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UNIVERSITY OF
KWAZULU-NATAL

GRADUATION CEREMONY

FACULTY OF SCIENCE AND AGRICULTURE

TUESDAY, 20 APRIL 2010

14h30

SPORTS CENTRE
(WESTVILLE CAMPUS)

THE UKZN PACT

We, the staff and students
of the University of Kwa-Zulu Natal
agree to treat each other with respect,
to abide by the rules and regulations of the institution
and to commit ourselves to excellence in research-led
teaching and learning

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C\M/_/_/

Isivumelwano seNyuvesi yaKwaZulu-Natali

Thina, singabasebenzi nabafundi
baseNyuvesi yaKwaZulu-Natali
sivumelana ngokuthi siphathane ngenhlonipho,
silandele yonke imithetho nemigomo yesikhungo
futhi sizibophezela ekufundeni nasekufundiseni
okuholwa ucwaningo nokunobunyoningco

OFFICERS

ol Chancellor

Vice-Chancellor and Principal

Chairman of Council

Deputy Vice-Chancellor (Research)

Deputy Vice-Chancellor (Teaching and Learning)

Deputy Vice-Chancellor and Head of College (Agriculture, Engineering and Science)

Acting Deputy Vice-Chancellor and Head of College (Health Sciences)

Deputy Vice-Chancellor and Head

of College (Humanities)

Deputy Vice-Chancellor and Head of College (Law and Management Studies)

Registrar

President of Convocation

Dr ZL. MKkhize
MBChB(Natal)

Professor MW Makgoba
MBChB(Natal) DPhil(Oxon) FRCP(Lond)
FRSSA/MASAfAMP(INSEAD)

Mr M Mia

Professor NM Ijumba

PrEng BSc(Eng) (Hon) (Dar-es-Salaam) MSc
(Salford) PhD(Strathclyde) CEng MIET
MIEEE Reg Eng(T) Reg Eng(K)

Professor R Vithal
BA(Hons) UHDE(UDW) BEd(Natal) MPhil
(Cantab) DrScient(AaU)

Professor R Slotow
BScHons(Rhodes) MSc(Natal) PhD(California)

Professor SY Essack
BPharm MPharm PhD(UDW) MPS

Professor JRA Ayee
BAHons MPA(Ghana) PhD(Hebrew
University of Jerusalem)

Professor JC Mubangizi
Dip.Ed LLB(Makerere) Dip.L.P(LDC)
LLM(Cape Town) LLD(UDW)

Professor JJ Meyerowitz
BScCompSc MSc(Natal)

Mr SC Ngcobo
BAdmin BCom(Hons) (UDW)

OFFICE BEARERS - FACULTY OF SCIENCE
AND AGRICULTURE

Dean Professor D Jaganyi
BScHons (Rhodes) M Sc (Nairobi)
PhD (London) DIC (Imperial College)

Acting Deputy Dean (Westville) Professor A Kindness
BScHons MSc PhD (Aberdeen)

Deputy Dean (Pietermaritzburg) Professor KP Kirkman
BScAgric MScAgric PhD (Natal)

ORDER OF PROCEEDINGS

The Academic Procession enters the Hall

University Anthem

The Chancellor constitutes the Congregation

Welcome to Guests

Professor R Slotow

Deputy Vice-Chancellor and Head of College: Agriculture, Engineering

and Science

Congratulatory Remarks

Students' Representative Council

Presentation of Doctoral Graduands

Dean of the Faculty

Musical Interlude

Presentation of Graduands

Dean and Deputy Deans of the Faculty

The Chancellor dissolves the Congregation

National Anthem

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

The Academic Procession leaves the Hall

Gaudeamus Igitur

Key to symbols

Passes with distinction in major subject / programme
Degree awarded cum laude

Degree awarded summa cum laude

Diploma awarded with distinction

Posthumous

Award of Degrees in the Faculty of Science
and Agriculture

DOCTORAL DEGREES

Doctor of Philosophy

Ansell, William Philip, BSc. BScHons (EnvEngGeol)C.coocveiviiiei.. Geol
ogy

Thesis: The Mineability of Richards Bay Minerals Dune Sands

Supervisor: Professor CA Jermy

Balme, Guy Andrew, BSc (CapeTown), BScHons (CapeTown)C..... Biol
ogy

Thesis: The Conservation Biology of a Nominally Protected Leopard Population

Supervisor: Professor RH Slotow and Dr LTB Hunter

Boyle, Grant Alexander, BSc, BScHons (Chem), MSc.....cccccoovviiiovnanan.. Chemist
ry

Thesis: Synthesis of Camphor Derived Ligands for Applications in Asymmetric
Catalysis

Supervisors: Professor HG Kruger, Dr GEM Maguire and Dr T Govender

@hunilal|SVisenNBS B Gl oy Ry S o S e Chemistry

Thesis: Structure, Accessibility and α - β Reactivity of Cellulose I as reveale
d by CP/

MAS 13 C-NMR Spectroscopy and Atomic Force Microscopy

Supervisors: Professor A Kindness, Dr TLD Bush and Dr PT Larsson

Hamdouni, Yamen, MSc (Mentouri URIVEFSILY)cccoveivicieiieeeeeeeeeeeannes
Physics

Thesis: Exactly Solvable Models for Qubits Coupled to Spin Environments:
Decoherence and Entanglement

Supervisor: Professor F Petruccione

Lazarus, Ian Joseph, BSc (UKZN), BScHons (CapeTown), MSCccccovvevncen. Physi
cs

Thesis: Linear and Non-Linear Fluctuations in Electron-Positron Plasmas

Supervisors: Professor SR Pillay, Professor MA Hellberg and Professor R Bharuthram

Lyambila, Waudo, BSc (Nairobi), MSc (Calgary)cccocvccnnciicioeniaiaa.. Chem
istry

Thesis: A Study of Photoinduced Transformations of Sunscreen Chemical Absorbers

Supervisor: Professor BS Martincigh

Magnus, Lindsay Gerald, BSc (Rhodes), BScHons (Rhodes), MSc (Rhodes) Physics

Thesis: An Analysis of Pc5 Pulsations Observed in the SuperDARN Radar Data

Supervisors: Professor JPS Rash and Professor ADM Walker

Maharaj, Adhir, BSc, BScHons (ApplMath), MSc..... Applied Mathematics
 Thesis: Singularity and Symmetry Analysis of Differential Sequences
 Supervisors: Professor PG Leach and Professor M Euler

Mohammed, Abdelhafeez Mohammed Abdelhateez, BSc (University of Khartoum),
 IS (Universinlofts Glen celdlnaN e o 0 Chemistry
 Thesis: Extractives from Species of the Myrtaceae and Rubiaceae of Southern Africa
 Supervisors: Professor DA Mulholland and Dr PH Coombes

Moodley, Deshendran, BSc, BScHons, MScccccccoiiiiivinnnnnnnn. Computer Science
 Thesis: Ontology Driven Multi-Agent Systems: An Architecture for Sensor Web Applications
 Supervisors: Professor J Tapamo and Professor JDM Kinyua

Nnadozie, Remigius Chidozie, BScHons (Maths) (Imo State University), MSc Applied Mathematics
 Thesis: Mathematical Modelling of Social Parameters and their Interaction: The Case of Water Delivery/Access and Household Dynamics in South Africa
 Supervisor: Professor PG Leach
 O'Donoghue, Scanlon, S o N SRR Biology
 Thesis: The Sardine Run: Investigating Sardine and Predator Distribution in Relation to Environmental Conditions using GIS and Remotely Sensed Products
 Supervisors: Professor VM Peddemors and Dr AJ Smit

Oyediji, Opeoluwa Oyehan, PGDip (Chem) (Lagos State University, Nigeria), MSc
 @chem(lbagostSialel iy e I R e L S Chemistry
 Thesis: Chemical Prospecting of Medicinal Plants for Drug Discovery
 Supervisor: Professor FO Shode

RillaySBavani, BSc, BScHons (Chem) (University of South Africa), MSc
 Thesis: A Study of Nickel Molybdenum Oxide Catalysts for the Oxidative Dehydrogenation of n-Hexane
 Supervisor: Professor HB Friedrich

Roberts, Jonathan Wesley, BA, BAHons, MSc (Cape Town)..... Environmental Science
 Thesis: Image Fusion for Enhanced Forest Structure Assessment
 Supervisors: Professor FB Ahmed and Dr JAN Van Aardt

Viljoen, Vredenburg, AN At Ve (U U S Biology
 Thesis: House Dust Mites (Acari: Pyroglyphidae) in South Africa with Specific Reference to Hospitals in the Coastal Cities
 Supervisors: Professor CC Appleton and Professor EA Ueckermann

MASTERS DEGREES

Master of Science

AbedSRohaidayBSeBScHonsus! 5 e siissanal Usll od o Environmental Science

Dissertation: An Investigation into the Suspended Sediment Flux and Dynamics of the Mgeni Estuary, Durban

Supervisor: Dr S Pillay

BB aleobindYAdhikaÂ¥BScUBIS chloysEe s e Microbiology

Dissertation: ~ The Impact of Heavy Metals on the Aerobic Biodegradation of 1, 2-Dichloroethane in Soil

Supervisors: ~ Dr AO Olaniran and Professor BJ Pillay

* Banda, Adson, BSc Educ(Zambia), PGDip(MathSci)(Stell) Mathematics

Dissertation: ~ What is an Algebraic Structure (An Exposition of Beck's Monadicity Theorem)

Supervisor: Dr PP Ghosh

Botes, Warren Mark, BSc, BSCHONS(ERVSC) Environmental Science

Dissertation: ~ Measuring the Success of Individual Wetland Rehabilitation Projects in South Africa

Supervisor: Professor WN Ellery

BremnersSheniySBiS e ons(@apeloyyr) B Physics

Dissertation: ~ Analysing Transient Effects in the Ionosphere using Narrowband VLF Data

Supervisor: Dr AB Collier

Chama, Abdoukadi, BSc(Abdou University), PGDip(MathSci)(CapeTown) Applied Mathematics

Dissertation: Study and Implementation of Two-Dimensional Moving Finite Elements Method

Supervisor: Dr S Shindin

@hctivAEsiclleioletteNBSNBS cLin i Sumr s e Wi Chemistry

Dissertation: Ozone Initiated Oxidation of 1, 2-Dichlorobenzene in Aqueous Systems

Supervisors: Professor SB Jonnalagadda and Dr C Southway

@ockCroftaS uanRViVianWBS C Lo TS (1G4S P s S Physics

Dissertation: A Conjugate Study of Lightning and Whistlers

Supervisor: Professor ARW Hughes

Colenbrander, Darryl Rard, BSCHORS Environmental Science

Dissertation: ~ Exploring Coastal Spaces: Towards Linking Social and Ecological Systems

Supervisors: Dr L Celliers and Ms CG Sutherland

Cwele, Thandanani, BSc(UZ), BScHons(CapeTown)C.cccoovvveveieevennn. Chemistry
Dissertation: ~ Supramolecularly Capped Metalloporphyrins
Supervisor: Professors HB Friedrich and Dr GEM Maguire

Daniels~Graham@lint o B B @ 0 s R Physics
Dissertation: ~ Violation of the Bell Inequality using a Neutrino Model
Supervisor: Professor F Petruccione

Degama, Mapule Pertunia, BSc(UNIN), BScHons(UNIN)c.....ccccocoovivoecn. Physics
Dissertation: ~ Wavelength Independent Laser Beam Shaping
Supervisor: Professor A Forbes

Delport, Brett, BSc, BSCHONSo s oo Sttt 0 Physics
Dissertation: Study of Some Unusual VLF Emissions
Supervisor: Dr AB Collier

HdywardsSRyant ohnNBIS GRES G Ll o) s Environmental Science
Dissertation: ~ The Origin and Evolution of Dartmoor Vlei in the KwaZulu-Natal Midlands, South Africa
Supervisors: Professor RD Diab and Professor JN Dunlevey
cBHissay~AhmedIRaShidNBIS clBIS ol R Financial Mathematics
Dissertation: Applications of LÃ©vy Processes in Finance
Supervisor: Protessor JG Oâ\200\231Hara
Ganesh~AthiceshalBIS GRBIS G/ oy S Microbiology
Dissertation: A Study on the Protein Expression of Diesel Degrading Gram-Positive Bacteria
Supervisor: Professor J Lin
S G oyenderNDeshnideViNBIS CRBIS Gl ()71 Biology
Dissertation: Analysis of Membrane Lipid Composition of Recalcitrant Seeds of Various Species
Supervisors: Professor NW Pammenter, Professor P Berjak and Dr J Wesley-Smith

GoyendenIivasiniNBS GRBIS a0 Biology
Dissertation: Towards the Cryopreservation of Cordyla africana Lour. using Explants Alternate to Seed-Derivative Axes
Supervisors: Professor P Berjak, Professor NW Pammenter and Dr JI Kioko

GovendenSNatasha~BiS GWBIS /T o7 Biology
Dissertation: Aspects of the Ecology of Sandy Beaches Along Durbanâ\200\231s Urbanised Coastline
Supervisor: Dr AJ Smit

Govender, Strinivasen, BSc, BSCHONScoco000oeroeeeoeroeoonn. Environmental Science
Dissertation: An Investigation of the Natural and Human Induced Impacts on the Umdloti Catchment
Supervisor: Dr S Pillay

GrafAnt ndicasyBSeRBSehlons(Stell)Fs s N N S N Biology
Dissertation: ~ The Spatial Ecology of Lion (Panthera leo) and Spotted Hyaena (Crocuta crocuta) in Hluhluwe-iMfolozi Park: Implications for the African Wild Dog

(Lycaon pictus)
Supervisors: Professor RH Slotow and Dr MJ Somers
HanichundYChanleneABIScoB S e oy s Bt S B i o S L, Microbiology

Dissertation: ~ Characterization and Industrial Application of Heavy Metal Removing Bacterial Biofloculants
Supervisor: Professor J Lin

Hawksworth, David James, BSc, BSCHORSc.cccooioiiniiniiniiniieieiee Biology
Dissertation: ~ Detecting Parasite Loads in Urine Diversion Toilets
Supervisors: Professor MT Smith, Professor CA Buckley and Dr NH Rodda

Hlongwane, Zanele, BTech(MLST).....ccccoviceienaoiiaacn Environmental Science

Dissertation: ~ The Origin and Morphological Significance of Earth Mounds in Mkuze Wetlands, KwaZulu-Natal

Supervisor: Professor A Kindness

HoosenSNikhatABSchBSCHonswolnr S st ssmas gelidn el S hs e beminn 811 Biology

Dissertation: Patterns of Genetic Variation in Mops leucostigma (Molossidae) from Madagascar and the Comores

Supervisors: Professor JM Lamb and Dr PJ Taylor

Howison, Owen Erik, BSc(Stell), BSCHons(Stell)ccccvvvieeiiiiiiiieieeee
. Biology

Dissertation: How do Alien Plants Invade: An Analysis of the Historical Spread and Potential Distribution of the Invasive Alien Plant Chromolaena odorata in and Around Hluhluwe Game Reserve

Supervisors: Professor RH Slotow and Professor H Olff
ElowisonSRuthABAlisSonNBSe(@nisa)es w8 Srstsnnnf o o A S L oy Biology
Dissertation: Food Preferences and Feeding Interactions Among Browsers and the Effect

of an Exotic Invasive Weed Chromolaena odorata on the Black Rhino (Diceros bicornis), in an African Savanna
Supervisors: Professor RH Slotow and Professor H Olff

HuanoS@hunsSunoNBIScWBIS clilors s e Financial Mathematics

Dissertation: Relative Indifference Pricing and Hedging under the Assumption of Stochastic Volatillity and Exponential Utility

Supervisor: Professor JG Oâ\200\231Hara

JaganathS@hanissaVBiS RIS e Loy .sim e s Environmental Science

Dissertation: ~ The Cumulative effect of Wetland Degradation on Water Qaulity at a Landscape Scale

Supervisors: Professor FB Ahmed, Dr DC Kotze and Dr HL Malan

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Joubert, Rebecca Tamsin, BSc, BSCHONSc.ccccevvveieieicieiinnennnnns Environmental Science

Dissertation: ~ The Origin and Dynamics of Wakkerstroom Vlei, Mpumalanga Province, South Africa

Supervisors: Dr MS Proches and Professor WN Ellery

Kabeya, Mpinda, BScHons(Higher Institute of Pedagogy, Drc)C..... Physics

Dissertation: Experimental Realization of Quantum Key Distribution

Supervisors: Professor F Petruccione and Dr M Moodley

KochYAimee @athenin ey B GBS G0 1S U Biology

Dissertation: ~ Pursuing Imazapyr Herbicide Tolerance in Sugarcane: Screening Natural Populations and Plants Produced in vitro through Somaclonal Variation and Mutagenesis

Supervisors: Professor MPMD Watt, Dr SJ Snyman and Dr SR Ramgareeb

Koen, Etienne Johannes, BSc(Stell), BScHons(CapeTown)C...ccocvvcvvenn... Physics

Dissertation: Ionospheric Signatures of Solar Flares

Supervisor: Dr AB Collier

IWaasSYANCINBS GBS e H oS (RO) SRR Biology

Dissertation: ~ Biomarkers of Oxidative Stress in Cultured South African Abalone (Haliotis midae)

Supervisor: Dr A Vosloo and Dr D Vosloo

Loufouma Makala, Narcisse Roland, BSc(Marien Ngouabi University), PGDip (CapeTown) ...
..... Mathematics

Dissertation: ~ Michael's Selection Theorem and its Applications

Supervisor: Professor VG Gutev

Mâ\200\231pika Massoukou, Rodrigue Yves, BSc(Marien Ngouabi University), PGDip(MathSci)(UWC)
..... Applied Mathematics

Dissertation: Dynamical Systems Analysis of an Epidemiological Model

Supervisor: Professor KS Govinder

Mackenzie, Natalie Dawn, BSc, BSCHORSooooeoooooo Financial Mathematics

Dissertation: Real Options: Duopoly Dynamics with More than One Source of Randomness

Supervisor: Professor JG Oâ\200\231Hara

ManaisyadrianalRioseNBScHons (Capeloyry s Physics

Dissertation: Security and Entanglement in Differential-Phase-Shift Quantum Key Distribution

Supervisor: Professor F Petruccione

Mkhize, Thembisile Gloria, BSc, BSCHORSoivooooooooeo Financial Mathematics

Dissertation: Stochastic Volatility Effects on Defaultable Bonds

Supervisor: Professor JG Oâ\200\231Hara

VincwabeWZibuvilleSBSeBS cllonst i n St SN s A e s Chemistry

Dissertation: A Comparative Study of Molybdenum and Iron Phosphate-Based Catalysts in n-Hexane Activation

Supervisor: Professor HB Friedrich

* Mokhele, Tholang Alfred, BSc(NUL), BScHonsC.C..... Environmental Science

Dissertation: An Investigation into the Detection of Sugarcane African Stalk Borer (Eldana saccharina Walker (Lepidoptera: Pyralidae)) using Hyperspectral Data

(Spectroradiometry)

Supervisor: Professor FB Ahmed

Mudede, Elmah Zvanyadza, BSc Educ(Bindura University) Environmental Science

Dissertation: Identifying Optimal Locations for Large Scale Jatropha Cultivation for Biodiesel Production in Tanzania's Semi Arid Regions

Supervisor: Dr HK Watson

M ITIDET, SUNERINIEE, /52, SO cocsnmessssossneocsiossssssssooiosssssissatoasamans Environment al Science

Dissertation: ~ Assessment of the Potential of the Xanthophyll Bands for Foliar Chemistry Characterisation: The Case of Eucalyptus grandis

Supervisor: Professor FB Ahmed

VIS U p Uk AN R e Iy B G (111 B L ey Physics

Dissertation: ~ The Association Between ELF and VLF Chorus and Electron Precipitation

Supervisors: Professor ARW Hughes and Dr AB Collier

INaickerKoyashneeBS eBS chl on it s s S e e Microbiology

Dissertation: ~ Microbial and Physio-Chemical Quality of Surface Water Resources in Durban, South Africa

Supervisor: Professor B Pillay and Dr AO Olaniran

SN aidooRWaynel@helliahWBIS BB S el o s e s Computer Science

Dissertation: A Model of an Intelligent Video-Based Security Surveillance System

Supervisor: Professor J Tapamo

Namayanja, Proscovia, BSc Educ(University of Makerere), PGDip(MathSci) (UWC)

..... Applied Mathematics

Dissertation: ~ Long Time Behaviour of Population Models

Supervisors: Professor J Banasiak and Dr R Willie

* Narainpersad, Nicolisha, BSc, BMedSCHORScccccccccoeiiiiiiiiiiiiiiiiiiiice Biochemistry

Dissertation: ~ Cationic Liposome Mediated Targeted Gene Delivery With and Without

Pegylated Accessories

Supervisors: Dr M Singh, Professor I Mackraj and Professor M Ariatti

INdIoyuSGueuethulNIOKOZONB S GBS G 0 7S B Chemistry

Dissertation: ~ The Phytochemistry of Melianthus comosus and Clerodendrum glabrum

Supervisor: Dr NA Koorbanally

NdloyaSINombusolmma Culate B GBS (715 S, Chemistry

Dissertation: ~ Design, Synthesis and Screening of Novel Pentacycloundecane Lactam Derivatives as Potential HIV-1 Protease Inhibitors

Supervisors: Dr T Govender, Professor HG Kruger and Dr P Govender

INiemannÂ¥SophieNBS cH oS (Fal e S SN Biology

Dissertation: ~ Feeding Ecology and Sustainability of Re-introduced Pack of African Wild Dogs in a Relatively Small, Fenced Reserve

Supervisor: Professor RH Slotow

SNlwanyanayRhumlaiDesratialÂ¥BiS GRBIS Gl 0. RS, Biology

Dissertation: ~ Micropropagation of Sugarcane (Saccharum SPP. Hybrids) In Vitro: A Comparison Between Semi-Solid and Liquid RITAÂ® Temporary Immersion Culture Systems with Respect to Plant Production and Genotypic and Phenotypic Fidelity

Supervisors: Professor MPMD Watt and Dr SJ Snyman

Nwaneri, Chika Felicitas, BSc(Imo State University), BScHons
Biology

Dissertation: ~Physico-Chemical Characteristics and Biodegradability of Contents of

Ventilated Improved Pit Latrines (VIPs) in eThekweni Municipality

Supervisors: Dr NH Rodda and Dr KM Foxon

Nzuzi Mbenza, Lucien, BSc(Kinshasa University), PGDip(UWC) Phys
ics

Dissertation: ~ Development and Testing of an Interferometer for the Characterisation of Single Photon Emitters

Supervisor: Professor F Petruccione

* Parbhoo, Chetna, BSc(Witwatersrand), BScHons(Witwatersrand)..... Computer Science

Dissertation: An Ontology Driven Sensor Web Application for Detecting and Classifying Informal Settlements

Supervisor: Mr D Moodley

BRI aySEvaShun N BIS CRBIS Gl 1S e Financial Mathematics

Dissertation: FFT Based Option Pricing under Mean Reversion, Jumps and Stochastic Volatility

Supervisor: Professor JG Oâ\200\231Hara

Poona, Nitesh Keshavelal, BSc, BSCHORSc.cocoovovvoeeo. Environmental Science

Dissertation: Detection and Mapping of Selected Invasive Alien Plant Species in KwaZulu-Natal, using Medium Resolution Satellite Imagery

Supervisor: Professor FB Ahmed

Premasagar, Varsha, BSc, BSCHONSccc.ooiiiiiiiiiiiiiiiiini s Biology

Dissertation: Optimising Methods for Embryonic Axis Fixation and Micropropagation of Syzygium cordatum Hochst.

Supervisors: Professor P Berjak, Dr JI Kioko and Professor NW Pammenter

* Price, Catherine Susan, BSc, BScHons(Witwatersrand) Computer Science

Dissertation: Specifying a Forest Harvest Scheduling System which Includes Wood Properties

Supervisors: Professor J Tapamo and Miss FC Blakeway
RAMadhinR@ChanloteWBO GBS G L0 1 B S s a2 s Biochemistry

Dissertation: Controlled Expression of the Dominant Flocculation FLO9 and FLO10 Genes in Saccharomyces cerevisia

Supervisors: Dr P Govender, Professor B Pillay and Dr T Govender

RamjithÂ¥ ordachcWBISERBIS /oy s s s S e Statistics

Dissertation: ~ Modelling Survival Data

Supervisor: Professor GB Matthews

SabelaÂ¥AnelcilinnasonKeNBS GBS Gl OIS Biology

Dissertation: ~ The Development of a Root-Specific Promoter for the Transgenic Improvement of Sugarcane and Other Crop Species

Supervisors: Dr DA Watt, Professor JM Lamb and Dr BAM Potier

* Sebata, Edith, BScHons(Midlands State University)cccoveiioiiecnnnn. Chemistry

Dissertation: Alkaloids from South African Amaryllidaceae Species

Supervisors: Dr NA Koorbanally and Dr B Moodley

Semonyo, Malehlohonolo Rebecca, BSc, BSCHONSccccoiiii iiiiiie Physics

Dissertation: An Experimental Study of Diamond and the Nitrogen Vacancy Center as a Source of Single Photons

Supervisors: Dr K Govender and Professor F Petruccione

Singh, Urisha, BSc, BMedSCHONSccocoiiii iiiiiiiiscc Biology

Dissertation: The Health-Related Microbial Quality of Drinking Water from Ground Tanks, Standpipes and Community Tankers at Source and Point-of-Use in e-Thekwini Municipality

Supervisors: Dr NH Rodda, Dr KM Foxon and Dr D Vosloo

Sunzu, Jefta Mvukaye, BSc Educ(University of Dar Es Salaam) Applied Mathematics

Dissertation: Option Prices on South African Bonds under Different Interest Rate Models

Supervisor: Dr K Arunakirinathar

*inmouth; Neili!BSc, BScHons:. .. S5l i oo oo PO W St S Geology
Dissertation: ~ The Mgeni Estuary â\200\224 Post-Inanda Dam Sedimentology and Estuarine
Dynamics
Supervisor: Dr R Uken

Tshibangu, Damien Sha-Tshibey, BSc(Kinshasa University) Chem
istry
Dissertation: ~ Phytochemical and Anti-Drepanocytosis Studies of Cajanus Cajan,

Callistemon Viminalis Var. Revolution Gold, and Syzygium Guineese
Supervisors: Professor FO Shode and Dr NA Koorbanally

* Will, Chantal Louise, BSc, BScHons(GeogEnvMgt) Environmental Sc
ience
Dissertation: State of the Environment (SOE) Reporting in South Africa: What is Missing
for Effective Use in the South African Policy Process
Supervisor: Mrs C Sutherland

Young, Paul Michael, Nat Dip: Engineering(Cape Technikon) G
eology
Dissertation: An Integrated Marine GIS Bathymetric Dataset for KwaZulu-Natal
Supervisor: Dr R Uken

Master of Environmental Management

Barnwell, Liesl Ann, BTech Enviro Health(NATTEK)

Dissertation: Industrial Perspectives on the Implementation of the Air Quality Act (Act
No. 39 of 2004)
Supervisor: Professor RD Diab

Ramajake, Felleng Elsie, BEd(NUL), BSocScHons

Dissertation: ~ Assessment of the Impact (Significance) of Public Participation in
Environmental Decision-making in Environmental Impact Assessment: A
Case of the Sani Pass Road Upgrade Project (Phase I)

Supervisor: Ms F Ahmed

Zwane, Joy Nokusa, BEd(UNISWA), M-Eny Studies(University of New South Wales)

Dissertation: An Analysis of the Vulnerability of Informal Settlements to Urban
Environmental Risks: A case of Mangwaneni in Swaziland

Supervisor: Mrs C Sutherland

Master of Marine and Coastal Management

Deale, Maria, BSc(PUCHO)

Dissertation: ~ Recovery Dynamics of Zooplankton Following a Mouth-Breaching Event in the Temporarily-Open Mdloti Estuary

Supervisor: Professor R Perissinotto

MassÃ©, Lola MÃ©lody, BSc(Universite De La Reunion)

Dissertation: Sexual Reproduction of Pocillopora damicornis (Cnidaria: Hexacorallia) at High Latitude off Durban, KwaZulu-Natal South Africa

Supervisor: Dr AJ Smit, Professor MH Schleyer and Ms A Kruger

SÃ©rÃ©, Mathieu GÃ©rard Henri, BSc(Universite De La Reunion), BScHons(Universite De La Reunion)

Dissertation: Influence of Heterotrophic Feeding on the Sexual Reproduction of Pocillopora verrucosa (Scleratinian Pocilloporidae) in Aquaria

Supervisors: Professor R Perissinotto, Professor MH Schleyer and Ms A Kruger

Singh, Sarika, BSc, BScHons

Dissertation: ~ The Zooplankton of the St Lucia Estuary During the 2005 Drought Year

Supervisor: Professor R Perissinotto

HONOURS DEGREES

Bachelor of Science Honours

FADelIRR: chard S onnWBSelt s b s i i i At Computer Science
AN AamSBibIVAYeShaNBS crmsrie s s b btras s vimvitbsion i n Bl L LI Statistics
Arumugam, Preyan, BSc Biological Sciences
Bagwandeena@nayB S elmman s sni s nn B RN FITRANNL Microbiology
AR Al COMBDIB Y Ak e O AT (B e e s e Son i i i e T Biochemistry
BB AaSSANEI UM AITANBS GRS o it snmesiind pissirs s A s o e L R R Physics
S U VST, /oI oot o e e et e T Tt T DL SN S Biochemistry
BrijEajRSahil VRIS cINNsssin susncns smsnmsnnn o e, SR AITT Â£ SRR RS0 Physics
@hadwickSNicholastlohnÃ©BSemsmsms imarmmsne i 0 A L NS00 Microbiology
@helopoNV adichabal R0 Ko 2 B e Chemistry
@hetiyAlfeeven RS e conmanmnusssnum i s D U0 Chemistry
GhettyRVeTeshni eHBiS crmmisiemmismiast s s e e ST v Microbiology

Chewparsad, JuanitaiBSc..... tmovmsn s o BE Laknenl Â¥ b et Cell Biology

Chinniah;;Romona, BSei .. i Bt On sl Eie Sty i Microbiology
@hoyyith'ee atis R & D ia ke S 3 S DS Geology
GoopersMichaeliDirke, BSc. om o voisc i ossin - ion ST s R Geology
o (Crichton, Devin Thomas; BSc: ..o s = s i o e HHs e S B S Physics
Cronje, Nicholas James;BSer. .. 5o oo nor oS Pi s st i e Biological Sciences
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The Graduation Ceremony

The graduation ceremony has a long history and is steeped in tradition. It dates back to the establishment of the first universities in Europe in the 12th century.

The Chancellor

Chancellor is an office that goes back to Roman times: the original chancellor or cancellarius (as the office was known), regulated access to the Roman Tribune. In medieval times, the office became associated with the heads of writing departments of the early kings. Because so few people were literate, a chancellor was necessarily learned. This is why the heads and spokespersons of the early universities were also accorded this title. More recently the office has become largely symbolic and the executive head of a university is its Vice-Chancellor. One of the Chancellor's primary roles is to confer degrees at the graduation ceremonies.

Dr Zwelini Mkhize is the second Chancellor of the University of KwaZulu-Natal. His predecessor is Dr Frene Ginwala (2005-2009).

The Mace

The University of KwaZulu-Natal Mace was designed and executed by local sculptor Mr Zamokakhwe Gumede and is carved from an indigenous wood, Drakensberg bottlebrush (umBande), gathered from the artist's home near Bergville.

The head of the Mace is made up of three opened book-like forms, suggestive of scholarship but also of the massive landscape forms of our province, onto each of which is placed a ruler, a pen and a pencil. These refer respectively to the scientific and computational, the text-based and the creative sides to the University's work. Below this are an encircling set of heads, representing the diverse University community. The whole is surmounted by an alighting secretary bird (iNfunonono), an elegant and active bird found throughout the province and equally at home on land or in the air. At the foot of the Mace is a hoof-like shape, giving a sense of contact with the soil of Africa.

The carrying of the mace in procession symbolizes the University's status as a degree awarding institution.

Academic Dress

The wearing of gowns by judges, ministers, teachers and scholars is an ancient and significant custom. By wearing a gown when receiving their degrees and diplomas, the graduating student participates in this long tradition and joins hands with students past and present.

The hood conveys the most amount of information with the addition of braid or coloured linings differentiating the different qualifications. The colour of the band or hood lining represents the Faculty, each of which has its own colour.

Convocation

After being capped by the Chancellor, each graduate moves across the stage and hands the hood to the Robing officer who represents the Convocation of the University. The Robing officer pla

ces the
hood upon the graduate's shoulders and, in so doing, symbolizes acceptance into the
Convocation of
the University of KwaZulu-Natal, the statutory body which links graduates of the University
and
through which graduates have the opportunity to play a continuing role in the affairs of the
University.

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The University Logo

The University Logo is a powerful visual symbol through which the University projects an image of excellence. In addition, it emphasises the University's standing and integrity within the province of KwaZulu-Natal and within the academic and business communities, at home and abroad and provides an identity around which internal stakeholders – staff and students – unite.

The African shield symbolises the protection of our most valuable assets, namely, education, culture and, by extension, African Scholarship. The globe with multi-coloured rays epitomises a rising sun, a new beginning and acts as a symbol of enlightenment.

Further, the globe represents the University as a global player, producing world-class graduates, while the multi-coloured rays embody diversity – race, culture, language – as well as social values. The book/wave/wings, which underscore the visual, represent the foundation of knowledge, the spirit of the eastern seaboard, and soaring to new heights.

The circular format of the Centenary Logo suggests unity and simulates a globe, representing UKZN as a world class university. The entire structure mirrors a coat of arms. Coats of arms are used to identity a community/family. The University is a community and a family within itself.

The University logo represents a University that is rooted in and responsive to Africa's unique qualities, challenges, diversities and strengths, while, at the same time, nurturing and protecting African Scholarship.

Celebrating 100 years of Academic Excellence

The University of KwaZulu-Natal (UKZN) will be celebrating 2010 as the centenary of academic excellence in the province of KwaZulu-Natal.

This marks the rich tapestry of varied history from the University College, Bechet College, Salisbury Island-University College, Medical School, Edgewood College, Pietermaritzburg, Howard College and later the University of Durban-Westville.

In January 1910, the Natal University College in Pietermaritzburg was established with 57 students

and 49 men and 8 women operating from Maritzburg College.

Eight professors formed the staff of the College in 1910: Professors of Classics; Chemistry and

Physics; Botany and Geology; English and Philosophy; Pure and Applied Mathematics; Zoology; Modern Languages and History; and Law. Undergraduates in 1910 paid R3.00 per month for tuition.

UKZN celebrates 100 years of consolidation of academia and we are celebrating a history of mergers,

consolidations, reconfiguration and the present that we now enjoy and a university that stands out as

one of South Africa's prominent universities and is one of three African universities ranked amongst

the top 500 universities in the world.

UKZN Graduation Anthem: IHELE
(written and composed by Phelelani Mnomiya)

Obani labo?

Baphi?

Ngibona beza beyikazela
Bathwelâ\200\235 ongiyane

Bavela kuphi na?

Obani labo?

Onggondongqondo, oSibakhulu
Yibo Laba

Yini na leyo

Ihele, ihele lezingwazi zakithi
Udwendwe lwezingwele zakithi
Nantâ\200\231 ihele loNggondongqondo
Nantâ\200\231 ihele loSibakhulu
Udwendwe lwezingwele zakithi
Dedani bangene; kodwa nathi siyeza
Dedani badlule; nathi siyalandela
Sithi: halala, halala

Halala maghawe esizwe sethu
Unwelâ\200\231 olude, inkonzo enhle
Sithi: halala!

GAUDEAMUS IGITUR

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

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

Vita nostra brevis est, brevi finietur:
Vita nostra brevis est, brevi finietur;
Venit mors velociter, rapit nos atrociter,
Nemini parceret, nemini parceret.

Vivat Academia, vivant Professores,
Vivat Academia, vivant Professores,
Vivat membrum quodlibet,

Vivant membra quaelibet,

Semper sint in flore, semper sint in flore.

NATIONAL ANTHEM

Nkosi sikelelâ\200\235 iAfrika
Maluphakanyiswâ\200\231 uphondo lwayo
Yizwa imithandazo yethu

Nkosi sikelela

Thina lusapholwayo.

Morena boloka
Setjhaba saheso
Ofedise dintwa lematshwenyeho.

O se boloke, O se boloke
Setjhaba saheso

Setjhaba sa, South 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.

