GPA 1/3/59 (0)

PROFESSOR L W ROBERTS DEAN FACULTY OF ENGINEERING



UNIVERSITY OF NATAL

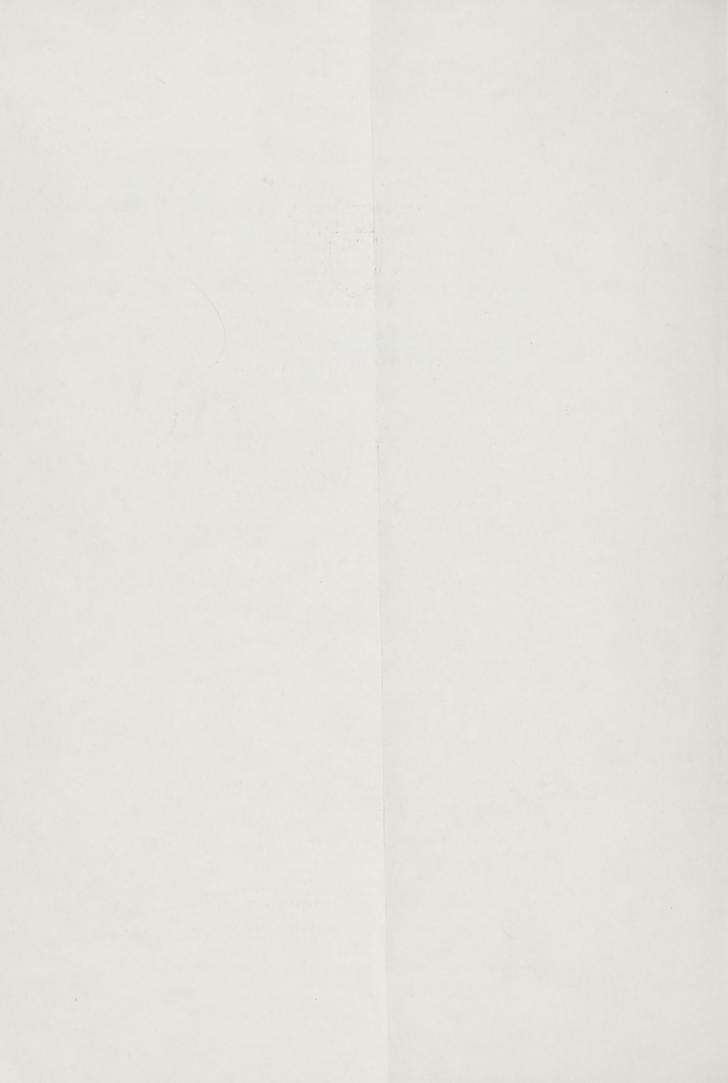
GRADUATION/DIPLOMA CEREMONY

1992

FRIDAY 10 APRIL

18:00

DURBAN



PROGRAMME

The Vice-Chancellor constitutes the congregation

WELCOME TO GUESTS
The Deputy Vice-Chancellor, Durban

PRESENTATION OF DOCTORAL GRADUANDS
The Deans of Faculties

HONORARY DEGREE
The Orator presents the Honorary Graduand
William Peter Venter
for the degree of
DOCTOR OF SCIENCE IN ENGINEERING

ADDRESS Dr W P Venter Hon DCom (UOVS)

THE NATAL PHILHARMONIC WOODWIND QUINTET Excerpts from Suite in G.....Philip Rameau

PRESENTATION OF GRADUANDS AND DIPLOMATES
The Deans of Faculties

The Vice-Chancellor dissolves the congregation

THE NATAL PHILHARMONIC WOODWIND QUINTET

Flute: Petro Pieterse, BMus(Hons) (Pret); Oboe: Kelly Newport, BMus (Dallas) Clarinet: Ian Holloway; Bassoon: Retha Cilliers, BMus (Pret); Horn: Jeffrey Solomon, BMus (Dallas), MMus (New York)

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 J V Leatt BA (Rhodes), BA(Hons), PhD (Cape Town)

> 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)

Acting Deputy Vice-Chancellor and Vice-Principal, Pietermaritzburg

D A Maughan Brown BA (Cape Town), MA (Cantab), DPhil (Sussex)

Registrar B X de Wet MA (Pret), DLitt et Phil (Unisa), HED (Pret)

President of Convocation J M Pet PrEng, BScEng (Natal), MSAACE

Orator P J H Scholtz BA(Hons), HED (Natal)

DEANS OF FACULTIES

Engineering L W Roberts

PrEng, MScEng (Natal), PhD (London) DIC, MSAIMechE, MASME

Science A D M Walker MSc (Rhodes), PhD (Cantab), FRSSAf

DOCTORAL GRADUANDS

DOCTOR OF SCIENCE

DOCTOR OF SCIENCE	
	Discipline
Moores, Phyllis Patricia, MSc, PhD Thesis: Human blood groups and antibodies.	
DOCTOR OF PHILOSOPHY IN THE FACULTY OF SCI	ENCE
	Discipline
Cooper, James Andrew Graham, BSc(Hons) (Queens), MSc (Natal) Thesis: Sedimentary models and geomorphological classification of river mouths on a subtropical, wave-dominated coast, Natal, South Africa.	Geology
Forment Ill Margaret MSc	Biology
Farrant, Jill Margaret, MSc	2.0.06,
Friedel, Reiner Hans-Walter, BScEng, BSc(Hons)	Physics
Heinsohn, Rolf-Dieter, BSc(Hons)	Biology
Jutle, Kasturi Kalyanee, BSc(Hons) (London), MSc (Natal)	Chemistry
Lambiris, Angelo John Leonis, MSc	Biology
Mace, Richard Lester, BSc(Hons) Thesis: Linear and nonlinear electron-acoustic waves in plasmas with two electron components.	Physics
Naidu, Kamcilla, BSc(Hons)	Applied Mathematics
North, Delia Elizabeth, MSc Thesis: Partial exchangeability and related topics.	Mathematical Statistics
Ramsay, Peter John, BSc(Hons) Thesis: Sedimentology, coral reef zonation and late Pleistocene coastline models of the Sodwana Bay continental shelf, northern Zululand.	Geology
Simpson, Richard, BSc(Hons)	Chemistry

MR VICE-CHANCELLOR

Drying is an energy intensive operation which, in order to be economically effective, demands a sound understanding of the drying process and of its kinetics.

AR

Ernest Faber compared the drying behaviour of particulate solids when fluidized in hot air and in super-heated steam. The criteria for when steam could have an economic advantage, were established for the systems investigated. He then developed, for fluidized bed dryers, a design procedure which incorporated the analysis of the costs of the drying operation and which should provide a useful starting point for industrial process assessment.

MR VICE-CHANCELLOR.

I HAVE THE HONOUR TO PRESENT FOR THE DEGREE OF DOCTOR OF PHILOSOPHY IN THE FACULTY OF ENGINEERING

ERNEST FERNAND FABER

FARBER

GRADUANDS

MASTER OF SCIENCE

		Discipline
	Akerman, Leigh-Anne, BSc(Hons)	Chemistry
k	Aliwell, Simon Richard, BSc(Hons) Thesis: Para-aminobenzoic acid photosensitised dimerisation of thymine.	Chemistry
	Barsby, Jane, BSc(Hons)	Geography
	Bean, Timothy Jackson, BSc(Hons)	Applied Mathematics
	Bodeker, Gregory Elton, BSc(Hons) Thesis: The dynamics of the ozone layer between South Africa and Antarctica.	Physics
	Bolton, Kim, BSc(Hons) Thesis: Studies of the photochemical reactions of thymine with selected sensitisers.	Chemistry
4	Deighton, Andrew George, BSc(Hons)	Computer Science
	Diegel, Aase, BSc(Hons)	Biology
ķ	Edwards, Sion Charles, BSc(Hons)	Chemistry
	Graham, Philip Mark, BScAgric	Biology
k	Hansen, Bradley Miles Stougaard, BSc(Hons) Thesis: Magnetic reconnection in the Tokoloshe tokamak.	Physics
	Maharaj, Vanitha, BSc (UDW), BSc(Hons) (Natal)	Chemistry
k	Mogambery, Moses, BA, BSc (Unisa), BSc(Hons) (Natal)	Mathematics

^{* =} Degree awarded cum laude

MR VICE-CHANCELLOR,

To transfer electric power from a power station to a distant large city presents special problems of stability known as subsynchronous resonance. Such a resonant condition results in large surges in electric power along the transmission line, and may even break the shaft of the turbo generators in the power station.

Richard Fairbairn has investigated this resonance by computer simulation, as well as by measurements on a laboratory scaled down miniature turbogenerator. He has developed methods to measure various parameters in the turbogenerator while it is delivering power to the network. This avoids having to stop the generator for these tests and yields considerable savings since the electricity from such a large turbogenerator earns 1 million rand or more every 24 hours.

Parts of his thesis have already been published and one of his papers was awarded a prize at a conference in Seattle in 1990.

MR VICE-CHANCELLOR,

I HAVE THE HONOUR TO PRESENT FOR THE DEGREE OF DOCTOR OF PHILOSOPHY IN THE FACULTY OF ENGINEERING

RICHARD EDWARD FAIRBAIRN

MR VICE-CHANCELLOR.

Every day billions of meteoroids collide with the earth's atmosphere and burn up forming trails of ionized gas tens of kilometres long. These trails may be used to reflect radio waves between two distant points on the earth's surface. Robert Mawrey investigated the variation in the arrival rates of meteors and developed models which challenged the accepted method of predicting their non-uniform distribution. His method has received international acclaim and will enable communication engineers to make optimum use of these trails for meteor burst communication systems.

MR VICE-CHANCELLOR,

I HAVE THE HONOUR TO PRESENT FOR THE DEGREE OF DOCTOR OF PHILOSOPHY IN THE FACULTY OF ENGINEERING

ROBERT STANLEY MAWREY

MR VICE-CHANCELLOR,

Visvanathan Pillay's work was aimed at elucidating the fundamental mechanisms that control the filtration of a suspension being pumped through a porous tube.

A cross-flow microfiltration experimental rig was designed, constructed and applied in the generation of data for analysis. In achieving his objective, an effective mathematical model of the turbulent particle transport in the filter was developed.

This outstanding research represents an important step in the application of this new configuration of filtration equipment in industry.

MR VICE-CHANCELLOR,

I HAVE THE HONOUR TO PRESENT FOR THE DEGREE OF DOCTOR OF PHILOSOPHY IN THE FACULTY OF ENGINEERING

VISVANATHAN LINGAMURTHI PILLAY

MR VICE-CHANCELLOR,

The separation of solids from liquids in a tubular filter press is of particular importance to water treatment and environmental control.

Gunter Rencken studied the flow pattern in the filter tubes and, then, the manner in which the solids accumulate as the filtrate permeates the woven fabric of the tube wall. He also investigated the subsequent removal of the solids from the filter. As a result, he developed a mathematical model to describe the complex process and this should prove of great value to industry.

MR VICE-CHANCELLOR,

I HAVE THE HONOUR TO PRESENT FOR THE DEGREE OF DOCTOR OF PHILOSOPHY IN THE FACULTY OF ENGINEERING

GUNTER EDUARD RENCKEN

DOCTOR OF PHILOSOPHY IN THE FACULTY OF ENGINEERING

HONORARY GRADUAND (See page 10)

Venter, William Peter, Hon DCom (UOVS)

			Discipline
	Monkhe, Thesis:	Thabo Vincent, BSc(Hons)	Chemistry
*	Moodley, Thesis:	Manikan, BSc (Unisa), BEd, BSc(Hons) (Natal)	Mathematics
*	Morel du Thesis :	Boil, Pamela Gloria, BSc	Chemistry
	Olander, Thesis:	Peter Andrew, BSc(Hons) (Rhodes) Built-in tests for a real-time embedded system.	Computer Science
	Owen, Ro Thesis:	odney Kenneth, BSc(Hons) The effects of sediment disturbance on the macrobenthos of the St Lucia Narrows, Natal.	Biology
	Rees, Roo Thesis:	dney Thomas, BSc(Hons)	Biology
	Rutherfor Thesis:	rd, Christine Elizabeth, BSc(Hons)	
*	Sherwin, Thesis:	Heather Wendy, BSc(Hons) The inter-relations among xylem anatomy, hydraulic conductivity and leaf water status in five sub-tropical tree species.	Biology
	Snyman, Thesis:	Sandra Jane, BSc(Hons) (Witwatersrand) Development of <i>in vitro</i> culture and gene transfer techniques in sugarcane (Saccharum species hybrids).	Biology
	Thangave Coursewe	elu, Kogila, BSc (UDW), BSc(Hons) (Unisa)ork and Thesis: Attitudes towards the aged among Indians in Municipal Durban.	Psychology

MR VICE-CHANCELLOR

I HAVE THE HONOUR TO PRESENT FOR THE DEGREE OF

MASTER OF SCIENCE IN ENGINEERING

Engineering Engineering
Engineering
Engineering
Discipline
Biology Geography Geology Geography
Geography outer Science Physics Psychology outer Science

		Discipline
	Monkhe, Thabo Vincent, BSc(Hons)	Chemistry
*	Moodley, Manikan, BSc (Unisa), BEd, BSc(Hons) (Natal) Thesis: Conformal symmetries: solutions in two classes of cosmological models.	Mathematics
*	Morel du Boil, Pamela Gloria, BSc	Chemistry
	Olander, Peter Andrew, BSc(Hons) (Rhodes)	Computer Science
	Owen, Rodney Kenneth, BSc(Hons) Thesis: The effects of sediment disturbance on the macrobenthos of the St Lucia Narrows, Natal.	Biology
	Rees, Rodney Thomas, BSc(Hons)	Biology
	Rutherford, Christine Elizabeth, BSc(Hons) Thesis: The destabilising effects of various cations on a surfactant derivative of poly iso-butenyl succinic anhydride.	Chemistry
*	Sherwin, Heather Wendy, BSc(Hons)	Biology
	Snyman, Sandra Jane, BSc(Hons) (Witwatersrand)	Biology
	Thangavelu, Kogila, BSc (UDW), BSc(Hons) (Unisa)	Psychology
	MASTER OF SCIENCE IN ENGINEERING	
		Discipline
	Blendulf, Lars Johan Gösta, BScEng	echanical Engineering

* = Degree awarded cum laude

§.	Govender, Rajendran, BSc	Computer Science
*	Govender, Rajendran, BSc	Computer Science
*	Harmer, Mark Stuart, BSc	Physics
	Hogan, Charmaine, BSc	Chemistry
	Hutson, Celia Yvonne, BSc	Computer Science
	Jugoo, Vikash Ramanand, BSc	Annlied Mathematics
	Jugoo, Vikash Ramanand, BSC	Applied Wathematics
*	Kattenhorn, Simon Allen, BSc	Dialogy
*	Leat, Neil Grant, BSc. Lee, Sarah Joanna, BSc.	Blology
	Lee, Sarah Joanna, BSc	Chemistry
	Lordan Darren Brendan BSC	Applied Mathematics
	Matiwane, Mninawa Litha, BSc (Lesotho)	Biology
	Matiwane, Mninawa Litha, BSc (Lesotho) Mayor, Laura Jane, BSc	Geography
ajc .	Meijer Carl Alko BScEng	Applied Mathematics
*	Math Danna Larring RCc	Crediogy
	Miller David Roy BSc	Computer Science
	Miller, David Roy, BSc Moollan, Warren Charles, BSc	
	Moopanar, Selvandren, BSc	Applied Mathematics
	Moran, Craig, BSc	Physics
*	Nicholson, Gary Dean, BSc	Computer Science
	Niedinger, Sabina, BSc	Biology
*	Nledinger, Saoma, DSC	Geography
•	Patel, Žarina, BSc	Geology
	Pearman, Craig Stuart, BSc	Chemistry
	Pierzchalski, Sharon, BSc	Engineering Geology
	Polfreman, James Digby, BSc	Biology
	Pollock, Anne Margaret, BSc	Chamister
*	Daws Isa Daygles RSs	Chemistry
	Potgieter André RSc	I HYSICS
	Pautanhach Carl Andrew RSC	Computer science
	Dawet Mahamad Amad Coand RSc	Chemsuv
	Rebelo, Teresa Maria Gomes, BSc	Geology
*	Rebelo, Teresa Maria Gomes, BSc Rice, William Kenneth MacLeod, BSc Richards, Dean Sean, BSc	Physics
	Richards, Dean Sean, BSc	Geology
	Singh Michael Lutchman, BSc (UDW)	Geography
#	Singh, Michael Lutchman, BSc (UDW) Smithdorf, Vivienne, BSc	Applied Mathematics
"	Sparks Andrew Peter Walsh KSC	Lugincumg ocology
	700 IZ: DC a	TIVALLA
	van As, Andre, BSc (Rhodes)	Engineering Geology
	van den Berg, Jennifer Ruth, BSc	Biology
	Walters, Andrew Mark, BSc	Computer Science
	Walters, Andrew Mark, DSC	Biology
	Weerts, Kevin Andrew, BSc	Physics
#	Wittenberg, Ralf Werner, BSc	Physics
	Wood, Gregory Bancroff, BSc	I Hysics

BACHELOR OF SCIENCE (PHARMACY)

Booth, Heidi Booth, Heidi Buckus, Nazrana Budhu, Shalini Gold, Cheryl Ann Govender, Calvin Marc Gregson, Amber Hansrot, Shahida Harribhai Privalata Ra Harribhai, Priyalata Ratilall Hunt, David Alan (Pharmacology) Mathapershad, Pradeep Moffett, Aidan Joseph
Mould, Wendy Ann
Rohrs, Robyn (Pharmacology, Pharmaceutical
Chemistry)
Strugnell, Beverley-Ann
Tunguy-Desmarais, Adrian Paul
Turnbull, Wendy Leigh
Vanslembrouck, Brenda Martha
Vahed, Rashida Abdulla
Weedon, Carol Weedon, Carol

* = Degree awarded cum laude

= Degree awarded summa cum laude

§ = Degree awarded posthumously

Major subjects which candidates have passed in the first class are shown in brackets after their names.

I HAVE THE HONOUR TO PRESENT FOR THE DEGREE OF

BACHELOR OF SCIENCE IN ENGINEERING

(Chemical Engineering)

Allen, Mark Geoffrey
Barnes, Marc Brian
Coetzee, Bruce Johannes Jacobus
Davis, Rozanne Joy
Diener, Gavin Bryan
Fosteras, Nicholas Constantine
Govender, Pregasen Komarasamy
Govender, Yogathasen
Jefferies, Deborah-Anne
Jones, Rhys Gwyn
Konar, Jayan
Kruger, Paul Petrus
Latimer, Trevor Marc
* Lowis, Kerry-Lynn
MacAdam, Scott
Maharaj, Urvashni
Mahomed, Abdul Kader

Mahommed, Hanif

Maphumulo, Sinothi Duncan, BSc (UZ)
McFarlane, Hugh Walker
Nadar, Poovan
Omar, Irshad
Pillay, Yugentheran Selveraj
Reddy, Vernen
Redwood, Cindy Dawn
Rogers, Cristopher Jon
Roolvink, Reneé Anton
Schwikkard, Gavin Wyatt
Slettevold, John Henry, BSc
Sporre, Grant Rense
Titterton, James Richard Herwald
van Wyk, Craig Lionel
Vawda, Safiya
Venkatsami, Les
Williams, Roland Leader

5

36

28

(Civil Engineering)

Binder, Gavin
Cummings, Gregory
Dix, Michael John
Evans, Richard Warwick
Fröbel, Thorsten Michael Andreas
Govender, Kevindren
Harvey, Bruce Melville
Heseding, Taco Maarten
Keyser, Justin
Kirkwood, Brendon
Marais, Jean-Pierre
Maud, Christopher John
Mocke, Graham Richard

Molema, Pheladi Wynand Mottram, Samuel Roy Nijhuis, Arjen Mart Phipps, Stanley Allan Pratt, Andrew Grant Raaff, Gregory Joe Ranger, Grant Robert Robinson, Mark Edgcumbe Singh, Sunil Smith, Andrew Malcolm Tiya, Khwezi Vincent Verhagen, Willem Andrew Winkfield, Nicholas John

Yates, Sandra Anne

(Electrical Engineering)

Barrett, Bruce Andrew
Brown, Douglas Trevor
Buswell, Andrew Michael
Cauvin, Allen Richard
Dhunlall, Ramlall
Fair, Owen Edward
Gavin, Paula Alexandra
Gielink, Andrew Leslie
Goodwin, Craig Grant
Harbhajan, Vikash
Kerr, Angus John MacKay
Kirkpatrick, Stephen James Lowther,
BScEng(Ag)
Lage, Rui Manuel Lino de Jesus
Larsen, Jesper Mollebeak

le Roux, Alban Alexander
Leeb-du Toit, Alan
Magubane, Nelisiwe Veronica Barbara
Mahlaba, Peter Tsepo Joseph
Narotam, Chandresh Keshavlal
Niemand, Frederick Rolf
Parker, David Gordon William
Richards, Bevan Edward
Singh, Naresh
Spalding, Robert James
Talbot, Kevin John
Tocknell, Donald Eric
Welsh, Robin Mark
Wenzel, Daniel

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

BACHELOR OF SCIENCE IN ENGINEERING

(Agricultural Engineering)

Bentley, Craig William Donkin, Andrew David Nicoll, Angus Ralph

Rea, Ian Patrick Trott, Geoffrey Siward

(Chemical Engineering)

Allen, Mark Geoffrey Barnes, Marc Brian Coetzee, Bruce Johannes Jacobus # Davis, Rozanne Joy Diener, Gavin Bryan Fosteras, Nicholas Constantine Govender, Pregasen Komarasamy Govender, Yogathasen Jefferies, Deborah-Anne Jones, Rhys Gwyn

Konar, Jayan
Kruger, Paul Petrus
Latimer, Trevor Marc
Lowis, Kerry-Lynn
MacAdam, Scott
Maharaj, Urvashni
Mahomed, Abdul Kader
Mahommed, Hanif

Maphumulo, Sinothi Duncan, BSc (UZ) McFarlane, Hugh Walker

Nadar, Poovan
Omar, Irshad
Pillay, Yugentheran Selveraj
Reddy, Vernen Redwood, Cindy Dawn Rogers, Cristopher Jon Roolvink, Reneé Anton Schwikkard, Gavin Wyatt Slettevold, John Henry, BSc Sporre, Grant Rense

Titterton, James Richard Herwald van Wyk, Craig Lionel Vawda, Safiya Venkatsami, Les Williams, Roland Leader Yates, Sandra Anne

36

28

(Civil Engineering)

Binder, Gavin Cummings, Gregory Dix, Michael John Evans, Richard Warwick Fröbel, Thorsten Michael Andreas Govender, Kevindren Harvey, Bruce Melville Heseding, Taco Maarten Keyser, Justin Kirkwood, Brendon Marais, Jean-Pierre Maud, Christopher John Mocke, Graham Richard

Molema, Pheladi Wynand Mottram, Samuel Roy Nijhuis, Arjen Mart Phipps, Stanley Allan Pratt, Andrew Grant Raaff, Gregory Joe Ranger, Grant Robert Robinson, Mark Edgcumbe Singh, Sunil Smith, Andrew Malcolm Tiya, Khwezi Vincent Verhagen, Willem Andrew Winkfield, Nicholas John

(Electrical Engineering)

Barrett, Bruce Andrew Brown, Douglas Trevor Buswell, Andrew Michael Cauvin, Allen Richard Dhunlall, Ramlall Fair, Owen Edward Gavin, Paula Alexandra Gielink, Andrew Leslie Goodwin, Craig Grant Harbhajan, Vikash Kerr, Angus John MacKay Kirkpatrick, Stephen James Lowther, BScEng(Ag)
Lage, Rui Manuel Lino de Jesus Larsen, Jesper Mollebeak

le Roux, Alban Alexander Leeb-du Toit, Alan Magubane, Nelisiwe Veronica Barbara Mahlaba, Peter Tsepo Joseph Narotam, Chandresh Keshavlal Niemand, Frederick Rolf Parker, David Gordon William Richards, Bevan Edward Singh, Naresh Spalding, Robert James Talbot, Kevin John Tocknell, Donald Eric Welsh, Robin Mark Wenzel, Daniel

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

(Electronic Engineering)

Askham, Richard John Asmall, Ismail Goolam Hoosen Basson, Garth Stuart

Bruce-Brand, Robert Alan

Deetlefs, Andre

Dippenaar, Andries Christoffel Ferguson, Keith Lamont Ford, Mandy Jean Gagner, Conrad Paul Govender, Asogan Navindra Heins, Leonard James

Houlding, David Ian Hutton, Brendon Craig Jansen van Rensburg, John Khan, Aslam Khan, Zaheer Kiggen, Anthony Leo Lewarne, Christopher Terence Lombard, Philip Sean MacDonald, Dale Trevor McDonnell, Ciaran Joseph McQueen, Neil Cameron Moodley, Kevin Asogeran Naicker, Ian Naidoo, Cornelius Naidoo, Nolan

Naidoo, Sabendren Venkatas

Naidoo, Sundrasen Muliasamy Pearse, Graeme Charles Pegram, Adrian Derek Pereira, Licinio Araujo Pillay, Vivekanathan Pons, Jasper Mason Prentice, John Pullock, Bradley

Ramnath, Ravindra

Ramseier, Guido Reid, Gregory James Rethman, Charles William Rijkenberg, Paul Anthony Samlall, Anwarkumar Shaik Amod, Mahomed Arif Siedle, David Neil Singh, Vikesh Chanderlal Singh, Yogesh Smit, Andrew Dennis Staisch, Manfred Steven, Trevor John

Tennent, Robert Whitney Thaver, Kubenderan Vallabh, Nitesh van Heerden, Peter Robin Williamson, James Desmond

(Mechanical Engineering)

Basson, Francois Stanley Bisset, Colin Boustred, Michael John Breinhorst, Thomas Bullock, David Sean Cox, Gavin Raymond Dunbar, Wayne Doughlas Eglington, Michael Lyle Fragale, Flavio Gibbon, Michael John Govender, Jacelyn Hackney, Craig Ivan Haihambo, Engelhard Hansraj, Aveedh Hawkins, John Edward Himchall, Rajeshwar Inderjeeth, Ranjith Kock, Christopher MacKinlay, Andrew Ian Madonsela, Sipho Ernest Martens, Simon Charles

Moore, Lance Barry

Naicker, Kevin Soobramoney Naidoo, Puvendra Appalsamy Nell, James Walter Nicklin, Terrence Dean Nunn, Andrew Roy Odendaal, Paul Stephen Parr, Kevin Alan Patel, Aroon Paterson, Douglas Grant Peters, Dieter Walter Pollock, Brett Fitzgerald Proctor, Richard Douglas Quick, Conroy Robert Reiss, Talmon Seitz, Peter Alexander

Spitaels, Roland Jean-Paul Sweeney, Garnet Trevor Symons, Bryan Alfred Thorpe, Hilton Ralph van Dongen, Bruce Robert van Eldik, Michael Roy van Schoor, Gavin Wayne

5 3

MR VICE-CHANCELLOR

I HAVE THE HONOUR TO PRESENT FOR THE DEGREE OF

BACHELOR OF SCIENCE

Aumord, Marian Baker, Gregory David Banoo, Imraan Baxter, Lynne Bayat, Zaidh Blake, Earl Bricknell, Bradley Colin Brunet, Desirée Anne Campbell, Steven John

Castle, Shannon Gordon
Combrinck, Charlene Edwina
Crompton, Keith Ewart (Computer Science,

Mathematics) Davis, Leslie Colette

de Chasteigner Dumée, Jean-Dominique

Doig, Andrew John

Dormer, Lee Anne (Physics)

Dranias, Nicoleta

Ellens, Kian
Erdey, Déon Phillip
Gifford Nash, Katherine Lindsay (Geology,

Chemistry) Goodall, Michael Ross Goodman, Bernard Michael Govender, Dhanasagree Govinder, Keshlan Sathasiva Graham, Michelle Anne Gray, Greer Jillian Grenfell, Merrick Quentin Hlongwane, Hlengiwe Princess Holmes, Archibald Wilfred Hope, Belinda Anne Ivins, Gregory John Jugoo, Vikash Ramanand Kamdar, Adam Ebrahim King, Georgina Maria

Kistan, Trevor Lees, Roger Stanley Leuci, Rio MacAllister, Catherine Ruth Maken, Daksha Mohan

Markwald, Karl Randall Maurel, Marie Virginie

Moodley, Bavanisha (Computer Science, Mathematical Statistics) Moollan, Roland William Morton, Michelle Simone

Naidoo, Amantha Naidoo, Nesan # Naidoo, Robert (Applied Mathematics, Mathematical Statistics)

Naidoo, Thiloshni Nair, Arlene Ruth Ogle, Andrew Moses Patrick, Barry Gordon
Pillay, Dayalan Jayasellan
Preen, Darryl Richard
Prytz, Michael John Rambharos, Shubnam Ramlukan, Roshan Rangasamy, Thagarajh Rasmussen, Michael William Reddy, Anusha Reddy, Saloshna

Roberts, Sianne Lindsay (Chemistry)

Robinson, Ian David

Rose, David Michael (Mathematics.

Mathematical Statistics) Rowan, Kim Morag Royston, Tracey Margaret Scott, Helen Clair Selepe, Gabriel Seppings, Kerry Ann Shaw, Michael John Singh, Shobhana Staples, Nicholas Hassaan

Tedder, Guinevere Lynne

Uys, Debbie Caron (Applied Mathematics)
van Alten, Clint Johann (Mathematics, Applied
Mathematics)

van der Walt, Trevor John Velayudan, Theloshini Warne, Russell Hylton Weerts, Steven Paul West, Steven Adrian Williams, Jacqueline Ann

N.B.

DEGREES WILL NOW BE CONFERRED IN ABSENTIA

MR DEPUTY VICE-CHANCELLOR

I HAVE THE HONOUR TO PRESENT FOR THE

POSTGRADUATE DIPLOMA IN ENGINEERING

Riplomate is

(Electronic Engineering)

Askham, Richard John Asmall, Ismail Goolam Hoosen Basson, Garth Stuart

Bruce-Brand, Robert Alan

Deetlefs, Andre

Dippenaar, Andries Christoffel Ferguson, Keith Lamont

Ford, Mandy Jean Gagner, Conrad Paul Govender, Asogan Navindra Heins, Leonard James

Houlding, David Ian Hutton, Brendon Craig Jansen van Rensburg, John Khan, Aslam Khan, Zaheer Kiggen, Anthony Leo Lewarne, Christopher Terence Lombard, Philip Sean MacDonald, Dale Trevor McDonnell, Ciaran Joseph McQueen, Neil Cameron Moodley, Kevin Asogeran Naicker, Ian Naidoo, Cornelius Naidoo, Nolan

Naidoo, Sabendren Venkatas

Naidoo, Sundrasen Muliasamy Pearse, Graeme Charles Pegram, Adrian Derek Pereira, Licinio Araujo
Pillay, Vivekanathan
Pons, Jasper Mason

Prentice, John
Pullock, Bradley

Ramnath, Ravindra Ramseier, Guido

Reid, Gregory James Rethman, Charles William Rijkenberg, Paul Anthony Samlall, Anwarkumar Shaik Amod, Mahomed Arif Siedle, David Neil Singh, Vikesh Chanderlal Singh, Yogesh Smit, Andrew Dennis

Staisch, Manfred
Steven, Trevor John
Tennent, Robert Whitney
Thaver, Kubenderan Vallabh, Nitesh van Heerden, Peter Robin Williamson, James Desmond

3

(Mechanical Engineering)

Basson, Francois Stanley Bisset, Colin Boustred, Michael John Breinhorst, Thomas Bullock, David Sean Cox, Gavin Raymond
Dunbar, Wayne Doughlas
Eglington, Michael Lyle Fragale, Flavio Gibbon, Michael John Govender, Jacelyn Hackney, Craig Ivan Haihambo, Engelhard Hansraj, Aveedh Hawkins, John Edward Himchall, Rajeshwar Inderjeeth, Ranjith Kock, Christopher MacKinlay, Andrew Ian Madonsela, Sipho Ernest Martens, Simon Charles

Naicker, Kevin Soobramoney Naidoo, Puvendra Appalsamy Nell, James Walter Nicklin, Terrence Dean Nunn, Andrew Roy Odendaal, Paul Stephen Parr, Kevin Alan

Patel, Aroon Paterson, Douglas Grant Peters, Dieter Walter Pollock, Brett Fitzgerald Proctor, Richard Douglas

Quick, Conroy Robert Reiss, Talmon Seitz, Peter Alexander Spitaels, Roland Jean-Paul Sweeney, Garnet Trevor Symons, Bryan Alfred Thorpe, Hilton Ralph van Dongen, Bruce Robert van Eldik, Michael Roy van Schoor, Gavin Wayne

BACHELOR OF SCIENCE IN LAND SURVEYING

Baylis, Stuart George Carter, Christopher John Chaplin, Bruce Alan Dansie, Mark Gregory Davidson, Peter George Elgie, Graham Peter Govender, Vadival Rajan

Moore, Lance Barry

Horsley, Vernon James Jeffryes, Raymond Lawrence Woodland Lesch, Douglas Clifford Mabanda, Thabo George Manning, Michael John Rapotu, Tlalampe Nelson Shai, Herbert Makgoadi

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

BACHELOR OF SCIENCE

Aumord, Marian Baker, Gregory David Banoo, Imraan Baxter, Lynne
Bayat, Zaidh
Blake, Earl
Bricknell, Bradley Colin Brunet, Desirée Anne Campbell, Steven John Castle, Shannon Gordon Combrinck, Charlene Edwina

Crompton, Keith Ewart (Computer Science, Mathematics)

Davis, Leslie Colette

de Chasteigner Dumée, Jean-Dominique

Doig, Andrew John # Dormer, Lee Anne (Physics)

Dranias, Nicoleta
Ellens, Kian
Erdey, Déon Phillip
Gifford Nash, Katherine Lindsay (Geology,

Chemistry) Goodall, Michael Ross Goodman, Bernard Michael Govender, Dhanasagree Govinder, Keshlan Sathasiva Graham, Michelle Anne Gray, Greer Jillian Grenfell, Merrick Quentin Hlongwane, Hlengiwe Princess Holmes, Archibald Wilfred Hope, Belinda Anne Ivins, Gregory John Jugoo, Vikash Ramanand

Kamdar, Adam Ebrahim King, Georgina Maria Kistan, Trevor Lees, Roger Stanley Leuci, Rio

MacAllister, Catherine Ruth Maken, Daksha Mohan Markwald, Karl Randall Maurel, Marie Virginie Mitchell, Stephanie Kathryn Monica, Paulo Manuel Vieira # Moodley, Bavanisha (Computer Science, Mathematical Statistics) Moollan, Roland William Morton, Michelle Simone

Naidoo, Amantha Naidoo, Nesan

Naidoo, Robert (Applied Mathematics, Mathematical Statistics)

Naidoo, Thiloshni Nair, Arlene Ruth Ogle, Andrew Moses Patrick, Barry Gordon Pillay, Dayalan Jayasellan Preen, Darryl Richard Prytz, Michael John Rambharos, Shubnam Ramlukan, Roshan Rangasamy, Thagarajh Rasmussen, Michael William Reddy, Anusha

Reddy, Saloshna

Roberts, Sianne Lindsay (Chemistry)

Robinson, Ian David

Rose, David Michael (Mathematics,

Mathematical Statistics) Rowan, Kim Morag Royston, Tracey Margaret Scott, Helen Clair Selepe, Gabriel Seppings, Kerry Ann Shaw, Michael John Singh, Shobhana

Staples, Nicholas Hassaan Tedder, Guinevere Lynne

Uys, Debbie Caron (Applied Mathematics) # van Alten, Clint Johann (Mathematics, Applied

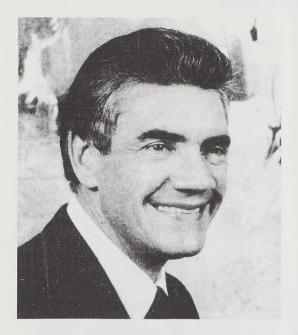
Mathematics) van der Walt, Trevor John Velayudan, Theloshini Warne, Russell Hylton Weerts, Steven Paul West, Steven Adrian Williams, Jacqueline Ann Wolhuter, Wendy Alison

* = Degree awarded cum laude # = Degree awarded summa cum laude Major subjects which candidates have passed in the first class are shown in brackets after their names.

DIPLOMATES

POSTGRADUATE DIPLOMA IN ENGINEERING

Orwothwun, Tommy, BScEng (Makerere)



CONFERMENT OF THE DEGREE OF DOCTOR OF SCIENCE IN ENGINEERING HONORIS CAUSA, UPON WILLIAM PETER VENTER

William Peter Venter was born and educated in Johannesburg. He started his career as a pupil engineer in the Department of Posts and Telecommunication Services, qualifying some five years later as an engineer. He then joined Standard Telephones and Cables where he advanced to the position of Group Marketing Manager at the age of 30. He spent two years in Europe working for the international management consultant firm of McKinsey and Company. In 1965 he established Allied Electric (Pty) Ltd., generally regarded as the first wholly South African owned and controlled electronics and telecommunications company.

From the humble base of a small company with three staff and a turnover of one million Rand in 1965, Bill Venter exercised the necessary vision, drive and dedication to build the Altron group of Electronics, Computer and Electrical companies which currently employs 18 000 people locally and 5 000 people abroad and generates a turnover of over R3.5 billion Rand per annum.

In addition to these achievements, Bill Venter has always been mindful of the community he serves and has continually demonstrated compassion for the underprivileged and concern for the needs of individuals. He has been involved personally in many support projects, while his social programmes, particularly in the field of education, have been close to the Mission Statement of this University.

Bill Venter has presented many addresses and papers upon invitation from some of the most august bodies in the country. Numerous institutions such as the Institute of Electrical Engineers, the Witwatersrand Technikon and the Pretoria Technikon have elected him for their premier awards for exceptional service to the technological development of South Africa. He serves on the Economic Advisory Council of the State President and also on the Industry Advisory Committee of the Minister of Economic Affairs and Technology. He is a Council Member of UNISA as well as a Member of the Engineering Council of South Africa.

For his business acumen he has already been honoured by the State President, the Institute of Marketing Management, the South African Institute of Production Engineers, the Institute of Production Management, the Institute of Administration and Commerce, as well as by the University of the Orange Free State who awarded him an honorary DCom degree.

The University of Natal pays tribute to Dr William Peter Venter for his outstanding contribution to the growth and development of the computer, electronics and electrical industries in this country, his dedication to education and training in the fields of technology, electronic engineering and business administration, as well as his concern for and generous contributions to the general upliftment of under-privileged peoples.

