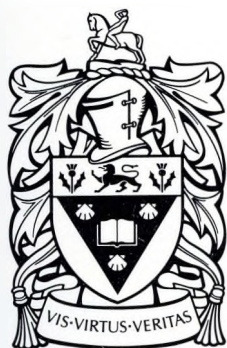


# *Rhodes University*

## *Annual Report 1985*





# ***Rhodes University***

## ***Annual Report 1985***

***The Vice-Chancellor's Report***

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***The Rhodes University Foundation Report***

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# ***Rhodes 1985***

Founded in:	1904
Academic posts:	296
Students:	3 533
Student/staff ratio:	12:1
Replacement value of buildings and contents:	R130 million
Grounds:	203 hectares

## **OFFICERS OF THE UNIVERSITY**

Chancellor: Dr I Mackenzie

Principal and Vice-Chancellor: Dr D S Henderson

Vice-Principal and Pro-Vice-Chancellor: Professor J W Brommert

Chairman of Council: Mr J S Levy

President of Convocation: The Hon Mr Justice J D Cloete

Registrar: Mr J O M Wilkinson

## **DEANS OF THE FACULTIES**

Arts: Professor I A Bunting

Science: Professor M E Brown

Law: Professor A J Kerr

Education: Professor R Tunmer

Commerce: Professor P van der Watt

Social Science: Professor E Higgins

Divinity: Professor J N Suggit

Pharmacy: Professor H Parolis

## **RESEARCH ORGANIZATIONS**

Albany Museum

Dictionary of South African English

Hermann Ohlthaver Institute for Aeronomy

Hydrological Research Unit

Institute for the Study of English in Africa

Institute of Social and Economic Research

JLB Smith Institute of Ichthyology

Leather Industries Research Institute

National English Literary Museum

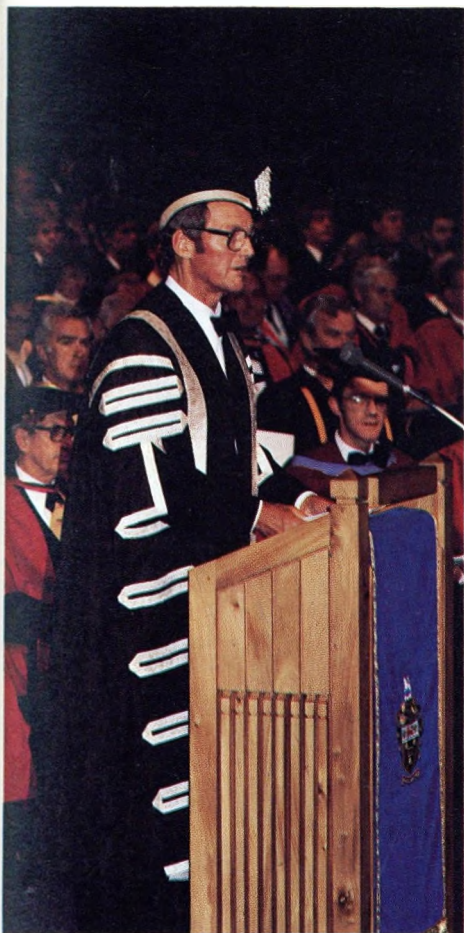
Plant Nutrition Research Unit

Rhodes Institute for Freshwater Studies

Tick Research Unit



## ***Report of the Vice-Chancellor of Rhodes University, Dr D S Henderson***



*Dr D S Henderson*

I have often described my ambition for Rhodes to become an excellent university, and ultimately, a great one. Despite the difficulties experienced over a wide front in 1985, I am glad to report that several important milestones in the achievement of that ambition were passed this year.

One of these, to which we have been looking forward for some time, was the figure of 3 500 students which was exceeded for the first time. This number included 3 000 full-time students in Grahamstown and approximately 250 students at our East London Division.

It was an important year for the East London Division because five of its first students graduated in April after completing their part-time studies for the Bachelor of Commerce degree in four years.

Several noteworthy developments occurred in the academic life of the University. Of particular note was the purchase in July of the hardware to run the PLATO system, one of the most sophisticated computer-based learning systems available. This serves the Computer-based Education Unit with a library of about five thousand lessons in a wide variety of subjects.

The Council for Scientific and Industrial Research (CSIR) changed its system of allocating research funds, vetting applicants more stringently and making larger grants to fewer scientists. Relative to its size, Rhodes's researchers fared creditably and 29 staff members received comprehensive or partial funding, an indication of the calibre of our scientists.

The Department of Ichthyology and Fisheries Science's experimental fish farm, at the J L B Smith Institute of Ichthyology, was officially opened in September. The farm features many innovations which make it one of the most advanced recirculating aquaculture systems in the world. Research into aquaculture in the Department and the Institute is aimed at providing a sound scientific basis for the development of an aquaculture industry in southern Africa. Fish-farming has tremendous potential as a source of protein for the population of the Third World, making this research of international importance.



*Handstripping a female catfish, **Clarias gariepinus**, at the experimental fish farm*

The Department of Zoology and Entomology celebrated its 80th anniversary this year. The Chair of Zoology was one of the first to be established at Rhodes, and a painting with a zoological theme is to be commissioned to mark the occasion.

Several important changes were made in scholarship and bursary awards. To supplement the limited number of undergraduate scholarships awarded on academic merit the University Council agreed to provide ten University Scholarships of R2 000 each. The University Trust Scholarships were upgraded and increased from two annual awards to four. A new bursary/loan scheme for entering students derived from the University's resources was also announced. The bursaries may be converted to repayable loans in the event of poor academic performance.

As a result of the Council's acceptance of a recommendation by the *Ad Hoc* Committee on Sports Policy, a major policy change will allow the award in 1986 of sports bursaries to

students of outstanding sporting and suitable academic ability.

During the year the University lost the services of several members of both the academic, administrative and technical staff through retirement and resignation. Prof J L Cattaneo retired after 33 years in the Department of French and Prof A Noble retired from the Department of Education after 21 years service. The Department of Political Studies lost Prof N C J Charton after 18 years. Mr G F Walters left the Library after 31 years and Miss A C Elliott retired as the Registration Clerk after 41 years at Rhodes. Among those who resigned were Prof V C Moran, the Dean of Science, Prof H Helm of the Department of Physics and Electronics and Dr M M Courtney of the Department of Economics.

Rhodes recorded with regret the death of a distinguished member of the University community in April. Prof E D Mountain, Professor Emeritus, was Professor of Geology from 1930 to 1969.



## *Old Rhodian Union*

Reunions were held as usual in various centres in South Africa and Zimbabwe. The Newsletter reached approximately 13 000 Old Rhodians and the resulting correspondence indicated that copies continued to be enthusiastically received.

As a result of the generous response to the Old Rhodian bursary fund appeal the value of bursaries disbursed this year was double that of the previous year. Nevertheless, it is hoped to increase the bursaries still further with another appeal in 1986.

## *STUDENT AFFAIRS*

### *Students' Representative Council*

The Students' Representative Council (SRC) of 1984/85 was responsible for several innovations. These included a conveniently-sized diary containing information of use to students, a Women's Focus Week which centred on issues of interest to women at Rhodes and a week focusing on the theme of International Youth Year. Following a suggestion arising at the annual Leadership Weekend, the planning of a Crisis Counselling Centre began with research into the feasibility of, and requirements for, such a clinic.

The services provided to students by the SRC were enhanced by the acquisition of a photo-silkscreen unit and a typewriter pool.

A start was made on renovations to the offices.

Under the presidency of Barry du Toit, the 1985/86 Council established as its priority the need to involve more students in the affairs of the SRC. Closer links were forged with residence committees and student societies as part of this project. The need for forums for critical academic debate on topical issues created by the situation in South Africa was also recognized and the SRC resolved to work towards creating appropriate "marketplaces of ideas".



*A discussion group at the SRC Leadership Weekend in March 1985*

## *Sports Union*

The highlight of a productive period for the Sports Union was the University's positive reaction to the recommendations of the *Ad Hoc* Committee on Sports Policy. As a result a number of exciting projects affecting sport at Rhodes were introduced.

Sports bursaries became available at Rhodes for the first time and drew a great deal of interest from present and prospective students. Among the capital projects initiated were extensions to the weight training facilities and the provision of changing rooms for the King Field/Alec Mullins Hall complex. Projects still to be undertaken include the heating of the swimming pool and the refurbishing and extension of the Martial Arts Centre.

Several sports clubs excelled this year, among them the Volleyball Club which won the award for the club of the year, and the Rifle Club which dominated all local bisleys and

won the Eastern Province Small Bore Championship. The University's surfers were placed second in the South African Universities (SAU) competition and the soccer team finished in the top four of the SAU tournament.

A special award was made to Mr D V Coghlan, who has served sport at Rhodes for 25 years, eight years as Vice-Chairman and the last 17 years as Chairman of the Union. Neil (Foxy) de Jager, who set the record for the fastest individual lap in the Round-the-block Relay in 1971, was the guest of honour at the celebrations marking the 25th anniversary of the relay which was started by Mr Coghlan.

Although the University was forced to postpone the appointment of a full-time sports coach, the Sports Union looks forward to the positive influence which the winners of sports bursaries are sure to have on the performance of Rhodes's sports teams.



*Kenny Rolfe, SAU and provincial surfer*



## Departmental Reports

The graduate class in the **Department of Accounting** included the first of the students who completed their Bachelor's degrees at the East London Division. Professors R D C Jackson and P G Surtees gave a joint inaugural colloquium in September.

At the graduation ceremony in April three doctorates were conferred on students of the **Department of Afrikaans & Nederlands**. Prof A P Brink was invited to read a paper at the Edinburgh Book Festival in August, and in October he was shortlisted for the Nobel Peace Prize for Literature. In November he visited several overseas universities and in December he received an honorary DLitt degree from Wits.

Inter-disciplinary initiatives dominated the **Anthropology Department** this year. A seminar on research methods attracted graduate students from six different departments at Rhodes. A new fieldwork training programme for second and third year students delivered its first graduates and was well received. Mr C J de Wet and Mr P A McAllister were involved in research into land tenure in black rural areas and have planned a conference on this vital theme in 1986.

Miss G Whitworth, of Kimberley, made a generous donation of a number of valuable items to the Museum of Classical Antiquities in the **Department of Classics**. They were collected by her father late last century, and came from cemeteries in Attica which were disturbed by the building of a railway on which he worked as an engineer.

It was a landmark year for PLATO at Rhodes. After a 15-month evaluation period, the University purchased the system in July and the **Computer-based Education Unit** was established. Mr G E Oberem, formerly a lecturer in the Department of Physics and Electronics, and co-ordinator of the PLATO pilot scheme, was appointed Head of the Unit. During the year, approximately fifty academics and one thousand students from many different departments used PLATO. Some of the members of staff wrote their own lessons for use by students. Time on the system was leased to several outside organizations.



*An Attic red figure calyx crater showing two young men pouring a libation*

Enrolment in the **Department of Computer Science** continued its steady rise, with a final year class of some 55 students and 11 Honours students. Staff of the department travelled widely to attend conferences and deliver papers, not only within the broad field of Computer Science, but also in the vital and rapidly expanding area of computer applications in education. Prof P D Terry, currently on sabbatical leave in Scotland, is to have two books published shortly. These works are based on course notes built up over a number of years and their acceptance by international publishers is indicative of the standards attained.

A summer school entitled *Alphabet to Exegesis* was held by the **Department of Divinity** to initiate or refresh students of Hebrew. The Faculty received a munificent bequest from the estate of the late Revd R N Dryden to be used for bursaries and scholarships for students training for the Christian ministry.

The **Department of Education** offered a Bachelor of Primary Education degree in Grahamstown and a part-time Bachelor of Education degree in East London, for the first time this year. Successful workshops on improving teaching practice were held with headmasters from Grahamstown and East London schools. The computer laboratory continued





*Chemistry and Biochemistry industrial tour: students visiting the African Products factory in Germiston*

to expand and the appointment of Prof T A Marsh will lead to further developments. Prof A Noble, Head of the department since 1971, left on long leave at the end of the year prior to retiring in mid 1986.

As the cacophony of jackhammers and sandblasters finally faded - somewhat less pleasingly than the song of Wordsworth's solitary reaper - the members of the Department of English managed to settle comfortably into their new building in Quad II. Prof F G Butler was elected first president and Dr L Wright treasurer of the new Shakespeare Society of southern Africa at its inaugural meeting at the Grahamstown Arts Festival. 1985 also marked the introduction of a refurbished programme for English I. Linguistics will no longer be a component of the course and an emphasis will be placed on a chronological study of literature.

The Department of Fine Art arranged several exhibitions this year, including the GAP Group exhibition and the student *Photo Campus*

35. One-man exhibitions were held by seven Master's students and nine shows of student work were held during the year. The department was well represented on the Cape Town Triennial by staff and past students. The work of Prof R B Brooks, Head of the department, and a Master's student, Carl Roberts, was featured in television programmes.

It was an important year for Romance studies at Rhodes. The Department of French and Italian hosted the fourth biennial congress of the Association of Professional Italianists, of which Dr B A Brooks was president. This event coincided with the re-opening of the sub-department of Italian in February. The decision to continue offering Italian was amply justified with a healthy intake of students, most of whom completed the year. Professor J-L Cattaneo will be on long leave in 1986 prior to his retirement after 28 years as Head of the department.

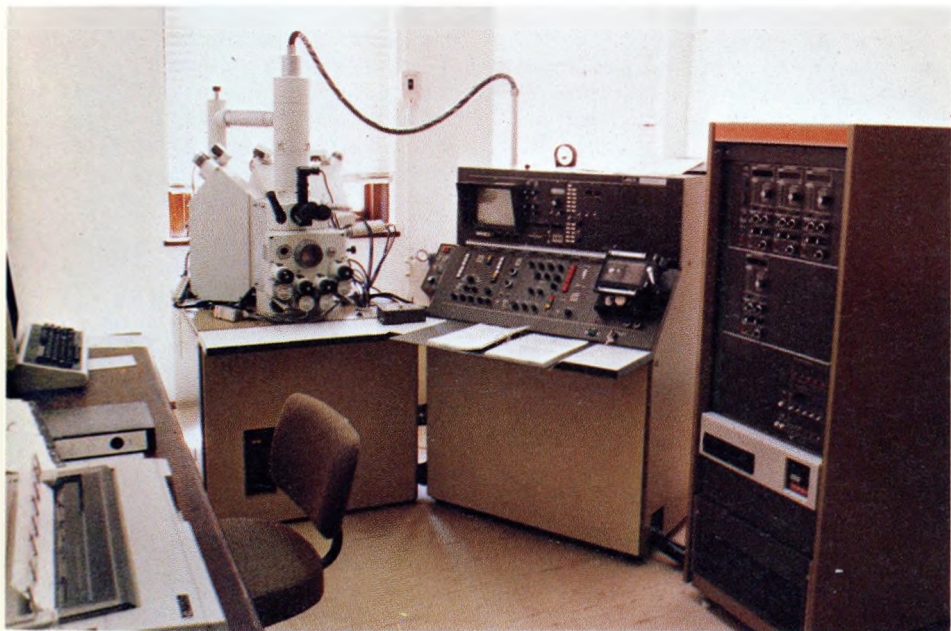
Major research thrusts were made in the Department of Geography this year into the

field of palynology. A full-time CSIR research assistant was employed to establish details of vegetation change in and around the Karoo. A major new contract with the Water Research Commission was negotiated by the Hydrological Research Unit. The project will focus on the mineralization of irrigation return flow and the generation of suspended sediments within the Great Fish and Sundays Rivers catchments. Dr M E Meadows published a book entitled *Biogeography and Ecosystems of South Africa*.

The **Department of Geology** is now housed in its new quarters in Quad II where substantial modernization of teaching and research facilities has been achieved. Among the innovations was the introduction of colour television facilities for through-the-microscope projection and the departmental library which houses some 300 metres of shelves. The results of the work carried out by the department as part of the six-year National Geodynamics Programme, are soon due for publication by the Geological Society of South Africa. Largely as a result of this work an automated electron probe micro-analyser was installed in the

department. Almost 50 candidates have now completed the MSc degree in exploration geology since its inception in 1978. Mr L Ramagwede, the first black student to complete the Honours course in 1984 was awarded a Fulbright Scholarship for further study at the Colorado School of Mines in the United States of America.

The **Department of History** was the first to take advantage of the Senate's new academic exchange scheme, when Mr Hilary Jenkins, an Old Rhodian historian from University College, Dublin, (UCD) changed places with Prof T R H Davenport for six months. Mr Jenkins gave an Honours course and part of an undergraduate lecture course. Professor Davenport lectured at UCD, gave seminars at three Irish universities, attended the Irish conference of historians at Cork, and was invited to contribute to a discussion on draft Irish Archives legislation attended by a number of top public servants. He also completed four writing projects, of which the largest was a major revision of his *South Africa: a Modern History*, to bring the earlier chapters into line with recent research, and extend the coverage



*The electron probe micro-analyser installed in the Department of Geology*



to 1985. It was an active year for *The Graham's Town Series*, five works were prepared for publication and work on three others continued. On the teaching front, first year student numbers reached a new peak and the flow of research students showed no sign of diminishing.

Dr G W Coulter, well-known for his work on Lake Tanganyika and fish population dynamics, joined the **Department of Ichthyology and Fisheries Science** at the beginning of the year as senior lecturer. There were six Honours students, eleven MSc and four PhD students registered in the department. In order to accommodate the growing student body, the University provided three additional laboratories in an adjoining building. Additional space was also made available to the department's Port Alfred marine laboratory.

The highlight of the year was the opening of the Experimental Fish Culture System in September. It is now fully operational and five major aquaculture programmes are underway.

A visit by a member of the South African Law Commission's research team to discuss one of its current projects, *Marriages and Customary Unions of Black Persons*, was hosted by the **Faculty of Law** in October. Post-graduate students continued to work in the Legal Aid Clinic, assisting the local community with legal problems.

The **Department of Mathematics (Pure and Applied)** is being enhanced by East European mathematicians. Dr G Lubczonok, who studied in Cracow, arrived from James Cook University in Australia. Dr A S Fabijanczyk (PhD Lodz University), and Dr D Butnariu from Romania should join the department in 1986. Through these appointments Grahamstown has gained two other highly qualified mathematicians as Mrs Lubczonok has a Master's degree and Mrs Fabijanczyk a doctorate in mathematics.

Applications for patents for a new vaccination technique developed in the **Department of Microbiology** were made in South Africa, Britain and the United States of America. Prof J F E Newman presented a paper on new approaches to vaccine development at a conference in Scotland and another about advances

in virology at a conference held in Italy. The department enjoyed an unusually large intake of post-graduate students.

Being the "European Year of Music", several more concerts and public lectures were held by the **Department of Music and Musicology**, than usual. Highlights of the series included an evening devoted to the music of Handel and Scarlatti and lectures on Alban Berg and Bach. The Rhodes University Chamber Choir participated in several commemorative programmes, performed public concerts, recorded a series of programmes for television, and undertook a tour of the Cape, visiting Cape Town, Worcester and George where they gave concerts.

Professors Guy Dutton from the University of British Columbia and Tom Watson from the University of Sydney visited the **School of Pharmaceutical Sciences** as Hugh Kelly Fellows for two months and six months respectively. Links with the pharmaceutical industry, for which contractual projects were undertaken, were strengthened during the year. Eighty students completed the requirements for graduation as pharmacists in April 1986 and 14 students worked on higher degrees.

Prof S C Seagrief, Head of the **Department of Plant Sciences**, began writing a book on South African marine algae. Prof R A Lubke, chief editor of *A Field Guide to the Eastern Cape Coast*, which contains articles on many aspects of the biology, geology and geography of the area, finalized proofs of the work.

The **Department of Political Studies** enjoyed an unusually busy and interesting year, an appropriate send-off for Prof N C J Charton, who retired. One of her last tasks was to organize the annual conference of the Teachers of African Government and Development Administration.

The third-year class in the **Department of Social Work** was the largest in the last six years and the first year intake was larger than expected. Opportunities for practical work were comparatively limited, so that great initiative had to be employed in planning the students' practical programme. Video facilities were used for the first time in the assessment of second and third year students.

A part-time staff member was employed to assist with the training of the Honours students enrolled at the East London Division.

The **Department of Speech and Drama** featured prominently in the professional theatre. Invited to participate in the opening of the Sand du Plessis Theatre in Bloemfontein in August, Prof H F Swart directed Garcia Lorca's *Blood Wedding*, translated by Prof A P Brink. He also directed *Don Juan Onder die Boere* for the opening season of the Andre Huguenet Theatre, which is housed in the complex. *Môre is 'n Lang Dag*, written by former student, Mr Deon Opperman, the department's entry in the 1984 ATKV Kampustoneel, was presented by the Market Theatre in January and the student cast jointly

received the VITA award for Best New Actor. Prior to his departure, Mr G E Gordon, who is studying for an MA at London University, made a major contribution to local dance with his indigenous work *The Honey Bird*. The Rhodes student production for the Festival of Arts, *From Midnight to Morning*, written by Mr Opperman, shared laurels with Wits in the festival and was presented in Johannesburg in December.

The teaching and research activities of the staff of the **Department of Zoology and Entomology** resulted in the publication of over 40 papers during the year. In July the department held the fifth congress of the Entomological Society of southern Africa which was attended by over 100 delegates.



*A research laboratory in the School of Pharmaceutical Sciences*



## **CONFERENCES ATTENDED BY RHODES STAFF IN 1985**

The following list shows some of the conferences attended by staff of the University:

### **Department of Afrikaans & Nederlands**

South African Society for Literary Theory on Deconstruction, Potchefstroom - Prof A P Brink, Mr W Liebenberg, Ms M de Beer  
Association for Sociology in southern Africa on Deconstruction, Literature and Ideology, Cape Town - Mr W Liebenberg  
Congress of the S A Association for Language Teachers, Pietermaritzburg - Mr W G Meintjes

### **Department of Anthropology**

Association of Professional Italianists, Rhodes  
Oral Tradition and Literacy, Durban  
Annual Conference of Anthropologists, Durban

### **Department of Chemistry and Biochemistry**

Eighth International Conference on Thermal Analysis, Bratislava, Czechoslovakia - Prof M E Brown

### **Department of Computer Science**

Computers in Education and Training Conference, Pretoria - Prof D Riordan, Mr T A Marsh  
11th National Convention for Teachers of Mathematics, Physical Science and Biology, Durban - Prof D Riordan, Mr T A Marsh

### **Department of Divinity**

Torrey Memorial Bible Conference, Los Angeles - Prof C W Cook  
Bonhoeffer Society Meeting, Los Angeles - Rev T Cunningham

### **Department of Geography**

Quadrennial meeting of the South African Society for Geography, Stellenbosch

### **Department of History**

10th Biennial Conference of the South African Historical Society, Cape Town - Dr H C Hummel, Miss B M Nicholls, Mr E G Haines

### **Department of Law**

Computers in Education, Pretoria - Mr M A K Lambiris

### **School of Pharmaceutical Sciences**

International Symposium on Carbohydrate Chemistry, Grenoble, France - Prof H Parolis  
International Symposium on Column Liquid Chromatography, Edinburgh, Scotland - Prof I Kanfer, Prof J M Haigh, Mr C Stubbs

### **Department of Plant Sciences**

12th International Conference on Plant Growth Substances, Heidelberg, Germany - Prof I D M Railton

### **Department of Political Studies**

Annual Conference of Teachers of African Government and Development Administration, Rhodes

### **Department of Speech and Drama**

Association of Drama Departments of South Africa, Pietermaritzburg - Mrs C Howie  
Committee of Heads of University Drama Departments, Pietermaritzburg - Mrs C Howie

### **Department of Zoology and Entomology**

International Liège Colloquium on Ocean Hydrodynamics, Belgium - Prof B R Allanson  
7th International Bat Symposium, Aberdeen, Scotland - Dr R T F Bernard  
19th Ethological Conference, Toulouse, France - Dr A N Hodgson

## **VISITORS TO RHODES IN 1985**

Among the many interesting visitors to the University were the following:

### **Department of Classics**

Prof H D Joceyln, Manchester University  
Prof J V Luce, Trinity College, Dublin

### **Department of Divinity**

Prof B Metzger, Emeritus Professor, Princeton Theological Seminary, New Jersey

### Department of Education

- ✓ Mr A A Adams, Department of Education, University of Cambridge
- Prof K Tracy, Trent University, Ontario, Canada
- Mr G Dinkle, Hampshire Education Authority, England

### Department of Music

- Prof G de Greeve, Director of the Music Academy, Antwerp, Belgium
- Prof M-A Covert, Ithaca College, New York

### School of Pharmaceutical Sciences

- Prof V Pedersen, University of Iowa
- Prof D Gupta, University of Houston, Texas

### Department of Plant Sciences

- Dr B A Finneran, University of Canterbury, Christchurch, New Zealand
- ✓ Prof J Wisniak, Ben Gurion University, Israel

- ✓ Dr C J Quinn, University of New South Wales, Australia

Dr M Gibby, Chelsea Physic Garden, London

### Department of Political Studies

- Mr C Legum, Fleet Street, London
- ✓ Prof J Spence, Leicester University, England
- Mr E K Moorcroft, MP for Albany
- ✓ Prof H-J Uibopuu, Salzburg, Austria
- Mr T Carney, US Consulate, Cape Town
- ✓ Mr R Hallett, Oxford, England
- Mr C C O'Brien, Dublin, Ireland

### Department of Sociology and Industrial Sociology

- Dr D Webster, Department of Anthropology, Wits, Johannesburg
- Mr P Camay, Council of Unions of SA, Johannesburg
- Mr S Gelb, Witwatersrand Institute of African Studies, Wits



*The graduation production of A Midsummer Night's Dream  
presented by the Department of Speech and Drama*



# Student Numbers 1985

		A&S	Commerce	Divinity	Education	Law	Pharmacy	Science	Social Science
Under-graduates	1984	939	618	54	93	7	339	438	122
	1985	1 007	658	51	91	16	305	444	133
Graduates	1984	229	57	28	178	74	11	149	18
	1985	281	46	25	177	72	12	156	32
Total	1984	1 168	675	82	271	81	350	587	140
	1985	1 258	704	76	268	88	317	600	165

## Graduation April 1986

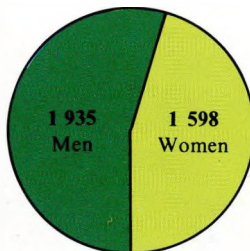
As this report is printed before graduation, there may be changes to the April 1986 awards. Final figures will appear in next year's report.

Under-graduate Diplomas & Certificates	1985	7	21	2	26	—	—	—	—
	1986	5	12	—	24	—	—	—	—
Bachelor's Degrees	1985	200	98	3	—	4	69	96	31
	1986	213	111	8	—	1	60	98	38
Post-graduate Diplomas & Certificates	1985	9	18	—	50	—	—	—	—
	1986	14	13	—	57	—	—	—	—
Second Degrees	1985	48	13	6	16	18	—	41	9
	1986	52	15	5	—	32	—	49	3
Master's Degrees	1985	15	—	—	5	1	4	19	—
	1986	16	2	—	1	1	—	10	—
Doctorates	1985	7	—	1	—	—	—	4	—
	1986	1	—	—	—	—	1	3	—
Total Diplomas & Certificates	1985	16	39	2	76	—	—	—	—
	1986	19	25	—	81	—	—	—	—
Total Degrees	1985	270	111	10	21	23	73	160	40
	1986	282	128	13	82	34	61	160	41
Total Awards	1985	286	150	12	97	23	73	160	40
	1986	301	153	13	82	34	61	160	41

Occasional students	Total	%
58	2 668	78,2
57	2 762	78,2
—	744	21,8
—	771	21,8
58	3 412	100
57	3 533	100
Total		
	56	
	41	
	501	
	529	
	77	
	84	
	151	
	156	
	44	
	30	
	12	
	5	
	133	
	125	
	708	
	801	
	841	
	845	

## Composition of student body 1985

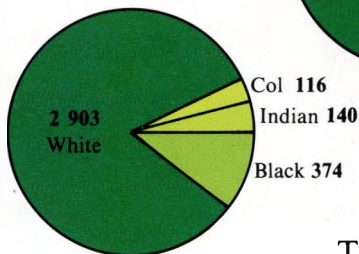
### Sex



### In residence

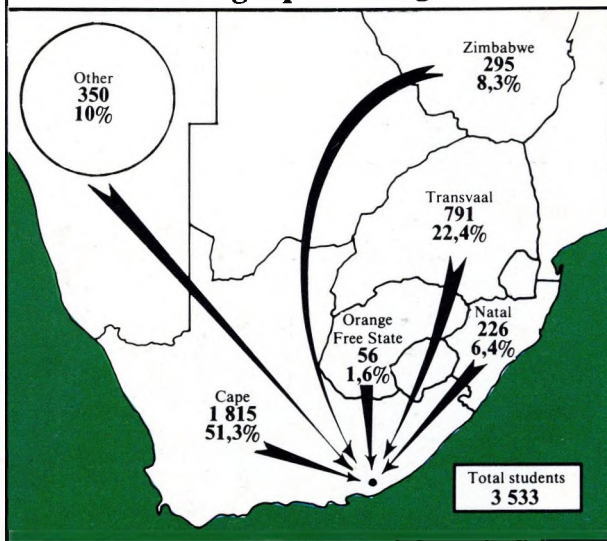


### Race



Total: 3 533

### Geographic Origin





## Finance

The financial position of Rhodes University remained sound in spite of rising costs and reductions in state subsidies. A cause of concern to all universities was the adverse effect

on libraries of the astronomic rise in the cost of books. The waiving of sales tax and import surcharges on this vital commodity would greatly assist universities.

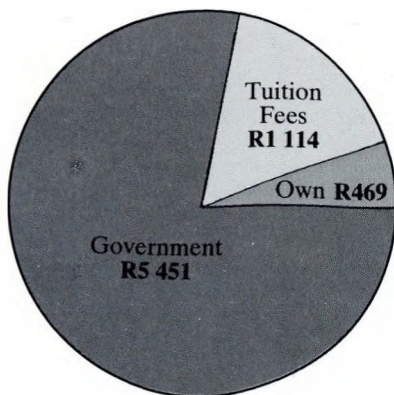
Details of income and expenditure for 1985 and the previous year are as follows:

	R Millions 1985	Percentage of Total	R Millions 1984
<b>Expenditure</b>			
Academic Salaries & costs	17,5	62%	64% 15,3
Operating Expenses of Buildings, Grounds and Equipment	1,7	6%	5% 1,3
Loan Interest and Redemption	2,6	9%	10% 2,5
Central Administration	1,9	7%	7% 1,6
Departmental and Research Grants including library books	1,9	7%	6% 1,5
Other including transfers to reserves	2,7	9%	8% 1,8
	<u>28,3</u>		<u>24,0</u>
<b>Income</b>			
Government subsidies	21,4	76%	77% 18,6
Student Fees	4,8	16%	16% 3,8
Investments	1,6	6%	5% 1,1
Other	0,5	2%	2% 0,5
	<u>28,3</u>		<u>24,0</u>

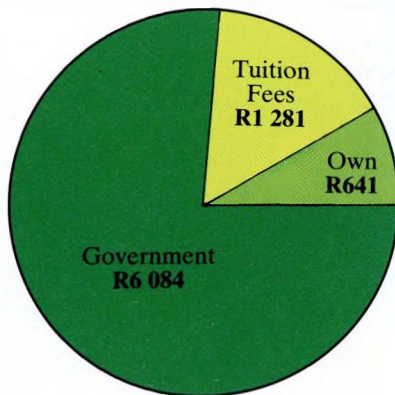
This information is perhaps more meaningful if expressed on a per capita (student) basis, as the following diagram demonstrates.

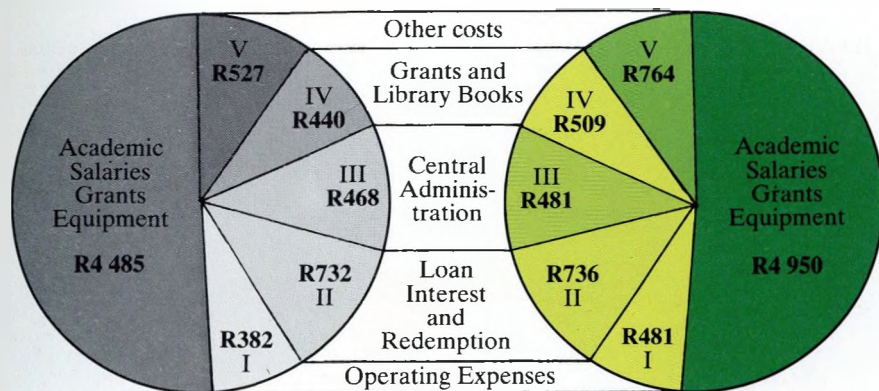
### INCOME AND EXPENDITURE PER STUDENT

1984 INCOME R7 034



1985 INCOME R8 006



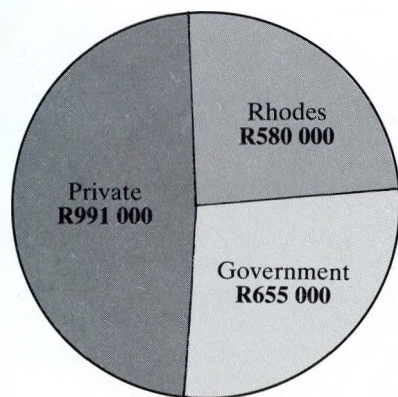


Students at Rhodes are more fortunate than most in the financial assistance which they receive. The figure below shows that

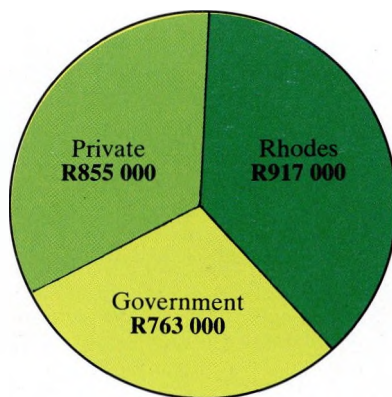
1 821 students received financial assistance worth more than the average tuition fee of R1 281 shown in the preceding table.

### STUDENT BURSARIES

1984 R2 226 000



1985 R2 535 000



1 670  
R1 332

Students assisted  
Bursary per student

1 821  
R1 392





*Cattle paintings on "Brakfontein" in the Western Winterberg*

## ***Research Institutes and other organizations***

Two years' disruption, discomfort, noise and dust ended with the completion of the **ALBANY MUSEUM's** building extensions February. By the end of March all departments had moved into their new or refurbished quarters.

The year's major activities revolved around two important conferences. The first, the annual conference of the southern African Museums Association held in April, was arranged by the J L B Smith Institute of Ichthyology. The conference, which was attended by 120 delegates, was last held in Grahamstown in 1958. Eleven papers were delivered by invited speakers on the subjects of museum security, museums as educational institutions, and competition in the collecting of exhibits.

In September the Museum hosted the biennial conference of the southern African Association of Archaeologists. Three days of valuable deliberations dealt with such matters as the proposed establishment of a

centre for the conservation of South Africa's rich heritage of rock art, and the problems of marine archaeology. The meetings were followed by a four-day excursion to a stone age site.

Museum staff taught at the University to a greater degree this year than before, giving lectures, practicals and field courses in the departments of Geology, Anthropology, Zoology and Entomology and English.

Two new galleries of mammals, and an exhibition of Antarctic birds, were opened at the end of the year.

At the annual general meeting in June, the Museum bid farewell to the Hon Mr Justice J P G Eksteen who was chairman of its Board for 12 years. Tribute was paid to his unstinting service in guiding the affairs of the Museum through a very important period of growth.

Attendance at the **CENTRE FOR SOCIAL DEVELOPMENT's** nursery schools in the townships was excellent and many more working mothers requested day care for their children. Eleven home-care groups which trained care-givers to look after six children for nine hours each weekday, were esta-

blished. Work began on the new Zenzele-type nursery school in Xolani Township which will cater for 60 children.

Four bursary funds were administered and a total of 572 bursaries were awarded for study at Rhodes and other tertiary institutions. This work was seriously disrupted by the schools boycott. A highlight of the year was the Basic Treasurers' Course conducted for community leaders by staff of the Accounting Department. Thirty-one people received attendance certificates at a ceremony held in October.

The extensions to the premises, made possible by generous donations, were completed.

One of the highlights of the year for the **HERMANN OHLTHAVER INSTITUTE FOR AERONOMY** was the acquisition of a powerful tunable dye-laser for the investigation of the middle atmosphere, a field in which there is currently great international interest.

It was used recently to fire several experimental pulses of yellow light into the cloudy sky. The beam of light and the illuminated patch of

cloud could be seen clearly. In actual use, the laser sends out short pulses of light less than one millionth of a second in duration, and the light scattered from different heights in the atmosphere is received by a large mirror and phototube. The height from which the light was scattered is determined by measuring the time delay between transmitting the pulse and receiving the returned one.

The laser will be tuned to various wavelengths and used to investigate the height and particle size of aerosol layers present in the stratosphere at about the 25 km level. These aerosol particles consist largely of sulphuric acid globules and dust from volcanic eruptions. Their distribution and changes over the globe yield a great deal of information about air circulation in the stratosphere.

The **INSTITUTE FOR THE STUDY OF ENGLISH IN AFRICA**'s major journal, *English in Africa*, was the only southern African literary journal to be listed in the International Citation Index, which means that articles published in it will earn additional subsidy for their authors' universities.



*Prof J K Black of the Department of Accounting assisting a student of the Community Treasurers' course*



The Institute's most important project, the Molteno Project, held its first country-wide conference on language education in the primary school which was attended by 140 senior representatives from ten departments or ministries of education in nine territories. The conference ran for twelve days, and had a significant outcome in the production of a blueprint "strategy for our region" for five of the participating territories. Delegates highlighted the Project's present and future role as a key agent of change in the upgrading of the whole primary school curriculum in our sub-continent.

Towards the end of the year the Project received magnificent new financial support from BP. This will provide for the appointment of a senior research officer in the Johannesburg office, and the establishment of a mobile teacher education unit, thus greatly strengthening the Project's ability to meet the challenges of expansion in Botswana, Kwazulu and Ciskei.

The Academic Skills Programme showed a marked improvement in the regularity of attendance of its students. Statistical evidence

pointed to significant improvement over a period of time in the performance of students attending the science programme. Arts students freely testified to their sense of improved ability to cope with essays, although it proved difficult to show this statistically.

Prof C Hamm, Arthur R Virgin Professor of Music at Dartmouth College, Hanover, New Hampshire, USA, visited the **INSTITUTE OF SOCIAL AND ECONOMIC RESEARCH (ISER)** as the University Fellow for 1985. He conducted research on popular music of the forties and fifties in the extensive archives of the International Library of African Music (ILAM).

A workshop on the Liberal Party of South Africa was held by the ISER in July and a publication of the proceedings of this is forthcoming. The Development Studies Unit carried out wide research on facets of planning in Grahamstown and the planning process in Region D (eastern Cape).

The Director, Prof P C J Vale, wrote and commented extensively on political and social developments in the country for local and



*Chopi musicians arriving for the Grahamstown Festival*



*Students at the LIRI training centre in Durban learn to cut patterns for footwear manufacture*

foreign media. In August he was elected vice-president of the Political Science Association of South Africa.

On a visit to West Germany in February, Mr A T N Tracey, Director of ILAM, observed a growing cultural interest in Africa, but noted that there were few institutions catering for this interest. It is one of the aims of ILAM to fill this gap in the future, especially through a re-publication of its record series *The Sound of Africa*.

A major contribution was made to the leather industry by the **LEATHER INDUSTRIES RESEARCH INSTITUTE (LIRI)** in the area of pollution control through the development of practical wastewater purification methods and systems for the recycling of water and chemicals in the leather tanning industry. This resulted in the publication of a design guide for industry and the preparation of plant design and layout, as well as the training of staff for many tanneries.

In collaboration with the Department of Microbiology and the Electron Microscopy Unit, an important study of the bacteria and

enzymes which damage skin, reducing the leather potential, and methods for inhibiting this destructive biological action, was started.

The Institute had a budget which was in excess of R1,8 million for the first time, and a staff of 56 located in the Head Office in Grahamstown and the other offices in Port Elizabeth, Cape Town, Durban and Pietermaritzburg. It also took on the training of 1 500 people in three centres under the government's unemployment training scheme. The new mimosa/aluminium upper leather tanning process developed at the Institute is now being marketed world-wide.

The five-year old **NATIONAL ENGLISH LITERARY MUSEUM (NELM)** expanded to include an exhibition gallery for the Department of Printing and Publishing History, the Eastern Star Gallery. This was made possible through the purchase, restoration and donation to the Museum of the historic building at 4 Anglo-African Street, Grahamstown, by the Argus Group. The premises will be fitted out as a working reconstruction of the offices of the Eastern





*The Eastern Star Gallery (NELM) at 4 Anglo African Street, Grahamstown*

Star newspaper, the predecessor of the Johannesburg daily The Star, as they may have appeared in 1871.

The Museum received permission to accept the donation of a building at 9 Cross Street, Cradock from the AA Mutual Life. With the assistance of the Cradock Municipality the house, where Olive Schreiner lived as a teenager, is being restored as a Karoo town cottage of the period and will house Schreiner memorabilia.

Twenty-three pencil sketches of South African writers by Nils Burwitz from NELM's permanent collection went on display for the first time at the 1820 Settlers Monument in April. Exhibitions were also mounted on Olive Schreiner, Thomas Pringle and South African poets. The educational programme was extended through the production, in collaboration with the Cape Provincial Library Service, of a poster and booklet on South African poetry in English.

The work of the **TICK RESEARCH UNIT** in the Department of Zoology and Entomology, which focuses its attention on the biology and

control of ticks, expanded to include internal parasites of domestic animals in the eastern Cape and Karoo. The seasonal abundance of worms in Angora and Boer goats running in valley bushveld near Uitenhage were determined. Similarly, the seasonal abundance of worms in Merino sheep near Paterson and of Friesland calves on the coast near Alexandria were ascertained. At present the seasonal abundance of both internal and external parasites in Angora goats is being investigated in the Jansenville district and a similar survey is being conducted on Dorper sheep, Angora goats and beef cattle in the Grahamstown area.

*Derek S. Henderson*

Dr D S Henderson  
VICE-CHANCELLOR



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