



RHODES UNIVERSITY

2015

GRADUATION CEREMONY

1820 SETTLERS NATIONAL MONUMENT

FRIDAY, 10 APRIL AT 14.30

CHANCELLOR
The Hon Justice L Mpati, BA, LLB, LLD (*Honoris causa*)

VICE-CHANCELLOR
SG Mabizela, MSc, PhD

ACTING DEPUTY VICE-CHANCELLOR (ACADEMIC & STUDENT AFFAIRS)
Professor CM Boughey, MA, MA, PGCE, DPhil

DEPUTY VICE-CHANCELLOR (RESEARCH & DEVELOPMENT)
PG Clayton, PhD, FICS, MCSSA, MACM

CHAIRPERSON OF COUNCIL
VD Kahla, BA, LLB

PRESIDENT OF CONVOCATION
The Rev TSN Gqubule, PhD, DD (*Honoris causa*)

DEANS

Professor TW Martin, BSc(Hons), BA(Hons), PhD
Professor AJ Booth, BSc(Hons), PhD
Dr R Krüger, BA(Hons), LLB, PhD
Professor PD Wilmot, BA, HDE, BEd, MEd, PhD
Professor DA Sewry, MSc, PhD, FICSIT, MCSSA, MAIS
Professor RB Walker, BPharm, PhD, MPS

Dean of the Faculty of Humanities
Acting Dean of the Faculty of Science
Dean of the Faculty of Law
Dean of the Faculty of Education
Dean of the Faculty of Commerce
Dean of the Faculty of Pharmacy

REGISTRAR
S Fourie, BTh, BD, DTh

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 furturn
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 welcome the Congregation.

The Public Orator, Distinguished Professor Paul R Maylam, will
present:

Thulisile Nomkhosi Madonsela
for the Degree of Doctor of Laws, *Honoris Causa*.

Advocate Thulisile Madonsela will address the Congregation.

The Deans of the Faculties will present the candidates for the award
of Diplomas and the Degrees of Bachelor, Bachelor with Honours,
Master and Doctor of Philosophy.

The Acting Deputy Vice-Chancellor (Academic & Student Affairs)
will present Kevin John Barnard for the award of the
Vice-Chancellor's Distinguished Teaching Medal.

The Acting Deputy Vice-Chancellor (Academic & Student Affairs)
will present Eleonora Deborah Goosen for the award of the
Vice-Chancellor's Senior Distinguished Teaching Medal.

The Deputy Vice-Chancellor (Research and Development)
will present Laurence Okeyo Juma for the Vice-Chancellor's
Distinguished Senior Research Medal.

The congregation will stand and sing the National Anthem.

The Chancellor will dissolve the Congregation.

FACULTY OF PHARMACY

DEGREE OF BACHELOR OF PHARMACY

ABASOOMAR, Zainab Bibi
AMBRAAL, Wynette Diana Rozaan
ASMAL, Shamimah
ATUAH, Sussie
BANURA, Claire Marunga
CHIGUMETE, Tinatsei Gabriella
CHIKEREMA, Edith Eugenia
CHIKUKWA, Mellisa Tafadzwa Ruramai, **with distinction**
CHINOINGIRA, Tinashe
CHIWANZA, Farisai, **with distinction**
CHOTAI, Priyanka Avinash
DEBELE, Olwethu
DESAI, Gnanesh Jayesh
DINTSI, Vuyolwethu Ishmael
DUBE, Cyril Simbarashe
GORE, Leo Masiwa
GRAY, Sarah Kathleen
GRIMSELL, Zoë Maureen
HADEBE, Proud Nolwazi
HASHOLO, Elina Tuwilika Ndapanda
HOLTSHOUSEN, Pieter Johan
KANGAUSARU, Shakemore Tinashe, **with distinction**
KHUMALO, Nozipho Immaculate
KIMA, Tanyi Mbo, **with distinction**
KOUAM GUECHUE, Armelle Ange
LAMBANI, Shonisani
LANGANE, Nompumelelo Gladys
LEE, Ellen
LI, Haoran
MAGWENZI, Faith
MAKAN, Anjana
MAKGOPO, Kgoroane Karabo
MALAWANA, Nokubonga Aviwe

MALOISANE, Rebecca Mamatela
 MANDEBVU, Charlton Thabo
 MANGALISO, Nandile
 MANTIMAKHULU, Sihle Wendy
 MARIMWE, Chipiwa, **with distinction**
 MARIMWE, Rumbidzai
 MATHABATHE, Amukelani Laurette
 MATHABATHE, Thato Helmut
 MAWARIRE, Leo
 MBILINI, Singathwa Unathi
 MJEKULA, Mandilakhe
 MNTWAPI, Abongile
 MOODLEY, Prinnesca
 MPENZO, Nobulumko
 MSIMANG, Mpilonhle Ayanda
 MUGONI, Mercy Chipo
 MUMBENGEGWI, Liniah Mutsa
 MUSHORIWA, Fadzai
 MUSHUNJE, Alyson
 MWATILIFANGE, Nelago Hilja
 NAIDOO, Nicole Candice
 NCOMANZI, Abigail Silibaziso
 NDABANKULU, Sinovuyo Andiswa Millicent
 NHEMACHENA, Walter Tinopiwanashe
 NHLAPHO, Botheo
 NKONDO, Mandlenkosi Hebron Tsietsi
 NYANHONGO, Joan
 PURAZI, Potiwa
 RANCHHOD, Janeeta, **with distinction**
 RANJIT, Sanam
 ROWE, Vanessa Mary
 RUMHUMA, Liberty
 SEKGATSA, Isupu Matome
 SHILUNGA, Rosalia Ndinelago
 SIKHONJE, Afika
 SOCENYWA, Vuyolwethu Nakhane
 SSEKISAMBU, Moses

TORIRO, Winnie Valerie Tinotenda
TSVETU, Reginald
VADIVALU, Ramona
ZIKI, Lynly Anesu
ZULU, Mokwinihi Joseph
ZVIDZAYI, Kudzayi Michael

FACULTY OF LAW

DEGREE OF BACHELOR OF LAWS

AFRICA, Lance Lenin
ANDERSON, Darren James Dirk
ANLEY, Matthew Grant
ASKEW, Caitlin
BADUZA, Mbalenhle Precious
BHUMURE, Ethel
CHIGOWE, Lloyd Tonderai
COOPER, Tamzyn Lee, **with distinction**
CORDELL, Cameron George Thomas
EURELLE, Meghan
FARMER, Robyn Janee, **with distinction**
FOREMAN, Jamie Kathryn
FRONEMAN, Nadia, **with distinction**
GAGIANO, Zala Marie
GUNGUBELE, Nalo
HARE, Martin Jake, **with distinction**
HWAMI, Wadzanai Privilege
IMELMANN, Christoph Reinhard
KADZIRANGE, Nyasha
KAHN, Joanne Glynn Vuyelwa
KATSVAIRO, Synodia Funganai
KRIEL, Chayse Adam
LEIGHTON, Ashley
LIND HOLMES, Angus Gordon
MABENA, Nhlanhla Amanda
MAFOA QUAN, Gertrude

TIMOTHY, Sixolile
TSELE, Michael Vuyo
VAN HEESWIJK, Grace Wilhemina
WATERWORTH, Tayla Kim
WOKER, David Willard
WORSLEY-WORSWICK, Leigh Pauline
YAKO, Loyiso Tandwefika Aduma
ZONDO, Nomcebo Khanya
ZVINAVASHE, Audrey Zvemunondiita

FACULTY OF COMMERCE

POSTGRADUATE DIPLOMA IN TAXATION

MNONO, Mawande
MUKWEKWE, Enock

POSTGRADUATE DIPLOMA IN ACCOUNTANCY

AFUNDE, Werner Simanekeni
ALERS, Robert David
ALLNER, Ashleigh Rayne
ANDERSEN, Justin Erik Friis
BELKE, Bastian
BOMBI, Lindiwe
COLEY, Cassandra Anne
DE BEER, Estevan Lumbreras
DICKASON, John Andrew
DLAMINI, Patience Khazimula
EMNIET, Cleo-Elizabeth
EWELS, Liezel Nicole
FORD, Michael John
HITCHCOCK, James Michael Fairfax
KHOZA, Innocent Sibusiso Mzamo
MADZIWA, Patience
MANAMIKE, Runyararo Shingairai
MASHELE, Marvel

MASIYA, Kudakwashe
MATIVENGA, Mativenga Geoffrey
MINI, Luzuko Yamnkela
MOPP, Felicia Anita
MURIRITIRWA, Tafadzwa Fidell
NENGOLA, Taleni Ombili Tangeni
NXESI, Zenande Miranda
OLIVIER, Matthew Michael
PRETORIUS, Sone
PRINSLOO, Jonathan
SMITH, Matthew Lindsay
TABAYI, Sinethemba Iron
TIMBA, Busisiwe Lungile
TIMM, Katherine Michelle
TRAUB, Teegan Mya
VAN DER MEER, Allan Albert
VUMA, Sibongile Thembelihle
WYATT, Jaclyn Dale
ZWENI, Ondela Wanda

DEGREE OF BACHELOR OF COMMERCE WITH HONOURS

ANDRE, Andrea Marisa Mala Felix, in Economics
ANDREW, Duncan Graham Charles, in Information Systems, **with distinction**
BADI, Sakh'Usomeleze, in Economics
BERNDT, Ethan James, in Human Kinetics & Ergonomics
BOUCHER, Bradley, in Economics
BURGER, Katherine Elizabeth, in Management, **with distinction**
BVURERE, Sean Mufaro, in Financial Management
CHAMIER, Shannon, in Information Systems/Management
CHHITA, Tulsi, in Financial Management
CHIBALE, Mwansa Kimberley, in Information Systems, **with distinction**
CHIRENJE, Sekai Elizabeth, in Economics, **with distinction**
DAMJI, Aman Mahamood, in Information Systems
DAVIDS, Lauren Lizelle, in Financial Management

DAYISI, Siyaxolisa, in Information Systems
 DESEMELA, Lwando, in Financial Management
 DULEY, Chanelle Lynn, in Economics, **with distinction**
 DURRHEIM, Meghan Eunike, in Financial Management, **with distinction**
 ELLIS, Clarke Chesney, in Information Systems
 FRASER, Alexander Ian, in Economics, **with distinction**
 GARAYI, Phillip Tauya, in Information Systems
 GRINHAM, Sally Kathleen, in Accounting
 HIGSON, Travis Richard, in Financial Management, **with distinction**
 HLUBI, Matshepo Victoria, in Information Systems, **with distinction**
 HUMPHREY, Luke, in Economics, **with distinction**
 JACOBS, Waide Brandon, in Economics
 JOHNSTONE, Richard Douglas Folster, in Economics
 KEMA, Thando, in Management
 KEPA, Rethabile, in Economics
 KIZZA, Namhla Ndinani Namagembe Felicity, in Financial Management
 KOBESSE, Andiswa, in Financial Management
 KWIZERA, Clara Edreada Gloria Kabataleesa, in Financial Management
 LEE-SHEW, Mathew Michael Nomhing, in Information Systems
 LETSELA, Mpho Agnes, in Management
 MAHLASELA, Samkelisiwe, in Organizational Psychology
 MAHOMED, Sarfraz, in Management
 MAKHATA, Dineo Dikeledi, in Mathematical Statistics
 MALABA, Mandla Heyi Mahamba, in Economics
 MALIWA, Qaqamba, in Economics
 MALONI, Thembokuhle Ntombizanele, in Economics
 MANSER, Michael Andrew, in Financial Management, **with distinction**
 MAPISA, Tafadzwa Gerald, in Management
 MARCHANT, William Jenner, in Economics
 MASILO, Tshepang Bevaloid Keotshepile, in Management
 MATIPEDZA, Tinashe Lawrence, in Financial Management
 MCCALLUM, Lebohlang Robert Obakeng, in Financial Management
 MNJAMA, Javan Joshua, in Information Systems

MODAU, Bophelo Tracy, in Financial Management
 MOKAYA, Lavenda Kemunto, in Information Systems
 MOLEWA, Masechaba, in Management
 MOMBEYARARA, Nyasha Otilia, in Financial Management
 MONA, Camagu, in Economics
 MOOKI, Amelia Faith Mpho, in Management
 MSIMANGA, Thabiso Mashoko, in Financial Management
 MURPHY, Shane Ross, in Economics
 NDABA, Pamela Nokwanda, in Information Systems, **with distinction**
 NDAWONA, Takudzwa Maitaishe, in Economics
 NIDDRIE, Craig Courtney, in Financial Management
 NKHUMELENI, Thabelo, in Financial Management
 NTSHANGASE, Mazwi Colin, in Information Systems
 NXOMANI, Lerato Onneile, in Economics
 NZIMANDE, Sandile, in Financial Management
 ORIDOTA, Oyebole Olatoye, in Information Systems
 RAE, Craig Peter, in Management, **with distinction**
 RIVAROLA, James, in Financial Management
 SAMPAA, Michael, in Financial Management
 SAVVA, Costandino, in Management
 SHANDU, Philani, in Economics
 SHERIF, Nabiha Mohammed, in Information Systems, **with distinction**
 SHONIWA, Rumbidzai, in Economics
 SITHOLE, Zamajobe Nthabiseng, in Management
 SODWELE, Anovuyo Zizipho, in Information Systems
 THOMPSON, Tannith Bianca, in Management, **with distinction**
 THORNHILL, Kimberley, in Information Systems, **with distinction**
 WELCOME, Okuhle, in Information Systems
 WELGEMOED, Melanie Patricia, in Financial Management
 WENTWORTH, Tristan Collet, in Information Systems
 WILLIAM, Anna Martha Tandakos, in Economics, **with distinction**
 WOOLER, Stuart Michael, in Financial Management
 ZONO, Thandolwethu Gugulethu, in Economics
 ZULU, Wandile, in Economics

DEGREE OF BACHELOR OF ECONOMICS WITH HONOURS

ABURA, Elijah Akwenyu, in Economics
AMANI, Kaneja Bernard Alexander, in Economics
ARP, Reinhardt Sven, in Economics, **with distinction**
BASDOW, Alisha, in Economics
BISAMAZA, Belinda Philippa, in Economics
BOIKANYO, Boitumelo, in Economics
CHARLTON, Nicholas Evan, in Information Systems, **with distinction**
HUTCHINS, Christopher John Julian, in Environmental Science
KHEMBO, Patrick, in Economics
KOLIA, Amirah, in Economics
MXAKAZA, Kuhle Kwanga, in Economics, **with distinction**
NGWABI, Andile Nkonzo, in Economics
NTSHWEZA, Liziwe Chumani, in Economics
ROBERTSON, Paul Charles, in Information Systems
SEROBA, Nthabiseng Blessing, in Political & International Studies
SIKIWE, Simnikiwe, in Political & International Studies
VENA, Siphesihle, in Management
ZHOU, Yang, in Economics
ZULU, Sibongile, in Economics
ZWANE, Nokhwezi Zamangethe Lindiwe, in Economics

FACULTY OF PHARMACY

DEGREE OF MASTER OF SCIENCE (PHARMACY)

ADAM, Mohammed Abdul-Shakur Othman, BPharm (Rhodes), in Pharmaceutical Chemistry, in the Faculty of Pharmacy. Degree by thesis. Thesis: Isolation and structure elucidation of halogenated metabolites from *Portieria hornemannii* and *Portieria tripinnata*.

DUBE, Tawanda Gay, BPharm (Rhodes), in Pharmaceutics, in the Faculty of Pharmacy. Degree by thesis. Thesis: Formulation,

development and assessment of tenofovir disoproxil fumarate-loaded pellets.

JHUNDOO, Henusha Devi, BPharm (Rhodes), in Pharmaceutics, **with distinction**, in the Faculty of Pharmacy. Degree by thesis. Thesis: An investigation into the feasibility of incorporating ketoconazole into solid lipid microparticles.

MHAKA, Farai Arthur, BPharm (Rhodes), Pharmaceutics, in the Faculty of Pharmacy. Degree by thesis. Thesis: Development and manufacture of sustained release captopril pellets.

MUBAIWA, Byron Tawanda, BPharm (Rhodes), in Pharmaceutical Chemistry, in the Faculty of Pharmacy. Degree by thesis. Thesis: The quantification of fucoxanthin from selected South African marine brown algae (Phaeophyta) using HPLC-UV/Vis.

FACULTY OF LAW

DEGREE OF MASTER OF LAWS

OYUGI, Phoebe Akinyi, LLB (Nairobi), in the Faculty of Law. Degree by thesis. Thesis: Head of state immunity under the Rome statute of international criminal court: An analysis of the contemporary legal issues and the African Union's response to the prosecution of African heads of states.

FACULTY OF SCIENCE

DEGREE OF MASTER OF SCIENCE

ADEYEMI, Christiana Modupe, BSc (Obafemi Awolowo), in Chemistry, in the Department of Chemistry. Degree by thesis. Thesis: Studies towards the development of novel antimalarial agents.

BAH, Boubacar, BScHons (Guinea), in Exploration Geology, in the Department of Geology. Degree by coursework and thesis. Thesis: Regolith mapping and gold geochemical anomalies in the Siguiri Gold Mine of AngloGold Ashanti, Guinea, West Africa.

BARTLETT, Catherine Eve, BScHons (Rhodes), in Mathematics, **with distinction**, in the Department of Mathematics (Pure and Applied). Degree by thesis. Thesis: Left-invariant optimal control problems on the Heisenberg group and the associated Hamilton-Poisson systems: Classification, stability and integration.

BASSEY-DUKE, Elizabeth Missan, BScHons (Rhodes), in Human Kinetics and Ergonomics, **with distinction**, in the Department of Human Kinetics and Ergonomics. Degree by thesis. Thesis: An ergonomics intervention study into the physiological, perceptual and productivity effects of three citrus harvesting bag designs in the Eastern Cape of South Africa: A combined laboratory and field approach.

BEALEY, Roy Steven John, BScHons (Rhodes), in Ichthyology, in the Department of Ichthyology and Fisheries Science. Degree by thesis. Thesis: Short term changes to the life history of shad, *Pomatomus saltatrix* (Perciformes: Pomatomidae), in southern Angola.

BEAVOGUI, Massa, BScHons (Guinea), in Exploration Geology, in the Department of Geology. Degree by coursework and thesis. Thesis: Structural controls of gold mineralisation in Seguelen Pit of Siguiri Gold Mine, Guinea.

BECKLEY, Samantha Joy, BScHons (Rhodes), in Biochemistry, **with distinction**, in the Department of Biochemistry and Microbiology. Degree by thesis. Thesis: The role of Stress Inducible Protein 1 (STI1) in the regulation of actin dynamics.

BERKO, Istvan Sandor, in Computer Science, in the Department of Computer Science. Degree by coursework and thesis. Thesis: An

analysis of the risk exposure of adopting IPV6 in Enterprise Networks.

BRASSINE, Eleanor Iseult, BScHons (Rhodes), in Zoology, in the Department of Zoology and Entomology. Degree by thesis. Thesis: The cheetahs of the northern Tuli game reserve, Botswana: Population estimates, monitoring techniques and human-predator conflict.

CAMPBELL, Stuart Alexander, BEcon, BScHons (Rhodes), in Geology, in the Department of Geology. Degree by thesis. Thesis: The ECCA type section (Permian, South Africa): An outcrop analogue study of conventional and unconventional hydrocarbon reservoirs.

CHINYAMAKOBVU, Mutsa Carole, BScHons (Rhodes), in Mathematical Statistics, in the Department of Statistics. Degree by coursework and thesis. Thesis: Eliciting and combining expert opinion – an overview and comparison of methods.

COETZEE, Dirk, NatCert IT, in Computer Science, in the Department of Computer Science. Degree by coursework and thesis. Thesis: Visualisation of PF firewall logs using open source.

COETZER, Christo, IntDip IT, in Computer Science, in the Department of Computer Science. Degree by coursework and thesis. Thesis. An investigation of ISO/IEC 27001 adoption in South Africa.

COLLETT, Isabel Judith, BScHons (Rhodes), in Zoology, in the Department of Zoology and Entomology. Degree by thesis. Thesis: DNA-based identification of forensically significant beetles from southern Africa.

DANCKWERTS, Daniel Keith, BScHons (Rhodes), in Marine Biology, in the Department of Zoology and Entomology. Degree by thesis. Thesis: The trophic ecology of the endangered endemic

Barau's Petrel (*Pterodroma barau*) from Réunion Island, south-western Indian Ocean.

DE LACY, Peter James Gerard, BScHons (Rhodes), in Environmental Science, in the Department of Environmental Science. Degree by thesis. Thesis: Woody species composition and congregant appreciation of the cultural and spiritual services provided by cemeteries and church gardens in Grahamstown, South Africa.

DOPAVOGUI, Joseph Siba, BScHons (Guinea), in Exploration Geology, in the Department of Geology. Degree by coursework and thesis. Thesis: Structural assessment of the Koulekoun Gold Deposit, Guinea, West Africa.

DUNA, Oliver Olwethu, BScHons (Walter Sisulu), in Marine Biology, in the Department of Zoology and Entomology. Degree by thesis. Thesis: The influence of the physical environment, topography and time on the inshore distribution of invertebrate larvae: A multi-taxon approach.

DWIGHT, Rosemary Anne, BScHons (Rhodes), in Geography, in the Department of Geography. Degree by thesis. Thesis: Geomorphic and ambient environmental impacts on lichen distribution on two inland Nunataks in Western Dronning Maud Land, Antarctica.

FUNCKE, Matthew, BScHons (Rhodes), in Computer Science, **with distinction**, in the Department of Computer Science. Degree by thesis. Thesis: Developing high-fidelity mental models of programming concepts using manipulatives and interactive metaphors.

GAUNTLETT, Ernest John Herbert, BScHons (UCT), in Economic Geology, **with distinction**, in the Department of Geology. Degree by coursework and thesis. Thesis: A geochemical and morphological investigation of placer gold grains from the southern Seward Peninsula, Alaska: Implications for source and transport mechanisms.

GOTTSCALK, Jason Howard, NatDip IT (CPUT), in Computer Science, in the Department of Computer Science. Degree by coursework and thesis. Thesis: Towards an evaluation and protection strategy for infrastructure.

GREMU, Chikumbutso David, BSc (Malawi), BScHons (Rhodes), in Computer Science, **with distinction**, in the Department of Computer Science. Degree by thesis. Thesis: Building an E-health system for health awareness campaigns in poor areas.

HAFFEJEE, Jameel, NatDip IT (CTI), in Computer Science, in the Department of Computer Science. Degree by coursework and thesis. Thesis: An analysis of malware evasion techniques against modern AV engines.

HALL, Madison Bailey, BSc (Georgia Institute of Technology), in Zoology, in the Department of Zoology and Entomology. Degree by thesis. Thesis: What limits an invasive? Biotic and abiotic effects on the distribution of the invasive mussel *mytilus galloprovincialis* on the South African coastline.

HERBERT, Alan, BScHons (Rhodes), in Computer Science, **with distinction**, in the Department of Computer Science. Degree by thesis. Thesis: Towards large scale software based network routing simulation.

HLATSHWAYO, Nkosikhona Rejoyce, BScHons (UCT), in Bioinformatics and Computational Molecular Biology, in the Department of Biochemistry and Microbiology. Degree by coursework and thesis. Thesis: Comparison of protein binding microarray derived and ChIP-seq derived transcription factor binding DNA motifs.

JACOBS, Pierre Conrad, BCom (Unisa), in Computer Science, in the Department of Computer Science. Degree by coursework and thesis. Thesis: Towards a framework for building security operation centers.

JANKS, Matthew Richard, BScHons (Rhodes), in Botany, in the Department of Botany. Degree by thesis. Thesis: A floristic study of the Montane Wetlands of the South African Great Escarpment: Plant communities and environmental drivers.

JOHNSON, Solomon Nathan, BSc (Sierra Leone), BScHons (Rhodes), in Mathematics, in the Department of Mathematics (Pure and Applied). Degree by coursework and thesis. Thesis: Best simultaneous approximation in normed linear spaces.

JUKES, Michael David, BScHons (Rhodes), in Microbiology, **with distinction**, in the Department of Biochemistry and Microbiology. Degree by thesis. Thesis: The isolation, genetic characterization and biological activity of a South Africa *Phthorimaea operculella* granulovirus (PhopGV-SA) for the control of the potato tuber moth, *Phthorimaea operculella* (Zeller).

JUNKUHN, Kyle Peter, BEcon, BScHons (Rhodes), in Botany, in the Department of Botany. Degree by thesis. Thesis: Small mammal diversity and abundance and the effects of seasonality within and at the edge of fragmented Afromontane forests in the Eastern Cape, South Africa.

KENYON, Jonathan Simon, BScHons (Rhodes), in Physics, in the Department of Physics and Electronics. Degree by thesis. Thesis: PyMORESANE: A pythonic and CUDA-accelerated implementation of the MORESANE deconvolution algorithm.

KLEYN, Philippa May, BScHons (Rhodes), in Geography, in the Department of Geography. Degree by thesis. Thesis: Mapping and prediction of archaeological sites of habitation by modern humans using GIS and expert mapping on the south coast of South Africa.

LAURENCE, Jo-Anne Elizabeth, BScHons (Rhodes), in Biochemistry, **with distinction**, in the Department of Biochemistry and Microbiology. Degree by thesis. Thesis: Identification of novel

SNPSTRs by 454 sequencing in Nguni and Sotho-Tswana populations.

LEDWABA, Lebogang John, BScHons (Wits), in Exploration Geology, in the Department of Geology. Degree by coursework and thesis. Thesis: An overview of energy minerals in the Springbok Flats basin, South Africa: Implications for geochemical and geophysical exploration.

LOMBARDI, Giorgio Colombo, NatDip (Tech RSA), in Botany, in the Department of Botany. Degree by thesis. Thesis: Variation in breeding systems, floral morphology and nectar properties in three co-occurring *Erica* species with contrasting pollination syndromes.

LOVE, Claire Natalie, BScHons (Rhodes), in Entomology, in the Department of Zoology and Entomology. Degree by thesis. Thesis: The biology, behavior and survival of pupating false codling moth, *Thaumatotibia leucotreta* (Meyrick) (Lepidoptera: Tortricidae), a citrus pest in South Africa.

MADEBWE, Charles, BScHons (Zimbabwe), in Computer Science, in the Department of Computer Science. Degree by coursework and thesis. Thesis: An investigation into the role played by perceived security concerns in the adoption of mobile money services: A Zimbabwean case study.

MALGAS, Samkelo, BSc (Fort Hare), BScHons (Rhodes), in Biochemistry, **with distinction**, in the Department of Biochemistry and Microbiology. Degree by thesis. Thesis: The effect of GH family affiliations of mannanolytic enzymes on their synergistic associations during the hydrolysis of mannan-containing substrates.

MALIZA, Siyabonga, BSc (Fort Hare), BScHons (Rhodes), in Fisheries Science, in the Department of Ichthyology and Fisheries Science. Degree by thesis. Thesis: The use of probiotics in the diet of farmed South African abalone *Haliotis midae* L.

MANAGA, Muthumuni Elizabeth, BScHons (Rhodes), in Chemistry, **with distinction**, in the Department of Chemistry. Degree by thesis. Thesis: Photodynamic antimicrobial chemotherapy activities of porphyrin and phthalocyanine-platinum nanoparticle conjugates.

MANYERUKE, Meloddy Hlatini, BEd (Zimbabwe), BScHons (Rhodes), in Chemistry, in the Department of Chemistry. Degree by thesis. Thesis: Application of Baylis-Hillman methodology in the synthesis of HIV-1 enzyme inhibitors.

MATAMBA, Tshimangadzo Merline, BSc (Venda), BScHons (UCT), in Physics, in the Department of Physics. Degree by thesis. Thesis: Statistical analysis of the ionospheric response during storm conditions over South Africa using ionosonde and GPS data.

MATEREKE, Lavious Tapiwa, BScHons (Fort Hare), in Bioinformatics and Computational Molecular Biology, in the Department of Biochemistry and Microbiology. Degree by coursework and thesis. Thesis: Analysis of predictive power of binding affinity of PBM-derived sequences.

MKHIZE, Nhlakanipho Colin, BScHons (Rhodes), in Chemistry, **with distinction**, in the Department of Chemistry. Degree by thesis. Thesis: Nonlinear optical studies of phthalocyanines and triazatetrabenzcorroles in solution and in thin films.

MLOZEN, Madalitso Martin, BTech (NMMU), in Biochemistry, in the Department of Biochemistry and Microbiology. Degree by thesis. Thesis: Comparative study of the effect of silver nanoparticles on the hexokinase activity from human and *Trypanosoma brucei*.

MNKANDHLA, Dumisani, BScHons (NUST), in Biochemistry, in the Department of Biochemistry and Microbiology. Degree by thesis. Thesis: Synthesis of silver nanoparticles and their role against human and *Plasmodium falciparum* leucine aminopeptidase.

MOYO, Sipho Dugunye, BScHons (Rhodes), in Bioinformatics and Computational Molecular Biology, in the Department of Biochemistry and Microbiology. Degree by coursework and thesis. Thesis: Comparative study of clan CA cysteine proteases: An insight into the protozoan parasites.

MSHOPERI, Edith Kudzai, BScHons (Rhodes), in Biotechnology, in the Biotechnology Innovation Centre. Degree by thesis. Thesis: Microbial fuel cells for remediation of metal rich wastewater coupled with bioelectricity generation.

MTAMBANENGWE, Kudzai Tapiwanashe Esau, BScHons (Rhodes), in Biotechnology, in the Biotechnology Innovation Centre. Degree by thesis. Thesis: Use of microbial fuel cells in the beneficiation of algal biomass for bioelectricity production.

MTATI, Nosiseko, BScHons (Walter Sisulu), in Environmental Science, in the Department of Environmental Science. Degree by thesis. Thesis: The relative contribution of non-timber forest products, agriculture and off-farm sources of income to rural households in Koloni and Guquka, Eastern Cape.

MUNRO, Samantha Alanna, BScHons (Rhodes), in Economics, **with distinction**, in the Department of Economics and Economic History. Degree by Thesis. Thesis: A water footprint assessment of primary citrus production in the Lower Sundays River Valley, Eastern Cape, South Africa.

MURISON, Megan Kate, BScHons (Rhodes), in Zoology, in the Department of Zoology and Entomology. Degree by thesis. Thesis: The perceived effectiveness of mesopredator control techniques and the mammalian diet of black-backed jackals in the Eastern Cape, South Africa.

MUSWERA, Walter Tawanda, BSc (Fort Hare), BScHons (Rhodes), in Computer Science, in the Department of Computer Science. Degree

by thesis. Thesis: Developing a cross platform IMS client using the JAIN SIP Applet phone.

NUNHOKEE, Chuneeta Devi, BScHons (Mauritius), in Physics, in the Department of Physics and Electronics. Degree by thesis. Thesis: Link between ghost artefacts, source suppression and incomplete calibration sky models.

OATES, Sean Benjamin, BScHons (Rhodes), in Physics, in the Department of Physics and Electronics. Degree by thesis. Thesis: High-spin structure of the nucleus ^{114}Sn using gamma ray coincidence data.

PARSONS, Michelle Jennifer, BScHons (Rhodes), in Biochemistry, in the Department of Biochemistry and Microbiology. Degree by thesis. Thesis: The development of biological tools to aid in the genetic investigation of the black (*Diceros bicornis*) and white (*Ceratotherium simum*) rhinoceros mitochondrial genomes.

PENKLER, David Lawrence, BScHons (Rhodes), in Bioinformatics and Computational Molecular Biology, **with distinction**, in the Department of Biochemistry and Microbiology. Degree by coursework and thesis. Thesis: In-silico analysis of human Hsp90 for the identification of novel anti-cancer drug target sites and natural compound inhibitors.

PERKS, Tamarin, BScHons (Rhodes), in Biochemistry, in the Department of Biochemistry and Microbiology. Degree by thesis. Thesis: The effect of extracellular Hsp90 β and TGF- β 1 on colon cancer biology.

RADLEY, Johannes Jurgens, BAcc (Unisa), in Computer Science, in the Department of Computer Science. Degree by coursework and thesis. Thesis: Pseudo-random access compressed archive for security log data.

RAFUZA, Sipesihle, BScHons (Rhodes), in Geology, in the Department of Geology. Degree by thesis. Thesis: Carbonate petrography and geochemistry of BIF of the Transvaal supergroup: Evaluating the potential of iron carbonates as proxies for palaeoproterozoic ocean chemistry.

RETIEF, Daniel Christoffel Hugo, BScHons (Rhodes), in Water Resource Science, in the Institute for Water Research. Degree by thesis. Thesis: Investigating integrated catchment management using a simple water quantity and quality model: A case study of the Crocodile River catchment, South Africa.

RIDDIN, Megan Amy, BScHons (Rhodes), in Zoology, in the Department of Zoology and Entomology. Degree by thesis. Thesis: Systematics and biogeography of *Mesobola brevianalis* (Boulenger, 1908) (Teleostei: Cyprinidae).

RIDGEWAY, Jaryd Antony, BScHons (Rhodes), in Entomology, **with distinction**, in the Department of Zoology and Entomology. Degree by thesis. Thesis: Gene expression analysis of *Thaumatotibia leucotreta* in response to the *Cryptophlebia leucotreta* granulovirus.

RODE, Karel, NatDip (Damelin), in Computer Science, in the Department of Computer Science. Degree by coursework and thesis. Thesis: Using risk mitigation approaches to define the requirements for software escrow.

ROSS, Caroline Jane, BScHons (Rhodes), in Bioinformatics and Computational Molecular Biology, **with distinction**, in the Department of Biochemistry and Microbiology. Degree by coursework and thesis. Thesis: Prediction of interacting motifs within the protein subunits of *Picornavirus capsids*.

RULE, Samantha Elizabeth, BComHons (UCT), in Computer Science, in the Department of Computer Science. Degree by coursework and thesis. Thesis: A framework for using open source intelligence as a digital forensic investigative tool.

SACHIKONYE, Mwazvita Tapiwa Beatrice, BScHons (Monash), in Environmental Science, in the Department of Environmental Science. Degree by thesis. Thesis: Natural resource use as a coping and adaptation strategy to floods of vulnerable populations in the Eastern Cape.

SAHULA, Asiphe, BScHons (Rhodes), in Water Resource Science, in the Institute for Water Research. Degree by thesis. Thesis: Exploring the development of an integrated, participative, water quality management process for the Crocodile River catchment, focusing on the sugar industry.

SCHOEMAN, Adam, BCom (UJ), in Computer Science, **with distinction**, in the Department of Computer Science. Degree by coursework and thesis. Thesis: Amber: A zero-interaction honeypot with distributed intelligence.

SCHROEDER, Daniel Heiko, BSocSci, BScHons (Rhodes), in Geography, in the Department of Geography. Degree by thesis. Thesis: Coastal landscape change on the Cape St Francis/St Francis Bay peninsula from 1960 to 2014.

SCOTT, David Alan, BScHons (Rhodes), in Geography, in the Department of Geography. Degree by thesis. Thesis: On active process and landforms in Western Dronning Maud Land, Antarctica.

SEKGOTA, Khethobole Cassius, BSc (Limpopo), BScHons (Rhodes), in Chemistry, in the Department of Chemistry. Degree by thesis. Thesis: Design, development and evaluation of novel lead compounds as HIV-1 enzyme inhibitors.

SIGAUKE, Lester Takunda, BScHons (Rhodes), in Bioinformatics and Computational Molecular Biology, in the Department of Biochemistry and Microbiology. Degree by coursework and thesis. Thesis: An in-silico investigation of Morita-Baylis-Hillman accessible heterocyclic analogues for applications as novel HIV-1 C protease inhibitors.

SIGAUKE, Lester Takunda, BScHons (Rhodes), in Chemistry, in the Department of Chemistry. Degree by thesis. Thesis: Structural studies on yeast eIF5A using biomolecular NMR and molecular dynamics.

SIKUTSHWA, Likho, BScHons (Walter Sisulu), in Zoology, in the Department of Zoology and Entomology. Degree by thesis. Thesis: The diets of co-occurring anurans in a small South African river: Assessments using stomach contents, stable isotope ratios and fatty acid profiles.

SITOKA, Stefanus Sitoka, BSc (Namibia), BScHons (Rhodes), in Exploration Geology, in the Department of Geology. Degree by coursework and thesis. Thesis: Exploration status for oxide and sulphide zinc ores at Scorpion Zinc Mine, Namibia.

SONNEKUS, Michael Hendrik, BCom, BTech (Unisa), PGDip (UCT), in Computer Science, in the Department of Computer Science. Degree by coursework and thesis. Thesis: A comparison of open source and proprietary digital forensic software.

SWART, Conrad Dirk, BSocSci, BScHons (Rhodes), in Geography, in the Department of Geography. Degree by thesis. Thesis: Developing a GIS based method for school site identification in the rural Eastern Cape.

SWART, Shanna, BScHons (Rhodes), in Biochemistry, **with distinction**, in the Department of Biochemistry and Microbiology. Degree by thesis. Thesis: Nanofiber immobilized cellulases and hemicellulases for fruit waste beneficiation.

THORESEN, Mariska, BScHons (Rhodes), in Biochemistry, in the Department of Biochemistry and Microbiology. Degree by thesis. Thesis: An investigation into the synergistic action of cellulose degrading enzymes on complex substrates.

TICHIWANHUYI, Tendayi Stephen, BSc (Walter Sisulu), BScHons (Rhodes), in Human Kinetics and Ergonomics, in the Department of

Human Kinetics and Ergonomics. Degree by thesis. Thesis: The acute impact of extended aerobic exercise on cognitive performance.

TSHANGANA, Sesethu Charmaine, BScHons (Rhodes), in Chemistry, in the Department of Chemistry. Degree by thesis. Thesis: Photo-physicochemical studies and photodynamic therapy activity of indium and gallium phthalocyanines.

TYALIMPI, Vumile Mike, BScHons (Rhodes), in Physics, in the Department of Physics and Electronics. Degree by thesis. Thesis: Properties of traveling ionospheric disturbances (TIDs) over the Western Cape, South Africa.

URIRI, Solomon Akpore, BScHons (Delta State), in Physics, in the Department of Physics and Electronics. Degree by thesis. Thesis: A light-emitting-diode pulsing system for measurement of time-resolved luminescence.

UWITONZE, Pierre Celestin, BSc (Kigali), in Physics, in the Department of Physics and Electronics. Degree by thesis. Thesis: Assignment of spin and parity to states in the nucleus ^{196}Tl .

VENTER, Nicolaas, BScHons (Rhodes), in Botany, **with distinction**, in the Department of Botany. Degree by thesis. Thesis: Drought responses of select C_4 photosynthetic NADP-Me and NAD-Me Panicoideae and Aristidoideae grasses.

WEEKS, Stacey Alexandra, BScHons (Rhodes), in Biochemistry, **with distinction**, in the Department of Biochemistry and Microbiology. Degree by thesis. Thesis: Characterisation of the HSP70-HSP90 organising protein gene and its link to cancer.

WELCH, Rebecca Jane, BScHons (Leeds), in Zoology, in the Department of Zoology and Entomology. Degree by thesis. Thesis: Population estimates and spatial ecology of brown hyaenas in Kwandwe private game reserve.

WESTENSEE, Dirk Karl, BSc (Stell), in Environmental Biotechnology, in the Institute for Environmental Biotechnology. Degree by thesis. Thesis: Post-treatment technologies for integrated algal pond systems.

WOLMARANS, Milena Helena Louise, BScHons (Rhodes), in Zoology, in the Department of Zoology and Entomology. Degree by thesis. Thesis: A flight of fancy in the Chorister Robin-Chat (*Cossypha dichroa*): An isotopic standpoint.

WU, Yu, BScHons (Rhodes), in Fisheries Science, in the Department of Ichthyology and Fisheries Science. Degree by thesis. Thesis: The effects of dietary soya and crystalline phytoestrogens on the growth, gonad development and histology of farmed abalone, *Haliotis midae* L.

ZIMBA, Kennedy, BSc (Zambia), in Entomology, in the Department of Zoology and Entomology. Degree by thesis. Thesis: Using the larval parasitoid, *Agathis bishop* (Nixon) (Hymenoptera: Braconidae), for early detection of false codling moth, *Thaumatotibia leucotreta* (Meyrick) (Lepidoptera: Tortricidae) infested fruit.

FACULTY OF PHARMACY

DEGREE OF DOCTOR OF PHARMACY

JUGATHPAL, Vishen, BPharm (Rhodes)

DEGREE OF DOCTOR OF PHILOSOPHY

CHIWAKATA, Maynard Tendai, MSc (Pharmacy) (Rhodes), in Pharmaceutical Chemistry, in the Faculty of Pharmacy. Degree by thesis. Thesis: Synthesis and biological evaluation of truncated sarganaphthoquinoid acid derivatives as Hsp90 inhibitors. Supervisor: Dr DR Beukes.

FAKEE, Jameel, BPharm, MSc (Pharmacy) (Rhodes), in Pharmaceutical Chemistry, in the Faculty of Pharmacy. Degree by thesis. Thesis: The isolation, characterisation and chemotaxonomic significance of secondary metabolites from selected South African *Laurencia* spp. Rhodophyta. Supervisor: Dr DR Beukes.

NGQWALA, Nosiphiwe Patience, MSc (Rhodes), in Pharmaceutical Chemistry, in the Faculty of Pharmacy. Degree by thesis. Thesis: Modification and application of decentralised wastewater treatment technology for greywater treatment to reduce water needs. Supervisor: Dr R Tandlich.

PATEL, Sonal, BPharm (Rhodes), in Pharmacy Practice, in the Faculty of Pharmacy. Degree by thesis. Thesis: The design and evaluation of targeted patient-centred health information to improve knowledge and behavioural outcomes in tuberculosis patients with limited literacy. Supervisor: Professor R Dowse.

FACULTY OF LAW

DEGREE OF DOCTOR OF PHILOSOPHY

VAN NIEKERK, Hester Aletta, MEd (UP), in the Faculty of Law. Degree by thesis. Thesis: Determining the competency of children with developmental delays to testify in criminal trials. Supervisor: Dr KD Muller.

What is graduation?

Our practice of graduation is derived from a tradition which reaches back to at least the medieval universities of Europe.

Graduates are those who have been admitted to a degree. There is a strict hierarchy of degrees from “bachelor” through to “doctor”. In admitting a person to a degree the degree is *conferred* on that person in a somewhat archaic ceremony which is reminiscent of the equally archaic ceremony in which a knighthood is conferred.

What actually happens in a graduation ceremony is along the following lines. The Dean, who is the person responsible for the academic project in that particular Faculty and who can thus attest to the achievement of the particular student in reaching the required level, requests the Chancellor to confer the degree. The student then moves to the Chancellor and kneels before him. The Chancellor, who is the titular head of the University and who acts in the name of the University, then *confers* the degree by holding a ceremonial bonnet to the student’s head while saying “I confer the degree”. The student proceeds to the Registrar. The Registrar, who is the keeper of the records of the student’s endeavours, confirms the admission of that student to a particular degree by placing the appropriate hood over the student’s head. There is a hood for each degree. Hoods differ from each other in colour and shape.

The three basic degrees are Bachelor, Master and Doctor. Bachelor has nothing to do with the usual meaning “a man who has never married” but with the garland of leaves and berries (from the Latin *bacca lauri*, laurel berry) worn by graduands long ago. A Master’s degree is conferred on a person who has achieved the mastery of a specific field of study. “Doctor” is from the Latin verb “to teach” and is an ancient academic title which dates back to the very first universities where it implied that the holder had a licence to teach in a university.

Academic gowns are based on the clerical gowns (most scholars in Europe were monks or priests) worn in the Middle Ages in universities which would have been housed in poorly heated buildings. The hood is also derived from ancient times when it was attached to the gown and worn to keep the head warm. When not on the head it was pushed back to look more or less as it does when worn today.

NATIONAL ANTHEM OF SOUTH AFRICA

Nkosi sikelel' iAfrika
Maluphakanyisw' uphondo lwayo,
Yizwa imithandazo yethu,
Nkosi sikelela, thina lusapho lwayo.

Morena boloka setjhaba sa heso,
O fedise dintwa la matshwenyeho,
O se boloke, O se boloke setjhaba sa heso,
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.