FACULTY OF SCIENCE

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FACULTY OF SCIENCE

ORDER OF PROCEEDINGS

Academic Procession. (The congregation is requested to stand as the procession enters the hall)

The Acting Vice-Chancellor, Professor D Reddy, will constitute the congregation.

The National Anthem.

The University Statement of Dedication will be read by a representative of the SRC.

Musical Item.

Welcome by the Master of Ceremonies, Professor A Chinsamy-Turan.

Professor Chinsamy-Turan will present Dr Jonathan Shock and Dr David Erwin for the Distinguished Teacher Award.

The graduands will be presented to the Acting Vice-Chancellor by the Dean of the Faculty of Science, Professor A le Roex.

The Acting Vice-Chancellor will congratulate the new graduates.

Professor Chinsamy-Turan will make closing announcements and invite the congregation to stand.

The Acting Vice-Chancellor will dissolve the congregation.

The procession, including the new graduates, will leave the hall. (*The congregation is requested to remain standing until the procession has left the hall.*)

NATIONAL ANTHEM

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

Morena boloka etjhaba 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.

DISTINCTIONS IN THE FACULTY OF SCIENCE

Bachelors degrees may be awarded with distinction

in a subject (or major), where the student achieves first class passes in specified courses

in the degree, where the student has both distinction in at least one subject (or major) and first class passes in at least the equivalent of six full courses.

Honours degrees are awarded by class (first, second class division one, second class division two, or third).

Master's degrees may be awarded with distinction

in the degree, (by dissertation) for especially meritorious work

in the degree, (by coursework and minor dissertation) for especially meritorious work for the dissertation as well as achieving 75% or better for the coursework.

DISTINGUISHED TEACHER AWARD

The Distinguished Teacher Award, given one only to an individual, recognises teaching at any or all levels by a member of the faculty that has made a significant and lasting impression on students.

Previous recipients in the Faculty of Science have been:

1996	M D Picker (Zoology)
1998	I Barashenkov (Maths & Applied Maths)
2002	A Buffler (Physics)
	S Oldfield (Environmental and Geographical Science)
2003	D Gammon (Chemistry)
2004	B Davidowitz (ADP in CHED & Chemistry)
2008	J O'Riain (Zoology)
2011	G Smith (Chemistry)
2012	Z Woodman (Molecular & Cellular Biology)
2014	J Gain (Computer Science)
2014	S Wheaton (Physics)
2016	AG West (Biological Sciences)

The following members of the Faculty of Science have been chosen for this award in 2017:

Dr Jonathan Shock Mathematics and Applied Mathematics

Arriving at UCT in 2013 with no undergraduate teaching experience, and tasked with teaching MAM1000W, the "killer" maths course, Dr Shock was truly thrown into the deep end. Beginning in the second semester, Jonathan was greeted by many students feeling dejected and overwhelmed after struggling through a semester of mathematics that high school did a very poor job of preparing them for. Armed with his contagious enthusiasm for mathematics, he made many poorly performing students who, according to themselves, "had no confidence about passing the final exam" start to think "but maybe I actually can do this".

From the beginning Jonathan was not afraid to try out new ideas. He supplied students with red cards that were to be raised if they felt he needed to stop and better explain the topic at hand. He strongly believes that if a student does not understand something, the teacher is at fault. Outside the classroom, this belief has driven him to have aspects of course documentation translated into all official South African languages and students report that mathemafrica.org, the website he cofounded, is a brilliant learning resource. Dr Shock's preparation and dedication to his lectures is outstanding, which can be seen by his glowing course evaluations. Students describe him as "an exceptional lecturer who presents his work with unmatched quality and clarity."

DISTINGUISHED TEACHER AWARD (CONTINUED)

Additionally, he is known to occasionally take a few minutes at the end of a lecture to pique his students' interest by discussing intriguing topics outside the scope of the course. Creating online collaborative course notes that students are encouraged to edit and expand, as well as having honors students give talks are some of the other, very effective ways Jonathan keeps his students engaged.

His support for his students is legendary. He has set up bootcamps, improved mentoring schemes, and competitions to get people involved. This exceptional teacher can even be found hosting consultation hours on Saturday mornings in a cafe on Main Road, so as to create an informal environment where students are not intimidated to approach him. Jonathan is known to follow up on students who have come to him for help, congratulating and supporting them after exam results are released. His support and enormous dedication is summed up in student feedback which reveals that, in their own words, "Dr Shock cares. He cares more than any other lecturer I've met ... and that makes him an amazing teacher that deserves to be recognised."

Dr David Erwin Mathematics and Applied Mathematics

The difficulty of teaching first year mathematics at the University of Cape Town cannot be overstated. Huge lecture halls are jam-packed with students from around the country. Most of these students, being first years, bustle with the excitement and anxiety of the new university environment. But a solitary teacher must stand before these students (usually very early in the morning) and ensure that their attention is directed at that lecture's content—and not the myriad other things that are on a first year's mind. The teacher must also balance and counterbalance the many levels and stages the students may be on in respect of mathematics. Some students may be full-blown prodigies; others may be from circumstances which prevented their full mathematical development. Almost all, moreover, have learned from high school that mathematics is, in Dr Erwin's words, a "passive" affair. This is not to say that their distinction in matric mathematics is worthless. But their journey as mathematicians (unbeknownst to most students) has only just begun. Continued success at university level will require a fundamental shift from being a passive receiver of knowledge to an active participant who achieves understanding after many hours of struggling with the material.

Dr David Erwin has not only stood before these filled lecture halls and faced these seemingly insurmountable challenges, but he has also done so in a way that has distinguished him as one of the best teachers at the University of Cape Town. He has consistently scored immaculate ratings in student evaluations. He has, despite his large, diverse classes, managed to reach out to students and inspire them in a subject that is hard, daunting, and time-consuming. In the words of some of his students, Dr Erwin gives students the greatest gift any teacher can give: a desire to learn. This is by no accident alone: Dr Erwin is a highly self-aware and reflective teacher. For him, teaching is a learning process—a skill that can be improved on if time and effort is devoted to it. In a way, Dr Erwin's approach to teaching mirrors how he encourages students to approach mathematics: instead of being passive towards his teaching, Dr Erwin actively engages and evaluates how he teaches. This has led to his introduction and constant review of certain innovations, such as weekly online tests in WeBWorK. Above all this, Dr Erwin finds the time to teach a highly rated honours course and to mentor colleagues who are new to teaching.

NAMES OF GRADUANDS

An asterisk * denotes that the degree will be awarded in the absence of the candidate.

FACULTY OF SCIENCE

Dean: Professor A le Roex

DEGREE OF BACHELOR OF SCIENCE

*Aghmat Abrahams *Salahuddeen Ahmad (with distinction in Physics) Jorgina Ndahambelela Akushika *Gwyneth Allwright (with distinction in Applied Mathematics, Philosophy, Physics and the degree with distinction) Robyn Alessandra Altmann Helen Grace Antonopoulos (with distinction in Archaeology) Thuto Mokonupi Aphiri Alyssa Reece April *Nur Armino Emily Agnes Asbury (with distinction in Marine Biology) Kayla Tracey Atkins Reuben Armand Aucamp *Riesna Reuben Audh Alveena Aziz Fahad Aziz Jacques Bagraim Okuhle Lindah Bandezi Kirsten Frances Barratt Josephine Benecke Joshua Luke Berry Simone Le-Verne Booysen *Tshepiso Bopape Anna Sergiyivna Borysova (with distinction in Computer Science, Applied Mathematics and the degree with distinction) *Amy Bosworth *Jason Carl Bredberg Amy Lauren Brodie Simeon Douglas Brown *Zoe Amber Brownstone Louren Brogen Bruce Tomas Antyony Wedege Bruce-Chwatt Azraa Yakub Bux *Lenard Leslie Carroll Sinead Carse

David Casper Taylor Duncan Casse Katherine Jean Chaplin *Rivoningo Enos Chauke *Matthew Cherry Nyasha Aura Chimhandamba *Julian Zvikomborero Chingoma (with distinction in Computer Science) Hilary Ngaakudzwe Chipunza Emma Beatrice Cipolla Vivienne Nicole Coetzee Laura Ann Alice Cottino (with distinction in Human Anatomy & Physiology, Genetics and the degree with distinction) Kerry-Leigh Cross Maxine Lee Cruickshank *Nicholas James Cuthbert (with distinction in Computer Science) Viresh Dajee Tinashe Chipiwa Darikwa *Saadiqah Davids *Wyndham Roy Davies Ashlyn Samantha Christal Davis Kate Tegan Davis (with distinction in Biochemistry, Genetics and the degree with distinction) Stephen George De Doncker *Dean William De Haast Lauren Nancy Denny (with distinction in Mathematics, Physics and the degree with distinction) Aidan Gilles De Nobrega *Sebastiaan Colin De Vos (with distinction in Applied Biology) *Zainab Muslim Dharsee Lindokuhle Dlamini Farhaan Dobah *Tauriq Dolley Yusri Dollie (with distinction in Computer Games Development) *Bonita Georgina Dominion *Matthew John Dunk Brandon Kyle Du Preez (with distinction in Astrophysics, Mathematics and the degree with distinction) Nielfah Ebrahim *Raees Eland Sean Evans (with distinction in Marine Biology and Ocean & Atmosphere Science) Doris Sibongile Fatvi *Daniel Feinstein (with distinction in Applied Mathematics, Mathematics and the degree with distinction) Sage Kenan Fell

Richard Ferger Sarah Johanna Fernandes (with distinction in Biochemistry. Genetics and the degree with distinction) Paul Thomas Ferrandi (with distinction in Biochemistry, Genetics and the degree with distinction) Ricardo Huseina Sebastiao Ferreira Nicholas James Findlay Christopher Jackson Finlay Austen Fredericks Luke James Garrod Alungile Gcaza Paul Richard Geddes (with distinction in Mathematics) Christina Helena Geromont (with distinction in Human Anatomy & Physiology) Khadra Ghedi Alasow (with distinction in Ocean & Atmosphere Science) Nikhil Gilbert *James Godlonton (with distinction in Mathematics) *Simone Gonsalves (with distinction in Genetics, Psychology and the degree with distinction) Kuziwa Trevor Gowero Amy Sarah Graham (with distinction in Biochemistry, Genetics and the degree with distinction) William Macgregor Grant Guy Andrew Orpen Green Ludwig Emil Gryffenberg Victor Gueorguiev Gueorguiev (with distinction in Computer Science, Mathematics and the degree with distinction) *Shubhda Gujadhur Lungiswa Gwanya Irfan Adam Habib (with distinction in Astrophysics) *Nicole Danielle Haird Brandon Michael Hall Dhriven Hamlall Nasonkwe Hampwaye Nadine Alexandria Nomhle Hank *Oliver Michael Harrison (with distinction in Computer Science, Computer Games Development and the degree with distinction) Jessie Stephanie Hayes (with distinction in Genetics) Dayna Courtnay Hegarty

Malcolm Thomas Hillebrand (with distinction in Applied Mathematics, Physics and the degree with distinction) *Rowan Dean Hodson Kayla Skye Hoey Amy Miriam Hoffenberg (with distinction in Applied Biology) Munira Hoosain *Gina Gabrielle Horscroft Allan Martin Huysamen Fatima-Zahra Ishmail Peter George Ivey *Malibongwe Benedict Jacobs Liam Christopher Josephs Stefanie Forrest Jugthaw Jordan Lee Kadish Adam Kaliski Shamila Kara Rejoice Jorokee Katjitae (with distinction in Biochemistry, Genetics and the degree with distinction) Rolly Kitambala Kayumba Chadley Steven Kemp *David Kesner (with distinction in Applied Biology and the degree with distinction) *Bokang Khabo Saif Feroz Khan Sonia Khan Babalwa Khobo Wandile Khowa Nosipho Khumalo Kristin Kinmont (with distinction in Computer Science and the degree with distinction) *Jasmin Fay Camilla Knopp (with distinction in Biochemistry, Genetics and the degree with distinction) Shaheel Kooverjee (with distinction in Mathematics and the degree with distinction) Genevieve Ruth Kotzen (with distinction in Applied Statistics) Billi Ann Krochuk (with distinction in Applied Biology and Ecology & Evolution) Simon Willem Kruger (with distinction in Astrophysics and the degree with distinction) Amalia Grace Krupandan (with distinction in Applied Biology, Marine Biology and the degree with distinction) Merishka Lalla Trystan Scott Lambert

Jerry Ronnie Langenhoven Michelle Lee (with distinction in Applied Biology and Marine Biology) Frances Glennie Lees *Naledi Nkhensani Legodi Katrina Leela Lehmann-Grube (with distinction in Applied Biology, Ecology & Evolution and the degree with distinction) Matthew Christopher Leigh (with distinction in Mathematics and the degree with distinction) Julia Katherine Le Maitre (with distinction in Biochemistry, Genetics and the degree with distinction) Ryan Charles Le Roux *Wandile Kutlwano Lesejane Kgaugelo Esther Letsoalo Mark David Lewis You-Haur Liu *James Arthur Lloyd (with distinction in Computer Science and the degree with distinction) Wei Chi Lu Lethuxolo Lukhuleni Katherine Elizabeth Lynam Siyanda Mabaso Philile Silindokuhle Mabija Makgalanoto Keletso Maepa Raeesa Mahatev Simlindile Fundiswa Mahlaba Vikani Moment Mahlangu Ditiro Mahlasela Rebeng Ayakha Maine (with distinction in Biochemistry, Genetics and the degree with distinction) Mohlatlego Tshepo Makgohlo Sindiswa Aziza Makiwane Yonela Nasiphi Makoba Tswarelo Gratitude Malele Liam Hugh Mally Tendani Manenzhe Valerie Francesca Alexandra March (with distinction in Biochemistry and Genetics) Daniel Joseph Marcus Michaela Martins (with distinction in Applied Biology, Marine Biology and the degree with distinction) Samukele Sally Mashele Nthabiseng Sarah Mashiane Kabelo Mathipa *Rotshidzwa Innocent Mathuge Ednecia Sewagodimo Matlapeng Brandon Matthews

Prince Blessing Maulana Thando Mazomba Thetshelesani Enocentia Mbambale John Alexander Mcalery Reece Brian Mcdonald Devro Andrew Mcgregor Kyra Mckellar Diana Robyn Melis Nkuleleko Memela Msawenkosi Mene Micaela Pia Menegaldo Frida Muthoni Mjaria Skhumbuzo Christopher Mkhungo Vusi Frank Mngomezulu Mmabatho Loverdelthia Mocwana *Reabetswe Modise Tlakale Onela Mogebisa Fatima Mohamed Jayakrishnan Mohana Sephekana Samuel Mohapi Maposholi Faith Mokhethi Nicole Moodlev *Alan Peter Morris Lerato Mosegedi Busisiwe Amanda Mpofu Loratoeng Mpolokeng *Sakumzi Mpushe Xolamzi Mqhayi (with distinction in Ocean & Atmosphere Science) Melukuhle Ebenezer Mtombeni Mbavhalelo Wendy Mudau Marion Mugabirwe Chelsea Sarah Muir Rebecca Peacock Muller (with distinction in Applied Biology and Marine Biology) *Pankaj Munbodh (with distinction in Applied Mathematics, Physics and the degree with distinction) Manenga Mungandi Daniella Cristina Munro Runako Muzwidzwa (with distinction in Biochemistry) Rufaro Hazvinaanoziva Mvududu *Nkateko Sibabalwe Mvumbi Shaguftah Naimi *Maia Roxanne Nangle *Jason Christopher Delville Naude *Bhargav Nayee Mojalefa Prince Nchupang Mbongeni Ncube Mkhuphuli Ncube *Urbain Nshokano Ndagano Dzunisani Robinson Ndlhovu Zwivhuya Onica Nethengwe *Thomas Christopher New Phuluso Lisathi Ngwenya

Yamkela Samantha Ngxongo Lorna Ngodi Andri Mwala Ntema Chenesai Nesisa Nyakunu Omondi Aoi Ochieng Casey Brian O'Donnell (with distinction in Computer Science, Computer Games Development and the degree with distinction) Lavla Padayachee Shuaib Ahmed Parker *Guy Edward Paterson-Jones (with distinction in Mathematics) Chad Jordan Peel Nastasjia-Leigh Pillay (with distinction in Biochemistry, Genetics and the degree with distinction) Jamie Nikki Pillave Norman Klaas Pilusa **Timothy Plasket** Lindsay Sue Powell Michelle Pretorius (with distinction in Applied Biology and the degree with distinction) *Joseph Richard Preyer Michael Trevor Seymour Purchase Christie Putter Yamkela Qayiya Shivam Ragoonaden *Andrea Ramnath Akhil Rampersadh *Celeste Renaud Shoneeze Simone Renga Jessica Dorothy Roberts (with distinction in Applied Biology) Ian Nathaniel Robertson Jonathan James Rogerson (with distinction in Environmental & Geographical Science, Ocean & Atmosphere Science and the degree with distinction) Yasmine Rostom Phillip Calvin Ruhesi Kumbirai Chaddy Rungwe Shakirah Rylands Nicole Aimee Saacks Aaliyah Saferdien Jacques Safoor Ibrahim Saheb Guy William Salomon *Nicholas Mikael Salonen Barak Yosef Setton Tashiv Sewpersad (with distinction in Computer Science, Computer Games Development and the degree with distinction)

*Tokelo Shai *Ava Sham Beatrice Kudzaishe Shava *Donna Matan Shefer Charlene Sibanda Nomvelo Sibisi (with distinction in Applied Mathematics) Hannah Rebecca Simon (with distinction in Environmental & Geographical Science and the degree with distinction) Soham Hanuman Singh Jesse Lebogang Smith Jessica Clair Smith Shantelle Smith (with distinction in Marine Biology, Ocean & Atmosphere Science and the degree with distinction) *Lucy Kay Smyth (with distinction in Applied Biology, Ecology & Evolution and the degree with distinction) *Jason Ronald Smythe (with distinction in Computer Games development, Computer Science and the degree with distinction) *Aletta Elizabeth Snyman Kurt Angus Mcdonald Spence Maximilian Jan Spies Mbasa Stamper Kaelin Stemmet Braxton Randy Stephens Melanie Candice Stevenson Clara Steyn Mayhew Steyn (with distinction in Applied Mathematics, Physics and the degree with distinction) Julius James Stopforth *Adam John Russel Sutherland Akiko Suzuki Reid Terence Swan (with distinction in Computer Science and the degree with distinction) Pabie Qamran Camryn Giselle Tabo Lorena Tafur Gadija Taliep Mbalenhle Nontobeko Thusi Patricia Suzanne Suzanne Thys Emma Jane Tiffin Kunzini Clive Tigere Siphesihle Valentine Tsotsa *Steven Arthur Tupper (with distinction in Computer Games Development) Brittany Ann Turner Nicole Ungerer

Sinead Zara Urisohn (with distinction in Computer Science, Computer Games Development and the degree with distinction) Noëlle Van Biljon (with distinction in Biochemistry, Genetics and Applied Statistics) Rachelle Van Der Colff (with distinction in Biochemistry) Akshay Vanmali (with distinction in Genetics) Namita Madhu Vanmali Ruan van Mazijk (with distinction in Applied Biology, Ecology & Evolution and the degree with distinction) Tara Nair Van Ryneveld (with distinction in Applied Biology and the degree with distinction) Aaron Vardi Deena Reena Veeren Sanele Ndumiso Vilakazi Morne Visser Nicol Vojacek (with distinction in Business Computing) Lindani Vuzane Julia Abigail Watson (with distinction in Biochemistry, Genetics and the degree with distinction) Liam Louis Joseph Weber Eleanor Ashley Weideman (with distinction in Applied Biology, Ecology & Evolution and the degree with distinction) *Athi Welsh (with distinction in Biochemistry) *Ben Whitaker Rebecca Amy Whitehead (with distinction in Ocean & Atmosphere Science) Leah Whittle *Jaimie Rhonia Diana Whyte Kabelo Williams Olivia Louise Wimberley Samuel Piotr Wolski (with distinction in Applied Mathematics, Physics and the degree with distinction) *Fei-Horng Wu *Kimberly Wucherpfennig Sabelo Sihle Xulu *Giovannina Dawn Zizzamia

DEGREE OF BACHELOR OF SCIENCE (HONOURS)

In Applied Mathematics: *Dominic Günther Bauer *(First class) Mariam Campbell *(First class) Kirtika Juhi Hurgobin (First class) Mpho Mafune *Thando Nkomozake (First class) Adrian Martin Schwellnus In Archaeology: (First class) Patricia Aune Groenewald *Simangaliso Armstrong Makalima Khumo Matlhoko Lauren Lindsay Powell In Astrophysics & Space Science: *Wathela Hamed Osman Alhassan Mathobela Albert Balovi Simthembile Thembelani Dlamini *(First class) Jake Eli Blake Gordin Abubakr Yagob Ibrahim Nazir Ahmed Adam Makda Tumelo Mangena Tebogo Bestina Mashile Phumlani Nkuthalo Phakathii *(First class) Nandrianina Randriamiarinarivo *Liantsoa Finaritra Randrianjanahary Isaac Sihlangu *(First class) Kameel Sooknunan Unarine Tshiwawa (First class) Albertus Johannes Viljoen In Atmospheric Science: Fortunate Mogane Jessica Pack (First class) Evelyn Julia Wicksteed In Biological Sciences: René Brink (First class) Amy Samantha Bruce *Rio Elouise Button *(First class) Alexandra Connolly Ruan Francois De Wet (First class) Carla Jacquelyn Du Toit (First class) Laura Kristina Figenschou Mark Anthony Fitzgibbon *Mark Alexander Swindale Hodgson *Kim-Kelly Hunt Kakale Munamati *Alexis Marchel Osborne *(First class) Kylie Pires Kervin Deveshwar Prayag *Selwyn Roberts (First class) Sanjo Rose *(First class) Lillina Mercia Ruiters

(First class) Zaynab Shaik (First class) Claire Pauline Tucker *(First class) Gemma Chisomo Walker In Chemistry: Colyn Jon Bourhill Luyanda Centani *Ayabulela Delo Reabetswe Robin Dube Arno Duvenhage Nolwazi Zakithi Gewensa Zakiena Hoossen (First class) Hannah Victoria Knight *(First class) Maja Fredrika Clarisse Morsing Jessica Lise Nel Consolata Nsanzimpaka Nsanzubuhoro *(First class) Nicole Inge Richardson Aminah Rujub In Computer Science: (First class) Samuel Michael Alfred Luke Kingslev Bell *(First class) Alan Steven Berman *(First class) Bryce Richard Billing (First class) Alon Bresler (First class) Calvin Lloyd Brizzi (First class) Joshua Ryan Buchalter Nicholas Cheng *Takunda Blessing Chirema *(First class) Jeremy Luke Coupland *Kieren Paul Davies *(First class) Joshua Luca Di Bona (First class) Charles Fitzhenry (First class) James Peter Foster *Jacob Fionn Goldberg (First class) Daniel Anthony Grindlay *(First class) Timothy David Gwynn *(First class) Maximilian Karl Alfred Hahn (First class) Jacques Jean Heunis Mohamed Tanweer Khatieb Ross David Kohler (First class) Michael John Kyeyune *(First class) William Lumala Tumelo Eugene Makgaka Mulalo Michael Matoro (First class) Shaun William Maxwell (First class) Brian Kyle Mc George

- (First class) Brian Kyle Mc George (First class) Jethro Kendal Muller (First class) Mitch Lee Myburgh (First class) Darryn Papathanasiou *(First class) Aashiq Mohammed Parker (First class) Muhummad Yunus Patel
- *(First class) Michael John Pepper
- (First class) Andries Ruben Putter
- *Jonathan Nicolaas Schoeman
- *Osher Rael Shuman
- Darren Rael Silke

(First class) Marcel Teixeira (First class) Andreas Joachim Von Holy *Matthew Williams (First class) Thandile Xiphu *Ntokozo Phillip Zwane

In Environmental & Geographical Science. (First class) Quraisha Bux Saydrina Ann Govender *Claire Louise Holton *Sarlotte Tulonga Kalenga *Astridah Kasongo Lupiya Boipelo Tswelopele Madonsela Macheba Lucia Mokubedi *(In the first class) Ella-Kari Muhl Jody Tahnee Steyn *(In the first class) Lara Daniella Tenderini *Kelsey Woor In Geology: *Aaron Adler *(First class) Nonkululeko Buthelezi *T'Nielle Haupt *Lunga Ongama Mapekula Nomfundo Mkhize *Moises Jacinto Moises Goitsemang Welcome Molatlhegi *George Tebogo Mosito *Sarah Francis Pein Katlego Ramahala *Koketso Providence Shadi *Hlanganani Mthembeni Shange *Jessica Johanna Von Der Meden In Information Technology: *Bongani Victor Dube (First class) Carla Nicole Kirk-Cohen *Nhlakanipho Siphesihle Madonda Saleem Ahmed Manjoo *(First class) Nabeel Parker (First class) Laurisha Rampersad *Meinolf Makamba Simbenda In Marine Biology: *(First class) Thomas Petrus Botha Jackson Willy Dando *(First class) James Andrew De Haast (First class) Michael James Fleischman Joshua Paul Hendricks *Amy Leigh Mackintosh *(First class) Donia Hela Wozniak

In Mathematics: *Khadija Brey (First class) Satchen Nicholas Gurney Gush

*(First class) Matthew Pfeifer (First class) Simon Walter Rigby (First class) Robert Andrew Spencer (First class) Sarah Rose Taylor In Molecular & Cell Biology: Ayesha Adams David Oluwafikayo Adebolajo (First class) Jay-Dee Leigh Atkins *(First class) Jamie Connor Attenborough *(First class) Kara-Lee Aves (First class) Nina-Courtney Esterhuysen Raabieah Gamieldien (First class) Patrick Luke Hannan (First class) Michael Kuipa Luqmaan Mohamed Naadirah Ismail Moola Candice Mortlock Linda Portia Mtwana Siphumelele Nomfundo Ndlovu Jarid Tyran North *Jessica Diane Proctor Yamkela Qumbelo (First class) Trinity Danielle Rudner *Belinda Heidi Schmidt Stefano Sella-Rolando Denzhe Singo *Deborah Stanbridge *Alessandra Unterpertinger Shannon-Leigh Valentine *(First class) Matthew James Robert Verbeek In Ocean & Atmosphere Science: Mogammad Ighsaan Allie *(First class) Chloe Frances Blyth *(First class) Jessica Mary Burger *Matthew Rhodes Collins (First class) Ehlke De Jong Wade Matthew De Kock *(First class) Raquel Francesca Flynn (First class) Heather Jean Forrer (First class) Casey Tara Lyttle Precious Thembumuzi Mahlalela Mathabo Noxolo Malange *Monique Marais *(First class) Tanya Anne Marshall Sbongile Prudence Meyiwa Tania Moyikwa Cristina Serena Russo

*Tianyu Lin

In Physics:

(First class) Kevin Nicholas Barends *(First class) Robert Hambrock

Nuraan Majiet

Lizelle Niit (First class) Lance Stirling Oom

In Statistics: *(First class) Nathaniel Joselson

DEGREE OF MASTER OF PHILOSOPHY

In Archaeology: Robert Tendai Nyamushosho

In Environment, Society & Sustainability: Sarah Shana Duncan

DEGREE OF MASTER OF SCIENCE

In Applied Marine Science: *Nwabisa Victress Malongweni Imke Meyer *Adam James Victor St Clair-Hughes

In Applied Mathematics: *Kai Staats

In Astronomy: Julia Lynn Healy

In Chemistry: *Kirstin Philippa Candice Anderson

In Climate Change & Development: Alexa Thoris Brown *Katherine Smit

In Computer Science: *(With distinction) Jonathan Dominique van Belle

In Decision Sciences & Analytics: *Zubair Patel *(With distinction) Thomas James Walwyn

In Environmental & Geographical Science: *Mankurwana Hellen Mahlase

In Geology: *(With distinction) Tristan James Stuck

In Mathematics: Natasha Therese Demetriou

In Mathematical Sciences: *Cebisile Innocentia Mthabela *Ndivhuwo Millicent Mudzudzanyi *Vhahangwele Cedrick Ramuada

In Ocean & Climate Science: *Kirrin Gail Reid

In Physics: *Claire Barbara van den Berg

DEGREE OF DOCTOR OF PHILOSOPHY

In Applied Mathematics: Victor George Hess Thesis Title: Three-dimensional mathematical model of a high temperature polymer electrolyte membrane fuel cell.

Victor Hess completed his BSc, BSc(Hons) and MSc qualifications at the University of the Western Cape and began part-time study towards his PhD at UCT in 2012.

Victor Hess's thesis reports the development of a three-dimensional mathematical model with numerical simulations of a high temperature proton exchange membrane fuel cell. The model accounts for convective and diffusive gas flows, electrochemical reactions and the flow of charge and heat in polymer electrolyte fuel cells. The micro level length and time scales of the different transport phenomena inside a fuel cell make it extremely difficult to make observations through experimental means. Thus, the model clearly demonstrates the causes of voltage losses, the role of cell geometry and the inter-related nature of input parameters on overall cell performance. It can therefore be suitably applied as an optimization tool in high temperature PEM fuel cell design.

Supervisor: Dr H Laurie (Mathematics)

*Justine Alecia Tarrant Thesis Title: Searching for self-duality in non-maximally supersymmetric backgrounds

Justine Tarrant obtained her BSc(Hons) from the University of the Witwatersrand. She then completed an internship funded by the National Institute of Theoretical Physics at the University of Kwazulu-Natal. After finishing her MSc in String Theory at Wits, she took up a position at UCT as a PhD fellow in the Department of Mathematics and Applied Mathematics. For her doctoral research in Mathematical Physics, Justine Tarrant takes on a peculiar aspect of the integrability structure of the newly-discovered connection between string theory in a 4-dimensional anti-de-Sitter geometry and a quasi-topological quantum field theory living on its 3-dimensional boundary. In particular, she investigates the conjectured connection between integrability and T-duality, a hallmark symmetry of string theory, proving the conjecture true for a class of AdS2 and AdS3 geometries and in so doing adding one more piece to the grand puzzle of our attempt to understand the quantum nature of gravity.

Supervisor: Associate Professor J Murugan (Mathematics and Applied Mathematics) Co-supervisor: Dr J Shock (Mathematics and Applied Mathematics) In Archaeology Abigail Joy Moffett Thesis Title: 'Phalaborwa, where the hammer is heard': crafting together the political economy of Iron Age communities in southern Africa, AD 900-1900

Abigail Moffett has a BA in History and Archaeology and an honours in Archaeology from UCT. In 2012 she registered for an MA in Archaeology and subsequently upgraded her degree to a PhD.

Abigail Moffett's PhD research focused on addressing the political economy of Iron Age communities in southern Africa through a study of a metal production site in Phalaborwa. She undertook archaeological fieldwork at the site of Shankare, located adjacent to the pre-colonial copper mine of Lolwe Hill in Phalaborwa. This was complemented with historical and archival studies of metal production in the 18th and 19th century in Phalaborwa. Her research indicates that metal producers in Phalaborwa in both the historical period and the early second millennium AD were independent community producers, who exchanged copper and iron for a wide variety of items from both local and international exchange networks. This study of producers in Phalaborwa provides insight into the organisation of metal production, the identity of producers and the context of Phalaborwa in the regional political economy. It further contributes towards refining our understanding of power structures and the associated control over economic resources in the past.

Supervisor: Associate Professor S Chirikure (Archaeology) Co-supervisor: Associate Professor S Hall (Archaeology) In Astronomy: *Laure Catala Thesis Title: Characterization of the atmospheric turbulence at the Sutherland site and conceptual design study and optimization of an adaptive optics system for the Southern African Large Telescope

Laure Catala has a BSc from the University Paul Sabatier, Toulouse (France), a BSc(Hons) from UCT and an MSc from the University of Nice Sophia Antipolis (UNS, France). Her doctoral work was carried out at both UCT and at the South African Astronomical Observatory (SAAO) and in collaboration with a team at UNS.

Laure Catala's thesis aims to characterise the optical atmospheric turbulence at Sutherland. This turbulence affects the image quality of a telescope. Its knowledge is important to astronomers for planning and evaluating the data quality of an observation. She also participated in the development of a new instrument delivering high altitude-resolution profiles of the turbulence. Recent technology, called adaptive optics (AO), allows researchers to compensate for the image distortion. In order to evaluate the potential of AO on the Southern African Large Telescope (SALT), she carried out a concept design study via simulations. The goal was to assess the general performance gains that an AO system could deliver on SALT. The system she deployed in Sutherland for measuring turbulence regularly supports the nightly observations of 12 different facilities at the Sutherland site, and her simulations for an AO system will be critical for the future design of instruments on the Southern African Large Telescope.

Supervisor: Professor PA Whitelock (Astronomy)

Co-supervisors: Dr DAH Buckley (South African Astronomical Observatory); Dr SM Crawford (South African Astronomical Observatory)

In Chemistry: Merrill Margaret Wicht Thesis Title: Werner clathrates: structure and selectivity

Merrill Wicht completed an honours degree in Chemistry at the University of Port Elizabeth. She is currently a senior lecturer at the Cape Peninsula University of Technology, where she was awarded the degree of Master of Technology in Chemistry.

Merrill Wicht's doctoral thesis deals with the synthesis and characterisation of a series of inorganic coordination compounds known as Werner clathrates. These have the property of capturing aromatic molecules from hydrocarbons, and can be synthesised to react selectively in order to separate targeted compounds from a mixture. She studied the reactivity of her compounds by performing experiments in solution, by solid-solid reaction, and by solid-vapour methods. Her work has been exhibited at the International Symposium on Inclusion Compounds held in Warsaw, Poland in 2015 and at the European Crystallographic Meeting in Rovinj, Croatia. Merrill Wicht's research work has developed useful inorganic compounds with mixed ligands and has thus opened a novel avenue in the field of selectivity separation of hydrocarbons.

Supervisor: Professor LR Nassimbeni (Chemistry) Co-supervisor: Dr NB Báthori (Chemistry, Cape Peninsula University of Technology)

In Environmental and Geographical Science:

Hussen Seid Endris

Thesis Title: Assessing the representation of teleconnective drivers of rainfall over Eastern Africa in global and regional climate models and projected future changes

Hussen Endris has a BSc in Meteorology from Arba Minch University, Ethiopia, and a Postgraduate Diploma in Earth System Physics from the International Centre for Theoretical Physics (ICTP), Italy.

Hussen Endris' thesis emerged as a result of his strong background and interest in atmospheric science. Climate variability is an important characteristic of the East African regional climate, and subject to significant control from remote teleconnections. His thesis examines the ability of global and regional climate models to reproduce the teleconnection forcing by tropical sea surface temperatures on rainfall over East Africa and investigates whether or not the present teleconnection patterns and magnitudes persist in the future under increased greenhouse gas scenarios. Quantifying the capacity of climate models to represent teleconnective controls of regional climate is vital for assessing model-based representation of climate variability, for understanding uncertainty in climate projections, and for model development. His work demonstrates that regional models adequately capture teleconnection forcings when forced by observed data and important changes in the magnitude of projected teleconnection forcing are found. However, if forced by global models that do not capture teleconnection forcings, the regional models inherit this deficiency to produce rainfall results similar to the global model.

Supervisor: Professor B Hewitson (Environmental and Geographical Science) Co-supervisor: Dr C Lennard (Environmental and Geographical Science) In Ocean & Atmosphere Science: *Beenesh Anand Motah Thesis Title: Environmental influences on tuna movement patterns in the Indian Ocean

Beenesh Motah obtained a BSc(Hons) in Physics with Environmental Science at the University of Mauritius. He started work as a trainee at the Mauritius Oceanography Institute, before being given study leave to spend three years at UCT as a PhD student. He completed his thesis while working full-time as a research scientist at the same Institute.

Beenesh Motah's doctoral research focuses on the behaviour of three species of tuna in the Indian Ocean and the influence of environmental factors based on fish tagging recoveries and satellite remote sensing of ocean currents, temperature and plankton concentrations. His results show that tuna migrations are seasonal and influenced by El Nino events that in turn affect the plankton productivity in different parts of the Indian Ocean. Tunas found under Fish Aggregating Devices behave differently from those that swim in free schools and their locations can be modelled by combining ocean current models with tuna swimming speeds.

Supervisor: Professor JG Field (Oceanography) Co-supervisors: Dr F Marsac (IRD, France); Dr D Gaertner (IRD, France)

HISTORICAL SKETCH

Founded as the South African College (a boys' school that aimed to provide higher education as well) in 1829, the University was established as the University of Cape Town in 1918.

The early history was one of great expectations and hard times and it was not until the early years of the twentieth century that the University was developed into a fully-fledged tertiary institution. A significant and pioneering development in the 19th century was the admission of women as degree students in 1886, many years ahead of most universities in the world.

At the start of the 20th century the University incorporated the Diocesan College, the teacher training classes of the Normal College, the South African College of Music and the Cape Town Schools of Fine Art and Architecture.

The Medical School was established and in the 1920s the University began a partnership with the local health authority (now the Provincial Government's health department) that saw the Medical School move from the Hiddingh Campus and the Green Point Somerset Hospital to Observatory (the rest of UCT's Upper Campus moved from Hiddingh to its present site, on part of Cecil Rhodes' estate, in 1928). This partnership allowed for the construction of the first Groote Schuur Hospital on a University site. The partnership continues to this day and now involves not only Groote Schuur as a teaching hospital but Red Cross Children's Hospital, Valkenberg and a growing number of primary health care sites.

The period between the end of World War II and 1994 was marked by two themes. Firstly, the University recognised that if it was to be fully South African, it would have to move beyond academic non-segregation to be fully inclusive. It would have to face the consequential and increasing clashes with a government determined to legislate for segregation and enforce the doctrine of apartheid. And secondly, the University intended to transform into a leading research institution.

Before World War II, the University was largely a teaching university and its students were mostly undergraduates. The research undertaken was sporadic, though in some cases notable. A research committee was appointed for the first time in 1945. The next 75 years saw a great expansion of research and scholarly work such that the UCT of 2014 has a greater proportion of highly rated researchers and gains significantly more research grants and awards than any other South African University.

The 1980s and 1990s were characterized by the deliberate and planned transformation of the student body. This was aided by the establishment of the Academic Development Programme aimed at helping students from disadvantaged educational and social backgrounds to succeed and the desegregation of student residences. As a result, a student body that was 90% white in 1979, when UCT marked its 150th anniversary, is in 2014 more than 50% black. The total student enrolment of just above 26 000, includes international students drawn from over 100 countries, a significant proportion of which are from SADC states. Particular emphasis is placed on postgraduate studies and more than 20% of these students will be enrolled in master's and doctoral programmes. A growing number of postdoctoral fellows contribute substantially to the research endeavours and reputation of the University (UCT has more than a third of the total number of post docs in South Africa).

UCT continues to work towards its goal to be Africa's leading research university. Its success can be measured by the scope of study it offers and the calibre of its graduates.

ACADEMIC DRESS

OFFICERS OF THE UNIVERSITY

CHANCELLOR

The Chancellor wears a gown made from dark blue silk. The front of the gown has facings down each side made of dark blue velvet embroidered with a gold floral design. The gown and sleeves are lined with pale blue silk and the sleeves are looped up in front with a gold cord and button. The yoke of the gown is edged with gold cord. The gown is worn with a square blue velvet hat with a soft crown and gold tassel.

VICE-CHANCELLOR

The Vice-Chancellor wears a gown made from bright blue silk. The front of the gown has facings down each side and sleeve-linings of pale blue silk. The sleeves are looped up in front with a gold cord and button and the yoke of the gown is edged with gold cord. The gown is worn with a black velvet bonnet with a silver cord.

DEPUTY VICE-CHANCELLOR

A Deputy Vice-Chancellor wears a gown made from dark blue silk. The gown has closed sleeves with an inverted T-shaped opening at the level of the elbow to free the arms. The front of the gown has facings of light blue down each side. The sleeves are lined with light blue and the yoke of the gown is edged with silver cord. The gown is worn with a black velvet bonnet with a silver cord.

CHAIR OF COUNCIL

The Chair of Council wears a gown, of the same pattern as that worn by the Vice-Chancellor, made from light blue silk. The front of the gown has facings down each side and a yoke of dark blue. The sleeves are lined with dark blue and the facings and yoke are trimmed with gold cord. The sleeves are looped up in front with a gold cord and button. The gown is worn with a black velvet bonnet with a gold tassel.

MEMBERS OF COUNCIL

Members of Council wear graduate-pattern gowns made from black silk. The front of the gown has 10cm wide, light blue facings down each side trimmed with dark blue cord. The gown is worn with a black velvet bonnet with a blue cord.

REGISTRAR

The Registrar wears a gown made from black silk. The front of the gown has 10cm wide facings of blue silk down each side. The gown is worn with a black velvet bonnet with a white cord.

PRESIDENT OF CONVOCATION

The President of Convocation wears a gown made from black silk and has long closed sleeves with an inverted T-shaped opening at the level of the elbow to free the arms. The front of the gown has facings down each side and sleeves of blue silk. The gown is worn with a black velvet bonnet with a blue tassel.

ACADEMIC DRESS (continued)

GOWNS

A plain black gown styled after the pattern of the Oxford scholar's gown is worn by diplomats, and Bachelor's, Honours and Master's graduands. Senior doctoral graduands wear a scarlet gown, with facings the colour distinctive of the faculty in which the degree is awarded. PhD graduands wear a scarlet gown without facings.

HOODS

The hood is particular to the qualification and the faculty. Diplomates and Bachelor's graduands wear a black hood lined with white and edged with the colour distinctive of the faculty. Master's graduands wear a black hood lined with the colour distinctive of the faculty and edged with white, except in the case of the hood for the MMed degree, which is edged with red. Senior doctoral graduands wear a hood of the colour distinctive of the faculty and a black velvet bonnet with a cord of the colour distinctive of the faculty in which the degrees is awarded. PhD graduands wear a hood of scarlet lined with black and a black velvet bonnet with a cord of the colour distinctive of the faculty in which the degree is awarded.

DISTINCTIVE COLOURS

Faculty of Commerce	Yellow
Faculty of Engineering and the Built Environment	Green
Faculty of Health Sciences	Red
Faculty of Law	Old gold
Faculty of Humanities	Blue
Faculty of Science	Purple

MISSION STATEMENT OF THE UNIVERSITY OF CAPE TOWN

UCT aspires to become a premier academic meeting point between South Africa, the rest of Africa and the world. Taking advantage of expanding global networks and our distinct vantage point in Africa, we are committed, through innovative research and scholarship, to grapple with the key issues of our natural and social worlds. We aim to produce graduates whose qualifications are internationally recognised and locally applicable, underpinned by values of engaged citizenship and social justice. UCT will promote diversity and transformation within our institution and beyond, including growing the next generation of academics.

Foundation statement underpinning the mission statement Our research-led identity is shaped by a commitment to:

- academic freedom as the prerequisite to fostering intellectual debate and free injury;
- ensuring that research informs all our activities including teaching, learning and service to the community;
- advancing and disseminating knowledge that addresses the key challenges facing society South African,
- continental and global;
- protecting "curiosity driven" research;
- nurturing and valuing creativity in the sciences and arts including the performing and creative arts;
- stimulating international linkages of researchers and research groupings.

We strive to provide a superior quality educational experience for undergraduate and postgraduate students through:

- providing an intellectually and socially stimulating environment;
- inspired and dedicated teaching and learning;
- exposure to the excitement of creating new knowledge;
- stimulating the love of life-long learning;
- the cultivation of competencies for global citizenship;
- supporting programmes that stimulate the social consciousness of students;
- offering access to courses outside the conventional curricula;
- attracting a culturally and internationally diverse community of scholars;
- guaranteeing internationally competitive qualifications;
- offering a rich array of social, cultural, sporting and leadership opportunities;
- providing an enabling physical and operational environment.

In advancing UCT as an Afropolitan university, we will:

- expand our expertise on Africa and offer it to the world;
- extend our networks on the continent, along with our global connections and partnerships;
- promote student and staff exchanges and collaborative research and postgraduate programmes;
- engage critically with Africa's intellectuals and world views in teaching and research;
- contribute to strengthening higher education on our continent.

We strive to provide an environment for our diverse student and staff community that:

- promotes a more equitable and non-racial society;
- supports redress in regard to past injustices;
- is affirming and inclusive of all staff and students and promotes diversity in demographics, skills and backgrounds;
- offers individual development opportunities to all staff;
- is welcoming as a meeting space for scholars from Africa and around the world.

THE UNIVERSITY OF CAPE TOWN DONOR ROLL

The University of Cape Town gratefully acknowledges the sustained contributions of the following partners. Their generosity has assisted us toward our goals of improving student access to tertiary education and promoting curriculum, staff and student transformation; increasing our research capacity; and implementing programmes that promote social engagement and community upliftment.

FOUNDATIONS, CORPORATES AND TRUSTS

Platinum Circle

Foundations, Trusts, Corporates that have made donations to UCT totaling R50 million and above (alphabetically)

The Andrew W Mellon Foundation The Atlantic Philanthropies (Bermuda) Ltd The Bertha Foundation Carnegie Corporation of New York Claude Leon Foundation The Ford Foundation USA The Harry Crossley Foundation Hasso Plattner Foerderstiftung, gGmbH The MasterCard Foundation The Rockefeller Foundation

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2340 organisations who have generously shown their support by making a gift to the University of Cape Town.

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Note:

As of January 2015, the levels of individual donors' giving circles have changed as follows:

- Chancellor's circle: formerly R250 000+, now R500 000+;
- Vice-Chancellor's Circle: formerly R100 000 R250 000, now R250 000 R500 000;
- Dean's circle: formerly R60 000 R100 000, now R100 000 R250 000;
- Friends of UCT: formerly <R60,000, now <R100,000.

Please note that these changes only affect donations received after 1 January 2015. All donors who were members of particular circles prior to January 2015, will continue to be recognised in their original circles, until the rolling five-year giving period has elapsed.

We apologize for any omissions or errors. If you would like to query your donations totals, circle membership, or any other matter related to your gifts to UCT, please email <u>giving@uct.ac.za.</u>

A full list of UCT donors is also available at www.uct.ac.za/dad/giving/donor_recognition.

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Chair of Council Sipho Mila Pityana, BA *Essex* MSc *London* DTech(hc) *VUT*

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Welcome, Wamkelekile, Welkom – today is not the end of your relationship with the university but the beginning of a new phase in your continuing relationship with UCT, one that you share with the UCT community of over 100 000 alumni.
Diverse as this community is, the shared experiences of a critical academic ethos and a spectacular campus make for a strong network that has a wide footprint, not only in South Africa, but across the continent and the globe.

We set a great store by our links with our alumni, and indeed the links alumni have with each other. We promise that we will be in touch, and ask you in turn to let us know not only your current contact details but also, from time to time, something of your lives and where you are in your careers.

Updates can be done on the web – <u>http://www.uct.ac.za/dad/alumni/update/</u> - or by writing to the Alumni Office, UCT, PB X3 Rondebosch 7701 or by contacting us on (27) (21) 650 3746.

Your alma mater looks forward to welcoming you back, whether to a public lecture, a leadership forum, your class reunion, or just an informal call!