FACULTY OF SCIENCE (CEREMONY 2)

CONTENTS

Order of Proceedings	2
Mannenberg	3
The National Anthem	4
Distinctions in the Faculty of Science	5
Distinguished Teacher Award	6-7
Graduands (includes 23 December 2015 qualifiers)	8
Academic Dress	18-19
Historical Sketch	20
Mission Statement of the University of Cape Town	21
Donor Acknowledgements	22
Officers of the University	27
Alumni Welcome	28

FACULTY OF SCIENCE (CEREMONY 2)

ORDER OF PROCEEDINGS

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

The Vice-Chancellor 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 Deputy Vice-Chancellor, Professor D Visser.

Professor Visser will present the Distinguished Teacher Award to Adam West.

Professor Visser will invite Max Price to address the congregation.

Address by Max Price.

The graduands will be presented to the Vice-Chancellor by the Dean of the Faculty of Science.

The Vice-Chancellor will congratulate the new graduates and diplomates.

Professor Visser will make closing announcements and invite the congregation to stand.

The Vice-Chancellor will dissolve the congregation.

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

MANNENBERG

The musical piece for the processional march is *Mannenberg*, composed by Abdullah Ibrahim.

Recorded with Basil 'Manenberg' Coetzee, Paul Michaels, Robbie Jansen, Morris Goldberg and Monty Weber, *Mannenberg* was released in June 1974.

The piece was composed against the backdrop of the District Six forced removals. It is named after the Cape Town township of Manenberg, which was established when the residents of District Six settled there. *Mannenberg* stands out as a uniquely South African piece: it blends together South African musical forms (*marabi*, *mbaqanga* and *langarm*) and American jazz. The song became a rallying cry against the injustices of apartheid and the particular destruction it wrought on communities. With its upbeat melodies and buoyant hook, the piece also serves a celebration of the resilience and endurance of humanity in the face of the brutalities of the apartheid regime.

Mannenberg is arguably South African jazz's most famous export, and still stands as an anthem of hope and of fortitude for oppressed communities. It also serves as a reminder of the inhumanity of what this country and this city endured, and of the legacies of that inhumanity.

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)

The following member of the Faculty of Commerce has been chosen for this award in 2015:

Dr Adam Gerard West Department of Biological Sciences

Despite only having been a lecturer in the Department of Biological Sciences since 2010, Adam West's performance and achievements in that short period have been nothing short of outstanding, and nothing short of distinguished. His course evaluations paint a picture of a beloved, respected and extraordinary teacher and partner-in-learning. Students reflect that he is: "engaging", "passionate", "inspirational", "approachable", and "personally invested" and that his classes are "stimulating", "relevant", "effective", and "fun". Often unnoticed or unappreciated, Adam's course convening is routinely praised and acknowledged by students and colleagues. He also plays an active role in developing the curriculum and leading new and innovative approaches to teaching and learning. Despite often teaching difficult course modules, Adam has consistently received the highest student evaluations. More outstanding is that these evaluations have been constantly improving over the past five years, to the point that Adam now boasts an exceptional 94.1% average across all his undergraduate courses and years of teaching.

He describes his teaching philosophy with a quote from 19th century scientific lecturer, Michael Faraday, that reads "The most prominent requisite to a lecturer, though perhaps not really the most important, is a good delivery; for though to all true philosophers, science and nature will have charms innumerable in every dress, yet I am sorry to

DISTINGUISHED TEACHER AWARD (continued)

say that the generality of mankind cannot accompany us one short hour unless the path is strewed with flowers." Adam shapes his teaching to this reflection, ensuring that students are engaged, delivery of content is tailored to their and his needs and expectations, and that the content is relevant and worthwhile. Adam reflects that the present day is a fundamentally different time to Faraday's and seeks to balance the wisdom of those words, with a heightened conscience of the specific challenges and *opportunities* facing students, researchers and academics in the 21st century. He ensures that courses and supervision are tailored to this goal incorporating modern techniques and technology, and has exceptional results to show for it, with outstanding teaching and supervision results at honours, master's and doctoral level.

What makes Adam unique is that he understands that the key to teaching lies with engagement, not merely attendance. His approach turns his teaching environment into a space for critical thinking, constructive debate and engagement. He influences students to look and think deeper than what's written on lecture slides and in textbooks, and to seek critical engagement with complex issues, interrogate rapidly changing world views, and achieve personal growth and development.

A third year student comments the following: "Adam West has done so much more than teach me about plants, he has changed my entire university experience from being a few years that I need to persevere through in order to get a job, to being a space of engagement and personal development that I will cherish dearly as having redefined the way I interpret the world".

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

Clare Meghan Acheson *Simon Petrus Ackermann Ayesha Adams *Samuel Michael Alfred (with distinction in Computer Science, Computer Games Development and the degree with distinction) Mogammad Ighsaan Allie Caylyn Anthonie Jordan Apperley (with distinction in Biochemistry, Genetics and the degree with distinction) Nicole Kristin Arendse (with distinction in Biochemistry, Genetics and the degree with distinction) Jay-Dee Leigh Atkins Jamie Connor Attenborough (with distinction in Biochemistry. Genetics and the degree with distinction) Kara-Lee Aves (with distinction in Biochemistry, Genetics and the degree with distinction) Malibuye Bacela Kelly Barrow *Rebecca Louise Berg Alan Steven Berman (with distinction in Spanish and the degree with distinction) *Joel Michael Berman Ntombikayise Precious Bhengu Bryce Richard Billing (with distinction in Computer Games Development and the degree with distinction)

Kerry-Lee Nicole Black Chloe Frances Blyth (with distinction in Marine Biology and Ocean & Atmosphere Science) *Mishak Boshoff Thomas Petrus Arnoldus Botha (with distinction in Applied Biology, Marine Biology and the degree with distinction) Colyn Jon Bourhill Alon Bresler René Brink *Calvin Lloyd Brizzi (with distinction in Computer Science and the degree with distinction) Amy Samantha Bruce *Callum Leigh Bugler Amy Burger Jessica Mary Burger (with distinction in Marine Biology, Ocean & Atmosphere Science and the degree with distinction) Nonkululeko Buthelezi (with distinction in Chemistry) Rio Elouise Button (with distinction in Marine Biology) Quraisha Bux *Robin David Campbell Mohamed Carrim Nicola Kathleen Cathcart *Temwani Chalwa *Nicholas Cheng Vimbaishe Patricia Chibanga (with distinction in Biochemistry, Human Anatomy & Physiology, and the degree with distinction) Ishmael Chikoo Ntombi-Zanele Chinyanta Tholang Rebecca Chonelanga Marumo Florah Chuene Varaidzo Amanda Churu *Matthew Rhodes Collins *Micayla Grace Colman Alexandra Connolly Jeremy Luke Coupland Jackson Willy Dando Marcelo Edgar Dauane (with distinction in Business Computing and Computer Science) *Megan Jean Davidson

Jonathan Pieter De Bruijn James Andrew De Haast *Ehlke De Jong (with distinction in Ocean & Atmosphere Science) *Wade Matthew de Kock Siphokazi Depa Ruan Francois de Wet Joshua Luca Di Bona Matthew James Dickie *Byron John Donaldson Khwezi Duba Reabetsoe Robin Dube *Carla Jacquelyn du Toit Arno Duvenhage Kevin Elliott (with distinction in Computer Science, Economic History and the degree with distinction) Daniella Theony Emdin *Nina-Courtney Esterhuysen (with distinction in Genetics and the degree with distinction) Nin Xing Fang *Sarah Kate Fenton *Isabella Anna Theresa Markham Ferreira Laura Kristina Figenschou (with distinction in Applied Biology) Mark Anthony Fitzgibbon Charles Alvern Fitzhenry Michael James Fleischman (with distinction in Marine Biology) Dean Matthew Floor Raquel Francesca Flynn Heather Jean Forrer (with distinction in Marine Biology and Ocean & Atmosphere Science) Alicia Candes Fortuin James Peter Foster Zakhele Eugene Gamede *Raabieah Gamieldien *Clare Elaine Dorothea Garrard Amber Marie Gatley-Dewing (with distinction in Biochemistry and Human Anatomy & Physiology) Nolwazi Zakithi Gcwensa Alexandra Sharon Glover *Jacob Fionn Goldberg Saydrina Ann Govender Daniel Anthony Grindlay (with distinction in Computer Science)

*Timothy David Gwynn (with distinction in Computer Games Development) Maximilian Karl Alfred Hahn Patrick Luke Hannan (with distinction in Biochemistry) *Lindsay Hardie Mashkur Luqman Hassiem **T'Nielle Haupt** Kiara - Avelyen Haylock (with distinction in Applied Biology, Ecology & Evolution, Marine Biology and the degree with distinction) Joshua Paul Hendricks Mark Alexander Swindale Hodgson Claire Louise Holton (with distinction in Environmental & Geographical Science) *Kim-Kelly Hunt *Kinza Hussain Alison Diane Hutton Brittany-Amber Jacobs (with distinction in Genetics, Human Anatomy & Physiology and the degree with distinction) *Kyle Dean Jacobs **Roscoe Duane Jampies** Amelie Simone Johnston (with distinction in Biochemistry) Jennifer Lee Judd Natalie Chido Kawondera Mohamed Tanweer Khatieb Kayla Marion Killian *Hannah Victoria Knight Samantha Rae Knobel *Jacques Alan Kovacs Katherine Ruth Kriegler *Michael Kuipa (with distinction in Biochemistry, Genetics and the degree with distinction) Michael John Kyeyune (with distinction in Business Computing and Computer Science) Gabrielle Paige Lait (with distinction in Human Anatomy & Physiology) Keenan Lorenzo Lawrence Jenna-Leigh Le Mottee Erin Grace Lotz *William Lumala

*Casey Tara Lyttle (with distinction in Ocean & Atmosphere Science) Fhatuwani Mabila Amanda Mabinza Amy Leigh Mackintosh Boipelo Tswelopele Madonsela (with distinction in Ocean & Atmosphere Science) Thandi Elsie Magwai Precious Thembumuzi Mahlalela Tumelo Maja *Simangaliso Armstrong Makalima Nosipho Monica Makasi Tumelo Eugene Makgaka Mathabo Noxolo Malange (with distinction in Ocean & Atmosphere Science) Daniela Julia Malin (with distinction in Biochemistry, Genetics, Hebrew Language & Literature and the degree with distinction) *Zaria Phindile Malindi *Saleem Ahmed Manjoo Lunga Ongama Mapekula Lungile Odwa Mapekula Monique Marais *Tanya Marshall (with distinction in Ocean & Atmosphere Science) Nicola Micaela Martins *Kopano Valerie Masete Kgopelo Matlala Khumo Matlhoko Mulalo Michael Matoro Frances Mari Gouws Mattes Shaun William Maxwell *Sinenhlanhla Sifiso Mazibuko Nkosinathi Mbali Toni Mccann (with distinction in Human Anatomy & Physiology) Jessica Claire Mc Cormack Brian Kyle Mc George (with distinction in Computer Science, Computer Games Development and the degree with distinction) *Stuart William McRoberts *Tanna Michel Nomfundo Mkhize Fortunate Mogane *Luqmaan Mohamed Likeleko Mapaballo Annacletta Mohata Moises Jacinto Moises

Stephen Matlhotlhapelo Mokhua Tebogo Rosah Mokwena Goitsemang Welcome Molatlhegi Naadirah Ismail Moola Robin John Matthew Moonieya *Hugh Christian Baird Morris *Maja Fredrika Clarisse Morsing (with distinction in Chemistry and the degree with distinction) Candice Mortlock Rethabile Emmanuel Moshesha George Tebogo Mosito Tania Moyikwa Maryanne Sophia Mufford (with distinction in Genetics) *Jethro Kendal Muller *Neelakshi Mungra *Wadzanai Muramba Amal Musbally *Musemo Mweemba Stephanie Maria Ncube Jessica Lise Nel Xitshembiso Ngobeni Ntokozo Wendy Ngubane Sandisiwe Zelda Noholoza *Jarid Tyran North Zanele Nzima Mitchell Vincent Obermeyer *Dominic Sebastian Obojkovits Jacob Schmidt Olivier Martin Ombura *Jessica Pack Darryn Papathanasiou Aashiq Mohammed Parker (with distinction in Computer Science) Muhummad Yunus Patel (with distinction in Computer Science, Computer Games Development and the degree with distinction) *Sarah Francis Pein Michael John Pepper Yusasha Pillay *Kylie - Pires Rebecca Rachael Popper (with distinction in Human Anatomy & Physiology) *Lauren Lindsay Powell *Kervin Deveshwar Prayag Alexandria Syrah Procter *Jessica Diane Proctor Andries Ruben Putter Katlego Ramahala *Sarah Elizabeth Reeves

Nicole Inge Richardson (with distinction in Biochemistry, Chemistry and the degree with distinction) Jessica Rose Ritten Marcel Benjamin Roodt *Stephen Rose Katherine Margaret Ross Stewart Nicholas Ian Rout *Trinity Danielle Rudner *Cristina Serena Russo (with distinction in Ocean & Atmosphere Science) Belinda Schmidt Jonathan Nicolaas Schoeman Stefano Sella-Rolando Zaynab Shaik Ndakondja Ndasindana Shilenga Osher Rael Shuman Darren Rael Silke Samukelisiwe Monabo Skosana Joshua Guy Knight Smith (with distinction in Biochemistry, Genetics and the degree with distinction) Shannon Claire Smyly (with distinction in Biochemistry, Human Anatomy & Physiology and the degree with distinction) Jody Tahnee Steyn Miqkayla Stofberg Caitlin Rosemarie Taylor *Marcel Teixeira Lara Daniella Tenderini Refilwe Phinda Thathe Kollontai Indira Tom Ellis Chipo Thressa Tsetse *Valerie Mujinga Tshiani *Claire Pauline Tucker *Alessandra Unterpertinger Kathryn Merle Van Boom Cornelia Magrietha Van Der Berg *Lise Anne van der Elst Natasha van Greunen *Matthew James Robert Verbeek Mxolisi Ntokozo Crosby Vilakazi Carl Anthony Visser Jessica Johanna Von Der Meden *Alexa May Von Geusau Andreas Joachim Von Holy (with distinction in Computer Science and Computer Games Development) Gemma Chisomo Walker

Kirsten Weyand (with distinction in Human Anatomy & Physiology) Kudzai Pius Whande *Evelyn Julia Wicksteed *Beatrix Williams Matthew Williams Courtney Angelica Wilson Kelsev Woor *Donia Hela Wozniak (with distinction in Marine Biology and Ocean & Atmosphere Science) Thandile Xiphu (with distinction in Business Computing) Alukhanyo Xonti *Valli Yantolo

DEGREE OF BACHELOR OF SCIENCE (HONOURS)

In Archaeology: *Toshika Sheshna Emrith *Nomawethu Hlazo *Ayanda Tandokazi Mdludlu

In Atmospheric Science: Michelle Jacqueline Gore (first class) *Rebekah Hughes (first class) Nokwethaba Zamanguni Makhanya Coleen Middleton (first class) Koketso Molepo Fikiswa Phelokazi Mxaka Jake William Woolfenden

In Biological Sciences: Lily Astrid Bovim *Tara Leigh Jane Cathcart Sarah Ashley Catto (first class) Tavis Andrew Dalton *Campbell Fleming (first class) *James George Hagan (first class) *Janika Liv Heyerdahl *Gabriella Ruth Michaela Leighton (first class) *Matthew Benoit Macray *Toni Olsen *Hana Petersen *David John Scott Richardson Nicola Frances Rule (first class) *Joshua Maarten van der Ploeg

In Chemistry: Christopher Kieran De Cerf Sbusisiwe Michelle Dlamini Dylan Giffard *Siphilangezwi Zama Makhathini Asanda Cleopatra Matsheku *Ryan Jonathan Miltz (first class) Nonkululeko Guguglethu Mkwanazi Diteboho Selina Ramarou Laa-iqa Rylands (first class) *Nicole Maragret Sykes Musa Tiki Alexios Ivan Vicatos (first class) Cody Williams

In Computer Science: Brendan David Ball *James Bellairs *Leonard Z Botha *Louis Frederik Buys (first class) Ngonidzashe Nicholas Choga *Jacob Hallam Clarkson (first class) Jarred de Beer (first class) David Alexander Cargill Dunn *Naeem Akbar Ganey *Mark Grivainis Yaseen Hamdulay *Dylan Conway Henderson *Jason Peter James Hlozek *Jae Hyuk Jang *Eduardo Jose Baciao Koloma Jr *Montlamedi Maikano Zachary Jared Melnick Darryl Christopher Meyer (first class) Calvin Mills *Lubabalo Nazo *Balone Ndaba *Siobhan O'Donovan (first class) Robert Mark Passmore Nicole Carin Petersen (first class) *Joshua McCance Ramsbottom *Katherine Rix Codie Beulaine Roelf *Steven Michael Williamson Rybicki (first class) *Luqmaan Salie

Lauren Christine Sanby (first class) Roslyn Audrey Sanby *David Ronald Seaward *Sunganani Silubonde *Adam Rayner Sundstrom (first class) Ion Todd *Andrew Roy van Rooyen Paul Wanjohi *Ryan Cameron Wong Chantal Yang (first class)

In Environmental & Geographical Science: *Iyaloo Taimi Akuaake *Lorna Erin Born *Emma Bronwyn Broadway (first class) Jody Frank Brown *Tanya Lauren Bruggemann Julie-Ann Mary Coppinger (first class) Matjie Lillian Maboya Heather Vimbai Mahachi Timothy Oliver Mew Lesego Pauline Molobi Odwa Ntsika Mtembu Naeemah Sadien *Ting-Ting Zhang

In Geology: *Miengah Abrahams *Travis America *Julia Rosemary Bishop Sacha Max Bruessow *Sascha Emil Dver *Jennifer Obiaderi Ehima *Bianca Alexandra Harrison (first class) *James Joseph Storr Lister *Caylee Jane Luden *Lucrecia Katlego Maboane *Silence Magagula Aquinar Tebatso Malatji *Jonathan William Martin *Justin Paul *Caroline Helyn Wood (first class)

In Information Technology: *Eugene De Beste (first class) *Victor Jabulani Kabine *Noxolo Mthimkulu (first class) In Marine Biology: Lee Angela Badenhorst *Tai Brereton Higgo (first class) *Rigardt Hoffman Mohammed Kajee *Johanna Katharina Kohler (first class) *Rebecca Barbara Mackinnon (first class) *Peter Jean Roberts Makgotso Sizakele Sibanda

In Molecular & Cell Biology: *Bianca Abrahams *Lee Cackett (first class) *Darshan Chetty *Timothy James Dennis Kim Enfield (first class) *Cornelius Jansen Gunter *Raygaanah Jacobs *Victor Michael Kalbskopf Maleshigo Komane *Leo Maritz *Grant Joseph James Mc Gowan *Jessica Lee Odendaal (first class) *Ashley Victoria Parker (first class) *James Grant Pelser (first class) Thomas Robert Sutcliffe *Riley James Traviss *Amy Louise Veenstra (first class) Varusha Pillay Veerapen

In Ocean & Atmosphere Science: *Katherine Rose Brink (first class) *Matthew David Carr (first class) *Tobin Joe Davenport *Tiffany Christen de Klerk *Mark Christopher Hague (first class) *Alice McGrath (first class) *William Middleton Ngwako Rabodiba Adam Mohale Bellinda Mashoene Monyela (first class) Dedricks Monyai Morake Manare Caroline Sejeng *Caitlin Gifford Sole (first class) *Estee Ann Vermeulen (first class) *Daniel Peter Wilson

DEGREE OF MASTER OF SCIENCE

In Applied Marine Science: Ben Brooker Craig Haley *Kevin Mikus Schmidt Tamsyn Tyler (with distinction)

In Archaeology: Michell Anne House (with distinction) Rae Marilyn Regensberg

In Biological Sciences: *Kim Martina Konings Jennifer Kim Roberts *Justin James Van Blerk Wendy Megan West

In Botany: Ntwai Abram Moiloa (with distinction) Kolisa Yola Yola Sinyanya *Jan-Adriaan Viljoen (with distinction)

In Chemistry: Siphelele Siphesihle Malaza (with distinction) Giselle Marianthi Vicatos (with distinction)

In Climate Change and Development: James Hamilton Irlam (with distinction) *Egidio Artur Alfredo Mutimba *Delfim Julio Vilissa

In Computer Science: Ammar Mohammed Abuelgasim Benjamin Vorster Hugo Harry James Long Kwegyir Macdonald Lwabona Ryan Luke Mazzolini George Gitau Ng'ethe (with distinction) *Sean Nicholas Packham Shaun George Silson In Conservation Biology: Siow Yan Jennifer Angoh *Christiaan Willem Brink (with distinction) Angela Joan Ferguson *Gabriela Schieve Fleury *Kyle John Lloyd Hermenegildo Alfredo Matimele *Penny Joan Pistorius (with distinction) Jessleena Suri Wataru Tokura (with distinction) Julia Laura Van Velden (with distinction) Elke Visser

In Zoology: *Leanne Tol

DEGREE OF MASTER OF PHILOSOPHY

In Archaeology: *Guy Robert Musson Thomas

In Climate Change & Development: Katrine Brink Claassens *Molly Scott McMahon

In Environmental & Geographical Science: Temitope Samuel Egbebiyi Robyn Leigh Lindiwe Granger *Lerato Thakholi

In Geochemistry: Camille Andrea Elisa Olianti

In Geology: Kaylan Hamel (with distinction) *Adam Moodley Francisco Edilson Moreira Paiva (with distinction)

In Information Technology: Tamindran Shunmugam

In Molecular & Cell Biology: Richard George Atkinson *Zoe Gill *Tia Lynne Hendry Jean Felistas Ntuli *Gertrud Talvik

In Ocean & Climate Science: Marc de Vos Khushboo Jhugroo Tania Carol Williams *Erika Anne Brown *Alexa Simone Prinsloo Chanel Rampartab

In Environment, Society & Sustainability: Dean Charles Harrison Jacobus Johannes Kellermann

DEGREE OF DOCTOR OF PHILOSOPHY

In Archaeology: *Ellen Jeannie Walker Thesis Title: Iron Age decorative metalwork in southern Africa: an archival study

Ellen Walker has degrees from UNISA (BA) and the University of Manchester (MSc). A jeweller and illustrator by training, her doctoral thesis emerged as a result of her interest in applying knowledge of jewellery to understanding decorative metalwork used in the Iron Age of southern Africa, spanning the last two thousand years.

Ellen Walker's thesis explores the technology and sociology of decorative metalwork used by farming communities in southern Africa from AD200 to 1900. She addresses this within a framework of ethno historical, archaeological and archival studies. In Archaeology, the lure of discovery always dictates that very few researchers consider legacy material in museums and archives as raw material for new studies. Set against this background. Ellen Walker's work demonstrated that there was continuity and change in the technology used to manufacture jewellery and decorative metalwork utilised in the Iron Age. Therefore, indigenous technologies such as metalworking were not static through time. The main conclusion is that the production and use of decorative metalwork was culturally embedded, thereby enabling archaeologists to pass comment on issues remote from the individual items such as social status, ritual and trade and exchange. The success of this project encourages fellow archaeologists to frequently use archives for new research and not to continuously generate material which is not studied.

Supervisor: A/Professor S Chirikure (Archaeology) Co-supervisor: Dr T Maggs (Archaeology) In Botany: Nicholas Wilding Thesis Title: Systematics, biogeography and morphological evolution in Entosthodon Schwägr. (Bryopsida, Funariaceae) with a revision of the genus in Africa

Nicholas Wilding holds a BSc and BSc(Hons) degree in Botany from the University of Cape Town.

Nicholas Wilding's thesis aims to increase knowledge on the evolution of a lesser known group of early land plants, the mosses, and in particular the genus Entosthodon. Through a taxonomic revision of African Entosthodon (leading to the description of six species new for science) and reconstruction of phylogenetic relationships among the species at a global scale using DNA sequences, patterns and processes in their evolutionary history are inferred. Furthermore these data permit inference of the temporal and biogeographic context of diversification in Entosthodon, as well as reconstruction of the steps involved in evolutionary reduction of sporophytes in the subfamily Funariidae.

Supervisor: Professor TJ Hedderson (Biological Sciences) In Chemistry: Muneebah Adams Thesis Title: Development of Organosilane–containing bioorganometallic compounds evaluated as antiparasitic agents against Plasmodium falciparum and Trichomonas vaginalis

Muneebah Adams obtained BSc, BSc Honours and MSc degrees from UCT. Her interest lies in the field of organometallic chemistry and how different metal complexes can be utilised for various application, including as biological agents.

Muneebah Adams' thesis aims to contribute to the continuous search for pharmacologically significant compounds which are able to circumvent the rising trend in parasite resistance to known treatments. This led her to develop organometallic compounds based on thiosemicarbazone, quinoline and benzothiazole scaffolds which further incorporates organosilane moieties and transition metal fragments into their framework. The prepared compounds were evaluated in vitro for (malaria), their antiplasmodial antitrichomonal (trichomoniasis) and cytotoxic activities, in order to identify potential compounds for pre-clinical studies. Identification of a promising compound led Muneebah to test it in a mouse model infected with rodent malaria, to determine if the compound retains its effectiveness when evaluated in a mammalian system. This thesis contributes to the knowledge of organometallic complexes and their role as potential pharmacological agents.

Supervisor: Associate Professor GS Smith (Chemistry) Co-supervisor: Professor K Chibale (Chemistry) *Andrew Richard Burgoyne Thesis Title: *Development,* synthesis and anticancer evaluation of trinuclear Platinum Group Metal organometallic complexes

Andrew Burgoyne commenced his tertiary studies at UCT and transferred to the University of Johannesburg to complete a BSc in Chemistry and Biochemistry in 2009. He then went on to obtain a BSc(Hons) and an MSc (cum laude) in Chemistry in 2010 and 2012 respectively.

Andrew Burgoyne's thesis in the field of Organometallic Chemistry and Anticancer agents involves low-valent dendritic type ligands as scaffolds for the preparation of platinum group metal containing complexes as potential anticancer agents. These compounds were then evaluated as effective antitumor agents against ovarian and esophageal cancer cells. Three series of potential antitumor agents were synthesized applying principles of Chemistry and Organometallic Chemistry. Each series exploited different functional moieties to fine-tune lipophilicity or water-solubility. Coordination of rhodium, iridium and ruthenium to prepared dendritic scaffolds resulted in the synthesis of potential antitumor agents, which were characterized by an array of analytical and spectroscopic techniques. These metal complexes were active anticancer agents. Andrew Burgoyne's thesis has contributed towards the field of Organometallic Chemistry and the development of organometallic complexes as potential anticancer agents. This thesis validates the development of new and alternative platinum group metal anticancer agents to current clinical platinum based chemotherapeutics.

Supervisor: A/Professor GS Smith (Chemistry)

*Amelia Annie Hilgart Thesis Title: *Determination of a robust metabolic barcoding model for chemotaxonomy in Aizoaceae species: expanding morphological and genetic understanding*.

Amelia Hilgart obtained her BS degree from the University of New Mexico, Albuquerque, USA.

Her thesis investigates profiles of plant whether metabolites, "fingerprints" based on data collected from plant extracts by the use of liquid chromatography, combined with mass spectrometry (LC-MS), could be used to identify plant species, or assist in their classification. Systematic collections of selected plants in the family Aizoaceae found in Paulshoek in the Kamiesberg region of Namaqualand, were carried out over a calendar year, and careful observations and measurements made of associated climate, soil and ecosystem variables. The data from LC-MS analysis were rigorously interrogated and refined by statistical techniques. Once the robustness of the chemical analytical data and their stability through seasonal and circadian rhythms had been demonstrated, a relatively simple representation of metabolite profiles, analogous to a bar code, was proposed and tested, and proved to be generally consistent with taxonomic classifications on morphological based and phylogenetic methods. Crucially, it was able, in selected instances, to challenge previous classifications based on classical methods. The work therefore establishes a firm basis for simple, reliable metabolite profiling of plants, for taxonomic purposes and rapid surveys of metabolites associated with specific functions or bio-activities.

Supervisor: A/Professor DW Gammon (Chemistry) Co-supervisor: Professor J Farrant (Molecular & Cell Biology) Raban Wilfred Masuka Thesis Title: *Chemogenomic approaches to drug design: docking-based virtual screening of nematode GPCRs for potential anthelmintic agents*

Raban Masuka holds a BSc(Hons) Chemical Technology from Midlands State University the (MSU), Zimbabwe and an LLM in Intellectual Property from Africa University, Zimbabwe and World Intellectual Property Organization (WIPO). The thrust of his doctoral work was the identification of potential anthelmintic (parasitic worm) agents using hybrid structure and ligand based drug design approaches.

Raban Masuka's thesis involved determining the threedimensional structure of parasitic worm hormones using NMRdistance restrained molecular dynamics. At the same time, the structure of their G-Protein Coupled Receptor (GPCR) was determined from the genome of C. elegans, using homology modelling. The model was refined and optimized using molecular dynamics in a mimetic POPC membrane. The binding pocket on the receptor was identified by matching the structure of the hormones to the receptor. This binding pocket was used to virtually screen thousands of compounds from the American National Cancer Institute (NCI) database, to identify new potential anthelmintic drugs. Visual inspection of the results identified 40 compounds for further study, of which 3 were found to be active in an in vitro assay. This work is important, as parasitic worm infections affect 550-750 million people worldwide; affect childhood growth, pregnancies, and intellectual development. Resistance to current drugs is increasing and so the search for new drugs is vital.

Supervisor: Emeritus Professor GE Jackson (Chemistry) Co-supervisor: Professor K Chibale (Chemistry) In Environmental & Geographical Science: Francis Brendan Argent Thesis Title: An exploration of South Africa's wind climate using station records and reanalysis data

Brendan Argent completed both his BSc and BSc(Hons) qualifications at UCT, following which he began a MSc, which was upgraded to a PhD.

Brendan Argent's thesis addresses the sparse nature of wind observations across South Africa, which, with the advent of wind power generation and the threat of climate change, creates an important knowledge gap about the regional wind climate. To address this, he examined the drivers of surface wind and quantified the coupling between the synoptic circulation states and station-scale wind flow to develop a processbased regionalisation of wind regimes over the country. The thesis develops a method for incorporating bias-corrected time series data from a reanalysis data set along with the sparse station observations, without disrupting spatial correlation This allows patterns. for the creation of corrected and extended wind time series from each station site to facilitate a regionalisation of wind using a self-organising map. A hierarchical clustering is then used to define wind climate regions and identify relatively cohesive spatial wind-climate groupings that are physically consistent with the driving synoptic environment, and which are characteristic in terms of terrain and response to synoptic This process-based drivers. regionalisation facilitates a future assessment of potential changes in the wind climate of South Africa as a result of a warming world.

Supervisor: Professor BC Hewitson (Environmental & Geographical Science) Co-supervisor: Dr CL Lennard (Environmental & Geographical Science)

Marshall Lison Mdoka Thesis Title: *The role of soil moisture on summer climate simulations over southern Africa*

Marshall Mdoka followed his BSc(Hons) degree with a MSc in Environmental and Geographical Science at UCT, and began his PhD in 2007, also at UCT. He then continued his doctoral work while a lecturer at Monash University South Africa.

Marshall Mdoka's thesis focuses on soil moisture interactions with the atmosphere using a regional climate model, and explores the responses of the local atmospheric circulation to forcing by wet and dry soil moisture states. The thesis particularly addresses regions where characteristics of early seasonal climate may be influenced by soil moisture, in order to understand the implications on the frequency and intensity of rainfall. Using a regional climate model, he considers the atmospheric responses to soil moisture levels at wilting and saturation levels, with a particular focus on mid-summer rainfall over southern Africa. In general his work finds that the soil moisture can be a positive feedback given the initial conditions at the start of a season, exacerbating the initial dry or wet states.

Supervisor: Professor B Hewitson (Environmental & Geographical Science)

Co-supervisor: Dr M Tadross (Environmental & Geographical Science)

*Joy Waddell

Thesis title: A nodal governance approach to understanding the barriers and opportunities for disaster governance: A case study on flood governance in an informal settlement in Cape Town, South Africa

Joy Waddell holds a BA from UCT and an MSc from Kings College London. Her interest in urban disaster management, combined with her interest in South Africa, led her to examine how flood risk management in Cape Town's informal settlements could be more collaborative.

Joy Waddell uses an embedded qualitative case study to explore the details of the City of Cape Town's planning and operationalisation of flood management, supported by the case of Sweet Home informal settlement in Philippi. Her thesis uses a nodal governance approach to understand the role of different actors, from the city to the local level, in governing disaster risk. What is clear from her work is that although the City of Cape Town has the intention of collaborating with actors on the ground, there are limited opportunities for this to happen in practice. This thesis argues that multiple actors, with various capacities and understanding of the problem, should be involved in disaster management processes. The thesis contributes to the field of disaster risk reduction, showing that in order to strengthen collaborative disaster governance in the context of cities of the global South, inclusive multi-actor partnerships and platforms need to be complemented by institutional mechanisms and systematic approaches that foster collaboration between multiple actors.

Supervisor: A/Professor G Ziervogel (Environmental & Geographical Science)

Nkulumo Zinyengere Thesis Title: *Assessing climate change impacts and agronomic adaptation strategies for dryland crop production in southern Africa*

Nkulumo Zinyengere was born in Zimbabwe and holds an MSc in Agricultural Meteorology. He has received various awards in recognition of his research, including the African Climate Change Fellowship award and the Green Talents Awards for high potentials in sustainable development.

Current research methods and tools do not easily lend themselves to assessing impacts of climate change and identifying adaptation options at scales relevant to smallholder farmers. Hence such studies are limited. Nkulumo Zinvengere's thesis addresses this by using localised modelling techniques to explicitly examine how climate change will affect various important food crops in southern Africa and to investigate a number of on-farm agronomic strategies used by local farmers for adaptation potential. Results confirm the important impacts climate change will have on crop production, food security and livelihoods in southern Africa and further clarify the differentiated impacts of climate change on crops and locations and the varying opportunities for adaptation. The thesis supports improved targeting of adaptation interventions to the needs of local farming communities.

Supervisor: Professor B Hewitson (Environmental & Geographical Science)

Co-supervisor: Dr O Crespo (Environmental & Geographical Science); Dr M Tadross (Environmental & Geographical Science) In Geology: Lara Sciscio Thesis Title: Position of the Triassic-Jurassic boundary in South Africa and Lesotho: a multidisciplinary approach aimed at improving the chronostratigraphy and biostratigraphy of the Elliot Formation, Stormberg Group

Lara Sciscio has a BSc, BSc(Hons) and MSc degree in Geology from Rhodes University. Her doctoral research emerged from her passion to read the rock record for its palaeoecological messages, including the interaction between ancient plants, animals, and sediments.

Lara Sciscio's thesis refines the timeframe of the continental red bed succession, the richly fossiliferous Elliot Formation, which within southern Africa not only contains the record of the early evolution of dinosaurs, but also that of the end-Triassic mass extinction event. To refine the age of this globally-important Triassic-Jurassic unit. known capture major evolutionary to transitions in the biota, Lara Sciscio undertook an ambitious field hand-drilling and subsequent laboratory work in order to measure the palaeomagnetic signatures in the collected rock samples. Using magnetostratigraphic principles, the project successfully establishes, for the first time, the position of the Triassic-Jurassic boundary within the southern African rock succession and thus enables the correlation of these rocks with other global sites that record one of the five major bio-crises events in the Earth's history. Furthermore, the thesis presents the first quantitative evidence for a semiarid palaeoclimate of this terrestrial ecosystem that existed in southern Africa some 200 million years ago.

Supervisor: Dr E M Bordy (Geological Sciences) Co-supervisor: Dr M de Kock (Geology, University of Johannesburg) In Molecular & Cell Biology: *Mandy Kelly Mason Thesis Title: Skeletal element elongation and interdigital tissue regression in developing bat limbs: a gene expression analysis

Mandy Mason holds BSc, BSc(Hons) and MSc degree from UCT. Her PhD thesis builds on the foundation that she built during her honours and MSc in establishing the Natal long-fingered bat, Miniopterus natalensis, as a model for the study of the genetic basis for the evolution of limb morphologies.

Mandy Mason's thesis investigates whether shifts in expression of two transcription factors, namely Meis2 and Hoxd11, can shed light on models of patterning the limb during development, and the evolution of the bat wing. She shows that the Meis2 gene, which conventionally regarded is as influencing the development of the proximal limb, is expressed in the interdigital tissue of the autopod prior to interdigit regression. This challenges the existing paradigm of how the limb is patterned along the proximal-distal axis. Furthermore, Hoxd11 and its immediate neighbour Hoxd10 are expressed at high levels in the forelimb, but not in the hindlimb autopod. While the proteins encoded by these genes are highly conserved between bats and other mammals, several changes were found in the bat Prox enhancer, a genetic switch that regulates the 5' Hoxd complex, including Hoxd11. This research suggests that these sequence changes in the ancestral bat lineage played an important role in the extended growth of bat digits, and the evolution of flight in mammals.

Supervisor: Professor N Illing (Molecular & Cell Biology) Co-supervisor: A/Professor D Jacobs (Biological Sciences) In Zoology: Dominic Augustine Wilmot Henry Thesis title: A multi-scale study on the movement ecology of

Afrotropical waterbirds

Dominic Henry has a BSc in Ecology and a BSc (Hons) in Zoology from UCT. In 2012 his MSc research in the Department of Biological Sciences was upgraded to a PhD.

Dominic Henry's thesis explores the movement ecology of waterbirds at individual and community levels. Little is known about what drives the nomadic movements of waterbirds in landscapes that show high spatiotemporal variability availability. resource The in study uses telemetry data from individually tracked Egyptian Geese and Red-billed Teal and waterbird community count data from wetlands in KwaZulu-Natal. Using movement models of individual waterfowl, he shows that the dynamics of primary production and rainfall across the landscape are important influences on waterfowl movement and clarifies their complex, but consistent, movement strategy. Shifting to the level of the entire waterbird community, he then shows that movement capacity is integral to the ecological niches of waterbirds. His analyses also highlight the importance of spatial processes in structuring waterbird metacommunities. Dominic Henry's thesis makes a novel contribution to understanding multi-scale environmental influences on movement and provides a new model for how to consistently connect different levels of biological organization to obtain a more general understanding of movement ecology.

Supervisor: Professor GS Cumming (Biological Sciences) Sarah Megan Murgatroyd Thesis Title: *Ecology of the* Verreaux's eagle Aquila verreauxii in natural and agriculturally transformed habitats in South Africa

Megan Murgatroyd completed a BSc(Hons) in Conservation Biology at the University of the West of England, Bristol, UK. She registered at UCT in 2011 as an MSc student and upgraded to PhD in 2013. Her PhD fieldwork was undertaken in the pristine Cederberg and the agriculturallytransformed Sandveld regions of the Western Cape.

Megan Murgatovd's thesis explores how land transformation influences changes in several key ecological and demographic parameters of Verreaux's eagle. Predators that inhabit transformed areas are usually subject to negative consequences, such as decreased breeding success. Verreaux's eagle is commonly viewed as a specialised raptor of natural habitats, and agricultural transformation was expected to impact this species adversely. Contrary to expectations, Murgatoyd's Megan thesis explores causes for better breeding productivity in the agriculturally transformed Sandveld region, compared to the natural Cedeberg area. In the transformed area compared to the natural area, diet was more varied, there was less rain during the breeding season and the energy needed for soaring flight was less, because there were more thermal uplift in the flatter landscapes. agricultural This research demonstrated the potential conservation value of transformed habitats and the need for better integration of conservation and agricultural production in a rapidly changing world.

Supervisor: Emeritus Professor L Underhill (Biological Sciences) Co-supervisor: Dr A Amar (Biological Sciences) Chevonne Reynolds Thesis Title: *The role of waterbirds in the dispersal of aquatic organisms in southern Africa*

Chevonne Reynolds holds a BSc(Hons), an MSc in Chemistry and an MSc in Resource Conservation Biology, all from the University of the Witwatersrand. She began her PhD with a strong interest in understanding birds and their relevance for ecosystems.

Chevonne Reynolds' thesis explores how, when, and where waterbirds disperse aquatic organisms in southern Africa. It uses a combination of field, experimental and modelling approaches to determine which organisms are dispersed, the spatial scale at which they are dispersed, and the ways in which waterbird and seed traits influence dispersal outcomes. The results demonstrate that waterbirds have an excellent capacity to disperse both indigenous and exotic aquatic organisms, and that dispersal occurs frequently at both local and regional scales. Chevonne Reynolds' thesis also draws attention to the effects that anthropogenic influences can have on the distribution of waterbirds and the consequences of anthrpogenic impacts for the spread of aquatic invasive species. It shows that waterbirds have an important role in facilitating connectivity between wetlands systems and in structuring aquatic communities in arid. spatio-temporally heterogeneous This environments. research expands our knowledge of aquatic organisms in southern Africa and provides a scientific basis for waterbird conservation, invasive species management, and wetland management.

Supervisor: Professor GS Cumming (Biological Sciences) Susanna Catharina Franzina Zeeman Thesis Title: Genetics and ecosystem effects of the invasive mussel Semimytilus algosus, on the West Coast of South Africa

Susanna Zeeman has a Bluris LLB from the University of Pretoria and practiced as an attorney for six years. She obtained an MSc in Applied Marine Science from the UCT.

Susanna Zeeman's thesis deals with the ecological effects of the bisexual mussel Semimytilus algosus, a recent alien arrival that now dominates west-coast rocky shores. She identifies the mussel genetically and shows that it originated from Chile, but via Namibia. Its considerable genetic variablity probably contributes to its ability to invade South Africa rapidly. She also recorded that it dominates the low shore, with another alien species, the Mediterranean mussel, occupying higher zones. By characterising life-history features. Susanna shows that the bisexual mussel has a low rate of survival, slow growth, weak shells and weak attachment to rocks. Despite these limitations, it dominates because of its astonishing recruitment: up to 2 million recruits per square metre - counting these was a serious test of Susanna's eyesight, as recruits are minute! Experiments showed that the bisexual mussel cannot handle harsh high-shore conditions, whereas the Mediterranean mussel has difficulty surviving low on the shore, because its weak attachment makes it vulnerable to wave action.

Supervisor: Emeritus Professor G Branch (Biological Sciences) Co-supervisor: Dr Deena Pillay (Biological Sciences); Dr Sophie von der Heyden (Stellenbosch University)

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

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.

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 The Wolfson Foundation

Gold Circle

Foundations, Trusts, Corporates that have made donations to UCT totaling between R25 million and R50 million (alphabetically)

Cancer Research Trust The ELMA Foundation The Gallagher Foundation The Michael and Susan Dell Foundation Minerals Education Trust Fund The William and Flora Hewlett Foundation

Silver Circle

Foundations, Trusts, Corporates that have made donations to UCT totaling between totaling between R10 million and R25 million (alphabetically)

The Albert Wessels Trust Andreas and Susan Struengmann Foundation gGmbH Anglo American Chairman's Fund The Atlantic Philanthropies (SA) (Pty) Ltd The David and Elaine Potter Charitable Foundation The DG Murray Trust Discovery Foundation Donald Gordon Foundation The Dora and William Oscar Heyne Charitable Trust Doris Duke Charitable Foundation

Eskom Holdings Ltd The Ford Foundation SA The Frank Robb Charitable Trust Garfield Weston Foundation The Henry J Kaiser Family Foundation James Sivewright Scratchley Will Trust John and Margaret Overbeek Trust The John Wakeford Trust Johnson & Johnson Family of Companies Contribution Fund The Kresge Foundation Liberty Holdings Ltd The Mauerberger Foundation Fund Moshal Scholarship Program National Lottery Distribution Trust Fund The Nellie Atkinson Trust Novartis Research Foundation The Raith Foundation The Raymond Ackerman Foundation The Rhodes Trust Rustenburg Platinum Mines Ltd Sigrid Rausing Trust The South African National Roads Agency Ltd The Spencer Foundation Standard Bank Group Ltd Unilever South Africa Home and Personal Care (Pty) Ltd WK Kellogg Foundation, USA

Bronze Circle

Foundations, Trusts, Corporates that have made donations to UCT totaling between R1 million and R10 million (alphabetically)

The A & M Pevsner Charitable Trust The Aaron Beare Foundation Abax Foundation Abe Bailey Trust Actuarial Society Development Trust Actuarial Society of South Africa AECI Ltd Allan Gray Orbis Foundation Anglo American Platinum Ltd Anglo American South Africa Ltd Anglo Operations Ltd – Anglo Corporate Division Anglogold Ashanti Fund

FOUNDATIONS, CORPORATES AND TRUSTS CONTINUED

AngloGold Ashanti Ltd The Atlantic Philanthropies (Ireland) Limited Attorneys Fidelity Fund Aurecon South Africa (Pty) Ltd The Beit Trust BHP Billiton Development Trust BirdLife South Africa BM Raff Will Trust BoE Corporate, Cape Town Boehringer Ingelheim (Pty) Ltd Bokomo Foods The Boston Consulting Group (Pty) Ltd BP Southern Africa (Pty) Ltd The Breadsticks Foundation British American Tobacco South Africa British Council, Cape Town Cape Gate (Pty) Ltd, Cape Town Cape Gate (Pty) Ltd, Vanderbijlpark Capebridge Trust Company (Pty) Ltd The Carl and Emily Fuchs Foundation Charles Stewart Mott Foundation The Children's Hospital Trust CHK Charities Ltd The Chris Barnard Trust Fund The Coca-Cola Foundation, Inc Daimler Fonds - Deutsches Stiftungs-Zentrum Daphne Cockwell Family The Davis Foundation De Beers Consolidated Mines Ltd De Beers Fund Educational Trust Department for International Development (DFID), Southern Africa Department of Economic Development and Tourism Department of Health (Western Cape) The Desmond Tutu Educational Trust Die Rupert-Musiekstigting Discovery Fund The Doris Crossley Foundation Dow Southern Africa (Pty) Ltd Dr Stanley Batchelor Bursary Trust Dr. Leopold und Carmen Ellinger Stiftung Edgars Consolidated Stores Ltd Edwards Lifesciences (Pty) Ltd EJ Lombardi Trust Else Kröner-Fresenius-Stiftung Elsevier Foundation Embassy of People's Republic of China Eranda Foundation Ernest E and Brendalyn Stempel Foundation Eskom, Brackenfell Eskom, George Fetzer Institute FirstRand Bank Limited The FirstRand Foundation The Foschini Group CSI The Foschini Group Ltd The Gabriel Foundation Garden Cities Inc

The Gatsby Charitable Foundation Gensec Bank Ltd GlaxoSmithKline plc Gold Fields Foundation Goldman Sachs Charitable Fund Goldman Sachs Foundation Government of Flanders Guy Elliott Medical Research Trust Haw & Inglis (Pty) Ltd HBD Business Holdings HCI Foundation The Hermann Ohlthaver Trust Hope for Depression Research Foundation HR Hill Residuary Trust HSBC Investment Services Africa (Pty) Ltd Humanist Institute for Development Cooperation Impala Community Development Trust (ICDT) International Bank for Reconstruction and Development International Bar Association Charitable Trust International Development Research Centre Investec Limited Janssen Pharmaceutica (Pty) Ltd Joan St Leger Lindbergh Charitable Trust The John D & Catherine T MacArthur Foundation The John Davidson Educational Trust The John Ellerman Foundation Johnson & Johnson (USA) Johnson Matthey plc The Joint Primary Health Care Programme JPMorgan Chase South African Trust Foundation JRS Biodiversity Foundation Julian Baring Scholarship Fund The Justin and Elsa Schaffer Family UCT Scholarship Trust Kangra Group (Pty) Ltd Kaplan Kushlick Educational Foundation Karl Storz GmbH & Co KG KPMG, Johannesburg The Leanore Zara Kaplan Will Trust LEGO Foundation The Leverhulme Trust The Lewis Foundation Life Healthcare Foundation Lily & Ernst Hausmann Research Trust Linbury Trust Link-SA Fund The Little Tew Charitable Trust Lonmin Management Services The MAC AIDS Fund Macsteel Service Centres SA (Pty) Ltd Mai Family Foundation The Maize Trust MariaMarina Foundation Mary Slack & Daughters Foundation The Maurice Hatter Foundation Medical Education for South African Blacks Medicor Foundation Medtronic Foundation

FOUNDATIONS, CORPORATES AND TRUSTS CONTINUED

The Merck Company Foundation Millennium Trust Misys Charitable Foundation Mota Engil Construction South Africa (Pty) Ltd MTU South Africa National Arts Council of South Africa National Bioproducts Institute Nedbank Foundation Nestlé (South Africa) (Pty) Ltd New Settlers Foundation NM Rothschild & Sons Ltd Norwegian Agency for Development Cooperation Novo Nordisk (Pty) Ltd The Nuffield Foundation Old Mutual Foundation (South Africa) Old Mutual South Africa Open Society Foundation for South Africa Open Society Institute (OSI) The Oppenheimer Memorial Trust The Ove Arup Foundation PA Don Scholarship Trust Pearson Plc Percy Fox Foundation PF Charitable Trust The Philip Schock Charitable & Educational Foundation Public Accountants' & Auditors' Board Radda Barnen The Rand Merchant Bank Fund Rand Merchant Bank Holdings Ltd Rangoonwala Foundation Retina South Africa Rio Tinto Plc Robert Bosch Stiftung Roche Products (Pty) Ltd Roche Products (Pty) Ltd - Diagnostics Roche Products Limited, UK Rockefeller Brothers Fund The Rolf-Stephan Nussbaum Foundation Rosalie van der Gucht Will Trust Royal Norwegian Embassy

Ruth and Anita Wise Charitable and Educational Trust SABMiller, Africa and Asia Sanlam Ltd Sasol Ltd The Sasol Social and Community Trust Saville Educational Foundation The Saville Foundation The Schroder Foundation SCHWAB Foundation for Social Entrepreneurship Sir Siegmund Warburg's Voluntary Settlement South African Institute of Chartered Accountants South African Norway Tertiary Education Development Programme South African Penguins South African Responsible Gambling Foundation Southern African Music Rights Organisation The Starr Foundation The Stella & Paul Loewenstein Educational and Charitable Trust Stevenson Family Charitable Trust Swiss-South African Co-Operation Initiative Telkom SA Ltd Thabo Mbeki Education Trust Tides Foundation Tshemba Charitable Foundation NPC Tullow Oil South Africa (Pty) Ltd UCT Fund Inc (New York) United Therapeutics Corporation Upstream Training Trust Vodacom (Pty) Ltd The Vodafone Group Foundation Wallace Global Fund Welton Foundation Wenner-Gren Foundation for Anthropological Research Inc Western Platinum Ltd The Wilfred Cooper Trust William Henry Cockwell Family Wyeth SA (Pty) Ltd Xstrata South Africa (Pty) Ltd The Zamani African Cultural Heritage Sites and Landscapes Foundation

FRIENDS OF THE UNIVERSITY OF CAPE TOWN

Organisations that have made gifts to UCT, totaling under R1 million

2382 individuals who have generously shown their support by making a gift to the University of Cape Town.

INDIVIDUAL DONORS

Chancellor's Circle

Individuals whose gifts to UCT over a five year period have amounted to over R500,000

Bruce and Serena Ackerman Oludolapo Akinkugbe CON Justin Baring David and Ursel Barnes Klaus-Jürgen Bathe American Author, T. Lee Baumann Franklin Berman KCMG OC Tony H Bloom Roelof Botha Nick Boydell Johan and Monika Brink Malcolm and Marjorie Brown Charles Edward Carter Nick Criticos Elgin and Rosemary Curry Theophilus Danjuma GCON Mick and Barbara Davis Kevin Dillon George Ellis Georgina Enthoven Ian and Gillian Falconer Jill Farrant Meyer Feldberg John and Anne Field Bill Frankel OBE Ernest Fullagar Bill Gild Richard and Kara Gnodde John Graham John Grieve Pauline Groves Philipp Gutsche Selwyn Haas Raymond Haas Charlotte Heber-Percy Hugh Herman Neville Isdell Elizabeth and Rod Jack William and Yvonne Jacobson Christopher and Jeanne Jennings Johannes Jordaan Alasdair Jonathan Kemsley-Pein Robert Knutzen Paul Kumleben Brett and Jo Lankester Gary Lubner Peter Maggs Vincent Mai Charles McGregor Noel McIntosh and family Jim and Marilynn McNamara Tim and Marilyn Noakes Trevor Norwitz Jennifer and Jonathan Oppenheimer Kate Owen Simon Pallev Shafik Parker

Alasdair and Eve Pein David and Elaine Potter CBE Max Price and Deborah Posel Patrick Quirk Ben Rabinowitz Derek and Inks Raphael Trevor Reid Mary May Robertson Simon Robertson Patrik Sandin Duncan Saville Guy Shutt James Simmons Brendalyn Stempel Georgina Stevens Hugh & Lady Stevenson Alan Stewart Grant and Sarah Stubbs Ben Surdut Sibylla and Bruce Tindale Blaine John Tomlinson Stephen and Chantry Westwell Christo Wiese Russel Zimmerman

Vice-Chancellor's Circle

Individuals whose gifts to UCT over a five year period have amounted to between R250,000 and R500,000

Helmut Amos Brian Anziska Robin Barnett-Harris Sean Baumann Helen Beach Charlyn Belluzo Robert Berman Henry and Marcia Blumberg Marthinus Botha Charles Carter Stewart Cohen Louis De Waal Janette Deacon Keertan Dheda Alan Drabkin Colin Dutkiewicz Judith Favish Sheila Frater David Gibson John Gurney Eric Hassall Michael Hayden Peter Hope Craig Howie Sir Chips Keswick Bruce and Suzie Kovner Michael Levett Michael Levy Donald MacRobert Clive McIntvre Irene Menell Jan Minners

Craig Mullett and family Simon Nicks Keith Oates Nicholas Oppenheimer Hawa Patel Flora Pedler Anthony Rademeyer Mamphela Ramphele Mark Raphaely Adam Raphaely Liam and Penny Ratcliffe Delise Reich Katharine Robertson David Rockefeller Jr. Nick Roditi Werner and Violanta Rüedy-Werren Alistair Ruiters Kier Schuringa Shirley and Hymie Shwiel Aristides Sitas Mugsy Spiegel Margaret Stanford Clare Stannard Colin Tebbutt Les Underhill Johannes van Zvl David Watson Tiger Wessels Ian Yudelman

Dean's Circle

Individuals whose gifts to UCT over a five year period have amounted to between R100,000 and R250,000

Bruce Keith Adams **Beverley Adriaans** Mark and Lynette Alexander Michael and Agnes Alexander Family Hugh Amoore Bob Bishop Marcus Bowman Neil Braude Walter Braude Stanley Braude Donald Jamieson Buchanan Geoff Burton Yasmin Carrim Francois Cilliers Ian Clark Beric Croome Michael Darlison Ezra Davids Jim Davidson Brvan Davies Rodnev Dawson Elmarie de Bruin Marion Dixon Prashila Dullabh Sakhi Dumakude Martin Epstein Ian Farlam

INDIVIDUAL DONORS CONTINUED

Arthur Forman Robert Forman Christoph Fröhlich Isabel Goodman Siamon Gordon Suzanne Mary Hall Nigel and Lila Harvey Ruth Horner-Mibashan Georgina Jaffee Kenneth Downton Jones Geoffrey Kaye William J Kentridge Rochelle Le Roux Thomas Leiden

Hugh Livingstone Timothy Mathews Mary Mattholie Malcolm McCallum William Michell Mutle Mogase Nicolene Nel David Nurek Gerald Norman Nurick Lyn Phelps Bruce Royan Hannah-Reeve Sanders Steve Schach Christoph and Renate Schmocker Mark Shuttleworth Crain Soudien Sara Spiegel David Strong Jenny Thomson Martin Tooke Stephen Townsend Karen Van Heerden Michael Westwood Jacob Daniel Wiese Paul Willcox Rob Williams Derek Yach

FRIENDS OF THE UNIVERSITY OF CAPE TOWN

Individuals whose gifts to UCT over a five year period have amounted to less than R100,000

2850 individuals who have generously shown their support by making a gift to the University of Cape Town.

Bequests

Individuals who have bequeathed a legacy gift to UCT in their wills.

Niel Ackerman PA Ackerman Will Trust Harry Allschwang Linda Doreen Beckett Anne Alida Bomford Simon Bor CLF Borckenhagen AM Botha DI Chilton Phillip Alexander Clancey David Graham Cunningham Joyce Irene Ivy Cupido Ilse Margaret Dall EIGT Danziger

Pauline de la Motte Hall MBM Denny CW Eglin M Eilenberg Trust Elsabe Carmen Einhorn Derek Stuart Franklin Sybil Elizabeth Laura Gauntlett Pamela Marcia Glass Victor Glasstone BA Goldman BJN Greig **RB** Grosse GN Hayward Alfred Harold Honikman ML Hutt Carolina Rebeca Iljon Vera Jaffe Colin Kaplan John E. Karlin Miriam Kluk Ann Kreitzer Elias Bertrand Levenstein

Myer Levy J Melrose Walter Middelmann IM Monk RM Moss Margaret Alice Nash Elizabeth Ethel Barbara Parker RC Pead AH Peires Esme Wedderburn Quilley Jacob Wolf Rabkin Trust Kevin Rochford Hajee Sulaiman ShahMahomed BG Shapiro Ian Trevor Berry Smith Rolf Richard Spiegel RM Stegen AM Stephen Clifford Herbert Stroude Trust

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 giving@uct.ac.za.

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

OFFICERS OF THE UNIVERSITY

Chancellor

Graça Simbine Machel, BA *Lisbon* LLD(hc) *UWC* DU(hc) *Essex* PhD(hc) *Cape Town* DLitt et Phil(hc) *RAU* DHL(hc) *Massachusetts*

Vice-Chancellor

Max Rodney Price, MBBCh Witwatersrand BA Oxon MSc London Dip Occ Health Witwatersrand

Chair of Council

Njongonkulu Winston Hugh Ndungane, GCOB BD MTh *Kings College* PhD(hc) *Cape Town* DD(hc) *Rhodes* DD(hc) *Virginia* DHumLet(hc) *Worcester Massachusetts* DSocSc(hc) *KZN* DTh(hc) *Stell* DD(hc) *Episcopal Divinity School Massachusetts* DLitt(hc) *Unisa* DHumSc *VUT* DLitt(hc) *Witwatersrand* PhD *Walter Sisulu*

President of Convocation

Nyameko Barney Pityana, BA BProc *Unisa* BD(Hons) *Kings College* PhD *Cape Town* DUniv(hc) *Buenos Aires* DD(hc) *Trinity College* Attorney of the High Court, OLS Grand Counsellor of the Order of the Baobab: Silver

Deputy Vice-Chancellors

Sandra Klopper, BA(Hons) *Witwatersrand* MA *UEA* PhD *Witwatersrand* Anwarul-Haq Suleman Mall, BSc *Durban-Westville* BSc(Med)Hons MSc *Cape Town* PhD *Newcastle* (Acting) Francis William Petersen, PrEng BEng MEng PhD *Stell* MSAIChE MSAIMM Daniel Petrus Visser, B Juris LLB LLD *Pretoria* Dr Iuris *Leiden* LLD(hc) *Edinburgh* Advocate of the High Court, Fellow of the University of Cape Town

Deans of Faculties	
Commerce:	Ingrid Denise Woolard, BSc Natal BA(Hons) Unisa PhD Cape Town
Engineering &	
the Build Environment:	Alison Emslie Lewis, PrEng BSc(Eng)Chem MSc(Eng) PhD Cape Town
	FSAIChE FSAIMM MASSAf FSAAE
Health Sciences:	Gregory Dudley Hussey, MBChB MMed Cape Town MSc ClinTropMed
	London DTM&H UK FFCH SA (Acting)
Humanities:	Sakhela Maxwell Buhlungu, BA Transkei BA(Hons) Cape Town MA PhD
	Witwatersrand
Law:	Penelope Elizabeth Andrews, BA LLB Natal LLM Columbia
Science:	Anton Powter le Roex, BSc Stell BSc(Hons) PhD Cape Town

Dean of Higher Education Development

Suellen Butler Shay, BA Lincoln MA Illinois PhD Cape Town

Director of the Graduate School of Business Walter Remi Juliaan Baets, BSc MSc *Antwerp* PhD *Warwick*

Registrar

Royston Nathan Pillay, BA HDE BEd Executive MBA Cape Town

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!