



RHODES UNIVERSITY

2012

GRADUATION CEREMONY

1820 SETTLERS NATIONAL MONUMENT

THURSDAY, 12 APRIL AT 18:00

CHANCELLOR

G.J. Gerwel, B.A.(Hons), D.Litt. et Phil., LL.D. (Honoris causa)

VICE-CHANCELLOR

S.Badat, B.Soc.Sc.(Hons), Cert.H.E.Sc.&Tech.Policy, Ph.D., D.Phil. (Honoris causa)

DEPUTY VICE-CHANCELLOR (ACADEMIC & STUDENT AFFAIRS)

S.G. Mabizela, M.Sc., Ph.D.

DEPUTY VICE-CHANCELLOR (RESEARCH & DEVELOPMENT)

P.G. Clayton, Ph.D., F.I.C.S., M.C.S.S.A., M.A.C.M.

CHAIRPERSON OF COUNCIL

The Hon. Mr Justice R.J.W. Jones, B.A., LL.B.

PRESIDENT OF CONVOCATION

The Rev. T.S.N. Gqubule, Ph.D., D.D. (Honoris causa)

DEANS

Professor F.T. Hendricks, B.A., M.Soc.Sc., Ph.D.

Dean of the Faculty of Humanities

Professor R.T.F. Bernard, Ph.D.

Dean of the Faculty of Science

Professor J. Campbell, B.A., LL.B., LL.M.

Dean of the Faculty of Law

P.D. Wilmot, B.A., H.D.E., M.Ed., Ph.D.

Dean of the Faculty of Education

Professor D.A. Sewry, MSc., Ph.D., FICSIT, MCSSA.,

MACM., MAIS.

Dean of the Faculty of Commerce

Professor R.B. Walker B.Pharm., Ph.D., M.P.S.

Dean of the Faculty of Pharmacy

Professor C.M. Boughey, M.A., M.A., P.G.C.E., D.Phil.

Dean of Teaching and Learning

V.A. de Klerk, M.A., H.E.D., Ph.D.

Dean of Students

REGISTRAR

S. Fourie, B.Th., B.D., D.Th.

VIS VIRTUS VERITAS

Quae paris cives animo vigentes

Africae praebens rationis artes

Alma te mater canimus libenter

Nos Rhodienses.

You who produce citizens of vigorous intellect, as you offer to Africa the arts and skills which come from reason - we who are Rhodians gladly hymn you, our Alma Mater.

Veritas semper pretiosa nobis

Praesit et pellat procul omne furtum

Neu sinat quemquam male consulentem

Discere falsa.

May truth be always precious and preside over us and may it drive far away all deceit, nor may it allow anyone with evil intent to learn what is false.

Quicquid est foedum cohibere, quicquid

Integrae vitae proprium tueri

Gaudeat virtus studiosa pacis

Visque benigna.

May virtue and courage, eager for peace, together with well disposed strength, rejoice to restrain whatever is disgusting and to uphold whatever belongs to the fullness of life.

Purpura cincti et memores parentum

Cuique nitamur dare iustum honorem

Neminique umquam licet invidentes

Astra petamus.

Clad with purple and remembering our parents, let us strive to render to everyone with honour which is due and without envying anyone let us aim for the stars.

ORDER OF PROCEEDINGS

The Congregation is requested to stand while the Choir sings Vis Virtus Veritas and the Procession enters the Auditorium.

The Chancellor will constitute the Congregation.

The Vice-Chancellor will address the Congregation.

The Public Orator, Professor Paul R Maylam, will present:
Professor Michael Noel Bruton for the Degree of Doctor of Science,
Honoris Causa.

Professor Mike Bruton will address the Congregation.

The Dean of the Faculty will present the candidates for the award of the Degrees of Bachelor, Bachelor with Honours, Master and Doctor.

The Deputy Vice-Chancellor (Research and Development) will present Professor Martin Herrero Villet for the Vice-Chancellor's Distinguished Senior Research Medal.

The Deputy Vice-Chancellor (Research and Development) will present Professor Christopher David McQuaid for the conferment of the title "*Distinguished Professor*".

The Deputy Vice-Chancellor (Research and Development) will present Professor Tebello Nyokong (OMB) for the conferment of the title "*Distinguished Professor*".

The congregation will stand and sing the National Anthem.

The Chancellor will dissolve the Congregation.

The Congregation is requested to stand while the Choir sings Gaudeamus Igitur and the Procession leaves the Auditorium.

With the exception of the commencement and conclusion of the Ceremony and the singing of the National Anthem, members of the Congregation are requested to remain seated throughout the proceedings.

FACULTY OF SCIENCE

DEGREE OF BACHELOR OF SCIENCE

ABOU EL-YAZID, Omar
AFRICA, Lance Lenin
AH YUI, Darryn Keegan
ANDERSEN, Michael P, **with distinctions in Computer Science and Physics**
ARUNACHELLAN, Yogendran, **with distinction in Chemistry**
BALOYI, Gradwell
BARRY, Farah Kerry Cassandra, **with distinctions in Environmental Science and Microbiology**
BARTLETT, Catherine Eve
BASSEY-DUKE, Elizabeth Missan
BASSON, Travis
BECKLEY, Samantha Joy
BEZUIDENHOUT, Jade Megan
BLORE, Megan Leigh, **with distinctions in Economics and Environmental Science**
BRASSINE, Gwendoline
BRITTIAN, Gregory Laird
BUNGANE, Nobenati
CHADZINGWA, Karabo Lizzie
CHINYAMAKOBVU, Mutsa Carole
CLARK, Matthew Edward, **with distinction in Psychology**
CURRIE, Sarah Alexander, **with distinctions in Computer Science and Information Systems**
DANCKWERTS, Daniel Keith
DARRELL, Oliver Terence
DE LACY, Peter James Gerard
DEAN, Jonathan Edmund Matthew, **with distinctions in Biochemistry and Microbiology**
DLANJWA, Thumeka Vuyelwa
DU PLESSIS, Dane Paul
DWIGHT, Rosemary Anne
FELDMANN, Wesley Karl, **with distinction in Chemistry**

FULLER, Michael Ross
FUNCKE, Matthew
GAEGANENWE, Keaotshepa Mercy
GALLAGHER, Sean
GODI, Khanani Theodora
GORNALL, Christopher Mark, **with distinctions in Botany and Ichthyology**
HALKETT, Natasha Jade Goetsch
HALSE, Sarah Jane
HANKIN, Donovan Michael
HARRIS, Danny Craig
HAYNES, Candice
HAYWOOD, Simone Ulivia
HERBERT, Alan, **with distinction in Computer Science**
HIGGITT, Roxanne Leigh
HONDOMAH, Emmanuel Tinashe
JANUARY, Sinethemba
JOHNSON, Victoria Jane
JOOS-VANDEWALLE, Julia
JOOSTE, Jessica Rosemary
JUKES, Michael David
KHAN, Naeem
KLEYN, Philippa May
KNOTT, Gabrielle Rose
KOGEL, Michelle Anne
KUSE, Mzukisi
LARKAN, Wesley Allan
LAURENCE, Jo-Anne Elizabeth, **with distinctions in Biochemistry and Chemistry and Microbiology**
LE ROUX, Jethro Aidan
LESORO, Maleke Nkukuleko
LEWIS, Ashley Varian
LODENKEMPER, Alex
LOVE, Claire Natalie, **with distinction in Entomology**
LUNDERSTEDT, Kyra Elizabeth
MABUZA, Nandipha Mbali Mbaliyakhe

MADIKANE, Sivuyile, **with distinctions in** Mathematical Statistics
and Mathematics
MAMPANE, Kedumetse Ruth
MAMPURU, Tsebo Mokgohlwe Pheladi
MANAGA, Muthumuni Elizabeth
MANCOBA, Lihle
MATEBESE, Nwabisa
MAYO, Melissa Leigh
MBAULE, Lonwabo
MCDOUGALL, Justin John
MEI, Busiswa Zimasa
MGOLOZELI, Kwanele
MGWEBA, Thina, **with distinction in** Economics
MILLAR, Belinda Jane
MKHIZE, Nhlakanipho Colin, **with distinction in** Chemistry
MKUNJULWA, Ntando Emmanuel
MODIPA, Rebone Dineo
MOHALE, Mamello
MOLEKO, Pulleng
MOORE, Nicolle Maureen, **with distinction in** Microbiology
MOSES, Vuyani
MOTHA, Charity Margaret
MOYO, Thandeka, **with distinctions in** Biochemistry and
Microbiology
MPANDO, Talitha Louisa
MPITI, Unako Bongani
MPONDO, Siviwe
MSAYI, Anele
MSHOPERI, Edith Kudzai
MTINTSILANA, Asanda
MUNRO, Samantha Alanna, **with distinction in** Environmental
Science
MURISON, Megan Kate
MWANGOLA, Dora Mkabili
NAMA, Nkosinathi
NDITA, Kholosa
NDLOVU, Thandeka Amanda

NGQIYAZA, Nozuko Princess
NJENGELE, Zikhona
NKONKI, Apelele
NOKALIPA, Iviwe Cwaita, **with distinction in** Chemistry
NQWENA, Zingisa Zine
NUNN, Thomas Philip
OATES, Sean Benjamin
OLIVER, Brittany Lee, **with distinction in** Ichthyology
PAGE, Samantha Karin
PALMER, Tristan Jamie
PARSONS, Michelle Jennifer
PATRICK, Michael David
PERKS, Tamarin
PETRE, Shannon
PHILIPS, Jane Erica
PIETERSE, Rebecca Lora
POSWA, Singathwa
POTGIETER, Qiniso
PRETORIUS, Abraham Izak
PROCTOR, Briony
QUICK, Erin, **with distinction in** Mathematics
RABITTE, Sean Kieran
RAFUZA, Sipesihle
REICHHARDT, Charlotte Vivian
RETIEF, Daniel Christoffel Hugo
REYNELL, Alexander Stuart, **with distinction in** Mathematics
RIDDIN, Megan Amy, **with distinction in** Human Kinetics &
Ergonomics
RIDGARD, Joy Lyn
RIDGEWAY, Jaryd Antony
ROSS, Luke Allan, **with distinctions in** Computer Science and
Mathematical Statistics
ROSS, Natalie Ann, **with distinction in** Human Kinetics &
Ergonomics
ROYI, Marcia Dunyiswa
SCOTT, David Alan
SEWRY, Nicola Ann

SHACKLETON, Ross Taylor, **with distinction in** Environmental Science
 SHOLTO-DOUGLAS, Craig Chisholm
 SIMMONS, Aron
 SINXI, Monde, **with distinction in** Chemistry
 SITUNGU, Sivuyisiwe
 SIYO, Helen Ntombexolo
 SPRINGER, Julian John
 STEEL, Lance Graig Graham
 STROEBEL, Kelly Faye, **with distinction in** Environmental Science
 SULEMAN, Samira Idris
 SWANEPOEL, Danika
 SWANEPOEL, Sean
 TAMBO, Tatenda Kunyangarika
 THERON, Nicholas Anthony
 THORESEN, Mariska
 THORPE, Kerri Lynn
 TRENOR, Siobhan Lindsay
 TSHANGANA, Sesethu Charmaine
 VAN DE VYVER, Daniel Barry
 VAN HEERDEN, Grattan Michael
 WALKER, James Ralph
 WATERWORTH, Samantha Che, **with distinctions in** Biochemistry and Microbiology
 WENTWORTH, Laura Claire, **with distinction in** Computer Science
 WILD, David Jonathan
 WU, Yu
 XEGO, Solami
 ZARANYIKA, Zororo Emmanuel, **with distinction in** Information Systems
 ZONDI, Landiwe Thandeka, **with distinction in** Environmental Science
 ZUNGU, Funeka Barbara

DEGREE OF BACHELOR OF SCIENCE (INFORMATION SYSTEMS)

BARNETT, Miles John
 BROWN, David Kyle, **with distinction in** Information Systems
 HEDGES, Mitchell Lawrence
 HUTCHINSON, Stephen
 NZOTHU, Nkosing'Phile Lethukuthula
 POORTER, Corbin Blake
 SMITH, Devlin Robert

DEGREE OF BACHELOR OF SCIENCE WITH HONOURS

ADAMS, Claire Elizabeth, in Botany/Microbiology
 ARMSTRONG, Sarah Louise, in Human Kinetics & Ergonomics
 AYRES, Devin William Philip, in Ichthyology & Fisheries Science, **with distinction**
 BARRETT, Dennis Ian, in Mathematics, **with distinction**
 BEALEY, Roy Steven John, in Ichthyology & Fisheries Science, **with distinction**
 BENNETT, Stephen Gregory, in Environmental Science, **with distinction**
 BESTER, Hertzog Landman, in Applied Mathematics/Physics, **with distinction**
 BEZUIDENHOUT, Samantha Catherine, in Human Kinetics & Ergonomics
 BISHOP, Amy Ruth, in Marine Biology
 BISHOP, Brett Douglas Johnson, in Information Systems, **with distinction**
 BONSTEIN, Oliver Marcus, in Environmental Science
 BOOI, Vuyokazi Judy, in Information Systems
 BOUWER, Nicolette, in Zoology
 BRIDGES, Cai Caerwyn, in Physics
 BROWN, Tarryn Woodcroft, in Psychology, **with distinction**
 BRYSON, Louise Kay, in Environmental Science
 CALDERWOOD, Simon Mathew, in Ichthyology & Fisheries Science

CHARTIER FITZGERALD, Veronique, in Microbiology
 CHIRAMBO, Zyangani, in Ichthyology & Fisheries Science
 CLAASEN, Meagan, in Human Kinetics & Ergonomics
 CLITHEROE, Crystal-Leigh, in Zoology
 COCHRANE, Sarah Ann, in Human Kinetics & Ergonomics
 COLLETT, Isabel Judith, in Zoology
 CONNOR, Ashleigh Louise, in Biodiversity & Conservation
 CONTU, Lara, in Microbiology, **with distinction**
 CROSBIE, Alice Catherine, in Human Kinetics & Ergonomics
 CRYMBLE, Tegan, in Human Kinetics & Ergonomics
 DANIELS, Ryan Joseph, in Botany/Zoology, **with distinction**
 DAVIS, Iain Cameron, in Information Systems, **with distinction**
 DE BEER, Chenelle Lesley, in Ichthyology & Fisheries Science, **with distinction**
 DICKS, Lynton Dudley, in Computer Science
 DIKOMA, Agisanang Confidence, in Chemistry, **with distinction**
 DU PLESSIS, Cole Michel, in Environmental Water Management
 ELLIOTT, Andrea, in Human Kinetics & Ergonomics
 FELDMANN, Daneil Caroline, in Human Kinetics & Ergonomics
 FREER, Patrick David Leacroft, in Computer Science/Electronics, **with distinction**
 FUFU, Lelona Thembakazi, in Mathematical Statistics/Mathematics
 GARDINER, Matthew Joseph, in Environmental Science, **with distinction**
 GEDI, Simbisai Josephine, in Biochemistry
 GOWING, Trevor Charles, in Information Systems
 GREEN, Adam Leslie, in Environmental Science
 HAW, Shane David Murray, in Computer Science
 HILL, Kyle Baridon, in Information Systems
 HO, Lance St John, in Biotechnology, **with distinction**
 HONYE, Sylvester, in Computer Science
 HOPLEY, Brigitta, in Human Kinetics & Ergonomics, **with distinction**
 HUNTER, Morgan Campbell, in Biotechnology, **with distinction**
 HUYSAMEN, Kirsten Christina, in Human Kinetics & Ergonomics
 JANKS, Matthew Richard, in Biodiversity & Conservation, **with distinction**

JUNKUHN, Kyle Peter, in Environmental Science
 KADYE, Rose, in Biotechnology
 KANIME, Tulinayo Tuyoleni Etuna, in Geology, **with distinction**
 KLOPPER, Chrisna, in Botany
 KRAMER, Adam Hildyard, in Biotechnology, **with distinction**
 LAMING, Dustin, in Biotechnology
 LEDWABA, Mpho Violet, in Chemistry
 LEE, Lauren Cornelia, in Human Kinetics & Ergonomics
 LIESCHING, Nicole Jane, in Microbiology
 LIU, Mingyu, in Chemistry, **with distinction**
 LONTSI SOB, Aaron Joël, in Physics, **with distinction**
 MADLALA, Phila Lona, in Biotechnology
 MADUNA, Bongani Cyprian, in Human Kinetics & Ergonomics
 MAEDZA, Rothe Hopeton, in Economics
 MANYERUKE, Meloddy Hlatini, in Chemistry, **with distinction**
 MAZULE, Zuko Michael, in Human Kinetics & Ergonomics
 MCQUAID, Kirsty Alexandra, in Marine Biology, **with distinction**
 MIDZI, Linda Zvikomborero, in Chemistry
 MOHAPI, Neo, in Mathematical Statistics/Mathematics
 MOKOENA, Mpho Charmaine, in Chemistry, **with distinction**
 MOORES-PITT, Peter Brian Denton, in Economics
 MTAMBANENGWE, Kudzai Tapiwanashe Esau, in Biotechnology
 MULLER, Matthew Justin, in Environmental Water Management
 MUTELE, Litshedzani, in Geology
 NDJALO, Lahja Omagano Nangulohi, in Geology
 NEEF, Gotz Georg, in Biodiversity & Conservation
 NEL, Conrad Dutoit, in Human Kinetics & Ergonomics
 NGEMA, Thembelihle Sibusisiwe, in Information Systems, **with distinction**
 NGOMANE, Nokuthula, in Chemistry/Mathematics
 NILAND, Daniel Peter, in Entomology
 NONTYI, Simphiwe Mark, in Mathematical Statistics/Mathematics
 NTSALUBA, Bantubonke Izwe, in Geology
 O'DONOGHUE, Alexandra Elizabeth, in Environmental Science/Geography
 OWEN, Candice Ann, in Entomology/Zoology
 PARKER, Rhiannon Jennifer, in Human Kinetics & Ergonomics

PILKINGTON, David Jon, in Computer Science
 POOL, John Robert Francis, in Biodiversity & Conservation, **with distinction**
 POWER, Sean Duncan, in Environmental Water Management
 QAMBELA, Akhona Precious, in Chemistry
 RAINES, Mark Douglas, in Geology
 REX, Christopher John, in Information Systems
 REYNELL, Edward Robin, in Computer Science/Information Systems
 ROBINSON, Craig Gavin, in Entomology
 RYAN, Candice Nancy, in Biochemistry
 SACRANIE, Sattar Abdul, in Botany
 SEKGOTA, Khethobole Cassius, in Chemistry
 SHIPOKE, Kerthu Koushilo, in Ichthyology & Fisheries Science
 SIGAUKE, Lester Takunda, in Chemistry
 SINGH, Alicia, in Chemistry, **with distinction**
 SITHOLE, Aron Linda, in Geology
 SIWUNDLA, Sanelisiwe Samantha, in Environmental Science
 SNOOK, Jennifer Clare, in Microbiology, **with distinction**
 SOFUTE, Abonga, in Chemistry/Mathematics
 STACK, Lee Christopher, in Information Systems, **with distinction**
 SUTTON-PRYCE, Adam Steven Edward, in Environmental Science
 SWAINE, Michael, in Environmental Water Management
 SWART, Shanna, in Biochemistry, **with distinction**
 TAYLOR, Chantal Lee, in Botany, **with distinction**
 TAYLOR, Jessica Mary, in Chemistry, **with distinction**
 THORNE, Cara-Jayne, in Botany
 THORNE, Jean-Paul, in Information Systems, **with distinction**
 TRISTRAM, Uvedale Roy, in Computer Science, **with distinction**
 TWAGIRAYEZU, Herbert, in Mathematics
 TYALANA, Khokela Lulama, in Biotechnology
 VAN DER WALT, Kerry-Ann, in Ichthyology & Fisheries Science
 VAN NIEROP, Abbigale Anne, in Environmental Water Management
 VILJOEN, Gregory Richard, in Geology
 WEGENER, James Alan, in Environmental Science

WERNECKE, Bianca, in Biodiversity & Conservation, **with distinction**
 WESTON, Laura Frances, in Marine Biology
 WILLIAMS, Brittany Jade, in Microbiology
 WOLMARANS, Milena Helena Louise, in African Vertebrate Biodiversity
 ZAKARIA, Shamim, in Economics, **with distinction**
 ZENGENI, Patrick Muchabaisa, in Information Systems, **with distinction**

DEGREE OF MASTER OF SCIENCE

AMABAYO, Emirant Bertillas, B.Sc. (Hons) (UCT), in Physics, **with distinction**, in the Department of Physics and Electronics. Degree by coursework and thesis. Thesis: Multi-instrument observations of ionospheric irregularities over South Africa.

ATHIENO, Racheal, B.Sc. (Hons) (UCT), in Physics, in the Department of Physics and Electronics. Degree by coursework and thesis. Thesis: Using co-located radars to analyse ionospheric events over South Africa.

BIGGS, Rory, B.Sc. (Hons) (Rhodes), in Mathematics, **with distinction**, in the Department of Mathematics. Degree by thesis. Thesis: A study of four dimensional oscillator groups and the associated left invariant control affine systems.

BIZABANI, Christine, B.Sc. (Hons) (Rhodes), in Microbiology, in the Department of Biochemistry, Microbiology and Biotechnology. Degree by thesis. Thesis: Ericoid mycorrhizal fungi and potential for inoculation of commercial berry species (*Vaccinium corymbosum* L.)

BOBBINS, Kerry Leigh, B.Sc. (Hons) (Rhodes), in Geography, in the Department of Geography. Degree by thesis. Thesis: Developing a form process framework to describe the functioning of semi-arid alluvial fans in the Baviaanskloof Valley, South Africa.

BOKHUTLO, Thethela, B.Sc., PG.Dip.Ed. (Botswana), in Ichthyology, in the Department of Ichthyology and Fisheries Science. Degree by thesis. Thesis: Life history and stock assessment of *Clarias gariepinus* in the Okavango Delta, Botswana.

BOOTH, Jenny Marie, B.Sc. (Hons) (Rhodes), in Marine Biology, in the Department of Zoology and Entomology. Degree by thesis. Thesis: Trophic ecology of breeding northern rockhopper penguins, *Eudyptes moseleyi*, at Tristan Da Cunha, south Atlantic ocean.

BRASSINE, Mathilde Chloe, B.Sc. (Hons) (Rhodes), in Zoology, in the Department of Zoology and Entomology. Degree by thesis. Thesis: The diet and ecological role of black-backed jackals, *Canis mesomelas*, in two conservation areas in the Eastern Cape Province, South Africa.

BURFORD, Eva-Maria, B.Sc. (Hons) (Rhodes), in Ergonomics, in the Department of Human Kinetics and Ergonomics. Degree by thesis. Thesis: The analysis of the strain level and the predicted human error probability for critical hospital tasks.

CANNON, Michael-John, B.Sc. (Hons) (Rhodes), in Human Kinetics and Ergonomics, in the Department of Human Kinetics and Ergonomics. Degree by thesis. Thesis: The impact of clothing and protective gear on biophysical, physiological, perceptual and performance responses of rugby players during a simulated rugby protocol.

CHARLTON, Jane Laura, B.Sc. (Hons) (Rhodes), in Microbiology, **with distinction**, in the Department of Biochemistry, Microbiology and Biotechnology. Degree by thesis. Thesis: Structure-function studies on the yeast factor, eIFSA.

CILLIERS, Anneke, B.Sc. (Stellenbosch), in Fisheries Science, in the Department of Ichthyology and Fisheries Science. Degree by thesis. Thesis: The treatment of brewery effluent using an integrated high rate algal ponding system.

CURRAN, Patrick, B.Com. (Hons) (Rhodes), in Environmental Science, in the Department of Environmental Science. Degree by thesis. Thesis: Research and development of a preliminary South African voluntary carbon standard for landscape restoration projects.

DE GRAY BIRCH, Casey, B.Sc. (Hons) (Rhodes), in Ergonomics, **with distinction**, in the Department of Human Kinetics and Ergonomics. Degree by thesis. Thesis: The effects of sustained attention, workloads and task-related fatigue on physiological measures and performance during a tracking task.

DHANANI, Karim Colin Hassan, B.Sc. (Hons) (Rhodes), in Biotechnology, in the Department of Biochemistry, Microbiology and Biotechnology. Degree by thesis. Thesis: Biotechnology from bench to market: The design scale up and commercialisation strategy development of a disruptive bioprocess for potable ethanol production.

FILMALTER, John David, B.Sc. (Hons) (Rhodes), in Fisheries Science, **with distinction**, in the Department of Ichthyology and Fisheries Science. Degree by thesis. Thesis: Movements of sub-adult sicklefin lemon sharks *Negaprion acutidens* in a remote Indian Ocean atoll.

FORBES, Ross William, B.Sc. (Hons) (Rhodes), in Zoology, in the Department of Zoology and Entomology. Degree by thesis. Thesis: The diet of black-backed jackal (*Canis mesomelas*) on two contrasting land use types in the Eastern Cape Province, South Africa and the validation of a new analytical method of mammalian hair identification.

FORDHAM, Colin Justin, B.Sc. (Hons) (NMMU), in Entomology, in the Department of Zoology and Entomology. Degree by thesis. Thesis: A spatial and temporal analysis of the changes in alien macrophyte communities and a baseline assessment of the macroinvertebrates associated with Eurasian water-milfoil, *Myriophyllum spicatum* L. (Haloragaceae) in the Vaal River.

FORTEATH, Shaun, B.Sc. (Hons) (Rhodes), in Chemistry, **with distinction**, in the Department of Chemistry. Degree by thesis. Thesis: Photophysicochemical studies of phenylthio Phthalocyanines: Interaction with gold nanoparticles and applications in dye sensitised solar cells and optical limiting.

FOUODJI TASSE, Ghislain, B.Sc. (Hons) (Rhodes), in Computer Science, **with distinction**, in the Department of Computer Science. Degree by thesis. Thesis: μ Cloud: A P2P platform for computing service provision.

GAVAZA, Takayedzwa, B.Sc. (Hons) (Rhodes), in Computer Science, in the Department of Computer Science. Degree by thesis. Thesis: Culturally relevant augmented user interfaces for illiterate and semi-literate users.

GOSLING, Amanda Karen, B.Sc. (Hons) (Rhodes), in Environmental Science, in the Department of Environmental Science. Degree by thesis. Thesis: A case study of Bigodi wetland sanctuary as a community driven, community based natural resource management initiative: maintaining livelihoods and wetland health.

GRANT, Tanith-Leigh, B.Soc.Sc. (Hons) (Rhodes), in Zoology, in the Department of Zoology and Entomology. Degree by thesis. Thesis: Leopard population density, home range size and movement patterns in a mixed landuse area of the Mangwe district of Zimbabwe.

HATHERLEY, Rowan Andrew, B.Sc. (Hons) (Rhodes), in Bioinformatics, in the Department of Biochemistry, Microbiology and Biotechnology. Degree by coursework and thesis. Thesis: *In Silico* characterisation of the four canonical *Plasmodium falciparum* 70 kDa heat shock proteins.

HENNINGER, Helen Clare, B.Sc. (Hons) (Rhodes), in Mathematics, **with distinction**, in the Department of Mathematics. Degree by thesis. Thesis: The symmetry group of a model of hyperbolic plane geometry and some associated invariant optimal control problems.

HENNINGER, Katharine Rose, B.Sc. (Hons) (Rhodes), in Physics, **with distinction**, in the Department of Physics and Electronics. Degree by thesis. Thesis: In-beam gamma-ray spectroscopy of ^{72}Ge .

KASOKA, Placide Mutombo, B.Sc. (Hons) (DRC), Exploration Geology, in the Department of Geology. Degree by coursework and thesis. Thesis: Geology and mineralization of the Lonshi Deposit: An example of sedimentary stratiform copper deposits in the Nguba Group.

KISAKYE, Alex, B.Sc. (Uganda Christian University), in Computer Science, in the Department of Computer Science. Degree by coursework and thesis. Thesis: An investigation into information security practices implemented by Research and Educational Network of Uganda (RENU) member institutions.

KOK, Armand Du Preez, B.Sc. (Hons) (Rhodes), in Zoology, in the Department of Zoology and Entomology. Degree by thesis. Thesis: Small mammal communities at high altitude within the Sneeuberg mountain complex, Eastern Cape Province, South Africa.

LUYT, Leslie Michael, B.Sc. (Hons) (Rhodes), in Computer Science, **with distinction**, in the Department of Computer Science. Degree by thesis. Thesis: Automated grid fault detection and repair.

MAMBO, Mutsa Prudence, B.Sc. (Hons) (Rhodes), in Environmental Biotechnology, in the Institute for Environmental Biotechnology at Rhodes University. Degree by thesis. Thesis: Towards a sustainable bioprocess for the remediation of acid mine drainage.

MAPHUMULO, Philile Nompumelelo, B.Sc. (Hons) (Zululand), in Biochemistry, in the Department of Biochemistry, Microbiology and Biotechnology. Degree by thesis. Thesis: Characterisation of a *Plasmodium falciparum* type II Hsp40 chaperone exported to the cytol of infected erythrocytes.

MATHIBA, Kgama, B.Sc. (Hons) (Zululand), in Biochemistry, in the Department of Biochemistry, Microbiology and Biotechnology. Degree by thesis. Thesis: High pressure liquid chromatographic quantification of nitrile biocatalysis.

MATHU, Alexander Muchugia Ng'anga, B.Pharm. (Nairobi), in Bioinformatics, in the Department of Biochemistry, Microbiology and Biotechnology. Degree by coursework and thesis. Thesis: Structural analysis of effects of mutations on HIV-1 subtype C Protease active site.

McCAFFERTY, James Ross, B.Sc. (Hons) (Rhodes), in Ichthyology, in the Department of Ichthyology and Fisheries Science. Degree by thesis. Thesis: An assessment of inland fisheries in South Africa using fisheries-dependent and fisheries-independent data sources.

MENDES, Adriano, B.Sc. (Hons) (Rhodes), in Microbiology, in the Department of Biochemistry, Microbiology and Biotechnology. Degree by thesis. Thesis: A baculovirus-mediated expression system for the analysis of HaSV RNA packaging.

MEYER, Annalene, B.Sc. (Hons) (Rhodes), in Chemistry, in the Department of Chemistry. Degree by thesis. Thesis: The synthesis of α -alkoxy and α -aminostannanes as precursors to novel chromium Fischer carbenes.

MOKOENA, Fortunate, B.Sc. (Limpopo), in Biochemistry, in the Department of Biochemistry, Microbiology and Biotechnology. Degree by thesis. Thesis: Malarial drug targets: Cysteine proteases as hemoglobinsases.

MUSVIBE, Ray Strong, B.Sc. (Hons) (Rhodes), in Computer Science, in the Department of Computer Science. Degree by thesis. Thesis: COIN: A customisable, incentive driven video on demand framework for low cost IPTV services.

MUTENGWA, Tafadzwa Isaac, B.Sc. (Hons) (Rhodes), in Mathematical Statistics, in the Department of Statistics. Degree by coursework and thesis. Thesis: An analysis of the Libor and Swap market models for pricing interest rate derivatives.

MWILA, Katayi, B.Sc. (Hons) (Rhodes), in Biochemistry, in the Department of Biochemistry, Microbiology and Biotechnology. Degree by thesis. Thesis: Rapid enzymatic detection of organophosphorus and carbamate pesticides in water.

NAYLOR, Matthew Aubrey, B.Sc. (Hons) (Rhodes), in Ichthyology, in the Department of Ichthyology and Fisheries Science. Degree by thesis. Thesis: Water quality dynamics in an experimental serial-use raceway and its effects on growth of South African abalone, *Haliotis midae*.

NCUBE, Sinini Paul, B.Sc. (Hons) (Rhodes), in Computer Science, in the Department of Computer Science. Degree by thesis. Thesis: Web-based visualisation techniques for reporting zoonotic outbreaks.

NEWCOMBE, Hylton Cecil, B.Sc. (Hons) (Rhodes), in Fisheries Science, in the Department of Ichthyology and Fisheries Science. Degree by thesis. Thesis: Contribution towards the development of a management plan for the baitboat and sport fishery for tuna in South Africa.

NJUGUNA, Joyce Njoki, B.Sc. (Nairobi), in Bioinformatics, in the Department of Biochemistry, Microbiology and Biotechnology. Degree by coursework and thesis. Thesis: Structural analysis of prodomain inhibition of cysteine proteases in *Plasmodium* species.

NOTTINGHAM, Alastair Timothy, B.Sc. (Hons) (Rhodes), in Computer Science, **with distinction**, in the Department of Computer Science. Degree by thesis. Thesis: GPF: A framework for general packet classification on GPU co-processors.

OLDS, Alexis Amy, B.Sc. (Hons) (Rhodes), in Ichthyology, in the Department of Ichthyology and Fisheries. Degree by thesis. Thesis: The ichthyofauna of the Wilderness Lakes System, Western Cape, with particular emphasis on alien fish species and their establishment success.

PARKER, Denham, B.Sc. (Hons) (Rhodes), in Fisheries Science, in the Department of Ichthyology and Fisheries Science. Degree by thesis. Thesis: The life history and fishery assessment of largespot pompano, *Trachinotus botla*, in northern KwaZulu-Natal, South Africa.

PINDURA, Mitchell Kingsley Chido, B.Pharm. (Rhodes), in Biochemistry, in the Department of Biochemistry, Microbiology and Biotechnology. Degree by thesis. Thesis: The synthesis of fructooligosaccharides by the β -fructofuranosidase FopAp from *Aspergillus niger*.

PLASS-JOHNSON, Jeremiah, B.Sc. (Hons) (Rhodes), in Marine Biology, in the Department of Zoology and Entomology. Degree by thesis. Thesis: The trophic ecology of parrotfish of Zanzibar: applications of stable isotope analysis.

ROBERTSON, Jade Kelly, B.Sc (Hons) (Rhodes), in Human Kinetics and Ergonomics, **with distinction**, in the Department of Human Kinetics and Ergonomics. Degree by thesis. Thesis: Peripheral vision field fatigue during simulated driving: The effects of time on task and time of day on selected psychophysiological, performance and subjective responses.

ROSSETTI, Nani Adami, B.Sc. (Federal do Rio Grande do Norte), in Fisheries Science, in the Department of Ichthyology and Fisheries Science. Degree by thesis. Thesis: The effect of dietary fish oil replacement with soybean oil on growth and health of dusky kob *Argyrosomus japonicus* (Pisces: Sciaenidae).

SHEPPARD, Bronwyn Jane, B.Sc. (Hons) (Rhodes), in Human Kinetics and Ergonomics, in the Department of Human Kinetics and Ergonomics. Degree by thesis. Thesis: Musculoskeletal and perceptual responses of batsmen comparing high- and moderate-volume sprints between the wickets.

SMEDLEY, David Alan, B.Sc. (Hons) (Rhodes), in Geography, in the Department of Geography. Degree by thesis. Thesis: Rivers as borders, dividing or uniting? The effect of topography and implications for catchment management in South Africa.

SMITH, Emma Ruth, B.Sc. (Hons) (Rhodes), in Zoology, in the Department of Zoology and Entomology. Degree by thesis. Thesis: An assessment of caracal population density and human-predator conflict in the Winterberg, Eastern Cape, South Africa.

STERRENBURG, Jason Neville, B.Sc. (Hons) (Rhodes), in Biochemistry, **with distinction**, in the Department of Biochemistry, Microbiology and Biotechnology. Degree by thesis. Thesis: Molecular chaperone expression and function in breast cancer and breast cancer stem cells.

THORNYCROFT, Rosanne Elizabeth, B.Sc. (Hons) (Rhodes), in Ichthyology, in the Department of Ichthyology and Fisheries Science. Degree by thesis. Thesis: Videographic analysis of the Coelacanth, *Latimeria chalumnae*, and associated habitats in the Isimangaliso Wetland Park, KwaZulu-Natal, South Africa.

TIJJANI, Kubura, B.Sc. (Hons) (Bayero University Kano), in Environmental Biotechnology, in the Institute for Environmental Biotechnology at Rhodes University. Degree by thesis. Thesis: Microalgae biomass as fermentation feedstock.

TRISTRAM, Waide Barrington, B.Sc. (Hons) (Rhodes), in Computer Science, **with distinction**, in the Department of Computer Science. Degree by thesis. Thesis: Investigating tools and techniques for

improving software performance on multiprocessor computer systems.

VERMEULEN, Ilke, B.Sc. (Hons) (Rhodes), in Marine Biology, in the Department of Zoology and Entomology. Degree by thesis. Thesis: Feeding dynamics of suspension-feeders in the nearshore marine environment adjacent to two contrasting estuaries in the Eastern Cape, South Africa.

VORSTER, Paul Hendrik, B.Tech. (P.E. Technikon), in Zoology, in the Department of Zoology and Entomology. Degree by thesis. Thesis: The feeding and spatial ecology of cheetahs (*Acinonyx jubatus*) and lions (*Panthera leo*) in the Little Karoo, South Africa.

WARTENBERG, Reece, BSc. (Hons) (Rhodes), in Ichthyology, **with distinction**, in the Department of Ichthyology and Fisheries Science. Degree by thesis. Thesis: On the underwater visual census of Western Indian Ocean coral reef fishes.

WATERMEYER, Jessica Patricia, B.Sc. (Hons) (Rhodes), in Zoology, in the Department of Zoology and Entomology. Degree by thesis. Thesis: Antropogenic threats to resident and dispersing African wild dogs west and south of the Kruger National Park, South Africa.

WEYER, Dylan James, B.Sc. (Hons) (Rhodes), in Environmental Science, in the Department of Environmental Science. Degree by thesis. Thesis: Assessing linkages between local ecological knowledge, HIV/AIDS and the commercialisation of natural resources across Southern Africa.

WEYL, Phillip Sebastian Richard, B.Sc. (Hons) (Rhodes), in Entomology, **with distinction**, in the Department of Zoology and Entomology. Degree by thesis. Thesis: "Is more, less?" Insect-insect interactions in a biological control context using water hyacinth as a model.

WHITTINGTON-JONES, Brendan Mark, in Zoology, **with distinction**, in the Department of Zoology and Entomology. Degree by thesis. Thesis: The dispersal of African wild dogs (*Lycaon pictus*) from protected areas in northern KwaZulu-Natal Province, South Africa.

WILLMER, Tarryn, B.Sc. (Hons), (Rhodes), in Biochemistry, in the Department of Biochemistry, Microbiology and Biotechnology. Degree by thesis. Thesis: The role of Hsp 90/Hsp 70 organising protein (Hop) in the proliferation, survival and migration of breast cancer cells.

DEGREE OF DOCTOR OF PHILOSOPHY

AKPABEY, Felix Jerry, M.Phil. (Ghana), in Entomology, in the Department of Zoology and Entomology. Degree by thesis. Thesis: Quantification of the cross-sectoral impacts of waterweeds and their control in Ghana. Supervisor: Professor MP Hill. Co-supervisor: Dr DD Wilson (University of Ghana).

AROWOLO, Afolake Temitope, M.Sc. (Obafemi Awolowo, Nigeria), in Biochemistry, in the Department of Biochemistry, Microbiology and Biotechnology. Degree by thesis. Thesis: Biological synthesis of metallic nanoparticles and their interactions with various biomedical targets. Supervisor: Professor CG Whiteley.

BATLOKWA, Bareki Shima, M.Sc. (Rhodes), in Chemistry, in the Department of Chemistry. Degree by thesis. Thesis: Development of molecularly imprinted polymer based solid phase extraction sorbents for selective cleanup of food and pharmaceutical residue samples. Supervisor: Professor N Torto.

CHAKONA, Albert, M.Sc. (Zimbabwe), in Ichthyology, in the Department of Ichthyology and Fisheries Science. Degree by thesis. Thesis: Comparative biogeography and ecology of fresh water fishes in the Breede and associated river systems, South Africa. Supervisor: Dr E Swartz. Co-supervisors: Dr G Gouws and Professor P Bloomer.

CHALMERS, Russell, M.Sc. (Rhodes), in Ichthyology, in the Department of Ichthyology and Fisheries Science. Degree by thesis. Thesis: Systematic marine spatial planning and monitoring in a data poor environment: A case study of Algoa Bay, South Africa. Supervisor: Professor WHH Sauer.

CHAUKE, Vongani Portia, M.Sc. (Rhodes), in Chemistry, in the Department of Chemistry. Degree by thesis. Thesis: Electrochemistry and photophysicochemical studies of titanium, tantalum and vanadium phthalocyanines in the presence of nanomaterials. Supervisor: Distinguished Professor T Nyokong.

CHIGOME, Samuel, M.Sc. (Botswana), in Chemistry, in the Department of Chemistry. Degree by thesis. Thesis: Electrospun nanofibres: An alternative sorbent material for solid phase extraction. Supervisor: Professor N Torto.

DARKO, Godfred, M.Sc. (Rhodes), in Chemistry, in the Department of Chemistry. Degree by thesis. Thesis: Pre-concentration of heavy metals in aqueous environments using electrospun polymer nanofibre sorbents. Supervisor: Professor N Torto.

DE LA MARE, Jo-Anne, M.Sc. (Rhodes), in Biochemistry, in the Department of Biochemistry, Microbiology and Biotechnology. Degree by thesis. Thesis: Identification of novel marine algal compounds with differential anti-cancer activity: Towards a cancer stem cell-specific chemotherapy. Supervisors: Dr A Edkins and Professor GL Blatch.

DESAI, Ahmed Yacoob, M.Sc. (Wits), in Hydrology, in the Institute for Water Research. Degree by thesis. Thesis: Development of a hydraulic sub-model as part of a desktop environmental flow assessment method. Supervisor: Professor DA Hughes. Co-supervisor: Dr AL Birkhead.

FOULKES, Philip James, M.Sc. (Rhodes), in Computer Science, in the Department of Computer Science. Degree by thesis. Thesis: An

investigation into the control of audio streaming across networks having diverse quality of service mechanisms. Supervisor: Professor RJ Foss.

GORDON, Andrew Kenneth, M.Sc. (Rhodes), in Water Resource Science, in the Institute for Water Research. Degree by thesis. Thesis: Assessing the effect of a laundry detergent ingredient (LAS) on organisms of a rural South African river. Supervisor: Dr WJ Muller.

IDAHOSA, Kenudi Christiana, M.Sc. (Lagos), in Chemistry, in the Department of Chemistry. Degree by thesis. Thesis: Baylis-Hillman adducts as scaffolds for the construction of novel compounds with medicinal potential. Supervisor: Professor PT Kaye. Co-supervisor: Professor MT Davies-Coleman.

JIMOH, Mahboob Adekilekun, M.Sc. (Obafemi Awolowo), in Botany, in the Department of Botany. Degree by thesis. Thesis: A comparative study of the feeding damage caused by South African biotypes of the Russian wheat aphid (*Diuraphis noxia* Kurdjumov) on resistant and non resistant lines of barley (*Hordeum vulgare* L). Supervisor: Professor CEJ Botha. Co-supervisor: Professor G Bradley.

KADYE, Wilbert Takawira, M.Sc. (Zimbabwe), in Ichthyology, in the Department of Ichthyology and Fisheries Science. Degree by thesis. Thesis: Assessing the impacts of invasive non-native African sharp-tooth catfish *Clarias gariepinus*. Supervisor: Professor AJ Booth.

KHENE, Mielie Samson, M.Sc. (Rhodes), in Chemistry, in the Department of Chemistry. Degree by thesis. Thesis: Nanocomposites of nickel Phthalocyanines as electrocatalyst for the oxidation of Chlorophenols: An experimental and theoretical approach. Supervisor: Distinguished Professor T Nyokong. Co-supervisor: Dr KA Lobb.

KIRK-SPRIGGS, Ashley Howard, M.Phil. (Cardiff), in Entomology, in the Department of Zoology and Entomology. Degree by thesis. Thesis: A systematic revision of selected genera of Afrotropical Curtonotidae (Diptera: Schizophora: Ephydroidea) - A phylogenetic approach. Supervisor: Professor MH Villet.

LOTZ, Stefanus Ignatius, M.Sc. (Rhodes), in Physics, in the Department of Physics and Electronics. Degree by thesis. Thesis: Empirical modelling of the solar wind influence on PC3 pulsation activity. Supervisor: Professor L-A McKinnell. Co-supervisor: Dr P Sutcliffe.

MASHAZI, Philani Nkosinathi, M.Sc. (Rhodes), in Chemistry, in the Department of Chemistry. Degree by thesis. Thesis: Electrochemical sensing and immunosensing using metallophthalocyanines and biomolecular modified surfaces. Supervisor: Distinguished Professor T Nyokong.

MOKGADI, Janes, M.Sc. (University of Strathclyde), in Chemistry, in the Department of Chemistry. Degree by thesis. Thesis: Pressurised hot water extraction of nutraceuticals and organic pollutants from medicinal plants. Supervisor: Professor N Torto.

MUTORWA, Marius Kudumo Mugabe, B.Sc. (Hons) (Rhodes), in Chemistry, in the Department of Chemistry. Degree by thesis. Thesis: Synthesis of novel inhibitors of 1-Deoxy-D-xylulose-5-phosphate reductoisomerase as potential anti-malarial lead compounds. Supervisor: Professor PT Kaye. Co-supervisor: Dr R Klein.

NGWIRA, Chigomezzyo, M.Sc. (Rhodes), in Physics, in the Department of Physics and Electronics. Degree by thesis. Thesis: An analysis of ionospheric response to geomagnetic disturbances over South Africa and Antarctica. Supervisor: Professor L-A McKinnell. Co-supervisor: Dr P Cilliers.

NOMBONA, Nolwazi, M.Sc. (Rhodes), in Chemistry, in the Department of Chemistry. Degree by thesis. Thesis:

Photophysicochemical and phototherapeutic studies of phthalocyanines conjugated to selected drug delivery agents. Supervisor: Distinguished Professor T Nyokong.

NYONI, Dubekile, M.Sc. (Rhodes), in Chemistry, in the Department of Chemistry. Degree by thesis. Thesis: Mechanistic studies of unusual Morita-Baylis-Hillman reactions. Supervisor: Professor PT Kaye. Co-supervisor: Dr KA Lobb.

OLOMOLA, Temitope Oloruntoba, M.Phil. (Obafemi Awolowo University), in Chemistry, in the Department of Chemistry. Degree by thesis. Thesis: Synthesis and evaluation of novel HIV-1 enzyme inhibitors. Supervisor: Professor PT Kaye. Co-supervisor: Dr R Klein.

OPOKU- DEBRAH, John Kwadwo, in Entomology, in the Department of Zoology and Entomology. Degree by thesis. Thesis: Studies on existing and new isolates of *Cryptophlebia leucotreta granulovirus* (CrieGV) on *Thaumatotibia leucotreta* populations from a range of geographic regions in South Africa. Supervisor: Professor MP Hill. Co-supervisors: Dr S Moore and Dr C Knox.

RICHTER, Laura Lee, M.Sc. (Rhodes), in Physics, in the Department of Physics and Electronics. Degree by thesis. Thesis: A comparative polarimetric study of the 43 GHz and 86 GHz SiO masers toward the supergiant star VY CMA. Supervisor: Professor JL Jonas. Co-supervisor: Professor AJ Kembell (Illinois).

SOBOLA, Abdullahi Owolabi, M.Sc. (Ibadan), in Chemistry, in the Department of Chemistry. Degree by thesis. Thesis: Synthesis, characterization and antimicrobial activity of copper (II) complexes of some hydroxybenzaldimines and their derivatives. Supervisor: Professor GM Watkins.

THONDHLANA, Gladman, M.Sc. (Zimbabwe), in Environmental Science, in the Department of Environmental Science. Degree by thesis. Thesis: Dryland conservation areas, indigenous peoples, livelihoods and natural resource values in South Africa: The case of

Kgalagadi Transfrontier Park. Supervisor: Dr S Shackleton. Co-supervisor: Professor JN Blignaut.

TSHIMANGA, Raphael Muamba, M.Sc. (Dar Es Salaam), in Hydrology, in the Institute for Water Research. Degree by thesis. Thesis: Hydrological uncertainty analysis and scenario-based streamflow modelling for the Congo river basin. Supervisor: Professor DA Hughes.

TSIETSI, Mosiuoa Jeremia, M.Sc. (Rhodes), in Computer Science, in the Department of Computer Science. Degree by thesis. Thesis: A structural and functional specification of a SCIM for service interaction management and personalisation in IMS. Supervisor: Professor A Terzoli. Co-supervisor: Professor GC Wells.

UWAMAHORO, Jean, M.Sc. (Rhodes), in Physics, in the Department of Physics and Electronics. Degree by thesis. Thesis: An analysis of sources and predictability of geomagnetic storms. Supervisor: Professor L-A McKinnell.

WALMSLEY, Ryan Steven, B.Sc. (Hons) (Rhodes), in Chemistry, in the Department of Chemistry. Degree by thesis. Thesis: An investigation into antidiabetic and catalytic properties of oxovanadium(IV) complexes. Supervisor: Dr Z Tshentu.

YOUNG, Ryan Mark, B.Sc. (Hons) (Rhodes), in Chemistry, in the Department of Chemistry. Degree by thesis. Thesis: Synthetic and bioactivity studies of antiplasmodial and anti-bacterial marine natural products. Supervisor: Professor MT Davies-Coleman.