



UNIVERSITY OF NATAL

GRADUATION/DIPLOMA CEREMONY

1990

SATURDAY 24 MARCH

10h00

DURBAN

PROGRAMME

The Chancellor constitutes the congregation

PRAYER

Professor V J Bredenkamp
BA (Rhodes), MA (Oxon), MA, PhD (Princeton)

WELCOME TO GUESTS

The Vice-Chancellor

PRESENTATION OF FELLOWS OF THE UNIVERSITY OF NATAL

The Deans of Faculties

PRESENTATION OF DOCTORAL GRADUANDS

The Deans of Faculties

HONORARY DEGREE

The Orator presents the Honorary Graduand

NOEL DESMOND CLARENCE

for the degree of
DOCTOR OF SCIENCE

ADDRESS

Professor N D CLARENCE
MSc (SA), MA (Cantab), PhD (Natal)

BRASS ENSEMBLE

Third Symphony Michel Richard de la Lande
Air Henry Purcell

PRESENTATION OF GRADUANDS AND DIPLOMATES

The Deans of Faculties

The Chancellor dissolves the congregation

BRASS ENSEMBLE

Trumpets: Michel Schneuwly (Leader); Ken Cox; Ivan Eggersdorfer
Trombones: Philippe Cousineau; Stuart Scott; Serge Filliatraut

The congregation is requested to stand while the academic procession enters and leaves the hall and to remain seated until the conclusion of the ceremony.

Only officially authorised persons are permitted to take photographs during the ceremony.

Refreshments will be served in the upper gallery at the conclusion of the ceremony.

OFFICERS

Chancellor	The Honourable R N Leon QC, BA, LLB (Natal)
Vice-Chancellor and Principal	P de V Booysen MScAgric (Natal), PhD (California)
Chairman of Council	G C Cox BCom, LLB (Cape Town)
Deputy Vice-Chancellor and Vice-Principal, Durban	C F Cresswell BSc(Hons), MSc (Rhodes), PhD (Bristol), FRSSAf
Deputy Vice-Chancellor and Vice-Principal, Finance and Technical Services	B M Gourley CTA (Witwatersrand), MBL (Unisa), CA (SA)
Deputy Vice-Chancellor and Vice-Principal, Pietermaritzburg	C de B Webb BA(Hons) (Witwatersrand), HOD (Pret), MA (Cantab), FRHistS
President of Convocation	J M Pet PrEng, BScEng (Natal), MSAACE
Orator	P J H Scholtz BA(Hons), HED (Natal)
Registrar	B X de Wet MA (Pret), DLitt et Phil (Unisa), HED (Pret)

DEANS OF FACULTIES

Architecture & Allied Disciplines	M Kahn MSc, TRP (Witwatersrand), PhD (Natal), TRP (SA), MRTPI, MSAITRP, MAPA
Engineering	L W Roberts PrEng, MScEng (Natal), PhD (London), DIC, MSAIMEchE, MASME
Medicine	S Kallichurum MB ChB, MD (Natal)
Science	D E A Williams-Wynn MSc, PhD (Rhodes), CChem, FRSC

FELLOWS OF THE UNIVERSITY OF NATAL

(See page 17)

FACULTY OF MEDICINE

Baker, Lynne Wilford, MB BCh (Witwatersrand), MSc (McGill), FRCS (Edinburgh), FRCS (England)

Awarded for distinguished contributions in surgery.

Seedat, Yackoob Kassim, MD (NU Irel), FRCP (London), FRCP (Irel), FACP, FCP (SA), FAAC, FCCP, FICA

Awarded for distinguished contributions in medicine.

DOCTORAL GRADUANDS

DOCTOR OF MEDICINE

Discipline

Buck, Robert Hilton, MB ChB (Cape Town) Chemical Pathology
Thesis : Studies on human chorionic gonadotrophin as a tool for the biochemical diagnosis of ectopic pregnancy.

Haffejee, Ismail Ebrahim, MB BCh (Witwatersrand) Paediatrics & Child Health
Thesis : Rotavirus infections in Indian infants and children in Chatsworth, Durban.

Padayachi, Thavan, MB ChB (Natal) Chemical Pathology
Thesis : The role of oxytocin, oestrogen and progesterone in human pregnancy and labour.

DOCTOR OF PHILOSOPHY IN THE FACULTY OF SCIENCE

Discipline

Ansell, Stephen Michial, BSc(Hons) Chemistry
Thesis : The Diterpenes of the genus *Erthroxylum* P Brown.

Henning, Michael Anthony, BSc(Hons) Mathematics
Thesis : Generalized adjacency in graphs.

Huckett, Barbara Isobel, MSc Biology
Thesis : Gene transfer by reception-mediated endocytosis: stable expression of *NEO* following insulin-directed entry into HepG2 cells.

Livingstone, Douglas James, Hon DLitt (Natal), Biology
Thesis : A microbial study of water quality in the marine environment off Durban 1964-1988.

Notcutt, Mark, BSc(Hons) Physics
Thesis : Gas lenses.

Watts, Ann Dorothea, BSc(Hons) Psychology
Thesis : Volume 1: The modification of Luria's neuropsychological investigation for use with white English-speaking South African children 8-14 years.
Volume 2: Luria's neuropsychological investigation for children: An adaption from his work.

DOCTOR OF PHILOSOPHY IN THE FACULTY OF ENGINEERING

(Department of Agricultural Engineering)

Hansen, Alan Christopher, MScEng
Thesis : A diagnostic quasi-dimensional model of heat transfer and combustion in compression-ignition engines.

Taylor, Andrew Bruce, MScEng
Thesis : Combustion stress in compression-ignition engines

(Department of Chemical Engineering)

Dawson, Nicholas Finch, BScEng
Thesis : Solid state reduction of chromite.

(Department of Electrical Engineering)

Boje, Edward Sidney, BScEng(Witwatersrand), MScEng
Thesis : Quantitative feedback design and construction of a two by two system with large disturbances.

Green, Walter Battman, MScEng
Thesis : Numerical algorithms for PWM modulators.

(Department of Electronic Engineering)

Bouwer, Paul Frederick, BScEng

Thesis : A proportional timing generator for measuring intermodulation distortion on television transposers.

DOCTOR OF PHILOSOPHY IN THE FACULTY OF MEDICINE

Discipline

Gathiram, Premjith, MSc(UDW) Physiology

Thesis : Endotoxaemia in intestinal dysfunction in experimental animals:
Intestinal ischaemia and hyperthermia.

**DOCTOR OF PHILOSOPHY IN THE FACULTY OF ARCHITECTURE
AND ALLIED DISCIPLINES**

Discipline

Smit, Daniel Petrus, BA(Hons)(Rhodes), MUP(Oregon) Town and Regional Planning

Thesis : The political economy of urban and regional planning in South
Africa towards theory to guide progressive practice.

HONORARY GRADUAND

(See page 16)

Clarence, Noel Desmond, MSc (SA), MA (Cantab), PhD (Natal)

GRADUANDS

MASTER OF SCIENCE

Discipline

Airey, Derek Dawson, BSc(Hons) Biology

Thesis : Development of methods for testing of industrial effluent toxicity
in a sub-tropical marine environment.

Discipline

- Bickerton, Iain Bruce, BSc(Hons)** Biology
 Thesis : Aspects of the biology of river prawns of the genus *Macrobrachium* (*Decapoda: Caridea: Palaemonidae*) in the St Lucia system.
- Cazalet, Richard Stephen, BSc(Hons)** Physics
 Thesis : Development of non-linear optical components for a laser system.
- de Bruyn, Warren James, BSc(Hons)** Chemistry
 Thesis : The photochemistry of Uracil and Cytosine in aqueous solution.
- Dempers, Clemens Arnold, BSc(Hons)(Stell)** Physics
 Thesis : Linear properties of cross-field ion acoustic instability in a double-plasma device.
- Dewar, Janice, BSc(Hons)** Biology
 Thesis : An investigation of the storage behaviour characteristics of *Podocarpus henkelii* Stapf seeds.
- * **Ford, Lesley, BSc(Hons)** Biology
 Thesis : Effect of hydrogen peroxide on the photosynthetic biochemistry of *Pisum sativum* L.
- Gravett, David Michael, BSc(Hons)** Chemistry
 Thesis : The photochemical kinetics for acetophenone photosensitized photolysis of thymine dinucleotides and oligonucleotides.
- * **Haines, Christopher Mark, BSc(Hons)** Physics
 Thesis : The simulation of physical phenomena with permanent magnets.
- Ladwig, Julius Mark, BSc(Hons)** Physics
 Thesis : Longitudinal variations in the occurrence of whistlers.
- * **Malone, Mark Emmett, BSc(Hons)** Chemistry
 Thesis : Thymine photochemistry in micellar systems.
- McDonald, Gavin John, BSc(Hons)** Biology
 Thesis : The distribution and taxonomy of the orchidaceae in Durban and surrounding areas.
- Ponquet, Ryan Tyson, BSc(Hons)** Chemistry
 Thesis : Aspects of tocopheral antioxidant activity.
- Ramlall, Krishendutt Jewdhun, BSc(Hons)** Physics
 Thesis : Ray paths of VLF waves generated in the vicinity of the equatorial plane.

* = Degree awarded *cum laude*

Richardson, Eleanor Judith, BSc(Hons) Biology
Thesis : Physiological aspects of torpor in the fat mouse *Steatomys pratensis*, (Dendromurinae).

Ripley, Bradford Sherman, BSc(Hons) Biology
Thesis : Investigations of the processes involved during the photoinhibition of *Zea mays* L. seedlings.

Stegeman, Johanna, BSc(Hons) Biology
Thesis : Selected metabolic studies of the fruit bat *Epomophorus wahlbergi* in captivity.

* Thomas, Rosalee Cara, BSc(Hons) Chemistry
Thesis : The kinetics of DNA photochemistry.

van Dyk, Deborah, BSc(Rhodes), BSc(Hons)(UDW) Biology
Thesis : Genetic variation within the endemic Murid species, *Otomys unisulcatus* F. Cuvier, 1829 (Bush Karroo rat)

MASTER OF SCIENCE IN ENGINEERING

(Department of Agricultural Engineering)

* Buitendag, Isak, BScEng
Thesis : Modelling infiltration under different tilled conditions.

Haines, Richard Walter, BScEng
Thesis : Compression-ignition combustion of synthesised hydrocarbon fuels.

Lecler, Neil Louis, BScEng
Thesis : A performance-based traction control system.

(Department of Chemical Engineering)

Bachmann, Taaf Reinhardt, BScEng
Thesis : A model for wet high-intensity magnetic separation of weakly-magnetic minerals.

* = Degree awarded *cum laude*

Dalgleish, Gavin Barry, BScEng

Thesis : An investigation into the performance of a three-phase reactor.

* **Portsmouth, Robert Lynton, BScEng**

Thesis : The kinetics of 2-methyl-3-buten-2-OL dehydration over an alumina catalyst

Slaghuis, Johan Hendrik, NDH(Chem), Dip Tech(Vaal Tech)

Thesis : Volatile material in coal and the role of inherent mineral matter.

(Department of Electrical Engineering)

* **Seaman, Craig, BScEng**

Thesis : Transient analysis of a synchronous machine following unsymmetrical shunt faults in unbalanced power systems.

(Department of Electronic Engineering)

Burstein, David Bruce, BSc(Hons)(Bath, England)

Thesis : Linearisation of high frequency transmitters utilising modulation feedback.

Davies, Trevor Rowland, BScEng

Thesis : Implementation of a proprietary CAD graphics subsystem using the GKS standard interface.

* **Hensley, Norman Peter, BScEng**

Thesis : The construction and testing of an experimental travelling wave tube amplifier.

Hoole, Andrew Charles Frederick, BScEng

Thesis : The design of an integrated circuit for use in a smart RS232 cable using the LIS-VLSI design tool.

Maharaj, Bodhaswar Tikanath Jugpershad, BScEng

Thesis : Characterization of helical slow wave structures in travelling wave tubes.

* **McDonald, Stephen Andrew, BScEng**

Thesis : Development of network analyser based microwave antenna range and characterisation of 1-12 Ghz antenna standard.

Mhlongo, Aubrey Zithulele, BSc(Hons)

Thesis : Computer aided design and manufacture of coaxial helix transformers for travelling wave tubes.

* = Degree awarded *cum laude*

Pitchers, Richard Charles, BScEng

Thesis : A comparative study of various speech recognition techniques.

Smith, Darren Mark, BScEng

Thesis : The theoretical and practical analysis of low perveance Pierce electron guns

(Department of Mechanical Engineering)

Bright, Glen, BScEng

Thesis : Automated guided vehicle system for manufacturing operations.

Duffy, Kevin Jan, BSc(Hons)

Thesis : The optimal design of hybrid composite laminates under free vibrations or buckling loads.

Goolam, Ebrahim, BScEng(UDW)

Thesis : Performance evaluation of mechanical draught counterflow water cooling towers.

Miglietti, Warren Martin Andre, BScEng

Thesis : The manufacture of a hollow turbine rotor blade.

Morphis, George, BScEng

Thesis : The measurement of axial turbine tip flow phenomena in a moving wall annular cascade and in a linear cascade.

van der Steege, Anton Willem, BScEng

Thesis : Experimental investigation of special turbine blade-cooling configurations.

MASTER OF SCIENCE IN LAND SURVEYING

Discipline

Dinkele, John Malcolm, BScSur Surveying and Mapping

Thesis : The capture and storage of topographic information in digital format, from analogue stereo plotters.

*** Lourens, Uys Willem, BScEng** Surveying and Mapping

Thesis : A comparison of satellite data types and techniques for mapping irrigated land

* = Degree awarded *cum laude*

MASTER OF MEDICINE

	<i>Discipline</i>
De Bruyn, Colin, MB ChB (UOVS)	Haematology
Hargreaves, John, MB ChB (Cape Town)	Anaesthetics
Klopper, Stefan Marius, MB ChB (Cape Town)	Ophthalmology
Kozlowski, Jan Msciwoy Douglas, MB ChB (Warsaw)	Ophthalmology
Pillay, Gnanasagren Sathaseevan, MB ChB	Haematology
Pires, Antonio Jose Aravjo Faria, MB ChB (Oporto)	Ophthalmology
Richards, Shireen Patricia, MB ChB (Rhodesia)	Haematology
Tait, Dereck Roy, MB ChB (Pret)	Microbiology
Worner, Ulrike, MB BCh (Witwatersrand)	Anaesthetics

MASTER OF MEDICAL SCIENCE

	<i>Discipline</i>
Khedun, Shaun Mahabeer, BVSc & AH (UDAIPUR)	Pharmacology
Thesis : The effect of alcohol, isoniazid, rifampicin, paracetamol and hexane on hepatic gluconeogenesis and bromosulphthalein clearance.	

MASTER OF TOWN AND REGIONAL PLANNING

Adam, Asraf Mohamed, BA(UDW)	Naik, Bharti Chotoobhai, BSocSc
Bayat, Julieka, BA(UDW)	Schafer, Leigh Zelma Valerie, BA
Day, Tracy, BSocSc	Shaw, Catherine Jane, BA(Hons)
Kabi, Mmantsipo, BA(Transkei)	Webb, Nicholas Winston, BA
Mbali, Nonceba, BSocSc(Witwatersrand)	Wulfsohn, Terence Orde, BScAgric
Naidoo, Mahandra Gunarathanum, BA(UDW)	

BACHELOR OF SCIENCE (HONOURS)

	<i>Discipline</i>
+ Akerman, Leigh-Anne, BSc(Pharm)	Chemistry
+ Aliwell, Simon Richard, BSc	Chemistry
Arran, Pravindran Trevor, BSc(UDW)	Geology
+ Barnett, Michelle Ann, BSc	Biology
Barratt, Samantha Anne, BSc	Biology
+ Barsby, Jane, BSc	Geography
Booth, Russell Craig, BSc	Geology

+ = Degree awarded in the first class

Discipline

Bothma, Martin, BSc	Biology
Butler, Debra Jean, BSc	Geology
Chiliza, Simphiwe Ndayomuzi, BSc(UZ)	Applied Mathematics
Coady, Moira, BSc	Chemistry
Diegel, Aase, BSc	Biology
Dube, Thabile Gloria, BSc(UZ)	Computer Science
Edwards, Elizabeth Anne, BSc	Geology
Edwards, Sion Charles, BSc	Chemistry
+ Godefroy, Susan Jessica, BSc	Chemistry
Gouge, Odette Maria, BSc	Economics
Haines, Jennifer Bronwyn, BSc	Economics
+ Hansen, Bradley Miles Stougaard, BSc	Physics
Hansraj, Ashikaram, BSc(Unisa)	Mathematics
Hoar, Margaret Elizabeth, BSc(Unisa)	Biology
Isherwood, Peter, BSc	Geology
Karamata, Charles Lowrenz, BSc	Chemistry
Kriste, Angela Gayle, BSc	Chemistry
Lawler, Ian Alfred, BSc	Geology
MacFarlane, Grant Robert James, BSc(Cape Town)	Geology
Maharaj, Vanitha, BSc(UDW)	Chemistry
Mattson, Mark Christian, BSc	Biology
+ Melamed, Pavel, BSc	Computer Science
Mhlongo, Mfanafikile Don, BSc(UZ)	Mathematics
Monkhe, Thabo Vincent, BSc	Chemistry
Moodley, Manikam, BSc(Unisa)	Mathematics
Mungunda, Milka Martha Arnoldine, BSc(UNIN)	Psychology
Naidoo, Ramsamy, BSc(Unisa)	Mathematics
Pillay, Ramanie, BSc(UDW)	Geology
Pillay, Yoganathan Sigamoney, BSc(UDW)	Geology
Rissik, David, BSc	Biology
+ Sherwin, Heather Wendy, BSc	Biology
Todd, Colleen Barbara, BSc(Rhodes)	Biology
Tootal, Kevin Vernon, BSc	Geology
Truter, Agatha Aloma, BSc	Chemistry
Wadley, Susan, BSc	Chemistry
+ Woodward, Timothy Ian, BSc	Physics

+ = Degree awarded in the first class

BACHELOR OF MEDICINE AND BACHELOR OF SURGERY

Akoo, Mahomed Shiraz
 Bhagwande, Rohan
 Bisnath, Kavitha
 Bomela, Dumisani Sizwe
 Bux, Mahomed Tharique
 Chavda, Dhanesh
 Chetty, Devadasa
 Daya, Dharmandra
 Daya, Mahendra
 Dlamini, Stephen Muzikayise Silwane
 Dlova, Cordelia Noxolo

Gangan, Ravin
 Gobinca, Marshall Ngubekhaya
 Gopalan, Pragasan Dean
 Gounden, Yogapragasen Poovalingam
 Govender, Balasundurum
 Govender, Liganathan Munsamy
 Govender, Srinivasan Chinsamy
 Haribhai, Neeta Chimanlal
 Hlekane, Charles Tinyiko
 Ismail, Feizal Haroon
 Jagot, Mahmood Abdull Rahim

Jairam, Jaiprakash Thakor
Jayantilal Ramjee, Mira
Jogiat, Muhammad Goolam Hoosen
Jugoo, Ashilla
Juta, Sunil
Kgomo, Mpho Klaas
Khumalo, Nonhlanhla Patience
Madala, Nomandla Daphne
Maistry, Mervyn Gerarde
Mangera, Immrnan Mahmood
Mayosi, Bongani Mawethu
Mokwena, Edward Jimmy
Molapisi, Robert Martin Vusumuzi
Moodley, Yuben Pathmanathen
Moosa, Mahomed Faizal Hassim
Moosajee, Mohamed
Motaung, Clarence Sello
Motloung, Moeti Abel
Msibi, Alice
Mungai, Urvashi Dhooprajh
Myataza, Charles Lwanga
Mzileni, Sipetuxolo Witness
Naidoo, Mergan
Naidoo, Pairinban
Naidoo, Uvarasen Kumarswami
Naidoo, Yatinraj Narasumulu
Naidu, Sachidanandan
Nair, Rajendran
Nathoo, Narendra
Ndlovu, Mohelepi Percy
Ndumiso, Losman Benedict Mbuyiselo
Ngubane, Musa Griffiths
Nkohla, Mkululi Victor

Nkosi, Jabulani Abe Patrick William
Nteta, Mosomotsi Christopher
Nyati, Mabelandile Fundile
Palani, Manivasan
Pather, Rajakrishna Masilamoney
Pather, Selvan
Pershad, Santosh
Pillay, Devadas Ganesh
Pillay, Thillagavathie
Ramjee, Asmita Amratlal
Ranyane, Ralehlokoa Andrew
Reddy, Ramachandra
Roopnarian, Indra Purbhoo Nath
Royeppen, Edmund Christopher
Salig, Surendra Bhimrajh
Salig, Vikash
Sankar, Naveen Munessar
Sewpersad, Selina
Shah, Leshni
Shaik, Zulfika Mohammed
Sheik, Ismail Abdul Kader
Shongwe, Keith Ian Mantayi
Shunmugam, Ravendren
Sibanyoni, Vusmuzi Jonathan
Singh, Hansraj
Solanki, Anoop Chandrakant
Soni, Ellesh Narbharam
Suleman, Farhana Ebrahim
Toyi, Daluxolo Karl
Tune, Michael James
Walele, Azeem Hassan
Xobololo, Freedom Nkululeko

BACHELOR OF ARCHITECTURE

Allen, Maria Louise Claire
Arthur, Maxine
Avic du Buisson, Patrick Jean-Marie
Boothway, Adam Mark
Choromanski, Rodney Ralph
Foord, Geoffrey Roy
Grego, Rui Manuel Vieira
Hindle, Richard Anthony
Kartsounis, Vivienne Theresa
Lee, Chandra Maria Soares
MacKenzie, Janice Ann Marie
Magalhaes, Erika Antunes

Makin, Andrew John
Naidu, Sharendra Pragladhan
Napier, Mark
Reitz, Francis William
Ross, Robert James
Schwerzel, Petrus Johannes
Shiba, Selby Mchele
Smith, Alaric Heath
Stiemens, Gavin Lloyd
Sutton, Kevin Grant
Telford-Smith, Amanda Nell

BACHELOR OF SCIENCE (PHARMACY)

Bechoo, Shireen
Byres, Leanne Susan
Chaboolall, Vishala
Ebrahim, Hajra Hoosen
Govender, Thirumala
Halstead, Michelle
Hoosen, Khatija Bibi
Jacob, Sandra
Jerome, Lisa
Jhajibhai, Fathima Ebrahim
Kriese, Gustav Franz
Lawrenz, Anton Heinrich
Madden, Teresa Elizabeth
Maharaj, Ravi Leelamber
Maher, Clare Lynda

Moggridge, Anne
Moodley, Reggie
Munro, Rosanne Lynn
Naidoo, Neera Brijlal
Naidu, Indirani
Parker, Ian Charles
Ratcliff, Steven Andrew
Smith, Amanda Lynne
Soffiantini, Jeanette Denise
Stainton, Barbara
Stephen, Anita Coral
Theron, Michelle Julianne
Vahed, Yusuf Mahomed
Zervogiannis, Yianoula

BACHELOR OF SCIENCE IN ENGINEERING

(Agricultural Engineering)

Brooker, Andrew Gordon Pringle
Cole, Allen Kevin
Downes, David Stuart Trouncer

Rudnick, Timothy Simon
Wing, David Stuart

(Chemical Engineering)

Ahrens, Graham John
Aldworth, Martin Arthur
Bradford, Brian Richard
* Bull, Christopher Michael
Fernandes, Luis Alberto Rosado
Fyfe, Graham Carmichael
Greening, Michael John
Hurt, Quentin Edward
Kendall, Simon George
McCarley, Stephen Paul
Morley, Kevin Thomas
Naicker, Pravindrin

O'Reilly, Brian Clair
Pereira, Rogerio Araujo
Pillay, Bavanethan
Sewsunker, Indrani
Smith, Trevor Raymond
Spada, Angelo Roberto
Stevens, Laurence Colin
Welman, Johan Christiaan Adriaan
Wessels, Wessel Jurie
Yelland, Neil Ross
Yokwe, Armstrong Mbulelo

* = Degree awarded *cum laude*

(Civil Engineering)

Berry, Alan David
Booth, Gregory
Buccimazza, Domenico
Challis, Andrew John
Davis, Peter Brittan
Dyas, Andrew
Elphinstone, Robert Andrew
Ethelston, Deryck Michael
Förs, Eric
Gounder, Sathasivan
Haliburton, Peter Don
Howard, Mark Lynton
Johnson, Daryl Garth
Lebea, Mashao Lawrence
Lenferna de la Motte, Robert Pierre
Lion-Cachet, Shaun
McCann, Neil Alexander
McIlwraith, Robert Ian
Mogolola, Leata Jonas

Moore, Paul Bernard
Ngcobo, Fanzethu Philemon
Officer, Andrew Knowles
Palmer, Gregory Charles
Pearce, Warwick Arnold
Peters, Adrian Michael
Pillay, Rajendran
Robins, Philip Norman
Robinson, Alan Michael
Royce, Bruno Paul Henry
Ruof, Johannes Guenther
Silinga, Mninawe
Smith, Mark Alistair
Spooner, Paul
Vigar, David Carew
Visser, Gary George
Watkins, Ian Graham Lewis
Wright, Gustav John
Wylie, David William

(Electrical Engineering)

Aphane, Lambona Ferdinand
Begley, Shaun Grant
Bettoni, Dario Bruno
Bouwer, Arnold Kenrick
de Vries, Maarten Leo
Dilraj, Rakesh
Edwards, Stephen
Fairlamb, Ian David

Gubula, Morris Robert
Gwamanda, Sibusiso William
Hamalainen, Ari Petteri
MacKenzie, Raynold Aubrey
* Rigby, Bruce Spencer
Walker, Glen Dalton
Watson, David Stuart

(Electronic Engineering)

Berry, Michael John
Bhyat, Mohammed Salim
Bipath, Minnesh
Brown, Kenneth Francis
Buccellato, Ricardo Balladon Buffa
Chetty, Chidananda
Chinniah, Vishnu
Fick, Clinton John
Froes, Paulo José
Garach, Jayesh Avani Kant
Harrichunder, Rajendra
Hart-Jones, Trevor Norman

Hemme, Alexander Wilhelm Maria
Hill, Darrell Lee
Hurter, Jeremy Craig
Kovacevich, Michael John
Lidgett, Andrew George
Lotter, Neil Ian
Mans, Johannes Jochemus
McCurrach, Richard Robert
Meyer, Benjamin Shane
Michel-Smith, Trevor Michael
* Mitchell, Brendan Steven James
Naidoo, Dhanapalan

* = Degree awarded *cum laude*

Naidoo, Kubendra Srinivasan
 Naidoo, Logan Venketes
 Naidoo, Surendra Ramoorthee
 Northover, Kenneth Charles
 Nortje, Graham Edward
 Padayachee, Strinavasen
 Parbhoo, Harshad Parsot
 Parle, Timothy Lawrence
 # Paul, Allan Clifford
 Pennington, Andrew Fawcett
 Pillay, Indheran
 Randelhoff, Mark Charles

Ratzlaff, Henry Franz
 Ravjee, Chandresh Narsai
 Scott, Richard Frank
 Singh, Pranesh
 Soobben, Deva Rajen
 Strobe, Jonathan Ronald Francis
 Turner, Kevin Richard
 Tweedie, Justin Mark
 Vassilopoulos, Nicolaos
 * von Varendorff, Rudiger Victor
 Walsh, Martin Eugene

(Mechanical Engineering)

* Allison, Colin Bidden
 Apostolou, Apostolos
 Coetzer, Mathew Charles
 Cole, Karen Vanessa
 de Kriek, Peter Bernardus
 de Wet, Alan Peter McKenzie
 Denley, Brian David
 Durose, Christopher Robert
 Edwards, Robert Claude
 * Faber, Robert Henry Grey
 Ferreira, Jacques Henri
 Field, John James
 Freeman, Trevor Raymond Ross
 Gerrish, Colin John
 Gibson, Zane Edwin
 Goble, Kevin David
 Goosen, Pierre
 Govender, Gonasagren
 Hawgood, Timothy Edward Jack
 Heiner, Sven
 Hunt, Peter Guy

* Kaiser, Ivan
 Karlson, Gary Michael
 Knoesen, Danny
 Kroutz, Shaun Clinton Joseph
 Langton, Peter
 McDougall, Rafferty Bruce Mulock
 Molaba, Chiloane Alpheus
 Mornet, Paul Michiel
 Nienaber, Anton
 Nimmo, Gavin Frank
 Pillay, Seelan
 Reid, Jeremy Mark
 Sewnarain, Sanjay
 Stevenson, Grant Hugh
 Sunjka, Bernadette Patricia
 * Taylor, Gregory William
 * Thom, Martin Gunther
 van Rossum, Dirk
 Walker, Mark
 Williams, Victor Craig
 Wootton, William Spencer Mark

BACHELOR OF SCIENCE IN LAND SURVEYING

Gosling, Charles Leonard Roy
 Jenkins, Richard Dennis
 Matibe, Ntshavheni Patrick
 Setati, Tlabo Charles

Singh, Ronil
 Thejraj, Sanjay
 Turnbull, William Ian Mark
 Warren, Barry Donald

* = Degree awarded *cum laude*
 # = Degree awarded *summa cum laude*

BACHELOR OF SCIENCE IN QUANTITY SURVEYING

Ballim, Suleman Ismail
Barnard, Ian Lourens
Dhliwayo, Onesimo
Gelman, Mark Gabriel
Hobden, Alistair
Jessop, Craig Anthony
Jones, Colin Dennis
Joubert, Emil Justin
Knowles, Paul Brett

Mandindi, Nonyameko
McIntyre, Wayne Ian
Naidu, Vijayananda
O'Grady, Michael John
Patel, Junate Mohamed
Proctor, Andre
Tennant, Alistair William
Thompson, Alan James
van der Merwe, Lex

BACHELOR OF SCIENCE IN BUILDING MANAGEMENT

Bird, Graeme Michael
Greensmith, Stewart John
Kitchiner, Brent Edward
Kyle, Murray John
Larrett, Keith Anthony

Poole, Jonathan Chad
Schindler, Jens Friedrich
van der Ham, Mark
Wright, Roger

BACHELOR OF SCIENCE

Abbott, Belinda Ann
Baise, Paul Anthony
Barbour, Colleen Joy
Bean, Timothy Jackson
Bean, Tracey Mary
Botes, Andre Michael
Botha, Candace Jane
Broomhead, Neal Keith
Bundy, Simon Colin
Burger, Bruce Jonathan
* Busse, Joanne (Mathematics, Applied
Mathematics)
Calais, Jean-Paul
Campbell, Jessie Florence
Chapman, Leigh Anne
Clemmett, Susan Joy
Coughlan, Carmen Lee
Coulson, Mornay
de Bruyn, Nicolette Leigh
Dhoda, Hassim Osman
Durham, Ben David

Duys, Karen Lesley
Ferreira, Ester Johanna
Ferreira, William Basil
Forster, Rowan Ian
Gokul, Manoj
Goosen, Mary-Anne
Gordon, Hayley
Govender, Suriaganthie
Hansen, Valerie Kim
Haskins, Craig Ian
* Hellberg, Barbara Luise (Applied Mathematics,
Geographical & Environmental Sciences)
Hendrickse, Shamiem Shareen
Hoosen, Soraya (Mathematics, Mathematical
Statistics)
Hope, Sean Dion
Hornsey, Jacqueline Janet
Hutton, Liam Dermot
Kearney, Teresa Catherine
Kuppen, Mogamberi (Physics)
Lester, Michael Gerard

* = Degree awarded *cum laude*

Major subjects which candidates have passed with distinction are shown in brackets after their names.

Mahomed, Imthiaz
McAravey, Shaun Harvey
Meadon, Sean Brian
Miller, Warwick Richard
Moodley, Indrani (Mathematics, Mathematical Statistics)
Moodley, Kuben (Chemistry)
Moodley, Narainsamy Inben
Mortimer, Bruce
Mtembu, Langa Zola
Muir, David John
Murphy, John Edward
Naicker, Ninmaalan
Naicker, Sadhasivan
Naidoo, Priyadarshini
Naidoo, Umagasen Chinnasamy
Nandkishore, Chandnee
Nurrish, Natalie Louise
Orchard, Anne-Liese
Paetz, Jurgen Siegfried Hans
Parthiephah, Bheeran
Pearman, Keren Lee
Pechel, Christoph Matthias

Pietersen, Kevin John
Pillay, Dhanaseelan Loganathan
 * **Powell, Alan Roy (Computer Science)**
Rahiman, Rehana Banu
Ramdhani, Jaichand
Raubenheimer, Janine
Reddy, Visvanathan Subba
Roberts, Michael Austin (Biology)
Robertson, John Mackinnon
Ross-Jones, Bradley Steve
Singh, Sudhir Anand
Sithole, Christian Msindiseni Linda
Smith, Jacqueline Anne
Stephens, Nicole Helene
Stewart, Gwethlyn Meriel
Suchipersadh, Rajesh (Chemistry)
Sweby, Deborah Lee
Tonkinson, Charles Henry Llewelyn
Turner, Audrey Michelle
Whelan, Kim
Wren, Michael David
Yates, Craig Brooke
Ziehl, Brett

* = Degree awarded *cum laude*

Major subjects which candidates have passed with distinction are shown in brackets after their names.

DIPLOMATES

POSTGRADUATE DIPLOMA IN ENGINEERING

Booyesen, Therese Marie, BSocSc

Dellis, John Evans



**CONFERMENT OF THE DEGREE OF
DOCTOR OF SCIENCE
HONORIS CAUSA, UPON
NOEL DESMOND CLARENCE**

Noel Desmond Clarence was born and educated in Pietermaritzburg and began his outstanding career at the Natal University College in Pietermaritzburg where he was awarded the BSc and MSc degrees with distinction. In 1947 he was awarded an Elsie Ballot Scholarship and enrolled for the Natural Science Tripos at Selwyn College, Cambridge. After graduating from Cambridge with a BA degree, he returned to Natal to lecture in the Physics Department in Durban. By 1954 he had added to his qualifications the degree of MA (Cantab) and in 1956, the PhD degree from the University of Natal for his research into electrostatic fields in the atmosphere.

Desmond Clarence has devoted his entire working life to the University of Natal, where he progressed from Junior Lecturer to Head of the Department of Physics and Dean of the Faculty of Science. He was appointed Vice-Principal, Durban in 1974 and became Principal of the University in 1977 until his retirement in 1984.

He has served with distinction on a number of National and International Professional bodies, including the Council of the South African Institute of Physics, of which he was Vice-Chairman for four years and which accorded him its highest honour : that of Honorary Membership. At various times he has been a member of the Advisory Councils of the National Institute of Telecommunications Research, the South African Magnetic Observatory and the National Physical Research Laboratory of the CSIR amongst others, and has served as a South African delegate at a number of international conferences and symposia.

His extensive involvement in education has been further witnessed by his membership of the Natal Education Department Examinations Board, the Committee of University Principals, the Council of the University of Zululand, and the Council of Mangosuthu Technikon, of which he is presently Chairman.

After his retirement in 1984, Desmond Clarence was asked to act as Chairman of the Natal Kwa Zulu Indaba, a post he filled with great distinction.

The University of Natal honours Professor Clarence for his long and distinguished service to the University, to the universities of South Africa and to the field of tertiary education generally.

UNIVERSITY FELLOWSHIPS

University Fellowships have been instituted in order to give special recognition to members of the permanent academic staff for distinguished work of special merit in their chosen fields. The standard of the work is judged primarily by publications and the contribution these have made in the particular field. Public presentation of work in the performing and fine arts may be regarded as equivalent to research and publications.

Lynne Wilford Baker: Lynne Baker headed the Department of Surgery from 1967 to 1988. His tenure has brought the Department from a small unit to one of the largest in the Republic, where developments in such new fields as intensive care, total parental nutrition, ultrasound, vascular diagnosis and microsurgery have kept pace with the international field.

He laid the foundations for the now highly reputable unit of vascular surgery.

His wide travels have brought the best known surgeons of our time to this University and in turn the name of this University and it's Medical School to their doorstep.

Yackoob Kassim Seedat: "YK" Seedat, a native of Durban, is the product of Sastri College and of the National University of Ireland. He is a Fellow of the College of Physicians in South Africa and has been elected to Fellowships of the Royal Colleges of Physicians of London and Ireland, the American College of Physicians and the American College of Cardiology, to name but a few.

He is an excellent teacher and is known and respected nationally and internationally as a clinical researcher. His research has resulted in over 200 publications in internationally recognised journals, and numerous invitations to speak at local and international meetings, universities and congresses.

UNIVERSITY ANTHEM

Natale solum canimus
Cui sol adest faustissimus
Almamque matrem dicimus
Aurorae Stellam colimus.

*O vivas, in aeternum, vivas,
Alma mater, quae nos ditas,
Fove serva protege
Stella aurorae signum Natale.*

Hic juvenes addiscimus
Ad artes corda ferimus
Qui domus species sumus,
Quocumque nos dividimus.

Hinc etsi nos discedimus
Scottarum rus meminimus
Ad Umsinduzi tendimus
Mentesque saltem vertimus.

GAUDEAMUS IGITUR

Gaudeamus igitur, juvenes dum sumus; (Rep)
Post jucundam juventutem, post molestam senectutem,
Nos habebit humus, nos habebit humus.

Ubi sunt qui ante nos in mundo fuere? (Rep)
Vadite ad superos transite ad inferos,
Ubi jam fuere, ubi jam fuere.

Vita nostra brevis est, brevi finietur; (Rep)
Venit mors velociter, rapit nos atrociter,
Nemini parcetur, nemini parcetur.

Vivat Academia, Vivant Professores, (Rep)
Vivat membrum quodlibet, vivant membra quaelibet,
Semper sint in flore, semper sint in flore.

Vivant omnes virgines, faciles, formosae, (Rep)
Vivant et mulieres, dulces et amabiles,
Bonae, laboriosae, bonae, laboriosae.

Vivat et respublica, et quae illam regit; (Rep)
Vivat nostra civitas, Maecenatum caritas.
Quae nos his protegit, quae nos hic protegit.

Pereat tristitia, pereant osiores, (Rep)
Pereat diabolus, quivis antiburschius,
Atque irrisores, atque irrisores.

