

# UNIVERSITY OF NATAL

# GRADUATION/DIPLOMA CEREMONY

1995

WEDNESDAY 20 DECEMBER 18h30

**DURBAN** 

#### THE CHANCELLOR

"Chancellor" is an office that goes back to Antiquity: the original *cancellarius* regulated access to the Roman Tribune. In medieval times, the office became associated with the heads of the writing departments of the early kings. Because so few people were literate, a chancellor was automatically learned. This explains why the heads and spokesmen of the early universities were also accorded the title. More recently, the office has become largely symbolic. The executive head of a university is its vice-chancellor.

Archbishop Hurley is the fifth Chancellor of the University of Natal. His predecessors were: The Honourable D G Shepstone (1949-1966), Dr G G Campbell (1967-1973), Dr B A Armitage (1973-1983), and the Honourable R N Leon QC (1983-1992).

#### THE MACE

The Chancellor's Mace, generally referred to as "the Mace", is used on ceremonial occasions presided over by the chancellor and is regarded as the Chancellor's "staff of office". It symbolises the University's protection of its Chancellor.

The use of the mace as a symbol of authority has a long history. The head of a copper mace, which apparently dates back to the 12th Century before Christ, has been excavated at Beyce Sultan in Asia. In the early centuries, churchmen who went to war often carried a mace in preference to a sword. One side of the mace-head was beautifully decorated with the owner's emblem and on the other side was a large knob which served as a weapon, and was always round so that the church law never to shed blood was always carefully observed! In the early centuries the mace was a symbol of the king's authority. During the power struggle between the king and the Commons in the 13th Century, the king gave the speaker the mace as a symbol of his indemnity against arrest.

The Mace was designed by Mr GH Atkins, senior lecturer in sculpture in the University's Department of Fine Arts, was made in England and was first used at the 1970 graduation ceremonies.

#### THE ARMORIAL BEARINGS (See front cover)

The armorial bearings of the University of Natal were awarded by the College of Arms in London.

The two black wildebeest come from the arms of the Province of Natal. They are shown in full course to symbolise movement and progress. The two open books represent the universal heritage of knowledge and the two centres of the University, Durban and Pietermaritzburg. The five pointed star refers to the naming of Natal by Portuguese navigators when they landed for the first time at Durban on Christmas Day in 1497. *Stella Aurorae*, star of the dawn, symbolises the role of the University in bringing to light new knowledge and spreading the enlightening influence of education.

#### **ACADEMIC DRESS**

The wearing of gowns by judges, ministers, teachers and scholars is an ancient and impressive custom. When the graduating students at universities receive their diplomas or degrees, they, too, (and perhaps, for some, only this once in their lives), wear the caps and gowns of this long tradition. By wearing the ancient regalia, they hold hands with students past and students present.

In modern times the standard cap and gown are almost universally worn. Of all the components of the costume, the hood conveys the greatest amount of information: it makes clear the level of the degree, the faculty in which it was given, and the institution which awarded it.

#### CONVOCATION

After being capped by the Chancellor, each graduate moves across the stage and hands to the President of Convocation or his representative a hood incorporating colours that indicate the degree being awarded and the Faculty in which it is being awarded. The President places the hood upon the graduate's shoulders, and, at the end of the ceremony, after the Chancellor's procession has left the stage, leads a procession of the new graduates out of the hall, row by row, to symbolise their acceptance into, and future membership of, the Convocation of the University of Natal, the statutory body through which graduates have the opportunity to play a continuing part in the affairs of the University

#### ERRATA IN GRADUATION PROGRAMME ON 20 DECEMBER 1995

cum laude	MScEng	Chathury	Ashendra Sewkumar
fix - Aaron	BSc(EL)	Ntshangase	Bhekani Aaron
OMITTED	BSc(EC)	Reddy	Thiagarajen Valoo
fix - Willemse	BSc(EC)	Willemse	Martin Louis
DELETE - NOT COMPLETE BSc(ME)		Eksteen	Markus Sven

# **OFFICERS**



Chancellor The Most Reverend D E Hurley, OMI, DD

Archbishop Emeritus of Durban PhL (Rome), STL (Rome)

Vice-Chancellor and Principal B M Gourley

CTA (Witwatersrand), MBL (Unisa), CA(SA)

Chairman of Council C van der Pol

BSc, PhD (Witwatersrand)

Deputy Vice-Chancellor C F Cresswell

and Durban Principal BSc (Hons), MSc (Rhodes), PhD (Bristol)

FRSSAF, M.A.S.S.Af

Deputy Vice-Chancellor E M Preston-Whyte

Research and Development BSocSc (Hons), PhD (Natal)

Deputy Vice-Chancellor E Ngara

Planning and Resources BA (Hons), MPhil, PhD (London)

Deputy Vice-Chancellor and D A Maughan-Brown

Pietermaritzburg Principal BA (Cape Town), MA (Cantab),

DPhil (Sussex)

Vice-Principal J Volmink

Durban BSc, BSc (Hons) (Western Cape), MS,

PhD (Cornell)

Vice-Principal E Bawa

Pietermaritzburg BSc (Unisa), BSc (Hons) (Natal), MSc (UDW),

PhD (Durham)

Registrar GJ Trotter

BA (Hons), MA (Duke)

Convocation Representative B F Van Dyk

BA, BA (Hons), MA

Orator J U Jacobs

BA (Pret), THED BA (Hons) (Unisa), MPhil,

PhD (Columbia)

#### **Dean of Faculty**

Engineering L W Roberts

PrEng MScEng (Natal), PhD (London)

DIC MSAIMechE, MASME

#### **PROGRAMME**

The Academic Procession enters the Hall

The Chancellor constitutes the congregation

#### **WELCOME TO GUESTS**

The Vice-Chancellor

# PRESENTATION OF DOCTORAL GRADUANDS

The Deans of Faculties

### **HONORARY DEGREE**

Mr. Andrew Tracey, MA (Oxford)

#### **ADDRESS**

Dr. Andrew Tracey

#### MUSIC

The Natal University African Music Ensemble - directed by Geoffrey Tracey Traditional/fusion music, eclectic in style and influenced by the music of Africa and the West Indies

Organist - Mr. Cameron Upchurch

# PRESENTATION OF GRADUANDS AND DIPLOMATES

The Deans of Faculties

The Chancellor dissolves the congregation

The congregation is invited to join in the singing of the National Anthem

The Academic Procession leaves the Hall

The congregation is requested to stand while the academic procession enters and leaves the hall and, during the ceremony, to remain seated until its conclusion. Only officially authorised persons may take photographs during the ceremony.

The operation of cellular 'phones is not permitted in the hall.

Refreshments will be served to graduands and their guests in the first floor Gallery above the main entrance facing Francis Farewell Square at the conclusion of the ceremony

# DOCTOR OF PHILOSOPHY IN THE FACULTY OF ENGINEERING

	Discipline
Ferreira, Jacques Henri, MScEng  Thesis: High temperature fatigue crack growth behaviour of TIMETAL 21 an oxidising environment (Dr. E. E. Aghion)	Mechanical S in
Levy, David Charles, MScEng  Thesis: A development environment for high performance embedded real-ti- control systems (Prof. H. L. Nattrass)	Electronic ime

# **HONORARY GRADUAND**

Tracey, Andrew Travers Norman, MA (Oxford)
MASTER OF SCIENCE IN ENGINEERING
Discipline
♦Burton, Bruce, BScEng
Chathury, Ashendra Sewkumar, BScEng Electrical Dissertation: Two quadrant digitally controlled force-commutated rectifier with near sinusoidal line currents at unity poewer factor (Prof. R. G. Harley and Mr. G. Diana)
Katz, Moran, BScEng
♦Kleinhans, Charl Edwin, BScEng
♦Marais, Stirling Vaughan, Masters Diploma in Technology

♦ degree awarded cum laude

#### BACHELOR OF SCIENCE IN ENGINEERING

(Chemical Engineering)

Balgobind, Praveen Bhimsan, Vimal Charalambous, Harris& Cooper, Richard Donaldson Curren, David John Dickens, Joanne Nicola Govender, Lynette Govender, Nirushanan Greig, Shane Harribhai, Rakesh Ratilal Hurburun, Randhir Tikaram Hurrinanan, Sanjeev Kathrada, Muhammad Lawrenson, Gavin Peter Mangali, Nirendra Mputamputa, Jacob Molefe Vuvani

Naidoo, Veerendren Naidu, Thubendran Padayachee, Luvashi Papli, Ravinash Pryce Lewis, Hilton Gavin\* Radebe, Dumisani Zeph Rana, Kerwin Semnarayan, Pravin Shabu, Abdool Sacoor Shah, Pragna Shah. Simmie Sherliker, Cara Nicola Shirley Possolo, Joao Pedro Gaines Singh, Shivani Sweeney, Shannon Mavorneen\* Zaborowski, Mark Richard

♦ degree awarded cum laude
 ★ degree awarded summa cum laude

(Civil Engineering)

Bezuidenhout, Sarel Jacobus Clothier, Antony Neil Desai, Safya Dickson, Roger Keith Glass, Sean

Gould, Anthony Bryden Hein, Michael Hugh Hooper, Gareth Wallace Jackson, Brian Richard Jackson, Neil Andrew Lourens, Clinton
Lubbe, Jene Nicola
Muchanya, George
Muller, Richard
Muthen, Kubendhran Marshall
Nel, Trevor Clive
Nell, Andrew Louis
Ngumbe, Sibongile Hazel

Pieters, Eben
Pillay, Kollan
Rikhotso, Khetela Richard
Ross, Matthew Paul
Seesurrun, Sanjeev
Slater, Kendall Lloyd
Trevethan, Bradley David

# (Electrical Engineering)

Ally, Muhsin
Carter-Brown, Clinton Geoffrey♦
Chetty, Jayalogan
Dama, Geetesh Kantilal
Hambidge, Shaun Douglas
Kaura, Abiud Hiskia
Kekana, William
Magenuka, Thokozani Raymond
Maharaj, Suvir
Mazibuko, Thokozani Kenneth
Mistri, Jayant
Mohabeer, Aresh

Moodley, Geeven Valayatham
Moodley, Kirshnee
Naidoo, Rajendran Moonsamy
Naidoo, Vijandren
Ntshangase, Bhekani Aron
Patterson, Gregg Richard
Prato, Oren Roy
Reddy, Thireshan
Stevens, Michael James
Takoordeen, Mitesh Dharamrajh
Williams, Gary Langford
Wright, Shawn Wesley

♦ degree awarded cum laude

#### (Electronic Engineering)

Baranyay, Guy Miklos Beutels, Leo Patrick Budd, Damian Andrew John Chana, Amish Harkisan Colyvas, Spero Davies, Mark Thomas **Debipersad**, Sanjeev Chundurduth Govender, Diagasen Moghambaram Govender, Thaigananthan Green, Breton Anthony Hallett, David Edward Harilal, Kamal Balgopal Huri, Jitesh James, Gareth Robert Judge, Garth Makan, Divesh Kanthylal

Moodley, Perumal Shunmugam Naidoo, Irvindra Thangavalu Naidoo, Maxim Oellermann, Timothy Ralph\$ Oxlee, Darren Neil Pillay Narrainen, Rosy Reddy, Nevindren Schutte, Erich Kurt Snowden, Michael Somaroo, Privend Sewlal Sooful, Jayren Jugpal Stone, Gavin Vally, Shueyb Yunus Willemsen, Martin Louis Willemsen, Lloyd Andrew♦ Wood, Shawn Charles❖

♦ degree awarded cum laude
 ★ degree awarded summa cum laude

# (Mechanical Engineering)

Allinson, Paul James
Cameron, Luke
Eksteen, Markus Sven
Elliott, Dean Justin
Fong, David Wingson Kai★

Gabriel, Carl Sunil Gibbs, Dereck Brian

Gifford-Nash, Timothy Peter

Govender, Yougan

Jajbhay, Mohammed Iqbal Ahmed

Law, Stephen Mark

Maduramuthu, Poovenasen\$

Mason, Maurice John

Mbatha, Zamimpilo Dennis

Mendes, Arlindo Gil Paulo◆

Midgley, Kim Arthur

Mseleku, Benson S'Khumbuzo

Niedinger, Sascha

Osborne, Simon Miles
Palmer, Ian George
Perry, Gregory Marc
Poynton, Kenneth Taylor
Raghavjee, Rian Mansooklall
Ramsudh, Ashwin Inderjith, BSc

(UDW)

Reynolds, Jason James

Seetal, Rakesh Telian, Ryan David Vahed, Abdul Qader Van Kan, Michael Nicolas

Von Klemperer, Christopher Julian

Weinert, Horst Dieter Welch, Bradley Kenneth Wenman, Bruce Grant Wessels, Christopher John

♦ degree awarded cum laude
 ★ degree awarded summa cum laude

## BACHELOR OF SCIENCE IN LAND SURVEYING

Akerman, Charles Conrad Bradford, Angus Robert Davies, Craig Allan Du Toit, Ian

Hicks, Patrick Scott Hitchins, Dudley Myles Motala, Siddique Thrash, Kenneth

# POSTGRADUATE DIPLOMA IN ENGINEERING

**Brand**, Christiaan Pieter, *BScEng* **Harriram**, Vishaykanth Ramdeo, *BScEng* 

Meintsma, Jelle, BScEng Moodley, Ganasen Yulganathan, BScEng



CONFERMENT OF THE DEGREE OF DOCTOR OF MUSIC HONORIS CAUSA, UPON ANDREW TRAVERS NORMAN TRACEY

Andrew Tracey is one of South Africa's foremost authorities on African music. He is the son of Dr Hugh Tracey who was the founder of the International Library of African Music at Rhodes University. Andrew Tracey was born in Durban on 5 May 1936. He was educated at the Durban Preparatory High School and at Charterhouse in England. He studied at Exeter College, Oxford, where he obtained an MA in Social Anthropology.

His has spent a lifetime researching, performing, publishing, promoting and continually learning the many musics of Africa. In 1960 he assisted in founding the Kwanongoma College of African Music in Bulawayo, Zimbabwe. During the mid-60s he was Musical Director and also a performer in *Wait a Minim*, the South African stage show which played for seven years in Southern Africa, England, the United States, Canada, New Zealand and Australia. From 1961-63 and again from 1969-77 he worked as staff musicologist at the International Library of African Music. Since 1969 he has been editor of its journal, *African Music*. Since 1977 he has also been Director of the International Library of African music, its research institute and its archive of African music. After lecturing in music for two years at the University of the Witwatersrand, he was appointed lecturer in African Music at Rhodes University in 1979. Since 1980 he has been Organiser of the series of Symposia on Ethnomusicology and also editor of the proceedings.

His fieldwork research has taken him into all parts of South Africa and the subcontinent: Zimbabwe, Mozambique, Malawi, Zambia and Namibia. He has been productive not only in presenting aspects of his research at conferences and workshops in various centres in Southern Africa and as far afield as Jamaica, Norway and Portugal, but also in film production, recording of music, performing, playing and teaching instruments and adjudicating at eisteddfods. This includes writing and producing ethnomusicology films for Pennsylvania State University, performing the music for the film, *The Gods Must Be Crazy*, being leader of the Andrew Tracey Steelband since 1969, adjudicating at the Roodepoort International Eisteddfod, and playing more than six African and six non-African musical instruments. He has been invited to give guest lectures at most South African universities, as well as at various universities in the United States, Germany and Portugal. Through his exhibitions of African musical instruments and his performances he has shared his knowledge and love of African music with audiences throughout South Africa and in Europe.

#### **National Anthem of South Africa**

Nkosi sikelel' i-Afrika,
Maluphakanyisw' uphondo lwayo.
Yizwa imithandazo yethu,
Nkosi sikelela,
Thina lusapholwayo.

Morena boloka Setjhaba saheso. Ofedise dintwa lematshwenyeho

> O se boloke, O se boloke Setjhaba saheso Setjhaba sa, South Africa South Africa

Uit die blou van onse hemel
Uit die diepte van onse see
Oor ons ewige gebergtes
Waar die kranse antwoord gee
We can hear the land rejoicing
With a voice not heard before
Let the people of our country
Live in peace for evermore

#### A BRIFF HISTORY OF THE UNIVERSITY OF NATAL

In 1910, partly on the initiative of the Natal Colonial Government, the Natal University College (NUC) in Pietermaritzburg enrolled its first 57 students. A handful of Professors taught in various venues, even in a corrugated iron annexe behind Maritzburg College! In 1912 the Old Main Building at Scottsville opened.

But from the beginning there had been a strong feeling that Durban, too, should have the advantage of tertiary education. Here the Natal Technical College supplied the foundation, though by 1922 NUC had taken over courses in engineering and commerce. In 1932, Howard College opened on the Durban Berea. Thus was born an abiding feature of the NUC - its dual-based character. In scale it remains unique in South Africa.

With the dedicated assistance of the Fabian Socialist, Mabel Palmer, classes for so-called "non-europeans" were run by NUC from 1936 onward. Gradually the non-racial character of the institution established itself; though the Medical School, founded in 1951 for African, Indian and "Coloured" students still fitted the segregated pattern of the surrounding society. The National Party Government's University Act of 1959 was a blow to this emergent non-racialism. Overriding all protest, it not only imposed apartheid on the institution but also drew strict limits around the "autonomy" that the NUC had achieved in 1949 as the "University of Natal". Aside from the Medical School, persons of colour were forbidden to enter the University till racial restrictions were partly lifted in 1983. Since then the University has welcomed increasing numbers of students who are not white, whose overall numbers in 1993 stood at 48.8% of the University's total enrolment.

A major step in developing "dualism" was taken in 1952, when Dr E G Malherbe moved the administrative function from Pietermaritzburg to Durban. Departments in the two centres separated in 1973; though when academic expertise is needed, there is still much fruitful interchange between Durban and Pietermaritzburg. Today 9500 students are in the former centre and 5500 in the latter. There is a considerable overlap of subjects offered in Arts, Humanities, Law, Commerce and Natural Sciences. However, the Durban campus has long been recognised for its Engineering, Architectural and Medical Faculties; while Pietermaritzburg developed its highly regarded Agricultural Faculty.

The University of Natal has been fortunate in having some outstanding men as Principals and Vice-Chancellors. A sign of changing historical times has been the recent appointment of the first woman to achieve this status at a South African university, Professor Brenda Gourley. The largely ceremonial Chancellors, too, have been distinguished, not least the present incumbent, Archbishop Hurley. Among the alumni are men as renowned in their somewhat different fields of endeavour as Alan Paton and Steve Biko; while Honorary Graduates include Roy Campbell, Abdullah Ibrahim and Nelson Mandela.

The old order yields to the new. Today the University has embarked on a major reevaluation of its role in future South African Society. This is reflected in its Mission Statement 1989, which dedicates the University in practical and realistic terms to service of the whole regional community, irrespective of race, sex, colour, creed or nationality. In incorporating development as a key component of its Mission besides teaching and research, the University has declared its commitment to upliftment but not at the cost of academic standards. This is the responsibility the University will have to shoulder in the stirring times that stretch up to the Centenary Year 2010.

UNIVERSITY
OF
NATAL
ARCHIVES