES), was appointed temporary Lecturer in English and Mr. J. Mangat, M.A.(OREGON), as temporary Assistant Lecturer in History. The Faculty was sorry to lose the services of Mr. A. H. W. MacBean, of the Department of English, who resigned to take up an appointment in Libya, and also of Mr. P. K. Lomas, Head of the Department of Economics, who took up an appointment in Australia. Mr. E. Wright was absent on study leave in the United States of America during the first term, through the courtesy of the Carnegie Corporation.

##### Publications

Publications in the Department of English for the session 1961-62 were as follows:—  
J. F. Wallwork—Translation of *The Portuguese Period in East Africa* by Justus Strandes, published by East African Literature Bureau, Nairobi, 1961.

G. D. Wing—"Tess and the Romantic Milkmaid" *A Review of English Literature*, Volume III, No. 1, 1962.

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### Faculty of Engineering:

The Faculty of Engineering has now completed its first year of the engineering degree courses, in Special Relationship with the University of London. During the session 1961-62 there were 176 students within the Faculty, of whom twenty-four were present only for a short preliminary term. In the first-year degree course there were forty-six students. In the second year. Of the twenty-seven second-year students who sat for the G.C.E. examinations, twenty passed and seven failed. There were twenty-one College Diploma students taking engineering courses and seventeen students taking professional courses in the Department of Land Surveying. Of the forty-six first-year engineering students who sat for the Part I Examination of the B.Sc. (Engineering) degree of the University of London (under Special Relationship), thirty-five qualified for entry into the second year; eleven failed but it was recommended that nine of these should be permitted to repeat the first year.

Most of the courses for the College Diploma in Engineering have ceased. These courses were of five years' duration, with a G.C.E. Ordinary Level entrance requirement. Students presented themselves for both the College Diploma Examinations and the Professional Institutions Examinations. Of the thirteen students who sat for the College Diploma, seven were awarded Diplomas in Grade II, and six passed. There were no failures. These students also sat for the examinations of the Institution of Civil Engineers, the Institution of Mechanical Engineers and the Institution of Electrical Engineers; again there were no failures, but five were referred in single subjects.

In the Department of Land Surveying eleven candidates sat the First Examination of the Royal Institute of Chartered Surveyors, of whom six passed and three were referred in single subjects. Three students sat for the Intermediate Examination and two were successful. The prize awarded by the Royal Institution of Chartered Surveyors for a Kenya candidate obtaining the highest marks in the Institution's Examination was again awarded to a Royal College student, Mr. F. Pinto.

During the year the following new members joined the staff of the Faculty:—

Mr. E. Wolfendale, B.SC.(ENGINEERING), M.I.E.E., formerly Chief Applications Engineer, Mullard Southampton Works, in charge of the Semi-Conductor Measurement and Application Laboratory, who took up his appointment as a Senior Lecturer in the Department of Electrical Engineering in December 1961.

Professor Royston Jones, M.SC.TECH., PH.D., M.I.C.E., M.I.STRUCT.E., M.I.MUN.E., A.M.T.P.I., formerly Research Professor and Director of the Post-Graduate Engineering Research Unit, University College of Ghana, who assumed his duties as Head of the Department of Civil Engineering in January 1962.

Mr. B. Grindrod, A.M.I.PROD.E., M.S.A.E., left the Department of Mechanical Engineering in June 1962 to take up an appointment with U.N.E.S.C.O. Mr. T. Bridges left the Department of Land Surveying in July 1962.

During the session Mr. H. S. Williams, Head of the Department of Land Surveying, attended a course in photogrammetry and undertook research at the International Training Centre for Aerial Survey, Holland, and Mr. R. P. Patel was awarded a Commonwealth Research Scholarship and attended McGill University. Mr. P. Campbell attended conferences on Thin Shell Structures in Delft and Brussels and also the first International Conference on Timber Structures. Mr. S. C. Aggerwal attended a colloquium of the International Association for Shell Structures held in Paris.

Building operations started on the new Civil Engineering block, which is now ready for the commencement of the 1962-63 session. This block comprises a large Hydraulics Laboratory, Soil Mechanics Laboratory, a Laboratory for Concrete Technology, drawing offices and staff rooms. These buildings were vital for the development of the Faculty of Engineering and will be fully occupied during the coming session.

### Publications (1961-62)

H. S. Williams—A Nomographic Treatment of the Cassini-Soldner Projection Correction Terms, E.S.R., Vol. XXI, No. 124, April 1962.

Theoretical Accuracy of the Church-Bartorelli Method of Orientation and Extensions of the Method, M.Sc. thesis. I.T.C. publication, Delft (Accepted).

P. Hartog—Tyranny of Survey Regulations, E.S.R., Vol. XXI, No. 121, July 1961.

Graphical Predictions for the Echo 1 Satellite from Observations at one Equatorial Position. E.S.R. (Accepted for publication).

A Method for the accurate Determination of the Nodal Period and Precession of High Altitude Earth Satellites. E.S.R. (Accepted for publication).

J. G. Olliver—A Rapid Approximation to the Standard Error. E.S.R. (Accepted for publication).

C. P. Vivian—"A Miniature Open Flume".

Civil Engineering and Public Works Review, Vol. 57, No. 669 pp. 475/76.

Royston Jones and A. R. Baker—"High Strength Bolts; The Behaviour of Structural Connexions using High Strength Bolts stressed beyond their Proof Stress". The Structural Engineer, Vol. XXXIX, No. 7, pp. 228/34.

Royston Jones—"The Correlation of Field, Laboratory and Analytical Studies of Engineering Structures".

Ghana Journal of Science, Vol. Nos. 1 and 2, pp. 55-61.

### Faculty of Science:

During the session 1961-1962 degree courses were commenced in all Departments in the Faculty of Science, and there was considerable expansion in the activities of the Faculty. Plans were drawn up for new buildings, including one major block on the main College site, destined ultimately for the Department of Chemistry, but temporarily accommodating both Chemistry and Physics. A new building for the Departments of Botany and Zoology is planned for the new Chiromo site.

Professor R. F. Naylor, who was appointed to the Chair of Chemistry from 1st January, 1961, was tragically killed in a car accident in August, leaving the Department of Chemistry without a Head. His place was taken by Professor P. A. Robins, B.SC., PH.D.(LONDON), who arrived from the University College of Rhodesia and Nyasaland, and assumed his duties on 1st June, 1962. The Faculty also welcomed Professor D. B. Sears, D.SC.(RAND), D.PHIL.(OXON.), to the Chair of Mathematics, who arrived in December 1961. The Physics Department was fortunate in obtaining the services of Mr. C. G. Wilson, M.SC., F.INST.P., for the Autumn term, who was seconded to the Department by the Royal Military College, Shrivenham. Other new members of staff to join the Faculty during the session were Mr. P. Miall, B.A., Assistant Lecturer in Physics, who arrived on 8th January, 1962, and Mr. R. B. Ogendo, B.SC., who was appointed to a Lectureship in Geography in January 1962. Mr. C. M. R. Platt, B.SC., M.SC., resigned his post as Lecturer in Physics in May, owing to ill health.

In June 1962 twenty-seven candidates from the Faculty of Science and forty-one from the Faculty of Engineering sat for the G.C.E. at Advanced Level. The results included nineteen passes in Chemistry, thirty-six passes in Physics, twelve passes in Biology and two in Geology, all at 'A' Level. At the end of the first year of degree courses in the Faculty, nine candidates sat the London Part I B.Sc. examination, under the scheme of Special Relationship with the University of London. The subjects written included Botany, Chemistry, Geography, Geology, Mathematics, Physics and Zoology, and with the exception of three failures in Mathematics and one in Physics, all were successful. In addition to these G.C.E. 'A' Level and Part I degree courses, the Faculty provided service courses in Chemistry for the Faculty of Engineering, and also in Chemistry, Physics and Zoology for the Department of Domestic Science.

The Department of Physics has received valuable assistance with its programme of research on Rock Magnetism in Africa from Professor Blackett, of Imperial College, London, who supplied some equipment for the Department and sent Mr. R. Grasty to take part in a Rock Magnetism collecting expedition in the Northern Frontier District. Mr. P. Raja, Lecturer in Physics, obtained a Commonwealth Scholarship to assist him with a study visit to Imperial College, London, and the Kenya Department of Civil Aviation provided a site on loan to the Department of Physics for their programme of ionospheric

research. In the Department of Zoology the field course for B.Sc. Part I students was held at the Kinangop in June.

Professor D. S. Kettle published a paper entitled "The Bionomics and Control of *Culicoides* and *Leptoconops*" (Ann. Rev. Ent. 7, 401-418). Mr. M. J. Coe published a "Note on the Habits of Mount Kenya Hyrax" (Proc. Zool. Soc. Lond. 138, 639-644). Professor Isaac, Head of the Department of Botany, accepted an invitation to attend a meeting of the Specialist Committee on Agricultural Botany which was held in Kampala, and Dr. Otieno was invited by the Weizmann Institute, Israel, to take part in discussions on a possible association between the East African Academy of Sciences and scientific bodies in Israel.

#### Publications

V. R. Humphrey—"The Site of Reception of Light Stimulus leading to a Negative Phototropic Response in *Avena* Coleoptiles immersed in Paraffin Oil" (Die Naturwissenschaften 20, 476, 1962).

Mr. Humphrey was on the staff of the Botany Department of the University of Cape Town at the time.

W. T. W. Morgan—

*The Two Office Districts of Central London*. Journal of the Town Planning Institute, Vol. XLVII, No. 6, June 1961, pp. 161-166.

*Office Regions in the West End of London*. Town and Country Planning, Vol. XXIX, No. 6, June 1961, pp. 257-259.

*A Functional Approach to the Study of Office Distributions: Internal Structures in London's Central Business District*. Tijdschrift voor Economische en Sociale Geografie, Vol. LII, No. 8., Aug. 1961, pp. 207-210.

*The Geographical Concentration of Big Business in Great Britain*. Town and Country Planning, Vol. XXX, No. 3, March 1962, pp. 122-124.

M. J. Coe—"Notes on the Habits of the Mount Kenya Hyrax (*Procavia Johnstoni Mackinderi* Thomas)". Proceedings Zoological Society of London, Vol. 138, pp. 639-644, June 1962.

D. S. Kettle—"The Bionomics and Control of *Culicoides* and *Leptoconops* (Diptera, Ceratopogonidae=Heleidae)". Annual Review of Entomology, Vol. 7, 1962, pp. 401-418.

#### The Faculty of Special Professional Studies:

The year 1961-1962 witnessed the termination of the full-time residential course for the Intermediate Examination of the Chartered Institute of Secretaries, which had been running since 1956-57, and the commencement of the "Sandwich" (part-time) residential course for the Final Examination of that body. The following examination results were obtained:—

(a) *Intermediate Examination (Full-time residential course)*

The Intermediate Class consisted of twenty-three students, who sat Section A in December 1961 and Section B in June 1962 with the following results:—

(i) *Section A*. Twenty students passed, giving a pass percentage of 87, which was exactly three times the world pass mark in this particular examination.

(ii) *Section B*. Sixteen students passed, giving a pass percentage of 70—some two and a half times better than world average.

(b) *Final Examinations ("Sandwich" Course)*

The Final Class consisted of thirteen students, who sat Section A in June 1962, of whom five passed, giving a pass percentage of 38.5 as against 23.6 for average world results—an improvement of some 15 per cent on world standards. As a direct result of the above examination successes, thirty-one students have been enrolled for the Final "Sandwich" course commencing in October 1962 and in this connection it is gratifying to note that this number includes eight students who left the College in 1961 and who have since completed by private study Section B of the Intermediate Examination, which they sat but failed in June 1961. The students enrolled for the academic year 1962-1963 are thus all Finalists, and all in responsible posts in commerce, industry and government, sponsored by their respective organisations and in receipt of salaries averaging some £600 per annum.

The Department of Business Administration, because of the running down of professional courses and the delay in mounting a degree in business studies, continued to act mainly as a service department for other Faculties and Departments. There was also an interruption to the series of Management Training Courses which had been provided in Nairobi during the previous four years. This was due to building conversions making residential accommodation unavailable, but two courses were organised by the Head of the Department in Uganda, and one in Tanganyika, at the request of the Federations of Employers in these territories.

During the year 1961-1962 a course in Public Administration was run for the Kenya Government. This course was attended by thirteen graduates, eleven of whom completed the course and were awarded certificates. The Department also, as a service department, provided lectures in Elements of English Law and Company Law for the Department of Accountancy, and lectures in Contract, Constitutional Law for the Department of Quantity Surveying and Land Registration, for the Department of Land Surveying.

The Department of Domestic Science admitted thirteen students in October 1961. All the students registered in 1960 reached the required standard to continue with the course. In May twelve second-year students took Housecraft, Part I examination of the School of Education, Manchester University, and all passed. Miss Burrigge, External Examiner for the Elizabeth Gaskell College at Manchester, examined the work. Nine third-year students took Housecraft, Part II of the Teacher's Certificate of the University of Manchester. All the candidates satisfied the examiners in Housecraft, Principles of Education, and Art applied to Housecraft. One was referred in both Practice of Education and in Science applied to Housecraft, two in English and one in Science applied to Housecraft. Five received their Teacher's Certificates in June 1962. Professor R. A. C. Oliver, M.A., B.ED., PH.D., examined the students in Practice of Education.

Mrs. Griffiths, who joined the staff as Miss Baron, Lecturer in Cookery, left with her husband for America at the end of the session. A week's course for teachers of Domestic Science in Secondary Schools was sponsored by the Department of Science and run in conjunction with the Ministry of Education.

#### Publications

Eva Ricketts—"Home Economics in Nairobi", published in Home Economics and Domestic Science Review.

Eva Ricketts—"Home Economics in East Africa", published in Canadian Home Economics Journal.

#### The Library:

The acquisition of material during the year proceeded rapidly and some eight thousand items were added to stock, in addition to current periodicals. Staff shortages have been serious. One Assistant Librarian moved with her husband to Nigeria, another took a post at Dar es Salaam University College and two juniors left. One Assistant Librarian joined the staff. For four months we had no Assistant Librarians on the staff at all and the partly trained junior staff carried the additional burden magnificently, although inevitably the service given suffered. During the year three trainees passed their first part of Library Association Registration Examination: two of them will leave shortly to take further training in England. In the new College year the Library will move into a new building and the whole of the stock can be displayed for public use. The Library will then also have adequate provision for reading and making microform material.

#### Women's Hall of Residence:

The activities of the Women's Halls were determined for the entire session by the extensions which have doubled our accommodation. The decision of Council to bring forward the building programme for the Women's Halls by two years was justified by an entry of fifty-seven residents, which necessitated accommodating twenty students in double-decker beds. No suitable candidate was refused a place. In addition, seventeen day students who still lack a Common Room at College, found their way up to the Halls for varying



entertaining and conferences were limited by space; but the guest wing was frequently in use for College visitors and a number of people from abroad and from Kenya came to inspect the earthworks and showed interest in this social experiment. All the Girls' High Schools and the two Training Colleges in the vicinity of Nairobi were entertained, as well as several from further afield, whose ex-pupils are now resident students. At one large and lively inter-school/College discussion representatives of the House acted as guides and gave brief talks on the work of their Faculties and the activities they hoped to pursue.

Gifts included a splendid electric kettle from Lady Twining, who made it a condition of the gift that tea cubicles should be provided in the new wings. We now have four cubicles and one kettle. Books and gramophone records have been much appreciated.

Over twenty Makerere Games representatives and their staff were accommodated in the Halls during the floods. The peak population density was ninety in bedspace for fifty-two. The cheerful way in which the Housekeeper and domestic staff coped with all hazards was exceptional. During the long vacation, the bedroom wings being completed, we were able to accommodate, at the request of Mrs. Tom Mboya who was an ex-student of the Western College, Ohio, thirty-four American women students and their staff, who were on an educational tour of East Africa. They appeared to be impressed by the facilities offered in a non-racial Hall of Residence in Africa.

Two factors militate against adequate individual study in the Halls:

- (i) the residents are too much in demand for social functions as they are still outnumbered by six to one as compared with the men;
- (ii) the O-level School Certificate entry of more than half the Hall does not provide sufficient background for independent work. For the first time there were three straight degree entries and, in time, the standard will of course rise; but examination results were indifferent.

A new development in the life of the residents has been a very general acceptance of vacation employment. This does provide the women students with extra pocket money and, in most cases, gives assistance to their homes; but it reduces still further the scant time which they give to study. With the provision of a second reading room and better study conditions in the Halls, there should be more incentive to work in the next session, without sacrificing, I trust, the obvious enjoyment of the House in its College life.

#### Men's Halls of Residence:

During the session 309 men students were accommodated in the three Halls of Residence, continuing to share one dining hall, which involved a considerable amount of overcrowding, particularly during the third term. In spite of this, however, the corporate life of the Halls developed favourably under the guidance of the Dean, the Wardens and the Resident Tutors.

Hall No. 4 was completed early in May 1962 but since the end of the term was so near and any move of the students would have involved some interruption in their studies, it was decided to leave this very fine new Hall unoccupied until the session 1962-1963.

Mr. Rodgers continued in office as Dean of the Men's Residences, ably assisted by Professor Loupekine, Mr. Vivian and Mr. Coe as Wardens, and Mr. Sale, Mr. Waruhiu and Mr. Platt as Resident Tutors. Mr. Nashon Justo was appointed Clerk-Housekeeper and carried out these duties most efficiently.

A highlight of the session was the Inter-Collegiate Games with Makerere University College in December, with the Royal College as host and, despite the pressure on accommodation, the student body cheerfully agreed to provide the necessary housing for their guests.

During most of the session the Gloucester Hall was not available for College social functions, because of building conversion, and most events took place in the men's dining hall, which placed still greater pressure upon the staff—a burden which was most willingly accepted.

#### Visitors to the College

During the session the College received a large number of visitors, among whom the following:—

Sir Willis Jackson, F.R.S.  
*Professor of Electrical Engineering, Imperial College, University of London*

Dr. J. W. Cook  
*Vice-Chancellor of Exeter University*

Dr. and Mrs. J. F. Lockwood  
*Vice-Chancellor of London University*

Mrs. Indira Gandhi

Sir Charles Morris  
*Vice-Chancellor of Leeds University*

W. L. Twining, Esq.  
*The Faculty of Law, Khartoum University*

Professor Channing Richardson  
*The Friends' Service Committee, U.S.A.*

Mr. S. B. Ngcobo  
*Ethiopia*

Mr. R. L. Senior  
*The Department of Education, Australia*

Mr. C. Y. Carstairs  
*Assistant Under-Secretary, the Colonial Office, London*

Dr. O. von Knorring  
*The Department of Geology, University of Leeds*

Mr. William Green  
*United States Coast and Geodetic Survey*

Sir Duncan Oppenheim  
*Chairman, the British American Tobacco Company*

Mr. Robert Arce  
*The United States Technical Adviser, New York, U.S.A.*

Mr. C. Ping Lee  
*U.N.E.S.C.O.*

Professor James Greig  
*The Department of Electrical Engineering, King's College, University of London*

Dr. Lloyd Jenkins  
*The Department of Chemistry, University College of Rhodesia and Nyasaland*

G. S. Roberts, Esq.  
*Chairman of the Magadi Soda Company*

Dr. H. N. Kunzru  
*Member of Parliament, India*

T. C. Colchester, Esq.  
*Kenya Students' Adviser, London*

Professor J. A. B. Gray  
*The Department of Physics, University College, London*

Dr. E. B. Worthington and Monsieur Gille  
*U.N.E.S.C.O.*

General Dore  
*Consul for Israel, Nairobi*

Dr. P. A. Mohr  
*Seismologist at the Geophysical Observatory, Addis Ababa*

R. Landcastle, Esq.  
*Commissioner for Mines and Geology, Tanganyika*

Professor B. C. King  
*The Department of Geology, Bedford College, London*

J. D. McCormack, Esq.  
*The Inter-University Council for Higher Education Overseas, London*

Professor and Mrs. Aikman  
*Professor of Law, Victoria University, Wellington, New Zealand*

Sir David Lindsay-Keir  
*Master of Balliol College, Oxford*

Dean McNown and Dean Hobson  
*The University of Kansas, U.S.A.*

Professor Wells, M.R.C.S.  
*Professor of Surgery, University of Liverpool*

Professor McClymont  
*Dean of the Faculty of Rural Science, University of New England, N.S.W., Australia*

Professor W. M. MacMillan  
*Director of Colonial Studies, St. Andrew's University, Scotland*

Professor Kizebo  
*Professor of History, the University of West Africa*

Professor Wolf Leslau  
*University College, Addis Ababa*

Professor M. S. Thakar  
*Technical Education Adviser to the Government of India  
 Chairman of the British Commonwealth Scientific Committee*

Hon. Edwin Samuel  
*Director of the Institute of Public Administration, The Hebrew University of Israel*

Dr. S. L. Prescott  
*Vice-Chancellor, the University of Western Australia*

Dr. A. L. P. Norrington  
*Vice-Chancellor of Oxford University*

Professor Gertrude Cox  
*International Institute of Statisticians, Durham, North Carolina, U.S.A.*

J. M. HYSLOP  
*Principal*

## Report on the Annual Accounts for the Year 1961-1962

- This financial year was marked by certain difficulties in estimating arising from the continued expansion of the College and the inability of the College authorities to budget on a predetermined total income. The Committee will recall that it was not until May 1962 that Governments advised the College that an additional £29,000 would be made available for the financial year as a result of Sir Charles Morris's recommendations.
- Revenue Account**  
 The Estimates for the year anticipated expenditure of £395,500: net Grants from Governments totalled £355,000 with direct College revenue of £31,000. Actual net expenditure was £389,400 with reserve provision of £5,000: £394,400 in all against total income of £386,000. The Income and Expenditure account for the year therefore shows a deficit of £8,400.

- The accumulated deficit of 30th June, 1961 of £16,848 reflects the liability of the College to pay certain contributions in lieu of rates for the years 1951-56, on which representations have been made to Governments for the necessary funds to be provided. One Government has paid its share but finality has not yet been reached with the other two and the amount therefore stands as a liability. The true accumulated deficit is about £8,000 since the rates liability will be liquidated as soon as Governments provide the necessary funds. The deficit for 1961-62 is carried forward in accordance with Council Minute 59 (a), April 1962.
- Certain reserve funds amounting to £28,800 shown in the balance sheet as at 30th June, 1961, have now been eliminated and returned to Governments following a decision communicated to the College in 1961.
- Reserves which amounted to £6,391 at June 1961, now amount to £12,160, an increase of £5,700. This figure is, in the opinion of the College Administration, totally inadequate to meet replacement needs and potential liabilities. It represents nonetheless the maximum that could be provided for the financial year in question.
- Short-term interest has resulted in a credit of £3,545 to the Income and Expenditure Account.
- Endowment Fund**  
 Grants and donations total £1,100 during the year. From a financial point of view this calls for no comment. The general report on the College for the year makes grateful reference to grants and donations received.
- Special Account**  
 The practice of showing accumulated interest against each donation has been continued. The most noteworthy aspect on Special Account is that the Gandhi Memorial Academy Society most generously agreed that accumulated interest on the balance of that Society's grant of £100,000 should be used as a contribution towards the purchase price of Chiromo Estate. The accumulated interest amounted to £33,265 and has enabled the College to purchase the Estate without undue difficulty. The balance of the purchase price, some £6,000, will be provided from interest on the Society's £100,000 before the end of 1963.
- Capital Account**  
 The item "Percentage Provision for Replacement Assets" has now ceased to appear since this, along with certain revenue balances to which reference has already been made, has been refunded to Governments. Cash at bank has been split between Grants and general College funds. The sum of £14,536 is now held on General Capital Account, an increase of some £4,700 arising exclusively from interest on short-term deposits. The College will be receiving Final Accounts on many of its capital works before the end of the current financial year and it seems probable that certain calls for excess expenditure will have to be met from this general balance. In addition, in all our capital schemes unforeseen elements may well arise which can only be met from College resources.
- General**  
 I must again record thanks for the work of the College Auditors and for their constructive suggestions.
- Acknowledgments**  
 I should like to record my appreciation of all the assistance that has been given, not only by members of the Department, but also by the whole staff of the College who have been most understanding of the financial difficulties with which we continue to be faced.

J. R. TOVELL  
*Incorporated Accountant, F.I.M.T.A.  
 Finance Officer*

# THE ROYAL YEGE, NAIROBI

*Incorporating the Memorial Academy*

Balance Sheet 0th June, 1962

(being a summary of the Balance Sheets)

	£ Shs. Cts.	£ Shs. Cts.
<b>CAPITAL ACCOUNT</b>		
Grants, Interest Received, Capitalised Expenditure and Gifts . . . . .	2,010,189 06.72	
Mortgage Loans . . . . .	<u>9,132.03.35</u>	
		2,019,321.10.07
<b>SPECIAL ACCOUNT</b>		
Donations received for Specific Purposes and Accumulated Investment Income . . . . .	<u>122,542.16.77</u>	
		122,542.16.77
<b>ENDOWMENT FUND</b>		
Grants and Donations Received . . . . .	<u>26,044.14.97</u>	
		26,044.14.97
<b>REVENUE ACCOUNT</b>		
Current Liabilities . . . . .	181,887.18.65	
Revenue Grants unspent . . . . .	<u>13,401.17.90</u>	
		195,289.16.55
	<u>£2,363,198 18.36</u>	

J. M. HYSLOP—Principal

Dated at Nairobi  
This 4th day of December, 1962

	£ Shs. Cts.	£ Shs. Cts.
<b>CAPITAL ACCOUNT</b>		
Land . . . . .	134,975.15.02	
Buildings . . . . .	1,464,318.14.02	
Furniture, Equipment, Plant and Vehicles . . . . .	307,075.05.24	
Library . . . . .	4,130.15.54	
Current Assets . . . . .	<u>108,821.00.25</u>	
		2,019,321.10.07
<b>SPECIAL ACCOUNT</b>		
Investments at Cost . . . . .	110,668.12.50	
Post Office Savings Bank . . . . .	154.14.17	
Current Assets . . . . .	<u>11,719.10.10</u>	
		122,542.16.77
<b>ENDOWMENT FUND</b>		
Investments at Cost . . . . .	26,044.00.00	
Cash . . . . .	<u>14.97</u>	
		26,044.14.97
<b>REVENUE ACCOUNT</b>		
Stores . . . . .	9,171.13.40	
Debtors . . . . .	65,783.19.65	
Short-term Deposits . . . . .	95,005.00.00	
Cash . . . . .	77.04.89	
Accumulated Deficit at 30th June, 1962 . . . . .	<u>25,251.18.61</u>	
		195,289.16.55
	<u>£2,363,198.18.36</u>	

J. R. TOVELL, Finance Officer  
*Incorporated Accountant, F.I.M.T.A.*

DUNSTAN ADAMS, MAY AND STORY  
*Chartered and Incorporated Accountants*

We have examined the above summarised Balance Sheet and the attached detailed Balance Sheet and have obtained all the information and explanations we have required. In our opinion the Balance Sheets are properly drawn up so as to exhibit a true and correct view of the state of the College at the end of the year ending to the best of our information and the explanations given to us and as shown by the books and vouchers.

# THE ROYAL EGE, NAIROBI

*Incorporating the Memorial Academy*

## CAPCOUNT

Balance Sheet 30th June, 1962

	£	Shs.	Cts.	£	Shs.	Cts.		£	Shs.	Cts.	£	Shs.	Cts.
<b>CAPITAL</b>													
Balance at 30th June, 1961				1,410,136.	08.	88							
<i>Add: Grants</i>													
Colonial Development and Welfare Funds	549,229.	16.	28										
Rockefeller Foundation	33,285.	01.	67										
Gandhi Memorial Academy Society	33,265.	00.	18										
				615,779.	18.	13							
<i>Interest</i>													
Received on Short-term Deposits				4,756.	03.	05							
<i>Gifts</i>													
Received from Donors				265.	03.	00							
<i>Expenditure Capitalised</i>													
Revenue Contribution to Capital				11,553.	02.	22							
				2,042,490.	15.	28							
<i>Less: Depreciation of Furniture and Equipment (10%)</i>				32,301.	08.	56							
				2,010,189.	06.	72							
<b>MORTGAGE LOANS</b>													
Kenya Building Society	6,332.	03.	35										
South African Mutual Life Assurance Society (Secured by a charge on three staff houses)	2,800.	00.	00										
				9,132.	03.	35							
				<u>£2,019,321.</u>	<u>10.</u>	<u>07</u>							
<b>FIXED ASSETS</b>													
LAND (freehold and leasehold)—at cost											134,975.	15.	02
BUILDINGS—at cost								1,074,863.	10.	10			
<i>Add: Building and Development in Progress—at cost</i>								389,455.	03.	92			
								<u>1,464,318.</u>	<u>14.</u>	<u>02</u>			
<b>FURNITURE AND EQUIPMENT—at cost</b>								352,292.	08.	80			
<i>Less: Accumulated Depreciation</i>								61,579.	10.	65			
								<u>290,712.</u>	<u>18.</u>	<u>15</u>			
<b>GAS PLANT—at cost</b>								11,742.	18.	39			
<b>MOTOR VEHICLES—at cost</b>								4,619.	08.	70			
											307,075.	05.	24
<b>LIBRARY (Exclusive of Gifts)</b>											4,130.	15.	54
											<u>1,910,500.</u>	<u>09.</u>	<u>82</u>
<b>CURRENT ASSETS</b>													
<i>Cash at Bank—</i>													
Colonial Development and Welfare Funds	70,033.	13.	33										
Rockefeller Foundation Funds	24,220.	10.	63										
General	14,536.	06.	31										
American Wing	30.	09.	98										
											<u>108,821.</u>	<u>00.</u>	<u>25</u>
											<u>£2,019,321.</u>	<u>10.</u>	<u>07</u>

*Note:* Title Deeds have not yet been issued for the land on which the Main Tuition Buildings, Assembly Hall and Engineering Workshop are situated, nor have they been issued in respect of the land in the Hospital Hill area on which the Halls of Residence and the Staff Flats.

# THE ROYAL G.E.G., NAIROBI

Incorporating the Memorial Academy

## SPECOUNT

Balance Sheet 30th June, 1962

	£	Shs.	Cts.	£	Shs.	Cts.
SPECIAL ACCOUNT (Donations for specific purposes received to date)						
<b>DONATIONS</b>						
GANDHI MEMORIAL ACADEMY SOCIETY						
Balance of Grant remaining . . . . .				100,000		
<i>(Note: After transferring all accumulated interest amounting to £33,265.00.18 to Capital Account as a contribution towards the purchase price of the Chiromo Land)</i>						
EAST AFRICAN RAILWAYS AND HARBOURS ADMINISTRATION						
Donations . . . . .		6,000	00			
Add: Accumulated Interest . . . . .			370		18	54
				6,370	18	54
SHELL COMPANY OF EAST AFRICA LTD. AND B.P. (E.A.) LTD.						
Donations less expended . . . . .				827	18	82
R. G. AMIN BURSARY						
Bursary Fund . . . . .		521	00			
Accumulated Interest . . . . .			170		03	07
				691	03	07
M. M. BHATT TRUST FUND						
Trust Fund . . . . .		500	00			
Accumulated Interest less distributed as prizes . . . . .			119		07	50
				619	07	50
OTHER DONATIONS LESS EXPENDED						
Sundry . . . . .		894	10		78	
Rockefeller Foundation (Economics books) . . . . .			803		02	40
Rockefeller Foundation (Library Africana) . . . . .			1,955		13	00
Ford Foundation (Research Library) . . . . .			10,380		02	66
				14,033	08	84
				<u>122,542</u>		<u>16</u>
						<u>77</u>

£122,542.16.77

### INVESTMENTS AT COST

£	Shs.	Cts.		£	Shs.	Cts.
£51,000	0	0	5%	50,495	00	00
£ 318	2	6	4½%	325	00	00
£10,000	0	0	5½%	9,778	02	50
£ 5,000	0	0	4½%	4,450	00	00
£10,000	0	0	3½%	7,962	10	00
£ 5,000	0	0	3½%	4,087	10	00
£ 9,800	0	0	6½%	9,508	00	00
£25,000	0	0	6½%	24,062	10	00
				<u>116,118</u>		<u>2 6</u>

£ Shs. Cts.

£ Shs. Cts.

(Market value of Investments at 30th June, 1962, amounted to £80,760)

Post Office Savings Bank . . . . .

154.14.17

110,823.06.67

### CURRENT ASSETS

Tax refundable . . . . .		2,332	05	60		
Cash at Bank . . . . .			9,387	04	50	
				<u>11,719</u>		<u>10</u>
						<u>10</u>

11,719.10.10

*Note: The total investment income received and allocated to individual funds amounted to £6,135.10.41 (Gross).*



# THE ROYAL YEGE, NAIROBI

*Incorporating the Memorial Academy*

## REVECOUNT

Balance Sheet 30th June, 1962

	£ Shs. Cts.	£ Shs. Cts.		£ Shs. Cts.	£ Shs. Cts.
<b>CURRENT LIABILITIES</b>			<b>ASSETS</b>		
Sundry Creditors, Provisions and Reserves . . . . .	119,475.18.33		<i>Stores</i>		
Bank Overdraft . . . . .	62,412.00.32		On hand at cost or lower valuation . . . . .		9,171.13.40
		181,887.18.65	<i>Debtors</i>		
<b>REVENUE GRANTS UNSPENT</b>			Sundry Debtors, Deposits, and Payments in Advance . . . . .		65,783.19.65
Being portion of various grants receivable from the Rockefeller Foundation unspent at 30th June, 1962 . . . . .		13,401.17.90	<i>Short-term Deposits</i>		
			United Dominions Trust . . . . .	18,000.00.00	
			Credit Finance Corporation Ltd. . . . .	50,000.00.00	
			Kenya Building Society . . . . .	5.00.00	
			Crown Agents . . . . .	27,000.00.00	
					95,005.00.00
			<i>Cash</i>		
			Crown Agents . . . . .		77.04.89
			<b>INCOME AND EXPENDITURE ACCOUNT</b>		
			Accumulated deficit at 30th June, 1961 . . . . .	16,848.11.56	
			<i>Add:</i> Deficit for the year ended 30th June, 1962 . . . . .	8,403.07.05	
					25,251.18.61
			Accumulated deficit at 30th June, 1962 . . . . .		
		<u>£195,289.16.55</u>			<u>£195,289.16.55</u>

# THE ROYAL COLLEGE, NAIROBI

*Incorporating the Memorial Academy*

Income and Expenditure Account for the year ended 30th June, 1962

	£	Shs. Cts.
EXPENDITURE (Recurrent and Non-recurrent)		
Academic Expenditure	259,660.01	.44
Administrative Expenses (including non-departmental charges)	124,540.11	.20
Students and Other Charges	51,457.00	.31
	435,657.12	.95
	£435,657.12	.95
Balance brought down	360,189.09	.40
Fees and charges irrecoverable	233.00	.00
Reserves and Provisions	5,000.00	.00
	£365,422.09	.40
	£365,422.09	.40
Gross deficit brought down	365,185.05	.00
	£365,185.05	.00

	£	Shs. Cts.
INCOME		
<i>Fees receivable</i>		
Full-time Students—Tuition	19,138.00	.00
—Residence	44,110.16	.68
	63,248.16	.68
Part-time Students		191.14
Local examinations		3.00
<i>Rents and Hire Charges Receivable</i>		
Staff Flats and Houses	5,349.11	.86
Main Tuition Building and Assembly Hall	8.15	.00
	5,358.06	.86
<i>Catering Sales (Refectory)</i>		1,663.01
<i>Interest Receivable</i>		
Endowment Fund Investments	1,260.03	.90
Staff Loans	198.01	.73
Net short-term Interest	3,544.18	.90
	5,003.04	.53
TOTAL INCOME	75,468.03	.55
Balance carried down	360,189.09	.40
	£435,657.12	.95
		£ Shs. Cts.
College Contributions forfeited by ex-members of the College		
Provident Fund Scheme	237.04	.40
Gross deficit carried down	365,185.05	.00
	£365,422.09	.40
		£ Shs. Cts.
Grants receivable for Recurrent and Non-recurrent expenditure		
<i>Territorial Governments</i>		
Kenya	179,247.00	.00
Uganda	114,182.00	.00
Tanganyika	58,644.00	.00
Zanzibar	3,000.00	.00
	355,073.00	.00
<i>Rockefeller Foundation</i>		
(Portion of Grants utilised)		
Scientific Research Grant	136.17	.74
Veterinary School Development	1,572.00	.21
	1,708.17	.95
Net deficit	356,781.17	.95
	8,403.07	.05
	£365,185.05	.00



UNIVERSITY OF EAST AFRICA  
THE ROYAL COLLEGE  
NAIROBI

*Incorporating the Gandhi Memorial Academy*



Annual Report and Accounts  
for the year 1962/63

UNIVERSITY OF EAST AFRICA  
THE ROYAL COLLEGE  
NAIROBI

*with which is incorporated the Gandhi Memorial Academy*

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**Visitor:**

HIS EXCELLENCY THE GOVERNOR OF KENYA  
SIR PATRICK RENISON  
(Until December, 1962)

HIS EXCELLENCY THE GOVERNOR OF KENYA  
THE RT. HON. MALCOLM MACDONALD  
(Appointed June, 1963)

**Chairman:**

SIR PHILIP ROGERS, C.B.E., M.L.C.  
(Until January, 1963)

B. M. GECAGA  
(Appointed January, 1963)

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**Principal:**

J. M. HYSLOP, M.A., PH.D., D.SC., F.R.S.E.

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**Bankers:**

BARCLAYS BANK D.C.O.

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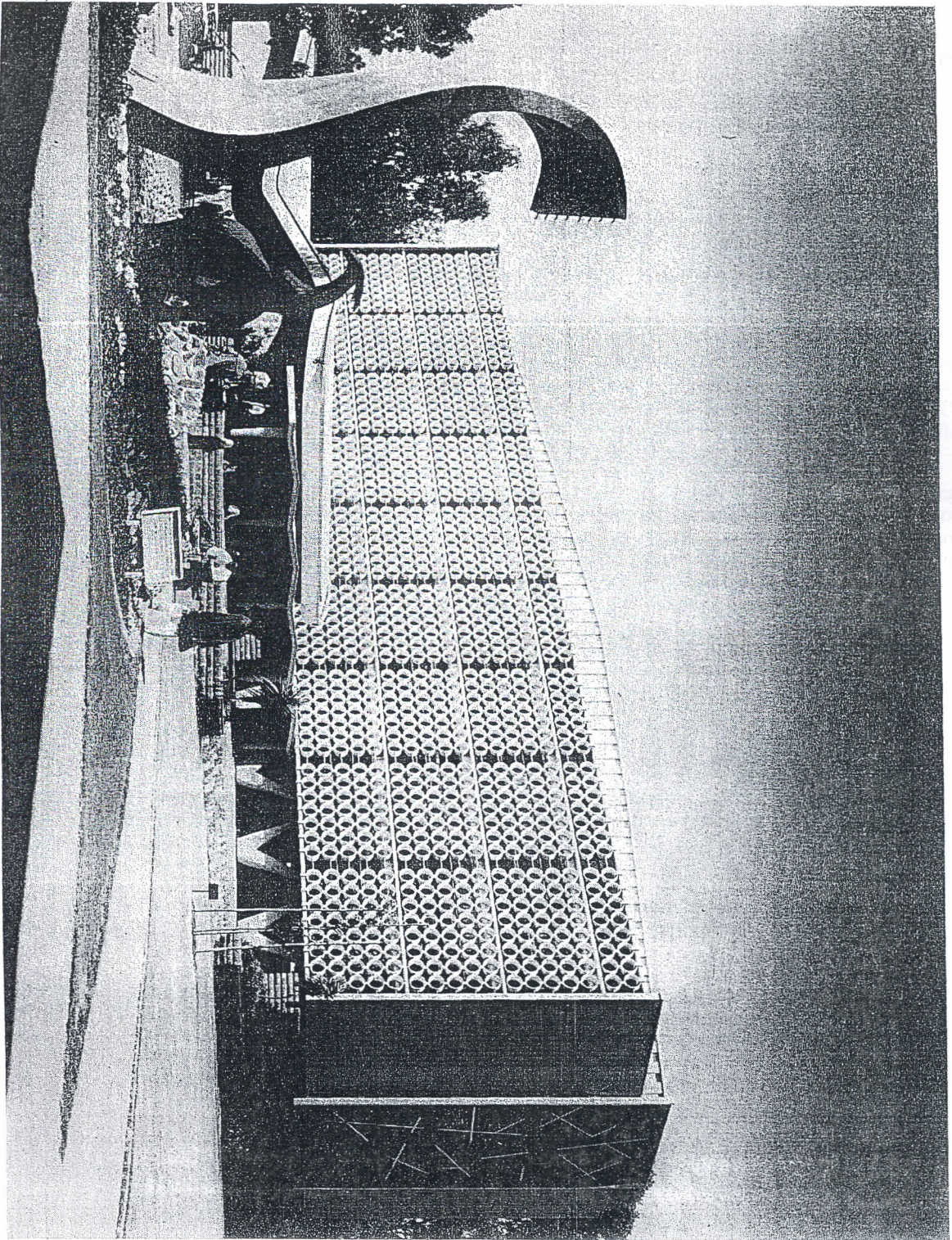
**Solicitors:**

MESSRS. DALY & FIGGIS

# Annual Report 1962/63

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*Hyslop Building (Physics and Chemistry Block) with Yajnik Fountain in the Foreground*

# Foreword by The Chairman of the Governing Council

It gives me much pleasure to write this foreword. However, I must hasten to add that part of it, at any rate, is written on behalf of my predecessor, Sir Philip Rogers, from whom I took over in January 1963. The College owes a great debt of gratitude to Sir Philip for his energetic and able Chairmanship over the vital period when the Royal Technical College was being transformed into a university institution. Although ahead of us lie much work to be done and many problems to solve before the College is fully developed, we are fortified by the knowledge that the foundations have been well laid.

The loss of the Chairman came in a session of particularly heavy losses in the senior direction of the College, for there was a change in every one of the statutory offices: changes of Visitors, Chairman, Vice-Chairman, Principal, Vice-Principal, Registrar and Bursar. But perhaps the heaviest loss of all is that of the Principal, Dr. J. M. Hyslop, on appointment to the Vice-Chancellorship of Rhodes University. He shared with Sir Philip the task of transforming the Royal Technical College, and to his great drive and vision, to which I can myself testify, the College owes much of its academic success which, as I have learned during my visits abroad on behalf of the College, is already apparent. It was a great pleasure that the new Chemistry Block has been named the Hyslop Building.

By the beginning of the session, the College had taken over the magnificent series of new buildings presented to us by the British Government which in 1961 made a most generous grant of £1,200,000. Great credit is due to our architects for producing a general effect which all are agreed is a worthy addition to the architectural beauty of the City of Nairobi.

Also we have been proud and delighted to welcome to the College from Makerere the Faculty of Veterinary Science, now being rapidly enlarged with the aid of splendid gifts, from the United States and also from the Federal German and the British Governments. It is a particular pleasure to me to welcome to this Faculty seconded teams from the Universities of Geissen and Glasgow, forerunners, I hope, of many fruitful associations with overseas universities.

In the midst of all these changes, the College was also preparing to enter the University of East Africa, whose Chancellor, Mwalimu Julius Nyerere, was, to our great satisfaction, installed here at the Royal College. The emergence of the University is an event of great significance, but not without its problems which, however, under the devoted leadership of the Vice-Chancellor, Sir Bernard de Bunsen, will, I am confident, be overcome.

From my own all too brief connection I have drawn the firm conviction that we have in our College here an instrument of the utmost importance for the future of East Africa and the development of Kenya, now clearly set upon its own East African course, which will, in the years ahead, meet the needs of East Africa under the rapidly increasing responsibility of East Africans. I believe that it will demonstrate to the world that we are capable both of rapid development and of winning the academic respect and acceptance of the international community of universities.

Finally, on behalf of Council, I would like to thank all members of staff for their loyal and devoted service during the session.

B. M. GECAGA

UNIVERSITY OF EAST AFRICA  
THE ROYAL COLLEGE, NAIROBI

*Incorporating the Gandhi Memorial Academy*

## Principal's Report for the Session 1962/63

The total student population during the Session was 450, of whom 152 were studying for degrees in the Faculties of Arts, Science and Engineering. The proportion of degree students has therefore risen from 17 per cent in 1961/62 to 34 per cent in 1962/63. It had been decided last Session that the College would no longer admit students for studies at School Certificate level, but owing to the severe shortage of those applying for admission into the Faculty of Science, and through the generosity of the Ford Foundation which provided considerable subvention, approximately 18 students were admitted to this Faculty with a view to qualifying in two principal level subjects in June 1964.

A decision was taken by the University during the course of the Session to mount degree studies at the College in Architecture and Commerce next year. For the former, admission will be at School Certificate level and the course will extend over five years, while for the latter the entrance requirements and the length of the degree course will conform to that already in existence in the Faculties of Arts and Science. At the time of writing there is a prospect of an enrolment of over 20 to the B.Com. degree course.

The Faculty of Veterinary Science was incorporated into the College at the beginning of the Session and it is gratifying to note that the problems of the transfer of the Faculty from Makerere University College to the Royal College were solved in a spirit of complete harmony and co-operation. The enrolment in the Faculty of Veterinary Science was disappointingly low but this was due to a variety of factors beyond the control of the College, and a considerable number of students will qualify for admission next year.

The main event of the Session was the inauguration of the University of East Africa and the installation of its first Chancellor, President Julius Nyerere. The ceremony took place in Nairobi on 28th June and was attended by a large gathering, representative not only of various organisations in East Africa but also of Universities overseas. It was particularly gratifying that one of the principal guests was the Vice-Chancellor of the University of London, with which institution the Royal College has been, and still is, in Special Relation. The debt which the constituent Colleges of the University owe to the University of London cannot be overestimated.

After the inauguration ceremony the Chancellor opened the new buildings of the Royal College which had been completed during the Session, and consented to grant the use of his name to the new Men's Hostel. In recognition of the early work on behalf of the College by the Gandhi Memorial Academy, the building hitherto known as the Main Block was named the Gandhi Wing and the Library was named the Gandhi Library.

It was unfortunate that in the middle of the Session, the College lost the services of its Visitor, Sir Patrick Renison, and also those of Sir Philip Rogers, who since 1958, was Chairman of the Council.

During Sir Philip's tenure of office the College altered its character from a technical institution to a University College, and it was in large measure due to his enthusiasm and interest in its affairs that the College developed so rapidly. He played an active part in the

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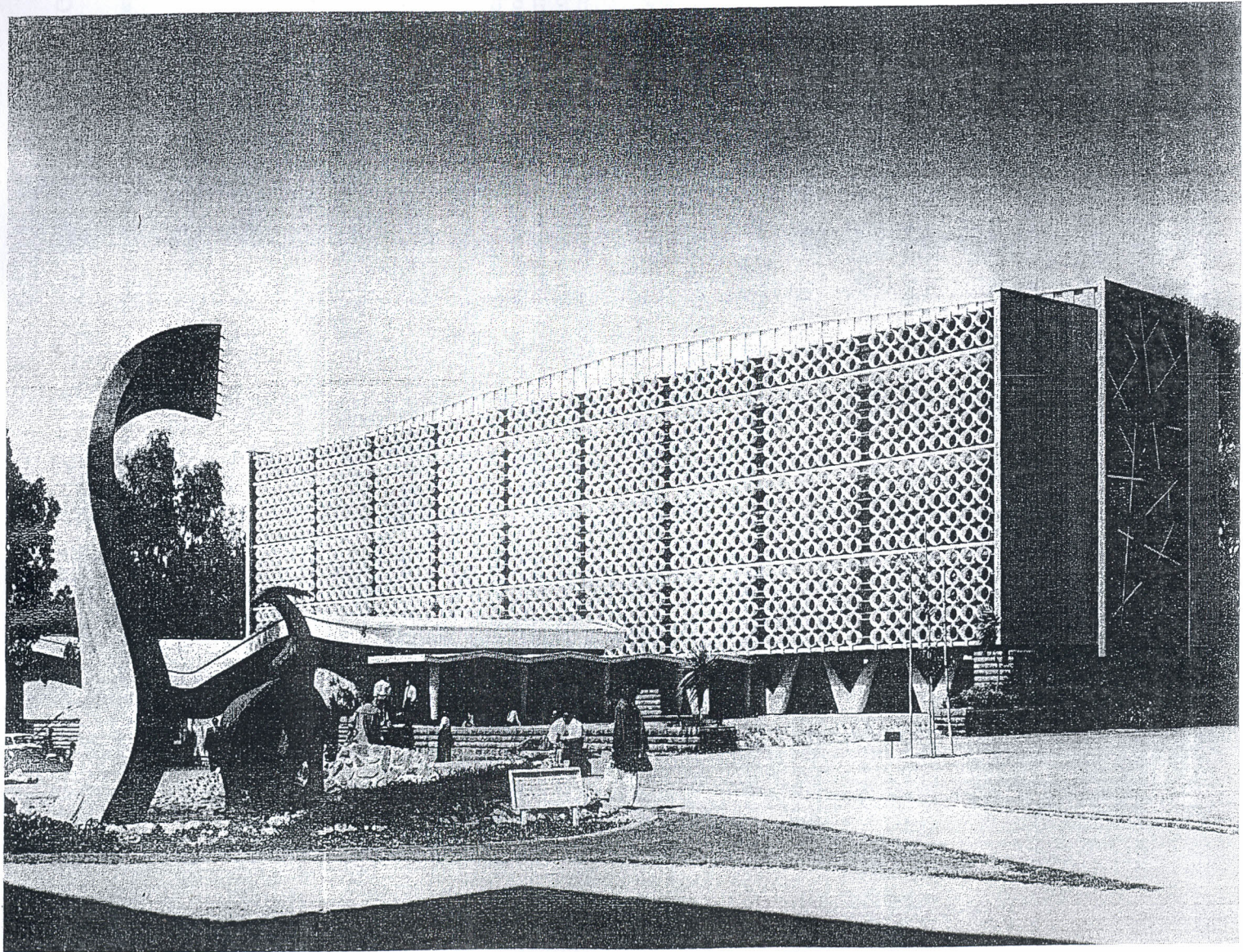
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building programme and in external relations. On account of the work he performed in these respects and for the College as a whole, we are very much in his debt. It is but fitting that one of the Halls of Residence should be called the Rogers Hall.

Sir Patrick Renison showed a lively concern for the growth of the College and presided at several ceremonies which marked its progress, despite the fact that his duties as Governor of Kenya made it extremely difficult for him to spare the time to do so.

The buildings which were opened by President Nyerere on 28th June were the Library, the Chemistry building, the Engineering building, Men's Hostel No. 4, and the Women's Hostel Dining Room. The funds for this programme of construction were obtained from the British Government through its C.D. & W. Scheme, and the College acknowledges with deep gratitude the assistance so provided.

In course of construction at the moment are an Anatomy and Physiology building at Chiromo, an Administration building and staff flats at Kabete, and a start will be made on buildings for Botany and Zoology and for Pathology and Microbiology in the very near future. The funds for the development of the Veterinary School have hitherto come from the United States, and acknowledgment must be made in this connection to the Agency for International Development and to the Rockefeller Foundation. The Agency for International Development has also made a contribution to the equipment needs of the College, notably in the Department of Civil Engineering.

The Gandhi Memorial Academy Society gifted to the College sufficient funds for the construction of a sculptured group in memory of Dr. Yajnik, who was instrumental in raising funds for the original College buildings. The College acknowledges the artistry and good taste of Mr. F. V. Foit, who was responsible for the design and construction of this Yajnik Fountain.

The College also puts on record its appreciation of the work of Messrs. McCullough, Norburn, Webb, Polkinghorne and Gaymer—architects of the new buildings and, above all, to Mr. A. M. Chitty, who designed the Library, prepared the overall site plan and co-ordinated the work of the various executive architects. The academic atmosphere which he has created has been widely admired, not least by the staff and students of the College.

The following Heads of Departments were appointed during the course of the Session:—

Professor P. Robson, M.Sc.(ECON.)(LONDON), M.A.(CANTAB.)—Economics.

Mr. R. B. Eustace, M.A.(OXFORD)—Registrar.

The College extends a warm welcome to these new arrivals and recognises the important contributions which they have already made to the well-being and academic standards of the institution.

In succession to Sir Philip Rogers as Chairman of the College Council, Mr. B. M. Gecaga was appointed in January, 1963. Mr. Gecaga's knowledge of University affairs and of conditions in East Africa will be of considerable benefit to the College, particularly in view of the changes in policy which will have to take place. The Royal College will now have to work in close co-operation with its sister Colleges within the structure of the University of East Africa and will have to consider, among other problems, the localisation of staff. Mr. Gecaga is well fitted, both on account of his background and experience, to give valuable advice on this new phase of the College's activities.

At the Inter-Collegiate Games held this year in Kampala, the College was narrowly defeated by Makerere College by one event, but can take some comfort from the fact that they rallied remarkably during the closing stages of the meeting. Now that the sister College in Dar es Salaam has a considerably increased student population, it is hoped that the Games will be triangular in character in the future.

I am sure that the College would wish to record its congratulations to Sir Bernard de Bunsen on the occasion of his elevation to a Knighthood. This is not only a tribute to the work which Sir Bernard has done so ably during the past 14 years at Makerere University College, but also recognises the part he has played in developing the University of East Africa.

Some of the various grants and donations received by the College during the year under review are given below:—

<b>Endowment Fund:</b>	£
East African Tobacco Company Limited . . . . .	500
A. Baumann & Company (East Africa) Limited . . . . .	100
Magadi Soda Company Limited . . . . .	500
	£1,100
 <b>Special Account:</b>	£
Books and Library grants:—	
Ford Foundation . . . . .	8,571
Kenya National Farmers Union, Stock Owners Council . . . . .	400
Gandhi Smarak Nidhi Trust . . . . .	500
City Council of Nairobi . . . . .	2,000
Department of Technical Co-operation . . . . .	4,620
Kenya Meat Commission (Veterinary Research) . . . . .	1,000
Ford Foundation (Diplomacy Seminars) . . . . .	4,286
City Council of Nairobi (Engineering Equipment) . . . . .	2,000
	£23,377
 <b>Capital Grants:</b>	£
Colonial Development and Welfare Funds . . . . .	261,034
Rockefeller Foundation . . . . .	78,146
Gandhi Memorial Academy Society . . . . .	6,074
Agency for International Development . . . . .	13,050
	£358,304
 <b>Revenue Grants:</b>	£
Rockefeller Foundation:—	
Scientific Research Grant . . . . .	15,911
Veterinary School Subsidy . . . . .	19,593
Ford Foundation (G.C.E. Entry Courses) . . . . .	17,765
	£53,269

These most generous grants and donations have, of course, been suitably acknowledged on your behalf.

## ACADEMIC REPORT

### Faculty of Art and Architecture:

During the Session 1962/63, student numbers in the Faculty increased to a point where the present accommodation was inadequate.

In the Department of Architecture 12 students were admitted into the three-year and four-year intermediate courses. R.I.B.A. Intermediate and Final Examinations were held in December, 1962 for relegated candidates. Five students sat for the whole or part of the Intermediate Examinations: two passed, two failed and one gained partial success. Eight students sat for the whole or Part I of the Final Examinations: two failed, the remainder gaining partial success. One student successfully sat Part II of the same Examination.

During the first half of the Session all studio projects set to Second, Third and Fourth Year students consisted of Buildings for Agriculture. In preparation for this work a Seminar organised by Mr. D. L. D. Morgan was held from the 10th to the 15th October. The Department was fortunate in enlisting the co-operation of a number of experts in agricultural subjects who prepared papers for the Seminar and subsequently advised the students on specialised aspects of this work.

During the second half of the Session, under the guidance of Mr. B. Waldock, second, third and fourth year students were engaged on the preparation of a development project for the Nairobi Swamp Area, and valuable assistance was given by City Council officials and practising Architects. An exhibit of this work will be sent to the International Union of Architects Congress to be held in Cuba from mid-September to early October, 1963, which Mr. Waldock will attend as College delegate.

At the end of the Second Term, Mr. Michael Munday left to take up a new appointment in the University of Hong Kong. The vacant post was subsequently filled by the appointment of Mr. Nelson Paine. Unfortunately, during the Session Mr. J. C. B. Price suffered a long illness, and thanks are due to Mr. G. McCullough, who devoted a great deal of his time to helping the Department during Mr. Price's absence.

The Final and Intermediate Examinations were held between the 10th and 17th June, 1963, the results of which will not be known before some time in August.

The 1963/64 Session will see the introduction of a course leading to the award of the Bachelor of Architecture degree of the University of East Africa, which ultimately will replace the present courses leading to the professional examinations of the R.I.B.A.

The Department of Art held its first large Exhibition at the Sorsbie Gallery in June, 1963. The Exhibition was opened by the Principal. It was quite clear, even on the opening night, that the Exhibition was a great success. There was a general suggestion from people outside the College that the Department should hold exhibitions more frequently.

During the Session the Department did not succeed in securing the services of a Lecturer in Sculpture, but in June, 1963, the prospects of success were better. It will be necessary for students to make up lost time in Sculpture and Ceramics when a lecturer is appointed.

First and Second Diploma Examinations were held, when a good standard of work was a source of satisfaction to the staff. There was a high proportion of passes in all subjects.

The Department of Land Development admitted 17 students during the Session, six to read for the Royal Institution of Chartered Surveyors' General Section Examinations in Valuation, Town and Country Planning and Estate Management, and 11 to read for the Quantity Surveying Examinations. The total number of students in the Department at the end of the Session was 26.

In 1963 Mr. B. S. Rihal passed the First Examinations in the General Section and was awarded the prize given by the Royal Institution of Chartered Surveyors (Kenya Branch) to the candidate obtaining the highest aggregate marks in all sections of the examinations.

During the Session Mr. J. T. E. Jones left to take up an UNESCO appointment in Kampala. His departure was a serious loss to the Department, particularly as it occurred at a time when student numbers were increasing.

#### Faculty of Arts:

At the beginning of the Session 17 students were admitted to the B.A. degree in the Departments of Economics, English, Geography, History and Mathematics. All 14 students were successful in their first year examinations and proceeded to the second year of their B.A. course. Twenty-two students were prepared for their final year of London G.C.E. "A" Level examination.

At the end of the Session, Mrs. E. Stock, B.A.(WALES), left the Department of English after giving valuable services as a temporary lecturer. During the year Dr. J. Karanja, M.A.(ATLANTA), PH.D.(PRINCETON), joined the Department of History and Professor P. Robson, M.Sc.(ECON.)(LONDON), M.A.(CANTAB.), took over the Department of Economics. Dr. D. Rutovitz, M.Sc., PH.D.(CAPE TOWN), and Mr. P. R. Sanders, B.A.(OXFORD), took up appointments in the Department of Mathematics.

## Publications

### *Department of Economics*

- D. M. Etherington—"Land Resettlement in Kenya: Policy and Practice", *East African Economics Review*—June, 1963.
- P. Robson—"Problems of Federal Finance in the 'Newer' Federations", *Finanzarchiv*, Tubingen, 1962.
- "Finance Development and Investment", *East African Economics Review*—June, 1963.

### *Department of English*

- G. D. Wing—"Hardy"—Oliver and Boyd, 1963.
- E. Wright—"Language Problem or Study Problem: The Confusion Area", *Teacher Education*, Vol. 3, No. 2, November, 1962.
- E. Wright and J. F. Wallwork—"On Your Own: A Guide to Study Method", Longmans Green & Co., 1962.

### *Department of Mathematics*

- D. Rutovitz—"Absolute and Unconditional Convergence in Normed Linear Spaces", *Proceedings of the Cambridge Philosophical Society*, Vol. 58, Part IV, 1962.

## Faculty of Engineering:

The Faculty of Engineering has now completed its second year of the Engineering Degree Courses in special relationship to the University of London. During the Session 1962/63 there were 162 students in the Faculty, of whom three were present only for a short Preliminary Term. Of the 53 first-year students who sat the Part I Examination, 34 were successful.

During the Session the new Civil Engineering Block was brought into service. The Block comprises a large Hydraulics Laboratory, a Soil Mechanics Laboratory, a Laboratory for Concrete Technology, Drawing Offices and Staff Rooms. There were 14 Civil Engineering students in the second year, of whom nine were successful in the Part II examination of the University of London.

During the Session there were ten Mechanical Engineering students in the second year of the degree course, and five were successful in the Part II examination of the University of London. There were also four students in the final year of the Diploma Course in Mechanical Engineering. Of these four students, three sat the Part II examination and two were successful. This Diploma Course has now completely run down.

In the Department of Electrical Engineering there were 11 students in the second year of the B.Sc.(ENG.) course. Of these, seven were successful in reaching the final year in preparation for the Part III Examination. The Department's research programme included work on solid state commutation in D.C. machines, development of an impedance comparator, and the visual display of electrical machine characteristics. The Department is co-operating with the Royal Aeronautical Establishment of the United Kingdom on an international research project connected with a world-wide navigation aid.

Courses in the Department of Land Surveying continued to be directed towards the examinations of the Royal Institution of Chartered Surveyors, in the Land Surveying Section. Alternative and more appropriate courses are being planned to replace these. They will be of a first degree or post-graduate nature, for graduates in cognate disciplines in the latter case. Eight candidates wrote the First R.I.C.S. Examination. Two passed, three were referred in Applied Mathematics, one failed and two results are unknown. One candidate wrote the Intermediate Examination and was successful.

During the Session Mr. E. F. Lucas joined the staff of the Department of Land Surveying to replace Mr. P. Hartog, who left to settle in Australia. Mr. J. Gaylor, a fifth-year student, was appointed to the staff as a part-time demonstrator. In the Department of Mechanical Engineering Mr. M. Vasudevan was appointed Senior Lecturer in Strength of

Materials and Mr. K. Muriuki, Assistant Lecturer. The latter appointment is supernumerary to establishment and is paid for by a Rockefeller Foundation grant. Mr. R. P. Patel, Lecturer, returned from McGill University, where he had been carrying out fundamental research in Aerodynamics for the last two years on a Commonwealth Scholarship.

## Publications

### *Department of Civil Engineering*

Royston Jones and A. A. Rizk—"Investigation on the Behaviour of Encased Steel Columns under Loads", *Structural Engineer*, Vol. 41, No. 1, pp. 21/33.

### *Department of Mechanical Engineering*

M. Vasudevan (co-author with Professor W. Johnson of Manchester College of Science and Technology)—"Multi-Metal Thermostats", *Journal of Applied Scientific Research*, Section B, Vol. 9 (1962).

R. P. Patel—"Measurement of the Reynolds Stresses in a Circular Pipe as a means of testing a disa constant-temperature hot wire-anemometer"—*McGill University*.

### *Department of Electrical Engineering*

R. K. Simmonds and P. G. Bhagwat—"An Impedance Comparator", *Electrical Times*, December 13th, 1962.

R. K. Simmonds—"Electrical Engineers in East Africa—Overcoming a Dearth", *Times Educational Supplement*, May 5th, 1963.

E. Wolfendale—"Transistors for High Frequencies and High Powers" *Journal Institution of Electrical Engineers*, October, 1962.

P. G. Bhagwat and E. Wolfendale—"Silicon Rectifiers Replace Commutator in D.C. Generators", *Control*, April, 1963.

E. Wolfendale—"The Transistor—An Introduction to its Applications", *Heywood & Co. Ltd.*

### *Department of Land Surveying*

H. S. Williams—"The Effect of Variations in Orientation Procedure on Model Restitution and Strip Triangulation Accuracy", *I.T.C. Publication* (accepted) 1963.

"The Development of Surveying and Photogrammetry as a University Discipline in East Africa", *U.N. Regional Cartographic Conference on Africa, 1963*.

"Standard Frequency Transmissions in Kenya", *U.N. Regional Cartographic Conference on Africa, 1963*.

J. G. Olliver—"Survey Education at an African University", Paper No. 4, *Conference of Commonwealth Survey Officers, Cambridge, 1963*.

## Faculty of Science:

During the Session eight students entered the First Year of the Part II of the University of London B.Sc. (General) Degree, with the following subject distribution:—

Botany 3; Chemistry 5; Geology 3; Mathematics 2; Zoology 3. Of these students, six had completed their Part I at the Royal College, one had transferred from Makerere in order to take Part II in Geology, and one had completed Part I as a private student in Mauritius.

The total entry to Part I of the B.Sc. (General) Degree was 23, of whom seven had taken their G.C.E. 'A' Level Examination at the Royal College, two were repeating the year, and 15 had entered the College from school with Cambridge Overseas Higher School Certificate qualifications (of the latter, six were from Mauritius).

The subject distribution was:—

Botany 7; Chemistry 22; Geology 2; Geography 1; Mathematics 14; Physics 14; Zoology 9.

During the course of the Session one student left and one was discontinued. Twenty-one sat for the Part I Examination in June, 1963.

It had been intended that the 'A' Level classes should be run down during the year, but owing to a shortage of sixth form places in the schools, a final intake was made with the assistance of a grant from the Ford Foundation. Contrary to expectations however, only a comparatively small number of suitably qualified applicants presented themselves for entry, and the Course, confined to Chemistry, Mathematics and Physics, commenced with 21 students some three weeks after the beginning of the Session. More students joined the Course during the year.

Service Courses in Biology, Chemistry and Physics for students taking the Diploma in Domestic Science, and in Chemistry for First Year Veterinary Science students, were provided within the Faculty.

### Department of Botany

Mr. V. R. Humphry joined the Department from the University of Cape Town as Lecturer in Plant Physiology and has been engaged in establishing the Physiology Section in addition to his lecturing duties. Mr. Humphry, who has previously worked under Professor Isaac at Cape Town, is engaged in research on negative phototropic response in *Avena* coleoptiles.

Dr. N. C. Otieno has been working on two of *Termitomyce* and some of the Gastromycetes of East Africa, and has presented a paper entitled "The Genus *Termitomyces* in Kenya" at the Symposium arranged by the East African Academy at Kampala in June, 1963.

Mrs. S. Abbi has joined the Department as Rockefeller Research Assistant, working on the group of fungi known as "Poroid Agarics", which are confined to the tropics. Three species have so far been examined in detail and the results are being prepared for publication.

Professor W. E. Isaac was appointed Vice-Principal at the end of January and has, as a result, been heavily burdened with College administrative work. He has, however, been able to make a two-month visit to the United States, visiting many institutions, including Universities at Ann Arbor, Berkeley and Austin, Texas, making useful contacts with fellow botanists.

Considerable progress has been made with the plans for a new department building on the Chiromo site, which are now in their final stages. It is hoped that the Department will be able to move to its new quarters before the commencement of the 1964/65 Session.

### Department of Chemistry

Mr. K. U. Wade was appointed to the Department as from January, 1963, as Lecturer in Chemistry with special responsibility for the final (Ford Foundation) intake of G.C.E. 'A' Level students. Mr. Wade was formerly teaching at the Duke of Gloucester School, Nairobi, and has now commenced a programme of research on the free radical substitution by chlorine of normal-chain hydrocarbons using vapour phase chromatographic techniques of analysis.

Dr. N. C. Desai and Mr. D. Odhiambo have commenced a programme of research on the surface properties of certain economic Kenya minerals and have successfully completed the construction of a vacuum apparatus for this purpose. Mr. Odhiambo attended a month's course in Radio-isotope techniques at Harwell.

Mr. G. A. Herbin has commenced a programme of research designed to lead to a chemical-based classification of the genus *Aloe*, using vapour phase chromatography of the leaf wax components. A large collection of data has been obtained and awaits analysis and further examination during a forthcoming period of study leave which Mr. Herbin is taking in the United Kingdom.



Professor P. A. Robins has been elected Dean of the Faculty of Science for the Session 1963/64.

#### **Department of Geology**

Mr. D. G. Stephenson joined the Department as Assistant Lecturer from the University of Reading.

As a result of a generous gift of capital for building and of instruments from the United States Coast and Geodetic Survey, the Department has installed a World-wide Standardised Seismological Station on the Chiromo site. The installation was carried out by a team of experts from the Survey, and routine observations commenced in June, 1963.

Professor I. Loupekin attended the Regional Seminar on Seismology and Geophysics at Lwiro, Congo, in April, 1963.

#### **Department of Physics**

Dr. A. E. Mussett and Dr. S. Amer were appointed Lecturers and arrived in September, 1962. Mr. T. A. Reilly was appointed Rockefeller Research Assistant and commenced in October, 1962, joining the Rock Magnetism Research Project with Mr. P. K. S. Raja and Dr. Mussett.

Mr. P. K. S. Raja attended the Leverhulme Conference on "The Teaching of Science in Africa" in Salisbury, Southern Rhodesia, in June, 1963.

Professor A. N. Hunter served as Dean of the Faculty of Science for the Session 1962/63. He attended the following International Conferences:—

- (a) Equatorial Aeronomy, Peru, September 1962.
- (b) UNESCO Conference on "The Teaching of Science in Africa", Morocco, December 1962.
- (c) Regional Seminar on Seismology and Geophysics, Lwiro, Congo, April 1963.

Dr. Santos Amer read a paper entitled "A Theoretical Method of determining the Electron Density Profile of the Ionosphere" at the Symposium arranged by the East African Academy in Kampala, June 1963.

#### **Department of Zoology**

During the academic Session 1962/63 the Zoology Department was housed in temporary accommodation in the main College building. However, detailed plans have been drawn up for a new Zoology building to be erected on the Chiromo site half a mile from the main College campus. It is hoped that this building will be ready for occupation for the commencement of the 1964/65 Session. A combined animal house for the use of the Zoology Department and the Veterinary Faculty is to be built on the Chiromo site, adjacent to the new Department building.

The B.Sc. Part II students were taken on a Marine Biology Course from 3rd April to 11th April, 1963. This Course was organised with the co-operation of the Director of the East African Marine Fisheries Research Organisation on Zanzibar. This was the first course of this type and it is hoped that many more such courses will follow.

All the B.Sc. students (Part I and Part II) attended a Terrestrial Biology Course at Lake Magadi from 17th June to 26th June. The Part I Course was general in character whilst the Part II Course was concerned mainly with birds.

At the end of December 1962 Dr. R. Schenkel arrived to join the Department on secondment from the University of Basel. Dr. Schenkel is a specialist in Animal Behaviour and gave a stimulating course to the Part II students, which it is hoped to repeat at the start of next Session before Dr. Schenkel returns to Basel at the end of 1963.

We were also extremely fortunate to obtain the services of Dr. L. Hulliger, another Swiss visiting research worker, working at the Wellcome Research Laboratories. Dr. Hulliger gave a course on Cellular Biology and Tissue Culture.

Towards the end of the Session Dr. Mohamed Hyder was appointed to the newly created Lectureship in Comparative Physiology. Dr. Hyder was a Nuffield Research

Fellow working in association with the East African Freshwater Fisheries Research Organisation at Jinja, Uganda and Makerere University College. He will take up his appointment on 1st July, 1963, and be a valuable addition to the departmental staff.

Professor D. S. Kettle and Mr. M. J. Coe read papers at the first Scientific Meeting at the East African Academy held in Kampala, 15th to 18th June. Professor Kettle has received a grant to attend the XVI International Congress of Zoology to be held in Washington from 20th to 28th August, 1963, at which he will read a paper. Mr. J. Sale will be attending the meeting of the International Society of Bioclimatology to be held at Pau, France from 2nd to 19th September, 1963. He will also be reading a paper at the Biological Research Group's Meeting to be held in Kampala from 14th to 18th September, 1963.

Visitors to the Department included Mr. M. V. Harris, Dr. Thane Riney, Professor C. M. Yonge, C.M.G., F.R.S., Dr. L. van den Berghe, Professor Thomas Monod, Professor J. E. Webb, Dr. R. C. Rainey, Mr. Assefa Difaye, Mr. William J. Stower, Professor G. Macdonald, Dr. R. Lewthwaite, Professor Bull, Professor A. S. Shulov, Dr. E. Judenko, F.R.E.S., Mr. G. F. Burnett, Dr. R. L. Weipers, Dr. R. Estes and Dr. John Bligh.

### Publications

#### *Department of Chemistry*

P. A. Robins—"The Gulbenkian Radiocarbon Dating Laboratory at the University College of Rhodesia and Nyasaland", *Proceedings and Transactions of the Rhodesia Scientific Association, 1963* (in the press) (with Dr. E. R. Swart of the University College of Rhodesia and Nyasaland). (Work done before joining the Royal College).

#### *Department of Physics*

S. Amer—"Non-linear Diffusion of Minority Carriers", *Proceedings I.E.F.* 100, 641-646. "Van der Pauw's Method of Measuring Resistivity on Lamellae of Non-uniform Resistivity", *Solid State Electronics*, 6 (1963), 141-145. (Work done before joining the Royal College).

A. N. Hunter—"The Debye Effect on Electrolytes and Colloids", *Proceedings of the Physical Society*, 80, 795-797 (1962) (With Dr. Jones of the University of Leicester).

### Faculty of Special Professional Studies:

The academic year 1962/63 was characterised by being the sole occasion on which all students concerned with commercial careers were either in their third year or fourth year as finalists in the examinations of the Chartered Institute of Secretaries. Three students were prepared for Section B of the Final Examination (old syllabus), having passed Section A in June 1962 (two students who passed Section A in June 1962 continued their studies privately), and seven students were prepared to resit Section A which they had failed in June 1962. The remaining 23 students—on the last C.I.S. course to be held at the College—were prepared for Part I of the Final under the new regulations, the results of which are not yet available.

Considerable activity took place in producing the syllabus and syllabus content for the Bachelor of Commerce Degree due to be mounted in 1963/64. The purpose of the degree is twofold: (a) to provide a sound commercial and economic background for the future business administrators of East Africa and (b) to provide sufficient content in accountancy and allied subjects for those students who, in their third year, elect to take up accountancy as a career, so that they will be able to claim exemption from the entire Intermediate Examination of the Association of Certified and Corporate Accountants.

### Department of Business Administration

With the continued running-down of professional courses, concentration was directed mainly towards the preparatory work involved in the provision of a B.Com. Degree Course to commence in September 1963. Curriculum and syllabus content were agreed to, so that a valuable medium of pre-business training appropriate to the needs of East Africa and with an adequate academic content is now available to the East African territories.

The Department continues to provide residential Management Training Courses during vacations, and Courses held at Jinja and Nairobi were attended by over sixty senior managers. There is, however, a need for these Courses to be provided on a more continuous basis.

#### Department of Law and Government

The Department, as a service Department, provided lectures in Mercantile Law and Company Law for the Department of Accountancy, lectures in Elements of English Law, Law of Real Property, and Local Government Law for the Department of Land Development, and lectures in the Law relating to Land Registration for the Department of Land Surveying.

#### Department of Domestic Science

Fifteen students were admitted to the Department of Domestic Science in October 1962 and all the students who registered in 1960 reached the required standard to continue the Course. Twelve students took the Housecraft Part I examination in March and eleven Part II in May. Eleven passed the Part I examination and nine the Part II.

Professor R. A. C. Oliver, M.A., B.ED., PH.D., visited East Africa to examine the students in Teaching Practice and Miss P. Davidson, Head, Department of Home Management, Battersea Training College, and external examiner for Elizabeth Gaskell College, Manchester, examined the practical work.

Miss G. Drew joined the staff in January as Lecturer. We much regret the death of Miss Esther W. Waruiru, one of the first-year students, in a car accident in April.

#### Publications

J. A. Alderson—"Management Ratios and Inter-Firm Comparison", *The Chartered Secretary*, Vol. III, No. 3, March 1963.

A. St. J. Hannigan—"The Imposition of Western Law Forms upon Primitive Societies", *Comparative Studies in Society and History*.

"Civics for Kenya Schools", *E.A. Literature Bureau*, 1962.

Eva Ricketts—"Home Economics in East Africa", *American Home Economics Journal*.

J. C. Roche—"The Role of the African Woman in Development", *African Women's Seminar Report, 1962*.

"Home Resources for Kenya's Economic Development", *K.W.W. Convention Report, 1962*

#### Faculty of Veterinary Science:

The first courses leading to the newly created Bachelor of Veterinary Science of the University of East Africa were commenced in July 1962; seven candidates were accepted. One was enrolled provisionally on his passing the General Certificate of Education, which in due course he failed; two others were offered and accepted scholarships to study overseas, leaving four in the course in all.

In March the existing degree structure was altered, in consultation with Professor Lovell of the Royal Veterinary College, London, so as to ensure that the University examinations coincided with the ends of sessions and a better continuity of teaching was attained. In May, a recommendation was made, in consultation with Professor Weipers of Glasgow Veterinary School, to commence a diploma-degree conversion course of four eight-to-ten week terms occupying the twelve months, October 1963 to September 1964. A generous offer of help in this undertaking was accepted from the Glasgow Veterinary School, whilst the Rockefeller Foundation volunteered to meet the added expense. In March, six final year men qualified for the Diploma in Veterinary Science, East Africa. This left only four students in the old diploma course and it was decided to abandon it and divert these students into the newly proposed conversion course. Regulations for the degrees of Master of Veterinary Science and Doctor of Philosophy were prepared and forwarded to the University in May.

In March the West German Government gave official recognition, together with financial

support, to a staff exchange relationship between the Faculty of Veterinary Medicine of the Justus Liebig University, Giessen, and this Faculty. They marked this occasion by extending an invitation to Professor J. B. Polding to visit Germany for two months. In May the Agency for International Development concluded an agreement with the College to provide \$242,000 to finance a similar staff exchange scheme with an, as yet, unnamed North American Veterinary School.

The following tutors were welcomed to the staff during the Session:—

- M. J. Clarkson, B.SC., M.V.SC., M.R.C.V.S., Lecturer in Parasitology, on four months' secondment from the Liverpool School of Tropical Medicine.
- H. Frank, DR.MED.VET., Senior Lecturer and Acting Departmental Head in Pathology, on a 2½ years' secondment from Giessen Veterinary Faculty.
- R. R. Hofmann, DR.MED.VET., Reader and Head of the Department of Anatomy, on a 2½ years' secondment from Giessen Veterinary Faculty.
- F. Jennings, PH.D., B.SC., M.AGR., Senior Lecturer in Biochemistry, on a one-year secondment from Glasgow Veterinary School.
- R. Lemke, DR.MED.VET., Senior Lecturer in Surgery, on a 2½ years' secondment from Giessen Veterinary Faculty.
- P. Nderito, D.V.M., DIPL.VET.SC.E.A., Lecturer in Surgery, on completion of his studies in Colorado Veterinary School.
- R. J. Fitzpatrick, PH.D., B.SC., M.R.C.V.S., who assisted in the Department of Physiology.
- J. Leupold, DR.MED.VET.(MUNCHEN), who assisted in the Clinic.
- K. H. Wrobel, DR.MED.VET.(GIESSEN), who assisted in the Department of Anatomy.

The following left the staff during the year:—

- Mr. C. Giattas (DIPL.VET.SC.E.A.), Demonstrator in Physiology, who entered Cornell Veterinary College in September 1962 to study for a PH.D.
- Mr. Okot Bwangamoi (DIPL.VET.SC.E.A.), House Surgeon, who left the School in September 1962 to join the Uganda Veterinary Service.

The end of May marked the completion of the administrative wing of the new buildings at Kabete, together with the signing of an agreement with the Agency for International Development, under which they are to provide \$490,000 for the construction of the Pathology and Microbiology Sections, which will complete this project. A block of six tutors' flats and an estate of 30 junior staff houses were also built during the year.

The Faculty Farm buildings at Fort Smith were completed and equipped and farm machinery bought in May, enabling the dairy herds to be transferred to the new farm later in the month.

The new Pre-clinical School at Chiromo, which was under construction throughout the year, was completed on 30th June, 1963.

#### Publications

- A. M. Harthoorn—"Modern Trends in Animal Health and Husbandry. Ataractic, Hypnotic and Narcotic Mixtures for the capture and handling of large wild animals", *Brit. Vet. J.* 119: 47-63. 1963.
- "The Use of a Neuromuscular Blocking Agent on Domestic Cattle", *Vet. Rec.* 74: 395-399. 1962.
- "A Condition Resembling 'Twilight Sleep' in Large Wild Mammals", *J. of the Amer. Vet. Med. Assoc.* 141: 1473, 1962.
- A. M. Harthoorn and C. P. Luck—"The Handling and Marking of the Wild East African Elephant (*Loxodonta africana*) with the Drug-immobilizing Technique: Second Preliminary Report", *Brit. Vet. J.* 118: 526-530. 1962.
- "Capture of the White (Square-Lipped) Rhinoceros *Ceratotherium simum* (Burchell) with the use of Drug Immobilization Technique", *Canad. J. of Comp. Med.* 26: 203-208. 1962.
- A. M. Harthoorn and I. C. Player—"The Narcosis of the White Rhinoceros—a Series of Eighteen Case Histories", *Proc. of the Zoological Congress, Amsterdam, April, 1963.*

- A. M. Harthoorn and Heather Campbell—"The Capture and Anaesthesia of the African Lion in his Natural Environment", *Vet. Rec.* 75: 275-276. 1963.
- A Handbook on Physiological and Pharmacological Principles of Animal Handling has been accepted for publication.

### **The Library:**

The move into the new building was completed rather faster than had been expected, and the opportunity of putting the whole of the stock on display was welcomed. It was possible to arrange systematically the large collection of back numbers of periodicals and the opportunity was taken of listing the College holdings in this sphere. The list is proving of great use and it has already been possible to use a number of duplicates for exchange. In the larger building, however, shortage of staff made itself more apparent although four additional library assistants were recruited. Two partly trained assistants went to England to complete their training. Adequate facilities are now available for making and reading microcopies. The bindery will shortly be able to attack the large amount of material waiting already, since most of the machinery has arrived and a staff recruited.

### **Men's Halls of Residence:**

During the Session, 345 students were accommodated in the Men's Halls of Residence. Delay in the provision of an additional Dining Hall and Kitchen meant that congestion in the original Dining Hall, intended for 200 students only, continued in an aggravated form.

Mr. Rodgers continued in office as a Senior Warden, ably assisted by Professor Royston Jones and Messrs. Vivian, Roche and Coe as Wardens, and Messrs. Sale, Etherington, Mangat and Denny as Resident Tutors, together with Mr. Nashon Justo as Clerk-House-keeper.

During the year morale among the students continued to remain at a high level and a notable innovation was the change from inter-Faculty to inter-Hall athletic competitions.

The Halls continue to be popular as a venue for Conferences, and during the year, numbers attending reached a new high record.

### **Women's Hall of Residence:**

Sixty students were accommodated, more than half of whom were students of Domestic Science. During the first term two library trainees were accommodated at the request of the Librarian and from January to June 1963 up to twenty Kianda students were housed until their accommodation was ready.

The extensions to the main buildings were completed in June, 1962 and the Warden moved into the new Lodge in November 1962. The provision of an office and a room large enough for meeting students has been a considerable benefit to the House.

The Halls were in continuous use throughout the vacations for holiday courses.

Four members of staff left for England during the year. Mrs. Atterbury, after continuous service in the Halls from the inception of the Technical College, and Mrs. Faktor, the Secretary, who built up the House filing system and records from the time of the appointment of a Warden, were greatly missed, but we have been fortunate in our replacements.

The first ex-student, Miss Chakraborty, came in as an Assistant Warden in the second term and the first two African members of staff, Mrs. Onyango and Mr. Kariuki, arrived during the third term. The appointment of a night porter eased considerably the arduous and lengthy evening duties of the Assistant Wardens.

The following benefactions were gratefully received during the Session:—

- (i) A gift of more than 200 books, including several leather bound sets of English classics.
- (ii) A Schaub-Lorenz television set from the Consulate General of the Federal Republic of Germany.
- (iii) The indefinite loan of four original pastels by Mr. Geoffrey Lance for the Reading and Drawing Rooms.
- (iv) Plants for the garden from various donors.

During the Session Mass and Holy Communion have been celebrated on alternate Sundays throughout Term in the Halls' Reading Room by the Rev. Father Paul Cummings and the Rev. Mr. Michael Mansbridge. The services have been fairly well attended by both men and women students.

An exceptionally large number of visitors from Great Britain, parts of Europe and America have been entertained in the Halls. There have also been a number of representatives from various African Territories who have passed through Nairobi on international occasions and who have spoken to the residents.

#### **Visitors to the College**

During the Session the College had the pleasure of receiving and entertaining a large number of visitors, particularly for the Inauguration of the University of East Africa in June, 1963. In a report of this nature it would be impossible to give a complete list, but we wish to record the names of the following distinguished visitors:—

Mwalimu Julius K. Nyerere, President of Tanganyika and first Chancellor of the University of East Africa.

The Hon. Jomo Kenyatta, Prime Minister of Kenya.

The Hon. Milton Obote, Prime Minister of Uganda.

The Rt. Hon. Malcolm MacDonald, Governor of Kenya and Visitor of the Royal College.

Sir Walter Coutts, K.C.M.G., M.B.E., Governor-General of Uganda, and Visitor of Makerere University College.

Dr. P. S. Noble, Vice-Chancellor, University of London.

Mr. C. Ping Lee, U.N.E.S.C.O.

Miss M. Perham, C.B.E., Nuffield College, Oxford.

Dr. J. M. Weir, Rockefeller Foundation, U.S.A.

Mr. F. Sutton, Ford Foundation, U.S.A.

Mr. F. P. Dunnill, Department of Technical Co-operation, London.

Lord Twining.

J. M. HYSLOP,  
*Principal.*

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## **Report on the Annual Accounts for the Year 1962/63**

### **1. Revenue Account**

Although still marred by financial stringency, keen appreciation by the Faculties of the difficulties in which the College found itself and firm budgetary control enabled the College to produce a surplus of £1,219 on Revenue Account.

The estimate for the year's expenditure was £499,555; net grants from Governments totalled £449,434 with direct College Revenue of £37,344; net expenditure amounted to £486,335 with reserve provision of £12,500; in all, total income, exclusive of grants, was £90,817.

The surplus, credited to Income and Expenditure Account, resulted in the accumulated deficiency at 30th June, 1963 being £24,033. This figure still includes the liability of the College to pay certain contributions in lieu of rates for the years 1961/66. One Government has paid its share but finality with the remaining two has still to be reached, in spite of representations by the College. The true accumulated deficit at 30th June 1963 is therefore about £7,000.

Provisions included in the total of £116,647 for Sundry Creditors and Provisions on Page 28 amounted to £32,628 as against £12,160 at 30th June 1962. Although this figure is increasing it still represents but a small proportion of the provision which should be made to meet replacement costs and potential liabilities. In particular, the reserves for office machinery and maintenance of buildings are much too small.

Short term interest has resulted in a credit of £7,137 to the Income and Expenditure Account.

The year's accounts reflect the first full year for the operation of the Faculty of Veterinary Science, expenditure on which amounted to £77,337. Government Grants for the Faculty plus the endowment of the Kenya Chair of Veterinary Science amounted to £58,337: the balance of the Faculty's needs were met by the Rockefeller Foundation, to whom the College is deeply indebted.

## 2. Endowment Fund

Grants and Donations total £1,100 for the year. The General Report on the College makes grateful reference to these benefactions.

## 3. Special Account

The Gandhi Memorial Society's payments towards the purchase of the Choromo Estate now amounts to £39,339. £1,406 remains to be found from interest on the Society's contribution held in Special Account: this debt will therefore be completely paid during the financial year 1963/4.

## 4. Capital Account

It will be seen that the assets of the College, including those arising from the transfer of the Faculty of Veterinary Science show an increase of £472,117 over those as at 30th June 1962.

It has been necessary to make some call on General Capital Account to meet urgent capital needs and expenditure disallowed by the United States Agency for International Development in relation to equipment for the Engineering Faculty. The balance in this Account is totally inadequate to meet any pressing needs of the College but there appears to be little chance of augmenting it.

Following Council Resolution, Minute 264 of 24th January 1963, a loan of up to £50,000 was negotiated with Barclays Overseas Development Corporation for the provision of staff housing. Owing to delay in the appointment of the College's Visitor it was not possible to take up this loan until after the end of the Financial Year under review. Expenditure in relation to the loan was therefore temporarily met from Capital Balances but will be shown separately in the Accounts for 1963/64.

## 5. Acknowledgments

I must record my thanks to the College Auditors for their helpful co-operation and my appreciation for all the assistance given to me not only by members of the Finance Department but also by the whole staff of the College, who most assuredly appreciate our financial difficulties.

J. R. TOVELL  
*Incorporated Accountant, F.I.M.T.A.*  
*Finance Officer*

# THE ROYAL COLLEGE, NAIROBI

*Incorporating the Gandhi Memorial Academy*

Balance Sheet as at 30th June, 1963

(being a summary of the attached Balance Sheets)

	£	Shs. Cts.
CAPITAL ACCOUNT		
Grants, Interest received, Capitalised Expenditure and Gifts	2,455,412.08	48
Mortgage Loans	26,486.00	97
Liability on Switchboard	9,540.00	00
	<u>2,491,438.09</u>	<u>45</u>

2,491,438.09.45

SPECIAL ACCOUNT		
Grants received for Specific purposes and Accumulated Investment Income	125,887.11	97

125,887.11.97

ENDOWMENT ACCOUNT		
Grants and Donations received	49,843.14	97

49,843.14.97

REVENUE ACCOUNT		
Current Liabilities	199,927.14	73
Revenue Grants Unspent	42,945.05	41

242,873.00.14

£2,910,042.16.53

WM. EDWYN ISAAC—Acting Principal

We have examined the above summarised Balance Sheet and the attached detailed Balance Sheets and have obtained all the information and explanations we have required. In our opinion the Balance Sheets are properly drawn up so as to exhibit a true and correct view of the state of the College's affairs according to the best of our information and the explanations given to us and as shown by the books and vouchers.

Dated at Nairobi  
This 16th day of October, 1963

	£	Shs. Cts.
CAPITAL ACCOUNT		
Land	163,143.02	87
Buildings	1,888,273.05	54
Furniture, Equipment, Plant and Vehicles	362,647.02	86
Library	4,130.15	54
Current Assets	73,244.02	54
	<u>2,491,438.09</u>	<u>45</u>

2,491,438.09.45

SPECIAL ACCOUNT		
Investments at Cost	115,408.16	84
Post Office Savings Bank	201.07	70
Current Assets	10,277.07	43

125,887.11.97

ENDOWMENT ACCOUNT		
Investments at Cost	49,842.08	66
Cash at Bank	1.06	31

49,843.14.97

REVENUE ACCOUNT		
Stores	6,707.17	34
Debtors	135,834.08	89
Short-term Deposits	76,211.04	80
Cash	86.01	75
Accumulated Deficit at 30th June, 1963	24,033.07	36

242,873.00.14

£2,910,042.16.53

J. R. TOVELL, Finance Officer  
Incorporated Accountant, F.I.M.T.A.

We have examined the above summarised Balance Sheet and the attached detailed Balance Sheets and have obtained all the information and explanations we have required. In our opinion the Balance Sheets are properly drawn up so as to exhibit a true and correct view of the state of the College's affairs according to the best of our information and the explanations given to us and as shown by the books and vouchers.

DUNSTAN ADAMS, MAY AND STORY  
Chartered Accountants



# THE ROYAL COLLEGE, NAIROBI

*Incorporating the Gandhi Memorial Academy*

## CAPITAL ACCOUNT

Balance Sheet as at 30th June, 1963

	£ Shs. Cts.	£ Shs. Cts.		£ Shs. Cts.	£ Shs. Cts.
<b>CAPITAL</b>			<b>FIXED ASSETS</b>		
Balance at 30th June, 1962	2,010,189.06.72		LAND (freehold and leasehold) at cost		163,143.02.97
Add:			BUILDINGS—at cost	1,693,797.13.06	
Assets Veterinary Faculty	111,253.00.00		Add: Buildings and Development in progress—at cost	194,475.12.48	
		2,121,442.06.72			1,888,273.05.54
Grants			FURNITURE AND EQUIPMENT—at cost or valuation or transfer	442,345.14.63	
Colonial Development and Welfare Funds	261,033.16.06		Less: Accumulated Depreciation	99,656.03.07	
Rockefeller Foundation	78,146.04.98				342,689.11.56
Gandhi Memorial Academy Society	6,074.01.21		GAS PLANT—at cost		11,742.18.39
Agency for International Development	13,049.17.82		MOTOR VEHICLES—at cost		8,214.12.91
		358,304.00.07	LIBRARY (Exclusive of Gifts)		4,130.15.54
Interest					2,418,194.06.91
Received on Short-term Deposits		1,374.16.50			
Gifts			<b>CURRENT ASSETS</b>		
Received from Donors		90.00.00	Short-term deposits		
Expenditure Capitalised			United Dominions Trust	12,000.00.00	
Revenue contribution to Capital		16,274.17.61	Credit Finance Corporation Ltd.	60,000.00.00	
		2,497,486.00.90	Cash at Bank	1,244.02.54	
Less: Depreciation of Furniture and Equipment (10%)	38,076.12.42				73,244.02.54
Cost of Assets sold	3,997.00.00				
		42,073.12.42			
		2,455,412.08.48			
<b>MORTGAGE LOANS</b>					
Kenya Building Society	11,353.16.70				
South African Mutual Life Assurance Society	8,443.19.73				
Savings and Loan Society (secured by a charge on nine staff houses)	6,688.04.54				
		26,486.00.97			
<b>LIABILITY ON SWITCHBOARD</b>		9,540.00.00			
		£2,491,438.09.45			£2,491,438.09.45

Note: Title Deeds have not yet been issued in respect of the land on which the Main Tuition Buildings, Assembly Hall and Engineering Workshops are situated, nor have they been issued in respect of the land in the Hospital Hill area on which are situated the Halls of Residence and the Staff Flats.

# THE ROYAL COLLEGE, NAIROBI

*Incorporating the Gandhi Memorial Academy*

## SPECIAL ACCOUNT

Balance Sheet as at 30th June, 1963

	£	Shs. Cts.	£	Shs. Cts.
SPECIAL ACCOUNT (Donations for specific purposes received to date)				
<b>DONATIONS</b>				
GANDHI MEMORIAL ACADEMY SOCIETY				
Balance of Grant remaining			100,000.00	00.00
EAST AFRICAN RAILWAYS AND HARBOURS ADMINISTRATION				
Donation	6,000.00	00.00		
Add: Accumulated Interest		370.18.54		
			6,370.18.54	
SHELL COMPANY OF EAST AFRICA LTD. AND B.P. (E.A.) LTD.				
Donation: Balance unexpended at 1st July, 1962	827.18	82		
Less: Expended on Engineering Equipment during the year ended 30th June, 1963		795.02.60		
			32.16.22	
R. G. AMIN BURSARY				
Bursary Fund	521.00.00			
Accumulated Interest		201.07.70		
			722.07.70	
M. M. BHATT TRUST FUND				
Trust Fund	500.00.00			
Accumulated Interest, less distributed as prizes		144.07.50		
			644.07.50	
OTHER DONATIONS LESS EXPENDED				
As per Schedule			18,117.02.01	
			£125,887.11.97	

*Note:* Interest earned during the year on Investments Account as a contribution towards the purchase

	£	Shs. Cts.	£	Shs. Cts.
<b>INVESTMENTS AT COST</b>				
£ Shs. Cts.				
51,000 00 00	5	%	Kenya Stock 1970/72	50,495.00.00
318 02.50	41	%	Kenya Stock 1971/78	325.00.00
10,000 00.00	51	%	E.A.H.C. Stock 1980/84	9,778.02.50
5,000 00.00	41	%	Kenya Stock 1961/71	4,450.00.00
10,000 00.00	34	%	Uganda Stock 1966/69	7,962.10.00
5,000 00.00	31	%	Jamaica Stock 1958/68	4,087.10.00
9,800.00.00	61	%	Kenya Stock 1972/74	9,508.00.00
25,000 00.00	61	%	Kenya Stock 1965	24,062.10.00
10,300.00.00	21	%	Kenya Stock 1971/76	4,740.04.34
			126,418.02.50	115,408.16.84
(Market Value of Investments at 30th June, 1963 amounted to £87,617)				
Post Office Savings Bank				201.07.70
<b>CURRENT ASSETS</b>				
Tax Refundable				1,323.06.00
Cash at Bank				8,954.01.43
				10,277.07.43
			£125,887.11.97	£125,887.11.97

amounting to £6,074 has been transferred to Capital price of Chiromo Land).

# THE ROYAL COLLEGE, NAIROBI

*Incorporating the Gandhi Memorial Academy*

## ENDOWMENT FUND

Balance Sheet as at 30th June, 1963

	£ Shs. Cts.	£ Shs. Cts.	£ Shs. Cts.
ENDOWMENT FUND			
Balance as at 30th June, 1962			26,044.14.97
Grants and Donations received during the year ended 30th June, 1963:			
E.A. Tobacco Co. Limited	500 00.00		
Magadi Soda Co. Limited	500 00 00		
Baumann & Company Limited	100 00.00		
		1,100.00.00	
Transfer from Makerere University College of Kenya Chair Endowment	31,518.00.00		
Less: Amount written off to reduce the investments received to market value as on 1st July, 1962	8,819.00 00	22,699.00.00	
			23,799.00.00

£49,843.14.97

Note: Interest on Ordinary Endowment Fund  
Interest on Kenya Chair Investments amounting to £1,400.19.25  
These amounts have been credited separately to Revenue Account.

# THE ROYAL COLLEGE, NAIROBI

*dhi Memorial Academy*

## ENDOWMENT FUND

Balance Sheet as at 30th June, 1963

	£ Shs. Cts.	£ Shs. Cts.
INVESTMENTS AT COST		
£ Shs. Cts.		
7,133.04.06 4 % E.A.H.C. Stock 1973/76	7,100.00.00	
13,450.17.09 3 % Savings Bonds 1965/75	10,000.00.00	
1,690.02.10 3 % Savings Bonds 1960/70	1,500.00.00	
2,108.09.07 4 1/2 % Kenya Stock 1971/78	1,144.00.00	
10,733.17.03 5 1/2 % E.A.H.C. (R. & H.) Stock 1977/83	7,399.08.66	
		27,143.08.66
(Market Value at 30th June, 1963 amounted to £24,504)		
KENYA CHAIR OF VETERINARY SCIENCE		
INVESTMENTS AT MARKET VALUE ON 1st JULY, 1962		
£ Shs. Cts.		
13,000 00 00 3 1/2 % Kenya Stock 1973/78	5,850.00.00	
26,959.00.00 5 % British Guiana Stock 1980/85	16,849.00.00	
		22,699.00.00
(Market Value at 30th June, 1963 amounted to £24,706)		
CASH AT BANK		1.06.31

£49,843.14.97

Investments amounted to £1,400.19.25  
amounted to £1,802.19.16  
separately to Revenue Account.

# THE ROYAL COLLEGE, NAIROBI

*Incorporating the Gandhi Memorial Academy*

## REVENUE ACCOUNT

Balance Sheet as at 30th June, 1963

	£	Shs. Cts.		£	Shs. Cts.
<b>UNSPENT LIABILITIES</b>					
Sundry Creditors and Provisions . . . . .		116,647.07.45			
Bank Overdrafts . . . . .		<u>83,280.07.28</u>			
			199,927.14.73		
<b>UNSPENT GRANTS</b>					
Portion of various grants receivable but unspent at 30th June, 1963:					
Rockefeller Foundation . . . . .		30,025.10.25			
Ford Foundation . . . . .		<u>12,919.15.16</u>			
			42,945.05.41		

£242,873.00.14

	£	Shs. Cts.		£	Shs. Cts.
<b>ASSETS</b>					
<i>Stores</i>					
On hand at cost or lower valuation . . . . .					6,707.17.34
<i>Debtors</i>					
Sundry Debtors, Deposits and payments in advance . . . . .					135,834.08.89
<i>Short-term Deposits</i>					
Crown Agents . . . . .		10,900.00.00			
Savings and Loan Society Limited . . . . .		32,500.00.00			
Kenya Building Society . . . . .		30,510.00.00			
Savings and Loan Society . . . . .		<u>2,301.04.80</u>			
					76,211.04.80
<i>Cash</i>					
Crown Agents . . . . .					86.01.75
<b>INCOME AND EXPENDITURE ACCOUNT</b>					
Accumulated deficit at 30th June, 1962 . . . . .		25,251.18.61			
Less: Surplus for the year ended 30th June, 1963 . . . . .		<u>1,218.11.25</u>			
					24,033.07.36

£242,873.00.14

# THE ROYAL COLLEGE, NAIROBI

*Incorporating the Gandhi Memorial Academy*

## Income and Expenditure Account for the year ended 30th June, 1963

EXPENDITURE (Recurrent and Non-recurrent)	£ Shs. Cts.	£ Shs. Cts.
Academic Expenditure	340,912.05.75	
Administrative Expenses (including non-departmental charges)	167,006.18.59	
Students charges	48,859.01.96	
	556,778.06.30	556,778.06.30
Balance brought down		465,961.00.27
Provisions		12,500.00.00
		478,461.00.27
Balance brought down		477,686.02.18
Net Surplus		1,218.11.25
		478,904.13.43

INCOME	£ Shs. Cts.	£ Shs. Cts.
<i>Fees receivable</i>		
Full-time Students—Tuition	20,579.15.00	
Full-time Students—Tuition G.C.E. Ford Foundation	798.00.00	
Full-time Students—Residence	47,109.01.18	
Full-time Students—Residence G.C.E. Ford Foundation	2,125.00.00	
Part-time Students	209.10.00	
	70,821.06.18	70,821.06.18
<i>Rents and Hire charges receivable</i>		
Staff Flats and Houses	8,274.13.82	
Main Tuition Building and Assembly Hall	346.17.91	
	8,621.11.73	8,621.11.73
<i>Catering Sales—Refectory</i>		2,222.06.05
<i>Fuel Sales—Kabete</i>		2,015.02.37
<i>Interest receivable</i>		
Endowment Fund Investments	1,400.19.25	
Endowment Fund Investments—Kenya Chair	1,802.19.16	
Staff Loans	381.16.70	
Net Short-term Interest	3,551.04.59	
	7,136.19.70	7,136.19.70
TOTAL INCOME		90,817.06.03
Balance carried down		465,961.00.27
		£556,778.06.30
College contributions forfeited by ex-members of the College Provident Fund Scheme		774.18.09
Balance carried down		477,686.02.18
		£478,461.00.27
Grants receivable for Recurrent and Non-recurrent expenditure		
<i>Governments:</i>		
Kenya	219,157.00.00	
Uganda	143,771.00.00	
Tanganyika	84,214.11.00	
Zanzibar	3,000.00.00	
	450,142.11.00	
Less: Q.A.C. Vet. School Transfer refunded to Makerere	709.00.00	
	449,433.11.00	449,433.11.00
<i>Rockefeller Foundation</i> (Portion of Grants utilised)		
Scientific Research Grant	8,008.16.88	
Veterinary School Development	2,284.19.01	
Veterinary School Subsidy	19,177.06.54	
	29,471.02.43	29,471.02.43
		£478,904.13.43

# THE ROYAL COLLEGE, NAIROBI

*Incorporating the Gandhi Memorial Academy*

Veterinary Farm Trading Account for the year ended 30th June, 1963

	£ Shs. Cts.	£ Shs. Cts.
Sundry Expenditure . . . . .		5,128.05.45
Transfer to Farm Surplus Account . . . . .		906.03.35
		<u>£6,034 08.80</u>

	£ Shs. Cts.	£ Shs. Cts.
Livestock valuation as at 30th June, 1963 . . . . .	832.15.00	
<i>Add:</i> Livestock sales for the year . . . . .	<u>95.02.22</u>	
	927.17.22	
<i>Less:</i> Livestock valuation 30th June, 1962 . . . . .	<u>551.00.00</u>	
		376.17.22
Sundry Income including subsidies . . . . .		5,657.11.58
		<u>£6,034.08.80</u>

Veterinary Clinic Trading Account for the year ended 30th June, 1963

	£ Shs. Cts.	£ Shs. Cts.
Drugs and Films: Stock on hand at 1st July, 1962 . . . . .	762.00.00	
<i>Add:</i> purchases during the year . . . . .	<u>4,428.00.38</u>	
	5,190.00.38	
<i>Less:</i> Stock on hand at 30th June, 1963 . . . . .	<u>941.00.00</u>	
		4,249.00.38
Sundry Expenditure . . . . .		3,377.00.52
Transfer to Clinic Surplus Account . . . . .		4,295.15.92
		<u>£11,921.16.82</u>

	£ Shs. Cts.	£ Shs. Cts.
Sundry Income . . . . .		11,921.16.82
		<u>£11,921.16.82</u>

# Final Examination Results

DIPLOMA IN MECHANICAL ENGINEERING JUNE 1963

## PASS LIST

### Second Class

MUNHA Aquaviva S. J. . . . . Kenya  
MUNANDES Joseph A. . . . . Tanganyika

### Pass

MUMU Stephen . . . . . Kenya  
MURE John . . . . . Uganda

## ARCHITECTURE

### FINAL EXAMINATIONS OF THE R.I.B.A. DECEMBER 1962 AND JUNE 1963

The following Passed Part I of the Finals and have as yet to sit Part II.

MUBRA Surinder S. . . . . Kenya June 1963  
MULACO Ireneu C. A. . . . . Tanganyika June 1963  
MUTEL Upendrabhai M. . . . . Kenya June 1963

The following Passed Part II of the Finals having passed Part I earlier on:—

MUDGES Michael R. . . . . Kenya December 1962  
MUGAS Antonio L. P. . . . . Kenya December 1962  
MUNE Errol W. F. . . . . Kenya June 1963  
MURTH (Mrs.) A. E. . . . . Kenya June 1963 (Subject to approval of Thesis)

### PROFESSIONAL PRACTICE EXAMINATION OF THE R.I.B.A. JUNE 1963

The following have passed their Professional Practice Examination, and therefore qualify for the Membership of the R.I.B.A.

MURUNANI P. . . . . Kenya  
MUNEZES B. O. . . . . Kenya

## DOMESTIC SCIENCE

(Scheme of Special Relation with the School of Education, University of Manchester)

The following qualified for the award of the Teacher's Certificate in Domestic Science June 1963:—

MUNOLA, Jane A. . . . . Kenya  
MUNDA, Ranjan D. . . . . Kenya  
MURGE, Emema F. . . . . Uganda  
MUNJI, Rezia H. D. . . . . Kenya  
MUNANDARI, Harject K. . . . . Kenya  
MUNALIA, Erica K. . . . . Kenya  
MUNAKECHO, Mary F. . . . . Uganda  
MUNJLEMIRE, Penina O. . . . . Kenya  
MUNEIRA, Viviana A. . . . . Tanganyika  
MUNARMA, Sudesh K. . . . . Uganda

The following did not satisfy the Examiners and are required to re-sit in the following subjects:—

MUNWRAH, Gulbachan K. . . . . Kenya (Practice of Education and English.)  
MUNMIJUMBI, Phoebe . . . . . Uganda (English, Art related to Housecraft.)  
MUNHFUTH, Rashinda S. . . . . Zanzibar (English.)  
MUNEMJI Merbamu . . . . . Kenya (English.)

# Prizes

## GANDHI SMARAK NIDHI TRUST PRIZES 1962/63

These are Annual Prizes worth £5 each. They are awarded to the most outstanding student in any subject in any year. The following received the prizes for the 1962/63 Session:

TRAVADI, Mrunalini A. . . . .	2nd Year	Art
HIRANI, P. M. . . . .	1st Year	Architecture (History)
SOHANPAUL, P. S. . . . .	2nd Year	Architecture (Construction)
GHELANI, P. R. . . . .	C.I.S. II	Accountancy, Business
KAMAU, C. . . . .	C.I.S. I	Administration and Law and Government.
GILBOY, C. F. . . . .	G.C.E. II	Physics
MUSBALLY, G. . . . .	B.Sc. I	Chemistry
ANGWIN, Jean . . . . .	B.Sc. I	Botany and Zoology
MJENI, A. M. . . . .	B.Sc. II	Botany and Zoology
BHATT, N. V. . . . .	B.Sc. II	Geology
BUCH, A. B. . . . .	B.Sc.(Eng.) II	Civil Engineering
KANSARA, M. C. . . . .	B.Sc.(Eng.) II	Electrical Engineering
MANNING, W. . . . .	B.Sc.(Eng.) II	Mechanical Engineering
BULLEN, R. N. . . . .	R.I.C.S.	Land Surveying

## Distribution of Students by Faculties and Territories 1962/63

	Kenya		Uganda		Tanganyika		Zanzibar		Others		Total
	M	W	M	W	M	W	M	W	M	W	
<b>ART &amp; ARCHITECTURE</b>											
Architecture . . . . .	12	3	12	—	8	—	2	—	—	—	37
Art . . . . .	2	9	8	4	—	—	—	—	—	—	23
Land Development . . . . .	12	—	8	—	3	—	—	—	—	—	23
<b>ARTS</b>											
G.C.E. Course . . . . .	4	6	12	—	—	—	—	—	—	—	22
B.A. Course . . . . .	17	10	1	—	1	1	—	1	—	—	31
<b>ENGINEERING</b>											
G.C.E. II Course . . . . .	21	—	22	—	1	—	—	—	—	—	44
<b>B.Sc.(Eng.) Course</b>											
*1st Year . . . . .	29	—	14	—	8	—	4	—	—	—	55
Civil . . . . .	4	—	1	—	9	—	—	—	—	—	14
Electrical . . . . .	4	—	3	—	4	—	—	—	—	—	11
Mechanical . . . . .	3	—	4	—	3	—	—	—	—	—	10
<b>Professional/Diploma Course</b>											
Land Surveying . . . . .	13	—	7	—	4	—	1	—	—	—	25
†Diploma Mechanical Engineering . . . . .	2	—	1	—	1	—	—	—	—	—	4
<b>SCIENCE</b>											
G.C.E. Course . . . . .	23	2	17	—	2	—	—	—	—	—	44
B.Sc. Course . . . . .	14	1	4	—	1	—	—	3	1	8	32
<b>SPECIAL PROFESSIONAL STUDIES</b>											
C.I.S. . . . .	21	2	7	—	3	—	—	—	—	—	33
Domestic Science . . . . .	—	30	—	6	—	2	—	—	—	—	38
<b>VETERINARY SCIENCE</b>											
	3	—	1	—	—	—	—	—	—	—	4
<b>TOTAL</b>	184	63	122	10	48	3	10	2	8	—	450

\*First Year is a common course to all Students, who later in 2nd and 3rd year specialise in Civil, Electrical or Mechanical Engineering.

†Last Batch of Diploma Course in Mechanical Engineering.