

UNIVERSITY OF NATAL

GRADUATION/DIPLOMA CEREMONY

1998

SATURDAY 9 MAY 10h00 PIETERMARITZBURG

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 wildebeeste come from the arms of the Province of Kwazulu-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.

CONVOCATION

After being capped by the Chancellor, each graduate moves across the stage and hands to the President of Convocation or his/her representative a hood incorporating colours that indicate the degree being awarded and the Faculty in which it is being awarded. The President of Convocation 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 their University.

OFFICERS

Chancellor The Most Reverend D E Hurley OMI, DD,

Archbishop Emeritus of Durban,

PhL (Rome), STL (Rome)

Vice-Chancellor and B M Gourley

Principal CTA (Witwatersrand), MBL (Unisa),

LLD (h.c.) (Nottingham)

Chairman of Council A Rogoff

(Academic)

CA (SA)

Senior Deputy Vice-Chancellor

D A Maughan Brown

BA (Cape Town), MA (Cantab),

DPhil (Sussex)

Deputy Vice-Chancellor

(Acting Vice-Chancellor)

A C Bawa

BSc (Unisa), BSc(Hons) (Natal),

MSc (UDW), PhD (Durham)

Deputy Vice-Chancellor (Research and Development)

E M Preston-Whyte

BSocSc(Hons), PhD (Natal)

Deputy Vice-Chancellor (Students and Transformation)

E A Ngara

BA(Hons), MPhil, PhD (London)

Pro Vice-Chancellor

P M Zulu

BA(Hons), PhD (Natal)

Pro Vice-Chancellor

J D Volmink

BSc(Hons) (UWC), PhD (Cornell)

Registrar

G J Trotter

BA(Hons) (Natal), MA (Duke)

Convocation Officer

B F Xulu

BProc (Natal)

Orator

C O Gardner

BA(Hons) (Natal), MA (Oxon)

DEANS OF FACULTIES

Agriculture F H J Rijkenberg

MScAgric, PhD (Natal)

Science R J Haines

MSc (Natal), PhD (London), FRSSAf

PROGRAMME

The Academic Procession enters the Hall

THE CHANCELLOR CONSTITUTES THE CONGREGATION

WELCOME TO GUESTS

The Acting Vice-Chancellor

PRESENTATION OF FELLOW OF THE UNIVERSITY

The Deputy Vice-Chancellor (Academic)

PRESENTATION OF DOCTORAL GRADUANDS

The Deans of the Faculties of Agriculture and Science

INTRODUCTION OF GUEST SPEAKER

The Orator introduces the Guest Speaker

ADDRESS

Mr Derek Hanekom Minister of Agriculture and Land Affairs

UNIVERSITY OF NATAL CHORALE

Conductor: S E Mkhulusi, BMus(Unisa), BA(Hons)(Natal)

La 'Mino (Traditional) Inkunzi Enjani (Traditional)

PRESENTATION OF GRADUANDS AND DIPLOMATES

The Deans of the Faculties of Agriculture and Science

THE CHANCELLOR DISSOLVES THE CONGREGATION

The Choir leads the singing of the National Anthem (Words on the back cover of the Programme)

The Academic Procession leaves the Hall

The Convocation Procession leaves the Hall

The congregation is requested to stand, and to remain standing, while the processions enter and leave the Hall and to remain seated until the conclusion of the ceremony.

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

FELLOW OF THE UNIVERSITY OF NATAL

FACULTY OF SCIENCE

(see page 19)

Gous, Robert Mervyn Awarded for distinguished contributions in poultry science

DOCTORAL GRADUANDS

DOCTOR OF SCIENCE IN THE FACULTY OF AGRICULTURE

Lishman, Arthur William PhD Animal Science

Improving calving rates in Afrikaner cattle Thesis. DOCTOR OF PHILOSOPHY IN THE FACULTY OF SCIENCE Discipline Neuropsychological correlates of chronic fatigue syndrome Thesis: Dr M H Budek Supervisor: Aspects related to the germination of Themeda triandra seed Thesis: Prof J van Staden Supervisor: Co-Supervisor: Dr J E Granger Physiological and molecular characterization of habituated Thesis: and non-habituated soybean callus lines [Glycine mas (L.) Merr cv. Acmel Dr W A Cress Supervisor: Co-Supervisor: Professor J van Staden An evaluation of the periglacial morphology in the high Thesis: Drakensberg and associated environmental implications Dr F Ahmed Supervisor:

Co-Supervisor: Dr K J Hall

Groenewald, Sarita, M Thesis:	MSc(PU for CHE)		
Supervisor:	Professor F C Botha		
Thesis:	Theories and computation of second virial coefficients of electromagnetic phenomena		
Supervisor:	Professor C Graham		
Mason, Paul Henry, N	ASc		
Thesis: Supervisor:	Reactions and reactivity of Allyl and related Carbamates		
Monadjem, Ara, MSc Thesis:	(Wits) Zoology An experimental investigation of the effects of supplementary food and ground cover on small mammal population dynamics and community structure in a Swaziland grassland		
Supervisor:	Professor M R Perrin		
Mnono Zwelethemba	Eugene, MA(UC, Berkeley) Mathematics		
Thesis:	Fischer-Clifford theory and character tables of Group extensions		
Supervisor:	Professor J Moori		
Quinn, Nevil Wyndham, BSc(Hons) Natural Resources			
Thesis:	An integrated modelling approach to the management of freshwater inflow to South African estuaries		
Supervisor: Co-Supervisor:	Professor C M Breen Professor J W Hearne		
Summerton, Grant Charles, BSc(Hons)			
Thesis:	Solid state structures and photophysical properties of polypyridyl complexes of Platinum(II)		
Supervisor: Co-Supervisor:	Professor R J Haines Professor J S Field		
Tomlinson Natasha El	Jana DSa(Hana)(Malhauma)		
Thesis:	lena, BSc(Hons)(Melbourne)		
Supervisor:	Prof A H Wilson		
Co-Supervisor:	Prof J R Krynauw		

Tosomba, Omalokoho, MSc, (Free Univ.Brussels) Biochemistry

Thesis: Studies on acid phosphatases of Trypanosoma congolense

Supervisor: Dr T H T Coetzer

Co-Supervisor: Professor J D Lonsdale-Eccles

Thesis: Trypanopain: a potential target for anti-trypanosomal agents

Supervisor: Dr T H T Coetzer

Co-Supervisor: Professor J D Lonsdale-Eccles

Venter, Andrew Karl, MSc(Wits) Natural Resources

Thesis: Protected area outreach programmes: a case study and critical

evaluation

Supervisor: Professor C M Breen

DOCTOR OF PHILOSOPHY IN THE FACULTY OF AGRICULTURE

Discipline

cane growers' Financial Aid Fund

Supervisor: Professor W L Niewoudt

Moore-Gordon, Clive Scott, BScAgric Horticultural Science

Thesis: Aspects of avocado fruit growth and development: towards

understanding the 'Hass' small fruit syndrome

Supervisors: Professor A K Cowan

Professor B N Wolstenholme

Nowell, David Carlisle, BScAgric Plant Pathology

Thesis: Studies on ear rot and grey leaf spot of maize in South Africa

Supervisor: Professor F H J Rijkenberg

Co-Supervisor: Dr M D Laing

Van Vuuren, Stephanus Petrus, MScAgric Plant Pathology

Thesis: Application of transmissible agents to control citrus tree size

Supervisor: Professor J V da Graca

GRADUANDS

MASTER OF SCIENCE

Discipline Addai-Poku, Kwasi, BSc(Hons)(S&T Kumasi, Ghana) Environment & Development Dissertation: Green consumerism: a way forward in South Africa? A case study in Pietermaritzburg Dr D Reavey Supervisor: Co-Supervisor: Dr T Nichola Addo, Patrick Kwezi, BSc(Hons)(S&T Kumasi, Ghana) . . . Environment & Development A review of the application of integrated environmental Dissertation: management by National Government Departments in South Mrs J Mander Supervisor: Co-Supervisor: Mr N W Quinn Airey, Luclaire Anne, BSc(Hons) Environment & Development Dissertation: A critical evaluation of tourism in Ximba, KwaZulu-Natal Supervisor: Professor R Lawrence Co-Supervisor: Mrs L Grant Dissertation: Towards an integrated environmental management strategy for the Mdloti River catchment Supervisor: Dr H R Beckedahl Dalasile, Thembile Lawrence, BSc (Agriculture) Biochemistry Cloning of the Promotor Regions of Trypanosoma brucei and Dissertation: Trypanosoma congolense systeine protease genes Supervisor: Professor C Dennison Co-Supervisor: Dr R Maharaj D'Inzillio Carranza, Ilaria, (Cert.U. Univ.Degli Studi Di Roma) Zoology Dissertation: Use of space and activity rhythms of spotted-necked otters in the Natal Drakensberg Professor M R Perrin Supervisor: Co-Supervisor: Dr D Rowe-Rowe Els, Leonard Edward, BSc(Hons) Computer Science A neural network approach to isolated word speech recognition Dissertation: Supervisor: Mr R Dempster Co-Supervisor: Professor L M Haines

Dissertation:	c(Hons)
Supervisor: Co-Supervisor:	Dr S A Lorentz Professor R E Schulze
Fynn, Richard Warwich Dissertation: Supervisor:	Sinclair, BSc(Hons) Range & Forage Resources Effect of stocking rate and rainfall on rangeland dynamics and cattle performance in a semi-arid savanna, KwaZulu-Natal Professor T G O'Connor
Supervisor.	Trocessor I o o connor
Goddard, Keith Warren	n, BSc(Hons) Zoology
Dissertation:	Fluctuating asymmetry in the redcollared widow: testing theories of sexual selection
Supervisor:	Dr M J Lawes
Condall Julia Louisa	BSc(Hons)
Dissertation:	
Supervisor:	Prof F H J Rijkenberg
Co-Supervisors:	
	Dr R Bailey
Grussendorff, Sharon . Dissertation:	Joy, BSc(Hons)
	A medical investigation of bitchingeness in cubic and
	uniaxial magnetic crystals
Supervisor:	
•	uniaxial magnetic crystals Professor R E Raab
Hughes, Gregory Owe	uniaxial magnetic crystals Professor R E Raab n, BSc(Hons)
•	uniaxial magnetic crystals Professor R E Raab n, BSc(Hons)
Hughes, Gregory Owen Dissertation:	uniaxial magnetic crystals Professor R E Raab n, BSc(Hons)
Hughes, Gregory Ower Dissertation: Supervisor:	uniaxial magnetic crystals Professor R E Raab n, BSc(Hons)
Hughes, Gregory Ower Dissertation: Supervisor: Kitto, Stephen Michael	uniaxial magnetic crystals Professor R E Raab n, BSc(Hons)
Hughes, Gregory Ower Dissertation: Supervisor:	uniaxial magnetic crystals Professor R E Raab n, BSc(Hons)
Hughes, Gregory Ower Dissertation: Supervisor : Kitto, Stephen Michael Dissertation:	uniaxial magnetic crystals Professor R E Raab n, BSc(Hons)
Hughes, Gregory Ower Dissertation: Supervisor: Kitto, Stephen Michael Dissertation: Supervisor:	uniaxial magnetic crystals Professor R E Raab n, BSc(Hons)
Hughes, Gregory Ower Dissertation: Supervisor : Kitto, Stephen Michael Dissertation:	uniaxial magnetic crystals Professor R E Raab n, BSc(Hons)
Hughes, Gregory Ower Dissertation: Supervisor: Kitto, Stephen Michael Dissertation: Supervisor:	uniaxial magnetic crystals Professor R E Raab n, BSc(Hons)
Hughes, Gregory Ower Dissertation: Supervisor: Kitto, Stephen Michael Dissertation: Supervisor: Co-Supervisor:	uniaxial magnetic crystals Professor R E Raab n, BSc(Hons)
Hughes, Gregory Ower Dissertation: Supervisor: Kitto, Stephen Michael Dissertation: Supervisor: Co-Supervisor: Lee, Alan, BSc(Hons)	uniaxial magnetic crystals Professor R E Raab n, BSc(Hons)
Hughes, Gregory Ower Dissertation: Supervisor: Kitto, Stephen Michael Dissertation: Supervisor: Co-Supervisor: Lee, Alan, BSc(Hons) Dissertation:	uniaxial magnetic crystals Professor R E Raab n, BSc(Hons)
Hughes, Gregory Ower Dissertation: Supervisor: Kitto, Stephen Michael Dissertation: Supervisor: Co-Supervisor: Lee, Alan, BSc(Hons)	uniaxial magnetic crystals Professor R E Raab n, BSc(Hons)

Liu, Tao, Bsc(Hons)(Guangxi Normal University, China) Plant Molecular Biology Dissertation: Characterization of the gene complex regulating the response of sovbean roots to heat, cold and water stress Prof I van Staden Supervisor: Lowe, Kerry Lynne, BSc(Hons) Environment & Development Agrohydrological sensitivity analyses with regard to projected Dissertation: climate change in Southern Africa Professor R E Schulze Supervisor: Co-Supervisor: Mr G Kiker The effect of antisymmetrization in diquark models of baryons Dissertation: Supervisor: Professor C Graham Co-Supervisor: Dr R M Adam Mautsoe, Puseletso Jacinta, BSc(Hons) Botany Uptake of cadmium and its effect on the physiology of the Dissertation: liverwort Dumortiera hirsuta (SW) Nees and the moss Atrichum androgynum (CM) Jaeg Dr R P Beckett Supervisor: McGugan, Brandon Ross, BSc(Agric) Microbiology Dissertation: Exploitation of indigenous fungi in low-cost ex situ bioremediation of oil-contaminated soil Professor E Senior Supervisor: Co-Supervisor: Professor F H J Rijkenberg Molatudi, Mohohlo William, BSc(Hons) Botany A molecular study of γ-aminobutyric acid synthesis in Dissertation: Arabidopsis thaliana under abiotic stress Professor J van Staden Supervisor: Co-Supervisor: Professor W A Cress Off road vehicle perturbation effects on the geomorphic Dissertation: environment of Golden Gate Highlands National Park, South Africa Supervisor: Dr H R Beckedahl Moodley, Shomenthree, BSc, Dip HRM Environment & Development Dissertation: Ecological and economic aspects of treating vegetable oil industrial effluent at Darvill Wastewater Works in

Co-Supervisors: Dr Q Espey

Supervisor:

Pietermaritzburg Mr M A G Darroch

Professor M Lyne

^{*} Degree awarded cum laude

The influence of culture on the construal of the self amongst Dissertation: White, Black and Indian students Mr N J Mkhize Supervisor: Obiri, John Festus, BSc(Hons) Environment & Development Dissertation: Socio-economic and evnironment impacts on the utilisation of Umsimbithi tree (Milletia grandis) in Eastern Cape: a case study of Mt. Thesiger Forest Pondoland Dr M J Lawes Supervisor: Co-Supervisors: Dr S Cawe Dr E Granger Othusitse, Botshabelo, BSc(Agric)(UNIBO) Environment & Development Dissertation: An evaluation of small scale forestry in the Kwambonambi region of KwaZulu-Natal Supervisor: Mrs J Mander Co-Supervisors: Mr M Mander Mr N Ouinn Dissertation: Progress towards the stereoselective synthesis of Warburganal Supervisor: Professor N D Emslie Co-Supervisor: Dr D Gravestock Dissertation: Chiral induction in the Baylis-Hillman Reaction Professor N D Emslie Supervisor: Co-Supervisor: Dr B Rahm Pieterse, André, BSc(Hons)(Stell) Counselling Psychology An exploratory study of violence and the development of self-Dissertation: concept in black children Professor L Lachenicht Supervisor: Plaistowe, Matthew Allan, BSc(Hons)(Wye Coll. London) Environment & Development Dissertation: Waterborne sanitation, cost recovery and quality of life: a case study of Ekuvukeni Dr T S Marcus Supervisor: Raja, Sashnee Ballakista, BSc(Hons) Microbiology Dissertation: Biological treatment of phenolic wastewater Professor F M Wallis Supervisor:

Professor E Senior

Dr C du Plessis

Co-supervisor:

Rangongo, Mamoloko Florah, BSc(Hons)(MEDUNSA) Clinical Psychology

Dissertation: Effects of Iron Deficiency on the Cognitive Functioning of

Primary School Children in Southern KwaZulu-Natal

Supervisor: Mr N J Mkize

Rivers-Moore, Nicholas Andrew, BSc(Hons) Environment & Development

Dissertation: The use of a geographic information system to examine changes

in land use patterns in the Midmar catchment

Supervisor: Dr J E Granger Co-Supervisor: Dr F Ahmed

Rowlinson, Lisa Clare, BSc(Hons) Environment & Development

Dissertation: Remote sensing techniques for identifying and classifying alien

invasive vegetation in Riparian Zones

Supervisor: Dr F Ahmed
Co-Supervisor: Mr M Summerton

Sinclair, Richard Roy, BSc(Hons) Geography

Dissertation: An analysis of terracettes in Giant's Castle Game Reserve,

KwaZulu-Natal Drakensberg, South Africa

Supervisor: Dr F Ahmed

Taylor, Michelle Anne, BSc(Hons) Microbiology

Dissertation: Installation, commissioning and preliminary microbiological and

operational investigations of full-scale septic tank digestion of

sewage

Supervisor: Professor E Senior

Taylor, Valerie, BSc(Hons)(Open University, London) . . . Environment and Development

Dissertation: The application of simulation modelling in hydrological conflict

resolution: Pongola catchment case study

Supervisor: Prof R E Schulze

Co-Supervisor: Dr M Dent

Walton, Alison Norma, BSc (Hons) Statistics

Dissertation: Forecasting the monthly electricity consumption of

municipalities in Kwa-Zulu Natal

Supervisor: Professor L M Haines

* Woods, David Buchanan, BSc(Hons) Environment & Development

Dissertation: Siting artificial water points in Mkuzi Game Reserve using GIS

Supervisor: Dr F Ahmed Co-Supervisor: Dr P Goodman Wortmann, Karl Lyndon, BSc (Hons) Computer Science

Dissertation: On Case Representation and Indexing in a Case-Based

Reasoning System for Waste Management

Supervisor: Dr D I Petkov Co-Supervisor: Prof E Senior

MASTER OF AGRICULTURAL MANAGEMENT

Discipline

Khuele, Percival Ramapulana Selai, BScAgric Agricultural Economics

Dissertation: Demand and supply factors in the export of South African fresh

oranges to the European Union (EU): 1976 - 1993

Supervisor: Mr M A G Darroch

MASTER OF SCIENCE IN AGRICULTURE

Dissertation: Nutrient studies in potatoes (Solanum tuberosum)

Supervisors: Professor A L P Cairns Professor P L Greenfield

Bard, Zac Jon, BScAgric Horticultural Science

Dissertation: Soil boron application for the control of boron deficiency of

avocado (Persea americana Mill.) in the KwaZulu-Natal

Midlands

Supervisor: Professor B N Wolstenholme

James, Barry Mark, BSc(Hons)(PU for CHE) Range & Forage Resources

Dissertation: Vegetation succession and soil properties following removal of

pine plantations on the eastern shores of Lake St Lucia, South

Africa

Supervisors: Professor T G O'Connor

Professor J C Hughes

Liebenberg, Benjamin Christiaan, BScAgric(Stell) Crop Science

Dissertation: Intercropping of maize and dry beans in the Vulindlela district

of KwaZulu-Natal

Supervisor: Professor A L P Cairns

Lukangu, Gastao, BSc(Agric)(Agostino Neto University, Angola) Agronomy

Dissertation: Bowen Ratio and surface temperature techniques for measuring

evaporation of cabbages

Supervisors: Professor M J Savage

Dr M A Johnston

Pan, Manjing, BAgric(Beijing Agricultural University, China) Genetics

Dissertation: The inhibition of Fusarium oxysporum f. sp. cubense race 4 by

Burkholderia cepacia

Supervisors: Professor J W Hastings

Dr P Shanahan

Weller, Philip Lawrence, BScAgric Horticultural Science

Dissertation: Vapour heat treatment of 'Hass' and 'Fuerte' avocado (Persea

americana Mill.) fruit for extending storage life

Supervisor: Professor B N Wolstenholme

Co-Supervisor: Professor A K Cowan

BACHELOR OF SCIENCE (HONOURS)

	Aberg, Christian, BSc
	Arthur, Georgina Dede, BSc Plant Pathology
	Barker, Tanya Lynn, BSc
*	Berjak, Stephen Gary, BSc Applied Mathematics
	Brown, Mark, BSc Zoology
*	Carbutt, Clinton, BSc
	Clulow, Alistair David, BSc
*	Dalling, Kerry Jacqueline, BSc
*	Dawe, Adam Sean, BSc
*	Edwards, Thomas Jonathan, BSc
*	Field, Louise Fabienne, BSc
	Frean, Nicola Helen, BSc
	Gers, Craig Jonathan, BSc Geography
	Graham, Martha Helena, BSc Soil Science
	Greenway, Teresa Gay, BSc
	Hallowes, Jason Scott, BSc
*	Hart, Reinet, BSc
	Hawke, Georgina Frances, BSc Plant Pathology
	Hawthorn, Scott Raymond, BSc
	Hood, Robyn Margaret, BSc Geography
*	Hull, Douglas Robin Sant, BSc Microbiology
	Hundermark, Gregory Edward, BSc Computer Science
*	Jooste, Marion Cheryl, BSc
	Kelly, Janine Anne, BSc Entomology
	Kelmanson, Jonathan Edward, BSc
	Khumalo, Promise Nomfundo, BSc Computer Science
	Knowles, Tafline Ann, BSc
*	Lawrence, James Mark, BSc Entomology
	Lemos, Sharon Angela Castro, BSc Zoology
	Mackay, Malanie Roseland, BSc Biochemistry
	Maclean, David, BSc Computer Science
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^{*} Degree awarded cum laude

	Madlala, Paulos Sizwe, BSc
	Mafoko, Baatseba Johanna, BSc
	Mathe, Emelinah Hluphekile, BSc Biochemistry
	Mchunu, Eric Vusi, BSc
k	McMaster, Megan Kay, BSc Zoology
	Meyer, Brian Robert, BSc
	Mhlongo, Nozipho Felicity, BSc(UNIZUL) Microbiology
	Mokebe, Pule Tumisang, BSc Microbiology
	Mokone, Cornelius Zachius, BSc Statistics
k	Moodley, Thunicia, BSc
	Moolman, Lizette, BSc
	Mthembu, Nompumelelo, BSc Microbiology
ķ	Muir, Peter William, BSc Applied Mathematics
	Nebbe, Cheryl, BSc Plant Pathology
	Netshifhefhe, Thilavhelesi Simon, BSc
k	Nhlebela, Richard Vusumuzi, BSc Physics
	Pillay, Candice Claudia Natasha, BSc Molecular Biology
k	Pistor, Carmen Paula, BSc
	Pott, Andrew James, BCom
	Ralebitso, Theresia Komang, BSc Microbiology
	Ramnath, Manilduth, BSc Genetics
	Roberts, Anita Lee, BSc Applied Mathematics
	Salman, Bilkisu, BSc
	Schoeman, Ronelle Ruth, BSc
	Sewlal, Shardesh, BSc Soil Science
	Shale, Thato Lucy, BSc(NUL)
	Sihlophe, Nhlanhla Reginald, BSc
	Singh, Ashmi, BSc
	Surendorff, Jürgen Gregor Manfred, BSc
	Symes, Craig Thomas, BSc Zoology
*	Tarr, Heather Lucy, BSc Applied Mathematics
	Taylor, Kim Jennifer Elizabeth, BSc
	Thompson, David Ian, BSc Botany
	Thomson, Leanne, BSc Microbiology
	Tredgold, Ashleigh-Jane, BSc
	Uvs Roger Gregory, BSc
*	Vilioen Marcel René, BSc Computer Science
	Weeden, Lisa Anne, BSc Microbiology
	Whittaker, Ryan William, BSc Molecular Biology
	Wilson, Ian Grahame, BSc
	Yobo, Kwasi Sackey, BSc Microbiology

BACHELOR OF AGRICULTURAL MANAGEMENT (HONOURS)

Bown, Anthony Norman, BAgricMgt	Agricultural Management
Turner, Christopher Robert, BAgricMgt	Agricultural Management

BACHELOR OF SCIENCE IN DIETETICS (HONOURS)

Mthuli, Teressa Duduzile, BDiet(MEDUNSA) Dietetics

BACHELOR OF SCIENCE IN AGRICULTURE

Anderson, Rhoda Animal Science
Apostolides, Karina Horticultural Science
Auerswald, Larne Kenneth Plant Pathology
Bidla, Sindile Xolani Jama Animal Science
Bowley, Michael Craig Agricultural Production
Boyum, Hans Mark Horticultural Science
Brook, Henry Frederick Agricultural Economics
Catella, Antony James
Cochrane, William James Dundonald Agricultural Production
Criveano, Tom Horticultural Science
De Boer, Brendon
Demont, Wendy Eileen Horticultural Science
Draper, Claire Elizabeth Entomology
Dudman, Dirk
Evans, Jennifer Janet Cecile Animal Science
Ferreira, Craig Piers
Galloway, Derick Russell Agricultural Economics
Geils, Stephen Spencer Alston Soil Science
Gibbs, Jennifer Lynn Animal Science
Gibson, Timothy Errol Matthew Agricultural Economics
Glaum, Melanie Jane Grassland Science
Green, Frederick Michael Horticultural Science
Guizot, Stefan Jeremy
Hall, Edward Glenton
Hallwirth, Claus Volker
Harris, John Rowland Leslie Grassland Science
Hildebrand, Sean Mark Horticultural Science
Hinde, Christine Frances Cecile Animal Science
Hoosen, Mustag Farouk Horticultural Science
Laing, Shaun Robert Agricultural Production
Lowry, Dale Hardeane Horticultural Science
Mac Gregor, Shaun Donovan Grassland Science
Macfarlane, Peter Granby Wildlife Science
Maharai, Jyothi Animal Science
Mann. Roger Leigh Agricultural Economics
Mariette, Benoit Alain Bernard Agricultural Production
McCulloch, Douglas John Grassland Science
McKechnie, Andrew Richard Agricultural Production
McKenzie, David John

^{*} Degree awarded cum laude

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α Degree awarded summa cum laude 14

Agricultural Economics
Mendes, Carlos Juan D'Oliveira Agricultural Economics
Millican, Kim Halley Agricultural Production
Munian, Adhestra Jagathesan Horticultural Science
Pringle, Erik Wadner Horticultural Science
Rabinowitz, Simon Kedar
Reynolds, Richard Norman Grassland Science
Simkins, Gregory Denis
Smith, Andrew Desmond Animal Science
Snyman, Jacobus Johannes Charles Horticultural Science
Stephens, Iain Andrew Horticultural Science
Stewart, Greg Agricultural Production
Taylor, Nicolette Jane Horticultural Science
Tembe, Gladys Mamati
Thompson, Simon Agricultural Economics
Van Schoor, Stephen Mostert Agricultural Production
Williams, Melanie Theresa Horticultural Science
Wilson, Robert Alfred Agricultural Economics
Wiseman, Jonathan Angus Agricultural Economics

BACHELOR OF SCIENCE IN AGRICULTURE (FIVE-YEAR)

Thamaga, Joyce Magoshi Horticultural Science

BACHELOR OF AGRICULTURAL MANAGEMENT

Bulwer, Mark Ian Earl
Desvaux De Marigny, Louis Philippe
Remi
Lishman, John-Louis
Oellermann, Walter Erwin
Ringelmann, Hans

Saunders, Michael Selby Saunders, Neil Vaughan Steytler, Colleen Mary Stidolph, Alexander Richard Vickery, Julian Andrew

BACHELOR OF AGRICULTURAL MANAGEMENT (FOUR-YEAR)

Makiza, Sivuyile Brian

BACHELOR OF SCIENCE IN DIETETICS

Adonis, Sinethemba
Arnold, Margaret Louise
α Austin, Genevieve
Bennett, Aileen Esther

Bouchier, Carmen Michelle Bridgeford, Vanessa Gabrielle Buthelezi, Phumelele Clarke, Carine Michelle Conroy, Lara Kim
Cooper, Nicole Corinne
Cowie, Barbara Anne
Dhookhun, Rosida
Ernest, Jean Ernestine
Forman, Michal Dafna
Girdwood, Tracey Elizabeth
Gregersen, Sharon Lynn
Hlongwane, Nokuthula Khanyisiwe
Holesgrove, Marcelle Dawn
Holzinger, Tamaryn Talitha
Ketwa, Lindelwa

Holzinger, Tamaryn Talitha Ketwa, Lindelwa Konar, Sharona Lea, Valerie Suzanne Lekoloane, Masadiki Violet Lord, Wendy Joy Mansoor, Fatima Bibi Essop Meekin, Sarah Jean

Mincher, Lynne Jennifer

Moosa, Fathima Ismail Nkosi, Gugulethu Nonkululeko Lethokuhle

Nunkoo, Sherleen

Nyembezi, Nompumelelo Lindile Thembalethu

Ponting, Lauren Mari

Pullan, Claire Deborah Ayrton

Razak, Sadia

Redmond, Debrah-Kim

Rothbart, Toni

Schaefer, Liesel Ruth

Sevmour, Emma Jane

Sharma, Tanuja

Stein, Tarvn Pier

Tapper, Shannon Jane

Torr, Tina Sherie

Tukwayo, Nondumiso Abigail

Vance, Carolyn Ann

Walker, Jane

BACHELOR OF SCIENCE

(Major subjects passed in the first class are shown in brackets)

Anthony, Lynette Maria Baloyi, Wisane Eddy

* Bennett, Amanda Judith(Botany, Plant Pathology)

Bhengu, Reynold Erick Sizwe Bhengu, Muzikayise James Bhugalee, Noorjahan Bibi

Brodie, Patricia Anne(Botany) Bromfield, Iain

Bunsee, Pranesha
Buntting, Elise Eva
Cairns, Holly Joy

Camp, Greville Lionel Canter, Ross Ian

Chetty, Sharlene Clarke, Dino Justin

Cunningham, Debra Margaret

Davies, Scott Llewellyn

De Klerk, Andrew George Delport, Hayley

Everett, Caroline Mary

Fanana, Mphaphati Suzan Gajathar, Yuren Vijay Gnirck, Belinda Ulrike

Green, Ryan

Gumede, Zandile Patricia Hadebe, Adolph Slindokuhle

Hadebe, Sifiso Sokesimbone Devine

Hadebe, Eugene Sibhekiseni

Haffejee, Farhana Hallett, Kerry Lyn

Hamblin, Kate Mary Hansa. Aneesa

* Haw, Tabitha Simone

α Haynes, Delia Ann(Chemistry, Genetics) Horan, Mark John Christopher

 α Hughes, Kerry Louise(Biochemistry, Microbiology)

* Jackson, Sandra Lee(Chemistry, Applied Chemistry)

Job, Jonathan Arthur Jones, Kenneth Evan

^{*} Degree awarded cum laude α Degree awarded summa cum laude

Jordan, Ingrid Elizabeth

Kandan, Meshentha

Khanyile, Watterson Nhlanhla

Khoosal, Geeta

Khuzwayo, Cornelis Mncedisi

Kilroe, Brett Victor

Kinvig, Richard Grant

Laing, Bronwyn Alison

Lakhraj, Rakhee

Landers, Louise Kim (Biochemistry)

Luyt, Robyn Pamela

Macdonald, Cedric Dougan

Maharaj, Sham

Makawu, Mantsepo Caroline

Makhavhu, Dzivhuluwani Simon

Malete, Faith Tshepiso Christina

Mansfield, Lara Ray

Maringa, Thembani Sidwell

Mazwi, Thembisa

Mbuce, Babalwa Vuyokazi

McLaren, James Maxwell

Meyer, Brendan

Miller, Michael James Macrae

Misauer, Linda

Mitchell, Jennifer Lyn(Geography)

Mkhize, Nonhlanhla Patience

Mkhwanazi. Daniel Dennis

Mnguni, Thabo Josiah

Mntambo, Adolphus Qedusizi

Moodley, Shaun Duane

Moodley, Yoshnie

Morgan, Leigh Ann (Genetics)

Motha, David Sikhulumi

Msiska, Zola

Mthethwa, Dumisani

Mtshatsha, Tandiswa Ntombizodwa

Mukona, Michael Mulalo

Muller, David

Ndlela, Robert Mfiswa

Nieuwoudt, Michelle Genevieve

Ngcobo, Delisile Rebecca

Nonyane, Bareng Aletta Sanny

O'Brien, Paula Prudence Tristin

* O'Leary, Matthew Blyth (Computer Science, Statistics)

Pay, Robyn Lynne (Biochemistry)

Payne, Erlene Lillian

Pearson, Hayley Genevieve

Peerbhai, Imraan

Phillips, Michelle Lisette

Prangley, Anthony Ross

Prowse, Michelle Lynne

Raja, Ashwina

Ramballi, Sunil

Reid, Paul-Dillon

Robinson, Paula Marguerite

Roelofsen, Aukje

Russell, Marlene

Safla, Aslam

α Schmidt, Tracy (Chemistry, Microbiology)

Schuitemaker, Justin

 $\alpha\,$ Scott, Jackie Lorraine, BSocSc,

(Computer Science, Mathematics)

Sewambar, Nirasha

Sewbarun, Nivedna

Sewjee, Renoir

Sha, Imran

Shange, Siphesihle Nokuthula

Sharples, Shaun

Sibisi, Nomathamsanqa Nonjabulo

Samukelisiwe

Sikhakhane, Sindisiwe Sylvasia

Smith, Jason Lloyd

Sotheni, Luckman

Tetvana, Pokazi

Titshall, Louis William

Van Der Meer, Neil Anthony

Volans, Simon

Von Mayer, Grant

Wallis, Stephen Edward

Warby, Richard Ashley Frank

Williams, Lenti Patricia

Willis, Anita

Wilson, David Andrew

Zondo, Patience Thembelihle

^{*} Degree awarded cum laude α Degree awarded summa cum laude

BACHELOR OF AGRICULTURE

Khumalo, Lucky Romeguis Boniface Moso, Tankiso Henry Sokhetye, Mongezi Bhelu Thompson, Benedict

DIPLOMATES

POSTGRADUATE DIPLOMA IN DIETETICS

Atkinson, Lauren Anne, BScDiet Barrington, Sarah Anne, BScDiet Chetty, Pamala, BScDiet Cuba, Zolelwa, BScDiet FitzGerald, Catherine Anne, BScDiet Goolam Hoosen, Nasreen, BScDiet Irvine, Debra Mary, BScDiet Jackson, Claire Helen, BScDiet

* Logan, Nicola June, BScDiet Marais, Stevan James, BScDiet Mopeli, Dineo Alina, BScDiet
Nel, Keri-Lyn, BScDiet
O'Leary, Eleanor Sarah, BScDiet
Pillay, Kirthee, BScDiet
Schonfelder, Nicola, BScDiet
Shabalala, Prudence Ntombifikile,
BScDiet
Torgius, Laura Jayne, BScDiet
Van Tonder, Deborah El-Vira, BScDiet

UNIVERSITY DIPLOMA IN RURAL RESOURCE MANAGEMENT

Bhengu, Abigail Nozipho Biyela, Mduduzi Eric Bulose, Desmond Sithembiso Cherane, Matodzi Judas Dladla, Vusi Collin

Dladla, Vusi Collin

* Dlamini, Gugu Precious
Dube, Eugene Sibongiseni
Gule, Khanya Felix
Gumede, Rachel Jabulile
Khanyile, Bonisiwe Sthabile
Khumalo, Victor Bhekinkosi
Lusu, Mlungiseleli
Luthuli, Buyile
Magwaza, Precious Kenneth Muzi
Mawande
Masango, Wiseman

Memela, Bhekathina Eugene Bhekizitha Mkhize, Ivion Velindaba Mkhize, Jacobs Siphiwe Mkhize, Vusi Mathews Mkhungo, Gugulethu Patricia Mngomezulu, Joseph Dumisani Molefe, Sebastian Thabo Monatisa, Millicent Puleng Ndlovu, Mbongeleni Mathews Ngubane, Steven Zama Ngwazi, Bongiwe Magnonet Phakathi, Nompumelelo Goodness Shange, Nicholus Jabulani Shusha, Thulani Percy Tame, Nomsangaphi Agnes Zulu, Sazi Sage Knowledge

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 those 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.

ROBERT MERVYN GOUS

Virtually anywhere in the scientific and agricultural world, the mention of "Poultry Science" and "South Africa" will elicit the name of Rob Gous. The University of Natal is indeed fortunate to have Professor Robert Mervyn Gous to head the Department of Animal Science and Poultry Science at its Pietermaritzburg Centre. He brings great lustre to the name of the University and, for this, we rightly honour him at this graduation ceremony.

In 1986 Professor Gous initiated the development of simulation models which predict the outcome of nutritional and management programmes in the poultry industry. In so doing he achieved an unusual but ideal marriage between academic depth and the development of practical solutions to long standing problems. He and his colleagues subsequently extrapolated these models and solutions to pig growth and the pig industry. Their work is now used in several countries, both in Africa and elsewhere, to maximise production. It is also used by international research laboratories to formulate further research hypotheses.

Professor Gous publishes widely and regularly in both local and international journals. In that small and select group of international agricultural scientists who influence the direction of research, he stands not only as an equal, but as a leader. He has been the recipient of many awards, notably the highly prized status of an "A" rated scientist by the South African Foundation for Research Development. This means that he and his research group receive generous financial support from this body. Such is his international reputation, however, that he also attracts valuable research contracts, and is the recipient of numerous prestigious consultancies each year.

In addition to his research achievements, Professor Gous is described as "a great teacher". He and his group have played a significant role in introducing experiential learning into the Faculty of Agriculture and, also, to the wider Pietermaritzburg campus. He inspires students and colleagues with his enthusiasm, his *joie de vivre*, his predilection for birds, and his original and adventurous approach to research and learning in the widest sense. One of his assessors paid him the following tribute: "for all his success and influence, Rob Gous has remained a very likeable man and a great ambassador for the country". We may add that he is as worthy an ambassador for the University of Natal. It is for this, and for his exceptional scientific and practical achievements, that we salute him with the award of a University Fellowship.

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 early kings. Because so few people were literate, a chancellor was automatically learned. This explains why 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 current Chancellor of the University of Natal. His predecessors are: 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 G H 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.

A BRIEF HISTORY OF THE UNIVERSITY OF NATAL

In 1910, partly on the initiative of the Natal Colonial Government, the Natal University College (NUC) opened its doors in a corrugated iron annexe behind Maritzburg College. Eight professors taught 57 students Classics; English and Philosophy; Law; Modern Languages; Botany and Geology; Chemistry and Physics; Mathematics; and Zoology. In 1912 the Old Main Building at Scottsville opened.

In 1922 the NUC extended its activities to Durban with university level courses in commerce and engineering taught at the Technical College. In 1932 Howard College was opened on the Durban Berea, firmly establishing the dual-based character of the NUC.

As a result of the initiatives of the Fabian Socialist, Dr Mabel Palmer, 19 "Non-European" students were enrolled at NUC in Durban in 1936. This grew to nearly 900 by 1960, thus firmly establishing the principle that the NUC would serve the needs of the whole community. However, like the Medical School, founded in 1951 for African, Indian and "Coloured" students, classes still reflected the segregated nature of the surrounding society. The National Party's Extension of University Act of 1959 limited new enrolments other than those at medical school to Whites and brought a temporary halt to the University's aim of serving the educational needs of the whole community and severely restricted the autonomy achieved when the NUC became the University of Natal in 1949. Only when racial restrictions were partially lifted in 1983 could the University resume its task of serving the whole community. Since then it has welcomed increasing numbers of Black students who now make up the majority of the student body.

In 1952, Dr E G Malherbe, who had steered the NUC towards being a fully independent University in 1949, moved the administrative function from Pietermaritzburg to Durban. In 1973, in response to mounting travelling costs, the two Centres were academically separated. Each Centre came to have parallel faculties of Law, Humanities, Commerce, Science and Social Science. The teaching of Architecture, Engineering, Medicine and Music was, however, limited to Durban, and Agriculture, Theology and Fine Art to Pietermaritzburg.

The University of Natal has had some outstanding persons as Vice-Chancellors and Principals. The first principal, John Bews, was a world-renowned botanist and E G Malherbe was known throughout the world as an outstanding educationalist. In 1993 the University of Natal was the first university in South Africa to appoint a woman, Professor Brenda Gourley, as its Principal. The largely ceremonial Chancellors too, have been distinguished, not least of all the present incumbent, Archbishop Denis Hurley. Alumni include people as diverse as Alan Paton, Steve Biko and Alec Erwin. Honorary Graduates include Roy Campbell, Abdullah Ebrahim and Nelson Mandela

In its 1989 mission statement the University of Natal affirmed its determination to "serve all sections of its community through excellence in scholarship, teaching, learning, research and development". 1997 and 1998 sees the University creatively responding to the challenge of a fast-changing environment. As a result of the possibilities provided by interdisciplinary studies as well as financial constraints it has become possible and necessary to rationalise academic, executive and support functions across the two Centres. This will enable the University to become more efficient and fulfil its mission well into the 21st century.

National Anthem of South Africa

Nkosi sikelel' iAfrika 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 Sethjaba sa, South Afrika, South Afrika.

Uit die blou van onse hemel
Uit die diepte van ons see
Oor ons ewige gebergtes
Waar die kranse antwoord gee
Sounds the call to come together
And united we shall stand
Let us live and strive for freedom
In South Africa our land.