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SCIENCE



RHODES UNIVERSITY

2013

GRADUATION CEREMONY

1820 SETTLERS NATIONAL MONUMENT

FRIDAY, 5 APRIL AT 10:00

CHANCELLOR

The Hon. Justice L.Mpati, B.A., LL.B., 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. 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 M.J.R Boswell, M.Soc.Sc., Ph.D.

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

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

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

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

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

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

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

Acting Dean of the Faculty of Humanities

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

Dean of Teaching and Learning

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 Chancellor 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 (Academic & Student Affairs) will present Dr Lizanne Raubenheimer for the award of the Vice-Chancellor's Distinguished Teaching Medal.

The Deputy Vice-Chancellor (Research and Development) will present Professor Denis Arthur Hughes for the Vice-Chancellor's Distinguished Senior Research Medal.

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

ANDERSON, Danica Ashleigh Theresa
BARFORD, Caitlin Ann, **with distinction in** Psychology
BARROW, Benjamin Stanley
BENTLEY, Luke Kinross, **with distinction in** Geography
BENTLEY, Stephen John
BEUKES, Samantha, **with distinction in** Human Kinetics &
Ergonomics
BOEL, Natasha Marie-Eraïne, **with distinctions in** Biochemistry and
Microbiology
BOUWER, Warren
BRADFIELD, Sandra-Lee Mary
BRUCE-MILLER, Melanie Margaret
BRYAN, Kate Louise Halse
CARROLL, Sarah Leigh
CHABA, Motsatsi Deligent
CHIFUNDA, Ethel Chitimwa
CHITSIGA, Ruth Batsirai
COLE, Richard Francis
COMLEY, Jessica, **with distinction in** Ichthyology
COTIYANE, Phumlile Leon
DANCKWERTS, Paul Brian Peacey
DANCKWERTS, Thomas Michael, **with distinction in** Ichthyology
DANIEL, Claire Ashleigh
DARLOW, Luke Nicholas, **with distinction in** Computer Science
DE BRUYN, John Anthony
DE JONG, Philip
DE NECKER, Leigh
DIXON, Kelly Hannah, **with distinction in** Microbiology
DIXON, Lauren
DLAKAVU, Sinazo
DREYER, Wianka
EURELLE, Meghan

EVANS, Robert William, **with distinctions in** Economics and
Human Kinetics & Ergonomics and Psychology
FANGA, Likhaya
FARTHING, Matthew William, **with distinction in** Ichthyology
FERREIRA, Dean Ralton
FLANAGAN, Gordon Patrick
GEDYE, Josh Peter, **with distinction in** Classics
GODDARD, Mathew Keith
GOWAR, Kelly Megan
GRANT, Gareth Neil
GREWCOCK, Megan
GWEDLA, Nanamhla
HAACK, Roxanne
HAASBROEK, Chayten Richard
HAMILTON, Dayna Ruth, **with distinctions in** Applied Mathematics
and Chemistry
HARTMAN, Gregory Alistair
HASELAU, Blaze Johnathon
HEWITT, Justin John
HILLARY, Tyler Dean
HOLLANDA, Stephanie Justina
HOLMES, Roxanne Bianca
HOSKING, Darryn Courtenay
HOWELL, Dylan Hilliard
HUBER, Marcelle Erica
HULUSHE, Siyabonga Theophilus
HUMBY, Samantha Ashley
ISAAC, Nomava
IZALLY, Sharkay Ruwade
JACKSON, Robin Edwin
JAGER, Chloe Rose Laubscher
JORDAAN, Gareth Lee
JORDAN, Tia Letitia
JOYNER, Jessica Mary, **with distinction in** Ichthyology
JUBY, Paul Robert
JUNKUHN, Candice Leigh
JUST, Stefan Antonio

KAHIYA, Charmaine Aiziva
 KAMBARAN, Cheli Mariel, **with distinctions in Biochemistry and Microbiology**
 KAMINER, Devin Jaye
 KANKONDI, Sebbi Lenga Agarob
 KENNEDY, Sarah Joan
 KENYON, David Leicester
 KENYON, Jonathan Simon, **with distinctions in Applied Mathematics and Physics**
 KHUMALO, Eric Phathisa
 KOLELE, Thamsanqa
 KOTANE, Masego
 KRAMER, Rachel Wynne
 KRUGER, Storm Michelene
 KUBHEKA, Gugu Patience
 KUIPER, Timothy Richard, **with distinctions in Mathematical Statistics and Zoology**
 LEIGH, Simon Maxwell
 LEITH, David Alexander John, **with distinctions in Biochemistry and Chemistry**
 LETSOALO, Legadime Nelson
 LEWIS, Mark Llewellyn
 LLOYD, Kyle Everett, **with distinction in Ichthyology**
 LORENTZ, Tabitha Jane Bridgit Paton
 LOUZADA, Marcel Severiano
 MACAULAY, Candice Michelle, **with distinction in Human Kinetics & Ergonomics**
 MADI, Lesedi
 MADIKAZI, Yanga
 MADIKIZELA, Phindile
 MAKHELE, Pheello Vincent
 MALHERBE, Willem Stefanus
 MALIMABE, Teboho, **with distinction in Biochemistry**
 MANONA, Lwambeso
 MARSBERG, Tamryn
 MARTIN, Alison Joy, **with distinction in Mathematics**

MARTIN, Jane Anne, **with distinctions in Economics and Environmental Science**
 MATHOBELA, Mankone Amida, **with distinction in Economics**
 MAVHUNGU, Lutendo Mecia
 MAXWELL, Christopher Stanley
 MBAO, Chabala
 MBONANI, Siphon Ebenezer
 MCCLURE, Bruce James
 MCWERA, Angelica Nondwe
 MEHLO, Thandeka Vuyelwa
 MFUKU, Aphiwe
 MHLANGA, Xolane Reginald
 MILLER, Jordan Katherine, **with distinction in Environmental Science**
 MITOCHI, Goodson Byson
 MKABAYI, Lithalethu
 MOFFAT, Cathrine Nyarai
 MOLATLHEGI, Refilwe Phemelo
 MOLOTO, William
 MONCHUSI, Bernice Andrieca
 MOORE, Dianne Elizabeth, **with distinction in Ichthyology**
 MOTANYANE, Lithabiso
 MOTSOENENG, Boitumelo Madika, **with distinction in Microbiology**
 MOYA, Anele
 MOYO, Siphon Dugunye
 MULCAHY, Megan Marie
 MURRAY, Sinead Natalie
 MUSIYANDAKA, Fungisai Lorraine
 MUTIMUTEMA, Tatenda Samuel
 MWENYA, Chinyanta
 NCUME, Mawande
 NDLANGISA, Nomonde
 NEPHAWE, Thembuluwo Alphinah
 NETSHIDZIVHE, Thendo
 NGOBENI, Shaddy Queen
 NGUBENI, Grace Nomthandazo

NGUMBELA, Themba
 NGXAKAZA, Nontuthuzelo Laureta
 NGXINGWENI, Magcinandile
 NICHOLSON, Bryan James
 NICOLAU, Justin Rhys
 NXELE, Siphesihle Robin
 O'BRIEN, Paul Robert
 OBATH, Cindy Cynthia Wanjiku
 ODAYAR, Luveshni, **with distinction in Geography**
 PALMER, Zoe Dilys
 PEARSON, Jessie Turner, **with distinction in Human Kinetics & Ergonomics**
 PENKLER, David Lawrence
 PENNEFATHER, Sean Neil, **with distinction in Computer Science**
 PHOSEKA, Thandi Florence
 PILLAY, Melini
 PONS, Dylan Bradley
 PRINCE, Heather, **with distinctions in Mathematics and Physics**
 RABONDA, Shana-Michelle
 RAMABU, Tshidi Paula
 RADEREE, Umar Ahmed Salim
 RAUDZINGANA, Maanda
 RAUDZINGANA, Mashudu Naome
 REDDY, Mishka
 REID, Wesson Kyle, **with distinction in Geology**
 RICHARDSON, Emma Jane
 RICHARDSON, Nathan David
 ROBERTS, Tamara, **with distinction in Psychology**
 RODRIGUES, Miguel Antonio
 RODWELL, Kelvin Gary
 ROSS, Caroline Jane, **with distinctions in Biochemistry and Microbiology**
 RYAN, Bennett
 SANYANGA, Taremekedzwa Allan, **with distinction in Microbiology**
 SAYWOOD, Kerry Michelle

SAYWOOD, Tracey Kate, **with distinctions in Biochemistry and Chemistry**
 SCHAEERER, Paul Matthew, **with distinctions in Human Kinetics & Ergonomics and Zoology**
 SEBE, Lithemba
 SEGOLELA, Mosima Mosline
 SEPOTOKELE, Kamogelo Mmapitso
 SHEPPARD, Paul John Alston
 SIBANDA, Nontokozo Bekezela Audrey
 SICWEBU, Kanyisa
 SIGIDI, Nthabeliseni Thendo
 SILBERNAGL, Ryan
 SISYA, Tamika Jane, **with distinction in Biochemistry**
 SLOMAN, Leah Frances
 SLOMAN, Micailah Joy
 SMITH, Cherry Mae
 SMITH, Jaclyn Jane
 SOBEKWA, Lwando Cecil, **with distinction in Information Systems**
 STEVENS, Chifuno Louise Peggy, **with distinction in Chemistry**
 STODART, Duncan William
 STONE, Justin Marc
 SWART, Tarryn, **with distinctions in Biochemistry and Microbiology**
 TAYLOR, Richard Peter
 THOMSON, Gareth Peter
 TLHOAELE, Kebaabetswe Christina
 TOUT, Michael James
 TSHOLEDI, Tshepo Martin
 TSOBO, Zuko
 TUDHOPE, Andrew Michael, **with distinctions in Applied Mathematics and English**
 USIKU, Tsenaye
 VAALTYN, Michaelone Chantelle
 VAN DER LINDE, Christopher
 VAN HUYSSTEEN, Darryn Ashley
 VOSPER, Samuel Jack, **with distinctions in Economics and Environmental Science and Mathematical Statistics**

VOWLES, Amy Hebblethwaite
 WATKINS, Zane Kenrick
 WIGGILL, Karyn Ashleigh
 WILD, Jenna Leigh
 WILDERVANCK, Martijn Johannes
 WINGATE, Ianthe
 YAMMIN, Kristen Louise
 YOUNG, Mark Andrew
 YUMATA, Noluvuyo
 ZABA, Namhla
 ZAVALA, Mandisa Roseline
 ZIDE, Ayanda
 ZIERVOGEL, Graham, **with distinctions in Applied Mathematics
 and Mathematical Statistics and Mathematics**

DEGREE OF BACHELOR OF SCIENCE
 (INFORMATION SYSTEMS)

ABBOTT, Gregory Derek
 BOYERS, Oliver Henman, **with distinction in Information Systems**
 CARSE, Stephen James, **with distinction in Information Systems**
 CHINKU, Ronald Junior
 DE KLERK, Bradley
 KAUSIYO, Tichaona Joshua, **with distinction in Information
 Systems**
 MALUNGANE, Eneto Mbetse
 MUSUKA, Munashe
 PAMBUKA, Thandile William
 PENNEFATHER, Gregory John, **with distinctions in Computer
 Science and Information Systems**
 SHAW, Brent Roy
 WRENCH, Peter Mark, **with distinctions in Computer Science and
 Information Systems**

DEGREE OF BACHELOR OF SCIENCE WITH HONOURS

AH YUI, Darryn Keegan, in Information Systems
 ANDERSEN, Michael P, in Computer Science/Physics, **with
 distinction**
 ARUNACHELLAN, Yogendran, in Geology
 BALOYI, Gradwell, in Economics
 BARNETT, Miles John, in Information Systems, **with distinction**
 BARTLETT, Catherine Eve, in Mathematics, **with distinction**
 BASSEY-DUKE, Elizabeth Missan, in Human Kinetics &
 Ergonomics
 BASSON, Travis, in Biochemistry, **with distinction**
 BECKLEY, Samantha Joy, in Biochemistry
 BIHINA BIHINA, Michele Marilyn, in Computer Science
 BLORE, Megan Leigh, in Environmental Science, **with distinction**
 BROWN, David Kyle, in Computer Science/Information Systems
 CHADZINGWA, Karabo Lizzie, in Geography
 CHINYAMAKOBVU, Mutsa Carole, in Mathematical Statistics
 CLARK, Matthew Edward, in Human Kinetics & Ergonomics, **with
 distinction**
 CURRIE, Sarah Alexander, in Computer Science, **with distinction**
 DANCKWERTS, Daniel Keith, in African Vertebrate Biodiversity
 DARRELL, Oliver Terence, in Chemistry
 DAVIES, Michael Andrew, in Human Kinetics & Ergonomics
 DE LACY, Peter James Gerard, in Environmental Science
 DEAN, Jonathan Edmund Matthew, in Biotechnology, **with
 distinction**
 DOTWANA, Aphiwe-Zona Shammah, in Biodiversity &
 Conservation
 DREDGE, Brendon Neville, in Ichthyology & Fisheries Science
 DWIGHT, Rosemary Anne, in Geography, **with distinction**
 FELDMANN, Wesley Karl, in Chemistry, **with distinction**
 FUNCKE, Matthew, in Computer Science
 GAEGANENWE, Keaotshepa Mercy, in Mathematical Statistics
 GALLAGHER, Sean, in Botany
 GODI, Khanani Theodora, in Economics

GORNALL, Christopher Mark, in Ichthyology & Fisheries Science, **with distinction**
 GREMU, Chikumbutso David, in Computer Science
 HALSE, Sarah Jane, in Ichthyology & Fisheries Science
 HAYWOOD, Simone Ulivia, in Human Kinetics & Ergonomics
 HEDGES, Mitchell Lawrence, in Computer Science
 HERBERT, Alan, in Computer Science, **with distinction**
 HUTCHINSON, Jessica Jeanne, in Computer Science
 JOOS-VANDEWALLE, Julia, in Biotechnology, **with distinction**
 JUKES, Michael David, in Microbiology, **with distinction**
 KHAN, Naeem, in Economics
 KLEYN, Philippa May, in Geography, **with distinction**
 KOGEL, Michelle Anne, in Mathematics/Physics, **with distinction**
 LAURENCE, Jo-Anne Elizabeth, in Biochemistry, **with distinction**
 LESLIE, Timothy David, in Botany
 LESORO, Maleke Nkululeko, in Biotechnology
 LODENKEMPER, Alex, in Geology
 LOVE, Claire Natalie, in Entomology
 LUNDERSTEDT, Kyra Elizabeth, in Environmental Science
 MABUZA, Nandipha Mbali Mbaliyakhe, in Geography
 MADIKANE, Sivuyile, in Mathematical Statistics
 MAILE, Andrew Jonathan, in Psychology, **with distinction**
 MALGAS, Samkelo, in Biochemistry
 MAMPURU, Tsebo Mokgohlwe Pheladi, in Economics
 MANAGA, Muthumuni Elizabeth, in Chemistry
 MATIWANE, Aviwe, in Botany
 MAYO, Melissa Leigh, in Ichthyology & Fisheries Science
 MCDOUGALL, Justin John, in Human Kinetics & Ergonomics, **with distinction**
 MEKGOGO, Paulinah Kelebogile, in Electronics
 MGOLOZELI, Kwanele, in Chemistry
 MGWEBE, Thina, in Environmental Science
 MIAN, Shana Iva, in Marine Biology
 MILLAR, Belinda Jane, in Environmental Science, **with distinction**
 MKHIZE, Nhlakanipho Colin, in Chemistry/Physics
 MODIPA, Rebene Dineo, in Environmental Science
 MOHALE, Mamello, in Chemistry, **with distinction**

MOKGOKONG, Sankwetea Prudent, in Microbiology
 MOLEKO, Pulleng, in Chemistry
 MOORE, Nicolle Maureen, in Biotechnology, **with distinction**
 MOSES, Vuyani, in Biotechnology
 MOTHA, Charity Margaret, in Biotechnology
 MOYO, Thandeka, in Biochemistry
 MPANDO, Talitha Louisa, in Geography
 MPITI, Unako Bongani, in Chemistry
 MSAYI, Anele, in Information Systems
 MSHOPERI, Edith Kudzai, in Biotechnology
 MULLER, Claudette, in Environmental Science, **with distinction**
 MUNRO, Samantha Alanna, in Environmental Science, **with distinction**
 MURISON, Megan Kate, in African Vertebrate Biodiversity
 MWANGOLA, Dora Mkabili, in Microbiology
 NAMA, Nkosinathi, in Botany
 NDLOVU, Thandeka Amanda, in Geography
 NGQIYAZA, Nozuko Princess, in Botany
 NJENGELE, Zikhona, in Biotechnology
 NKONKI, Apelele, in Environmental Science
 NOKALIPA, Iviwe Cwaita, in Chemistry
 OATES, Sean Benjamin, in Physics
 OLIVER, Brittany Lee, in Ichthyology & Fisheries Science
 PAGE, Samantha Karin, in African Vertebrate Biodiversity
 PARSONS, Michelle Jennifer, in Biotechnology, **with distinction**
 PATRICK, Michael David, in Biodiversity & Conservation
 PERKS, Tamarin, in Biotechnology, **with distinction**
 PRETORIUS, Abraham Izak, in Zoology
 PROCTOR, Briony, in Geology
 RAFUZA, Sipesihle, in Geology
 RETIEF, Daniel Christoffel Hugo, in Environmental Science
 REYNELL, Alexander Stuart, in Mathematics, **with distinction**
 RIDDIN, Megan Amy, in African Vertebrate Biodiversity
 RIDGARD, Joy Lyn, in Human Kinetics & Ergonomics
 RIDGEWAY, Jaryd Antony, in Entomology
 ROSS, Luke Allan, in Computer Science, **with distinction**
 ROSS, Natalie Ann, in Human Kinetics & Ergonomics

ROYI, Marcia Dunyiswa, in Geology
 SAHULA, Asiphe, in Environmental Water Management
 SCHROEDER, Daniel Heiko, in Environmental Water Management
 SCOTT, David Alan, in Environmental Water Management
 SHACKLETON, Ross Taylor, in Environmental Science, **with distinction**
 SHOLTO-DOUGLAS, Craig Chisholm, in Environmental Science
 SIMMONS, Aron, in Ichthyology & Fisheries Science
 SITOKA, Stefanus Sitoka, in Geology
 SITUNGU, Sivuyisiwe, in Biodiversity & Conservation
 SIYO, Helen Ntombexolo, in Mathematical Statistics
 SMITH, Devlin Robert, in Computer Science
 SNYMAN, Albert, in Ichthyology & Fisheries Science
 SPRINGER, Julian John, in Information Systems
 STEEL, Lance Graig Graham, in Geology
 STRICKLAND, Charles Robert, in Mathematics/Physics
 STROEBEL, Kelly Faye, in Environmental Science
 SWANEPOEL, Sean, in Environmental Science
 SWART, Conrad Dirk, in Geography, **with distinction**
 THORESEN, Mariska, in Biochemistry
 THORPE, Kerri Lynn, in Mathematical Statistics, **with distinction**
 TICHIWANHUYI, Tendayi Stephen, in Human Kinetics & Ergonomics
 TRENOR, Siobhan Lindsay, in Biochemistry, **with distinction**
 TSHANGANA, Sesethu Charmaine, in Chemistry
 VAN DE VYVER, Daniel Barry, in African Vertebrate Biodiversity
 VORSTER, Mark Geoffrey, in Computer Science
 WEEKS, Stacey Alexandra, in Biochemistry, **with distinction**
 WENTWORTH, Laura Claire, in Computer Science/Physics, **with distinction**
 WILD, David Jonathan, in Computer Science
 WU, Yu, in Ichthyology & Fisheries Science
 XEGO, Solami, in Chemistry
 ZARANYIKA, Zororo Emmanuel, in Information Systems
 ZONDI, Landiwe Thandeka, in Environmental Science, **with distinction**

DEGREE OF MASTER OF SCIENCE

AFOLAYAN, Omolola Folasade, B.Med.Sc. (Hons) (UFS), in Biochemistry, in the Department of Biochemistry, Microbiology and Biotechnology. Degree by thesis. Thesis: Biochemical characterisation of Pfj2, a *Plasmodium falciparum* heat shock protein 40 chaperone potentially involved in protein quality control in the endoplasmic reticulum.

ANGUS, Lynne, B.Sc. (Hons) (UKZN), in Computer Science, in the Department of Computer Science. Degree by coursework and thesis. Thesis: IT audits in higher education.

BARFORD, Gareth Charles, B.Sc. (Hons) (Rhodes), in Human Kinetics and Ergonomics, in the Department of Human Kinetics and Ergonomics. Degree by thesis. Thesis: Changes in muscle recruitment, functional strength and ratings of perceived effort during an 8-over bowling spell: impact on performance.

BLAAUW, Pieter, in Computer Science, in the Department of Computer Science. Degree by coursework and thesis. Thesis: Search engine poisoning and its prevalence in modern search engines.

BOGOPA, Juda, B.Sc. (Hons) (Glasgow Caledonian University), in Chemistry, in the Department of Chemistry. Degree by thesis. Thesis: Profiling for volatile compounds in the Kgalagadi desert truffle.

BULCAO, Candice, B.Sc. (Hons) (Rhodes), in Biochemistry, in the Department of Biochemistry, Microbiology and Biotechnology. Degree by thesis. Thesis: Polyunsaturated fatty acid metabolism and effects on colon cancer cell biology *in vitro*.

BUYS, Stephanus, B.Sc. (UNISA), in Computer Science, in the Department of Computer Science. Degree by coursework and thesis. Thesis: Log analysis aided by latent semantic mapping.

CHAGONDAH, Godfrey Shoriwa, B.Sc. (Zimbabwe), in Exploration Geology, in the Department of Geology. Degree by coursework and

thesis. Thesis: Nuanetsi Igneous Province: a review of exploration techniques for intrusion-related Cu-W-Mo mineralization, Zimbabwe.

CHAPLIN, Caley, B.Sc. (Hons) (Rhodes), in Human Kinetics and Ergonomics, **with distinction**, in the Department of Human Kinetics and Ergonomics. Degree by thesis. Thesis: The factors affecting self-regulation through the analysis of physiological, psychological and behavioural measures during task-switching.

CHINYIMBA, Abby, B.Sc. (Hons) (Copperbelt, Zambia), in Environmental Science in the Department of Environmental Science. Degree by thesis. Thesis: An assessment of urban residents' knowledge and appreciation of the intangible benefits of trees in two medium sized towns in South Africa.

CHIRENJE, Emmanuel, M.Sc. (Zimbabwe), in Exploration Geology, in the Department of Geology. Degree by coursework and thesis. Thesis: Geophysical delineation of the Ysterkop north hematite-quartz-fluorite prospect using existing geological data as a constraint in the Bushveld granites, South Africa: implications for exploration.

CHISHALESHALE, Mwale, B.Sc. (Copperbelt, Zambia), in Environmental Science, in the Department of Environmental Science. Degree by thesis. Thesis: Governance and management of urban trees and green spaces in South Africa: ensuring benefits to local people and the environment.

CLARKE, Caryn Lee, B.Sc. (Hons) (Rhodes), in Environmental Science, **with distinction**, in the Department of Environmental Science. Degree by thesis. Thesis: Responses to the linked stressors of climate change and HIV/AIDS amongst vulnerable rural households in the Eastern Cape, South Africa.

CLITHEROE, Crystal-Leigh, B.Sc. (Hons) (Rhodes), in Bioinformatics and Computational Molecular Biology, **with distinction**, in the Department of Biochemistry, Microbiology and Biotechnology. Degree by coursework and thesis. Thesis: *In-silico*

analysis of *Plasmodium falciparum* Hop protein and its interactions with Hsp70 and Hsp90.

COLLINSON, Wendy Jane, B.Sc. (Hons) (Bedford College of Higher Education, UK), in Zoology, in the Department of Zoology and Entomology. Degree by thesis. Thesis: A standardised protocol for roadkill detection and the determinants of roadkill in the greater Mapungubwe Transfrontier Conservation Area, Limpopo Province, South Africa.

COOMBES, Candice Anne, B.Sc. (Hons) (Rhodes), in Entomology, **with distinction**, in the Department of Zoology and Entomology. Degree by thesis. Thesis: Entomopathogenic fungi for control of soil-borne life stages of false codling moth, *Thaumatotibia leucotreta* (Meyrick) (1912) (Lepidoptera: Tortricidae).

COOMBES, Matthew John, B.Sc. (Hons) (Rhodes), in Chemistry, **with distinction**, in the Department of Chemistry. Degree by thesis. Thesis: A comparative study of two copper (II) based metal-organic frameworks: $\text{Cu}_{21/4}(\text{OH})_{1/2}\text{B}_4\text{C}_8\text{H}_{20}\text{O}$ and $\text{Cu}_2\text{Na}(\text{OH})\text{B}_4\text{C}_8\text{H}_{20}\text{O}$.

COWIE, Bradley, B.Sc. (Hons) (Rhodes), in Computer Science, in the Department of Computer Science. Degree by thesis. Thesis: An exploratory study of techniques in Passive Network Telescope data analysis.

D'SOUZA, Nicole, B.Sc. (Hons) (Rhodes), in Chemistry, in the Department of Chemistry. Degree by thesis. Thesis: A marine chemical ecology study of a South African sea hare *Bursatella leachii*.

DUBE, Mukudzei Mswazi, B.Sc. (Zimbabwe), in Exploration Geology, in the Department of Geology. Degree by coursework and thesis. Thesis: An overview on the occurrence and distribution of lode gold mineralisation in greenstone belts in Zimbabwe: Emphasis on the Bubi Greenstone Belt.

DYER, Siobhan Margaret, B.Tech. (NMMU), in Zoology, in the Department of Zoology and Entomology. Degree by thesis. Thesis: Population size, demography and spatial ecology of cheetahs in the Timbavati Private Nature Reserve, South Africa.

EVANS, Michelle Leigh, B.Sc. (Hons) (Rhodes), in Environmental Science, **with distinction**, in the Department of Environmental Science. Degree by thesis. Thesis: Livelihood and coping strategies changes along rural-urban continua with an emphasis on natural resources.

EVERITT, Simon James, B.Sc. (Hons) (Derby), in Economic Geology, in the Department of Geology. Degree by coursework and thesis. Thesis: Evolution of the UG2 chromitite layer and its surrounding silicates: mineral composition and petrological evidence.

FAYEMI, Omolola Esther, B.Sc. (University of Agriculture, Abeokuta, Nigeria), in Chemistry, in the Department of Chemistry. Thesis: The development of platinum and palladium-selective polymeric materials.

GOBLE, David, B.Sc. (Hons) (Rhodes), in Ergonomics, in the Department of Human Kinetics and Ergonomics. Degree by thesis. Thesis: The impact of low to moderate alcohol consumption on different types of human performance.

HASEK, David Michael Leonard, B.Sc. (Hons) (Queens, Kingston, Canada), in Marine Biology, in the Department of Zoology and Entomology. Degree by thesis. Thesis: Fatty acids in Eastern Cape sub-tidal communities: a food web and nutritional comparison for a marine protected area with an adjacent fishery, and a comparison of traditional and novel extraction/trans-methylation protocols.

HLATSHWAYO, Sibongiseni Musawakhe, B.Sc.(Hons) (UP), in Exploration Geology, in the Department of Geology. Degree by coursework and thesis. Thesis: Regolith geochemistry of the

Rustenburg Layered Suite, south western Bushveld Complex, South Africa.

HUCHZERMEYER, Carl Friedrich, B.Sc. (Hons) (Rhodes), in Ichthyology, **with distinction**, in the Department of Ichthyology and Fisheries Science. Degree by thesis. Thesis: Fish and fisheries of Bangweulu Wetlands, Zambia.

IRWIN, Michael Padric, B.Soc.Sc. (Hons), in Computer Science, in the Department of Computer Science. Degree by coursework and thesis. Thesis: An investigation of online threat awareness and behaviour patterns amongst secondary school learners.

JONES, Robert Ian, B.Sc. (Hons), in Human Kinetics and Ergonomics, **with distinction**, in the Department of Human Kinetics and Ergonomics. Degree by thesis. Thesis: The influence of soccer-specific fatigue on the risk of thigh injuries in amateur Black African players.

KANKUZI, Charles Frienderson, M.Sc. (Malawi), in Exploration Geology, in the Department of Geology. Degree by coursework and thesis. Thesis: Geochemistry of kimberlite indicator mineral garnets from stream sediments: preliminary results and their implications for diamond exploration in Malawi.

KANZI, Aquillah Mumo, B.Sc. (Jomo Kenyatta University of Agriculture and Technology), in Bioinformatics and Computational Molecular Biology, in the Department of Biochemistry, Microbiology and Biotechnology. Degree by coursework and thesis. Thesis: Falcipains as Malarial Drug Targets.

KAOMA, Humphrey, B.Sc. (Copperbelt, Zambia), in Environmental Science, in the Department of Environmental Science. Degree by thesis. Thesis: The contribution of trees to local livelihoods in urban areas.

KASI, Bridget Sizukisi, B.Sc. (Hons) (Rhodes), in Information Systems, in the Department of Information Systems. Degree by thesis. Thesis: Towards identifying how knowledge management concepts may be applied to enhance the tendering process in South African government institutions.

KHÂN, Tasmiyah, B.Med.Sci. (Hons) (UKZN), in Biochemistry, in the Department of Biochemistry, Microbiology and Biotechnology. Degree by thesis. Thesis: Development of a novel, quantitative assay for determining the rate of activity of antimalarial drugs.

KONGOLO, Sergio Kakoma, B.Sc. (Hons) (Lubumbashi), in Exploration Geology, in the Department of Geology. Degree by coursework and thesis. Thesis: Kalimva gold deposit, northeast Democratic Republic of Congo: Geology, mineralization and economic potential.

KORTE, Janice, B.Sc. (Hons) (Rhodes), in Human Kinetics and Ergonomics, in the Department of Human Kinetics and Ergonomics. Degree by thesis. Thesis: South African anthropometric dimensions for the design of an ergonomic office chair.

KROON, Matthys Christoffel, B.Sc. (Hons) (UP), in Biochemistry, in the Department of Biochemistry, Microbiology and Biotechnology. Degree by thesis. Thesis: High-throughput modelling and structural investigation of cysteine protease complexes with protein inhibitors.

KRUID, Jan, B.Sc. (Hons) (Rhodes), in Biotechnology, **with distinction**, in the Department of Biochemistry, Microbiology and Biotechnology. Degree by thesis. Thesis: Voltammetric investigation of microbiological growth media and carbon nanotube modified electrodes: a case study of oxytetracycline.

LOUW, Tyron Linton, B.Sc. (Hons) (Rhodes), in Ergonomics, **with distinction**, in the Department of Human Kinetics and Ergonomics. Degree by thesis. Thesis: An investigation into control mechanisms of driving performance: resource depletion and effort-regulation.

MACALA, Lukholo, B.Sc. (Hons) (WSU), in Marine Biology, in the Department of Zoology and Entomology. Degree by thesis. Thesis: Identification and evaluation of key factors for rehabilitation of shores denuded of mussels (*Perna perna*) along the Transkei Coast, South Africa.

MAFUMA, Tendai Simbarashe, B.Sc. (Hons) (Rhodes), in Biochemistry, in the Department of Biochemistry, Microbiology and Biotechnology. Degree by thesis. Thesis: Immobilisation of electric eel acetylcholinesterase on nanofibres electrospun from a nylon and chitosan blend.

MAHAYE, Ntombikayise, B.Med.Sci. (Hons) (UKZN), in Bioinformatics and Computational Molecular Biology, in the Department of Biochemistry, Microbiology and Biotechnology. Degree by coursework and thesis. Thesis: A central enrichment-based comparison of two alternative methods of generating transcription factor binding motifs from protein binding microarray data.

MAKANJEE, Che Azad, B.Sc. (Hons) (Rhodes), in Chemistry, in the Department of Chemistry. Degree by thesis. Thesis: An experimental and theoretical investigation of unstable Fischer chromium carbene complexes.

MALINGA, Nduduzo Nkanyiso, B.Sc. (Hons) (NMMU), in Chemistry, **with distinction**, in the Department of Chemistry. Degree by thesis. Thesis: Photophysicochemical properties of aluminium phthalocyanine-platinum conjugates.

MATARUSE, Gamuchirai, B.Sc. (Hons) (Rhodes), in Ichthyology, in the Department of Ichthyology and Fisheries Science. Degree by thesis. Thesis: Phylogeography and conservation of a newly identified galaxiid from the Joubertina area, South Africa.

MATSHIVHA, Mashudu Reineth, B.Sc. (Hons) (Venda), in Exploration Geology, in the Department of Geology. Degree by coursework and thesis. Thesis: The occurrence and distribution of rare

earth elements mineralisation in the acid phase rocks of the Bushveld complex.

MBARU, Emmanuel Kakunde, B.Sc. (Hons) (Moi, Kenya), in Fisheries Science, in the Department of Ichthyology and Fisheries Science. Degree by thesis. Thesis: An assessment of the Kenyan coastal artisanal fishery and implications for the introduction of FADs.

McCONNACHIE, Lauren Bernyse, B.Sc. (Hons) (Rhodes), in Geography, **with distinction**, in the Department of Geography. Degree by thesis. Thesis: An investigation of the relationship between morphology, patterns and processes in a headland bypass dunefield, in the Eastern Cape, South Africa.

MONTSHO, Obakeng Johannes, B.Sc. (Hons) (Rhodes), in Applied Mathematics, in the Department of Mathematics. Degree by thesis. Thesis: Real options valuation for South African nuclear waste management using a fuzzy mathematical approach.

MOODLEY, Jason Anthony, B.Sc. (Hons) (NMMU), in Geology, in the Department of Geology. Degree by thesis. Thesis: Petrogenesis of the Bysteeck and Koenap formation Migmatites, Central Namaqualand.

MORRIS, Dale Brett, B.Sc. (Hons) (Rhodes), in Zoology, in the Department of Zoology and Entomology. Degree by thesis. Thesis: The Drakensberg Rock-Jumper: ecology and genetic status of isolated montane populations.

MOTHIBEDI, Kedimetse, B.Sc. (Botswana), in Chemistry, in the Department of Chemistry. Degree by thesis. Thesis: A study of electrospun nanofibres and diatomaceous earth materials for the extraction of alkaloids, flavonoids and aromatic amines in various matrices.

MPOFU, Khulekani, B.A. (Botswana) in Environmental Science, in the Department of Environmental Science. Degree by thesis. Thesis: Evaluation of the performance of community-based natural resources management (CBNRM) projects along an aridity gradient in Botswana.

MURISA, Wesley Vengayi, B.Sc. (Inf.Sys.) (Hons), (Midland State, Zimbabwe), in Computer Science, in the Department of Computer Science. Degree by coursework and thesis. Thesis: Deploying DNSSEC in islands of security.

MURRAY, Taryn Sara, B.Sc. (Hons) (Rhodes), in Fisheries Science, in the Department of Ichthyology and Fisheries Science. Degree by thesis. Thesis: Movement patterns and genetic stock delineation of an endemic South African sparid, the Poenskop, *Cymatoceps nastus* (Castelnau, 1861).

NAUDE, Corus, B.Sc. (Hons) (UP), in Economic Geology, **with distinction**, in the Department of Geology. Degree by coursework and thesis. Thesis: Target selection from airborne magnetic and radiometric data in the Steinhausen area, Namibia.

NDAKI, Ntombikayise Agatha, B.Sc. (Stell), B.Sc. (Hons) (Rhodes), in Human Kinetics and Ergonomics, in the Department of Human Kinetics and Ergonomics. Degree by thesis. Thesis: Investigation of the effect of short duration breaks in delaying the onset of performance related fatigue during long distance monotonous driving at different times of the day.

NDAKUNDA, Shange-Ishiwa Tangeni, B.Sc. (Hons) (Rhodes), in Computer Science, **with distinction**, in the Department of Computer Science. Degree by thesis. Thesis: A mobile toolkit and customised location server for the creation of cross-referencing location-based services.

NDHLOVU, Rachel Tintswalo, B.Sc. (Hons) (Limpopo), in Marine Biology, in the Department of Zoology & Entomology. Degree by

thesis. Thesis: Temporal variability in the fatty acid composition of suspension-feeders and grazers on a South African rocky shore.

NGQWALA, Nosiphiwe Patience, B.Sc. (Hons) (Fort Hare), in Biochemistry, in the Department of Biochemistry, Microbiology and Biotechnology. Degree by thesis. Thesis: Interaction of metallic nanoparticles with biomedical enzyme target: Neuronal nitric acid synthase.

NJOZELA, Cuma, B.Sc. (Hons) (Fort Hare), in Marine Biology, in the Department of Zoology and Entomology. Degree by thesis. Thesis: The role of the sandprawn, *Callichirus kraussi*, as an ecosystem engineer in a temporarily open/closed Eastern Cape estuary, South Africa.

NYALUNGU, Nonhlanhla Precotia Dudu, B.Sc. (Hons) (Zululand), in Marine Biology, in the Department of Zoology and Entomology. Degree by thesis. Thesis: Spatial and temporal patterns in the population and the feeding of *Palaemon peringueyi* (MacPhearson 1990) (Decapoda, Palaemonidae) in the Kariega estuary, South Africa.

NYAMUTUKWA, Tapiwa Allen, B.Sc. (Zimbabwe), in Exploration Geology, in the Department of Geology. Degree by coursework and thesis. Thesis: A review of regional geological setting of copper-cobalt mineralisation in the Central African Copperbelt: implications on geological exploration in the Zambian Copperbelt.

NYIRENDA, Angel Newton, B.Sc. (Malawi), in Physics, **with distinction**, in the Department of Physics and Electronics. Degree by thesis. Thesis: Mechanisms of luminescence in $\alpha\text{-Al}_2\text{O}_3$: C: investigations using time-resolved optical stimulation and thermoluminescence techniques.

O'HAGAN, Kyle Leonard, B.Sc. (Hons) (Rhodes), in Biochemistry, **with distinction**, in the Department of Biochemistry, Microbiology

and Biotechnology. Degree by thesis. Thesis: A role for heat shock protein 90 (Hsp90) in fibronectin matrix dynamics.

ORONSAYE, Samuel Iyen Jeffrey, M.Sc. (NSUKKA, Nigeria), in Physics, in the Department of Physics and Electronics. Degree by coursework and thesis. Thesis: Updating the Ionospheric Propagation factor M(3000)F2, global model using the Neural Network technique and relevant geophysical input parameters.

OSAH, Umeoniso Joshua, B.Sc. (Hons) (Rhodes), in Information Systems, **with distinction**, in the Department of Information Systems. Degree by thesis. Thesis: A process assessment framework for rural ICT projects in developing countries: an exploration of the Siyakhula Living Laboratory, South Africa.

PARKINSON, Matthew Cameron, B.Sc. (Hons) (Rhodes), in Ichthyology, **with distinction**, in the Department of Ichthyology and Fisheries Science. Degree by thesis. Thesis: Contributions of inshore and offshore sources of primary production to the foodweb, and the trophic connectivity between various habitats along a depth-gradient, in Sodwana Bay, KwaZulu-Natal, South Africa.

PHALISO, Ntombifikile, B.Sc. (Hons) (Rhodes), in Botany, in the Department of Botany. Degree by thesis. Thesis: A systematic study of *Berkheya* and allies (Compositae).

POTE, Lee, B.Sc. (Hons) (Rhodes), in Human Kinetics and Ergonomics, in the Department of Human Kinetics and Ergonomics. Degree by thesis. Thesis: Selected physiological and perceptual responses of batsmen during a simulated one day international match: impact on performance.

RAPULENYANE, Nomasonto, B.Sc. (Hons) (Rhodes), in Chemistry, in the Department of Chemistry. Degree by thesis. Thesis: Photophysicochemical and photodynamic antimicrobial chemotherapeutic studies of novel phthalocyanines conjugated to silver nanoparticles.

RIDDIN, Nicholas Alwyn, B.Sc. (Hons) (Rhodes), in Ichthyology, in the Department of Ichthyology and Fisheries Science. Degree by thesis. Thesis: Growth and gonad size in cultured South African abalone, *Haliotis midae*.

RIDSDALE, Carmen Jane, B.Sc. (Hons) (Rhodes), in Microbiology, in the Department of Biochemistry, Microbiology and Biotechnology. Degree by thesis. Thesis: Interactions of arbuscular mycorrhizal fungi and spore-associated bacteria.

RYAN, Candice Nancy, B.Sc. (Hons) (Rhodes), in Bioinformatics and Computational Molecular Biology, **with distinction**, in the Department of Biochemistry, Microbiology and Biotechnology. Degree by coursework and thesis. Thesis: Sequence and structural investigation of the nonribosomal peptide synthetases of *Bacillus atrophaeus* UCMB 5137(63Z).

SEKHOSANA, Kutloano Edward, B.Sc. (Hons) (Zululand), in Chemistry, **with distinction**, in the Department of Chemistry. Degree by thesis. Thesis: Photophysical properties of zinc carboxy phthalocyanines - quantum dots conjugates.

SEPULVEDA GOMEZ, Oscar Ivan, B.Sc. (Columbia), in Exploration Geology, in the Department of Geology. Degree by coursework and thesis. Thesis: The Late Miocene Middle Cauca Gold Belt, Colombia: Geology, Au-Cu mineralization and exploration for porphyry Au-Cu systems and their related deposits.

STADLER, Leigh Tessa, B.A. (Hons) (Rhodes), in Environmental Science, in the Department of Environmental Science. Degree by thesis. Thesis: Assessing household assets to understand vulnerability to HIV/Aids and climate change in the Eastern Cape.

STONIER, Terence Anthony, B.Sc. (Hons) (Rhodes) in Ichthyology, in the Department of Ichthyology and Fisheries Science. Degree by thesis. Thesis: Microsatellite and morphometric analysis of chokka

squid (*Loligo reynaudii*) from different spawning aggregations around the South African coast.

SUNSHINE, Megan, B.Sc. (Hons) (Rhodes), in Ergonomics, in the Department of Human Kinetics and Ergonomics. Degree by thesis. Thesis: An empirical investigation into task aversion.

TAU, Sethunya Harriet Hlobisa, B.Sc. (Hons) (Rhodes), in Ergonomics, in the Department of Human Kinetics and Ergonomics. Degree by thesis. Thesis: Assessing fatigue regulation as a mechanism for coping with fatigue: an analysis of regulatory mechanisms during sustained task execution in cognitive, motor and sensory tasks.

TAYLOR, Geraldine Claire, B.Sc. (Hons) (Rhodes), in Ichthyology, in the Department of Ichthyology and Fisheries Science. Degree by thesis. Thesis: Biology and ecology of largemouth bass *Micropterus salmoides* in two temperate South African impoundments.

TOMBE, Sekai Lana, B.Sc. (Hons) (Rhodes), in Chemistry, **with distinction**, in the Department of Chemistry. Degree by thesis. Thesis: Characterization and application of phthalocyanine-gold nanoparticle conjugates.

WARD, Catherine Dale, B.Sc. (Hons) (Rhodes), in Environmental Science, **with distinction**, in the Department of Environmental Science. Degree by thesis. Thesis: Livelihoods and natural resource use along the rural-urban continuum.

DEGREE OF DOCTOR OF PHILOSOPHY

BENNETT, Rhett Hamilton, M.Sc. (Rhodes), in Ichthyology, in the Department of Ichthyology and Fisheries Science. Degree by thesis. Thesis: Movement patterns, stock delineation and conservation of an overexploited fishery species, *Lithognathus lithognathus* (Pisces: Sparidae). Supervisor: Dr P Cowley (SAIAB).

BERNARD, Anthony Thomas Firth, M.Sc. (Rhodes), in Marine Biology, in the Department of Zoology and Entomology. Degree by thesis. Thesis: Towards a cost-efficient and standardised monitoring protocol for sub-tidal reef fish in the Agulhas Eco-region of South Africa. Supervisors: Dr A Götz (SAEON) and Professor AN Hodgson.

CHILDS, Amber-Robyn, M.Sc. (Rhodes), in Ichthyology, in the Department of Ichthyology and Fisheries Science. Degree by thesis. Thesis: Estuarine-dependency and multiple habitat use by dusky kob *Argyrosomus Japonicus* (Pisces: Sciaenidae). Supervisor: Dr P Cowley (SAIAB).

COATES, Megan Patricia, B.Sc. (Hons) (Rhodes), in Chemistry, in the Department of Chemistry. Degree by thesis. Thesis: Characterization of surfaces modified through self-assembled monolayers and click chemistry. Supervisor: Distinguished Professor T Nyokong.

COCKBURN, Ingrid Louise, M.Sc. (Rhodes), in Biochemistry, in the Department of Biochemistry, Microbiology and Biotechnology. Degree by thesis. Thesis: Modulation of *Plasmodium falciparum* chaperones PfHsp70-1 and PfHsp70-x by small molecules. Supervisors: Professor GL Blatch and Dr A Boshoff.

FOURIE, Saskia, M.Sc. (UPE), in Environmental Science, in the Department of Environmental Science. Degree by thesis. Thesis: The restoration of an alien-invaded riparian zone in grassy fynbos, South Africa. Supervisor: Professor C Shackleton. Co-supervisor: Professor K Kellner (North-West University).

GOBLE, Tarryn Anne, M.Sc. (Rhodes), in Entomology, in the Department of Zoology and Entomology. Degree by thesis. Thesis: Towards the development of a mycoinsecticide to control white grubs (Coleoptera: Scarabaeidae) in South African sugarcane. Supervisor: Professor M Hill. Co-supervisor: Dr D Conlong (South African Sugar Research Institute).

HARI KRISHNAN, Ramesh Kannan, M.Sc. (Madurai Kamaraj, Bangalore), in Environmental Science, in the Department of Environmental Science. Degree by thesis. Thesis: Invasion of *Lantana* into India: analysing introduction, spread, human adaptations and management. Supervisor: Professor C Shackleton.

HOWARTH, Geoffrey Hamilton, M.Sc. (Rhodes), in Geology, in the Department of Geology. Degree by thesis. Thesis: Petrogenesis and metallogenesis of the Panzhihua Fe-Ti oxide ore-bearing mafic layered intrusion, south west China. Supervisor: Dr S Prevec. Co-supervisor: Professor M Zhou (Hong Kong).

KAHWA, David, M.Sc. (Malawi), in Fisheries Science, in the Department of Ichthyology and Fisheries Science. Degree by thesis. Thesis: Gametogenesis, gonadal recrudescence, restraint and spawning patterns in Nile Perch, *Lates niloticus* (Linnaeus, 1758). Supervisor: Professor H Kaiser. Co-supervisor: Dr J Rutaisire (Makerere).

LANGA, Sílvia da Fátima, M.Sc. (Wits), in Entomology, in the Department of Zoology and Entomology. Degree by thesis. Thesis: Impact and control of waterweeds in the Southern Mozambique Basin rivers. Supervisor: Professor MP Hill.

MARTIN, Grant Douglas, M.Sc. (Rhodes), in Entomology, in the Department of Zoology and Entomology. Degree by thesis. Thesis: Drivers of macrophyte assemblages in South African freshwater systems. Supervisor: Dr JA Coetzee.

MASILELA, Nkosiphile, B.Sc. (Limpopo), M.Sc. (Rhodes), in Chemistry, in the Department of Chemistry. Degree by thesis. Thesis: Low symmetry metallophthalocyanines and their nanoparticle conjugates for photodynamic antimicrobial chemotherapy. Supervisor: Distinguished Professor T Nyokong.

MATUMBA, Tshifhiwa Given, B.Sc. (Venda), B.Sc. (Med) (Hons) (MEDUNSA), M.Sc. (UCT), in Marine Biology, in the Department of Zoology and Entomology. Degree by thesis. Thesis: Genetics and thermal biology of littorinid snails of the genera *Afrolittorina*, *Echinolittorina* and *Littoraria* (Gastropoda: Littorinidae) from temperate, subtropical and tropical regions. Supervisor: Distinguished Professor CD McQuaid. Co-supervisor: Professor NP Barker.

McALPINE, Kim, M.Sc. (Rhodes), in Physics, in the Department of Physics and Electronics. Degree by thesis. Thesis: The SKA's the limit: on the nature of faint radio sources. Supervisor: Professor JL Jonas. Co-supervisor: Professor M Jarvis (Hertfordshire).

McCONNACHIE, Matthew Morgan, M.Sc. (Rhodes), in Environmental Science, in the Department of Environmental Science. Degree by thesis. Thesis: On the implementation effectiveness and efficiency of ecological interventions in operational contexts: the case of Working for Water. Supervisor: Professor C Shackleton. Co-supervisor: Professor R Cowling (NMMU).

MCITEKA, Lulama Patrick, B.Sc. (Hons) (Fort Hare), M.Sc. (UFS), in Chemistry, in the Department of Chemistry. Degree by thesis. Thesis: Novel applications of Morita-Baylis-Hillman methodology in organic synthesis. Supervisor: Professor PT Kaye. Co-supervisor: Dr KA Lobb.

MENSAH, Paul Kojo, B.Sc. (Cape Coast, Ghana), M.Sc. (WSU), in Water Resource Science, in the Institute for Water Research. Degree by thesis. Thesis: Environmental water quality management of glyphosate-based herbicides in South Africa. Supervisor: Professor CG Palmer. Co-supervisor: Dr WJ Muller (Amatola Water).

MIDGLEY, John Mark, M.Sc. (Rhodes), in Entomology, in the Department of Zoology and Entomology. Degree by thesis. Thesis: Quantifying the structure of epigaeic invertebrate communities along an altitudinal gradient on the Great Escarpment, South Africa.

Supervisor: Professor MH Villet. Co-supervisor: Professor NP Barker.

MOORE, Bronwyn Ann, M.Sc. (Rhodes), in Water Resource Science, in the Institute for Water Research. Degree by thesis. Thesis: Investigation into the technical feasibility of biological treatment of precious metal refining wastewater. Supervisor: Dr WJ Muller (Amatola Water). Co-supervisor: Dr JE Burgess (WRC).

MOYO, Buhle, M.Sc. (Rhodes), in Biochemistry, in the Department of Biochemistry, Microbiology and Biotechnology. Degree by thesis. Thesis: The screening and characterization of compounds for modulators of heat shock protein (Hsp90) in a breast cancer cell model. Supervisors Professor GL Blatch, Dr AL Edkins.

MUTAMBA, Manyewu, M.Sc. (Zimbabwe), in Environmental Science, in the Department of Environmental Science. Degree by thesis. Thesis: Rural livelihoods, forest products and poverty alleviation: the role of markets. Supervisor: Professor C Shackleton.

NAIGAGA, Irene, B.Vet.Med. PG.Dip. (Makerere), M.Sc. (Rhodes), in Ichthyology, in the Department of Ichthyology and Fisheries Science. Degree by thesis. Thesis: Use of bioindicators and biomarkers to assess aquatic environmental contamination in selected urban wetlands in Uganda. Supervisor: Professor H Kaiser. Co-supervisor: Dr WJ Muller (Amatola Water).

NILAND, Michael John, M.Sc. (Rhodes), in Biotechnology in the Department of Biochemistry, Microbiology and Biotechnology. Degree by thesis. Thesis: Critical studies in carbon electrode materials with applications in the electroanalysis of the mycotoxin citrinin. Supervisor: Professor J Limson. Co-supervisor: Dr R Fogel.

O'BRIEN, John, M.Sc. (NMMU), in Zoology, in the Department of Zoology and Entomology. Degree by thesis. Thesis: The ecology and management of the large carnivore guild on Shamwari Game Reserve, Eastern Cape, South Africa. Supervisor: Professor RTF Bernard.

OKEWOLE, Adeleye Ishola, M.Sc. (Ibadan, Nigeria), in Chemistry, in the Department of Chemistry. Degree by thesis. Thesis: Application of bidentate N,N'-Donor extractants in the hydrometallurgical separation of base metals from an acidic sulphate medium. Supervisor: Dr Z Tshentu.

OLALEKAN, Temitope Elizabeth, M.Sc. (Ibadan, Nigeria), in Chemistry, in the Department of Chemistry. Degree by thesis. Thesis: Synthesis, characterisation and biological activity of 2-(methylthiomethyl) anilines, 2-(methylthio) anilines, their Schiff-base derivatives and metal (II) (Co, Ni, Cu) complexes. Supervisor: Professor GM Watkins. Co-supervisor: Dr DR Beukes.

ONDIGO, Dezzline Adhiambo, B.Sc. (Hons) (Moi, Kenya), M.Sc. (Rhodes), in Chemistry, in the Department of Chemistry. Degree by thesis. Thesis: Polymer based electrospun nanofibres as diagnostic probes for the detection of toxic metal ions in water. Supervisor: Professor N Torto.

SISWANA, Msimelelo Patrick, B.Sc. (Hons) (Fort Hare), M.Sc. (Rhodes) in Chemistry, in the Department of Chemistry. Degree by thesis. Thesis: Electrocatalytic detection of pesticides with electrodes modified with nanoparticles of phthalocyanines and multiwalled carbon nanotubes. Supervisor: Distinguished Professor T Nyokong. Co-supervisor: Professor K Ozoemena (CSIR).

STOFILE, Simfumene, B.Sc. (Hons) (Transkei), M.Sc. (WSU), in Mathematics, in the Department of Mathematics. Degree by thesis. Thesis: Fixed points of single-valued and multi-valued mappings with applications. Supervisor: Professor SN Mishra (WSU). Co-supervisor: Professor V Murali.

TIBENDA, Victoria Namulawa, M.Sc. (Makerere), in Fisheries Science, in the Department of Ichthyology and Fisheries Science. Degree by thesis. Thesis: Characterization of the digestive system and assessment of the nutritional requirements of Nile Perch (*Lates*

niloticus, Linnaeus, 1758). Supervisor: Professor PJ Britz. Co-supervisor: Dr J Rutaisire (Makerere).

TIRIVAROMBO, Sithabile, M.Sc. (Zimbabwe), in Water Resource Science, in the Institute for Water Research. Degree by thesis. Thesis: Climate variability and climate change in water resources management of the Zambezi River Basin. Supervisor: Professor DA Hughes.

TWEDDLE, Gavin Paul, M.Sc. (Rhodes), in Zoology, in the Department of Zoology and Entomology. Degree by thesis. Thesis: The influence of overwash and breaching events on the spatial and temporal patterns in the ichthyofauna community composition in a temporarily open/closed Southern African Estuary. Supervisor: Professor PW Froneman.

VAN DER WALT, Petrus Johannes, B.Sc. (UNISA), B.Sc. (Hons) (UP), in Applied Mathematics, in the Department of Mathematics. Degree by thesis. Thesis: Numerical relativity on cosmological past null cones. Supervisor: Professor NT Bishop.

ZUGLE, Ruphino, M.Phil. (Cape Coast, Ghana), in Chemistry, in the Department of Chemistry. Degree by thesis. Thesis: Phototransformation of pollutants using lutetium and zinc phthalocyanines anchored on electrospun polymer fibres. Supervisor: Distinguished Professor T Nyokong.

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.