
FACULTY OF ENGINEERING AND THE BUILT ENVIRONMENT (CEREMONY 1)

ORDER OF PROCEEDINGS

Academic Procession.

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

The Presiding Officer will constitute the congregation.

The National Anthem.

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

Musical Item.

Welcome by the Master of Ceremonies.

The Orator will present Professor David Roger Jones Owen to the Presiding Officer for the award of an honorary degree.

Address by the guest speaker

The graduands will be presented to the Presiding Officer by the Dean of the Faculty.

The Presiding Officer will congratulate the new graduates.

The Master of Ceremonies will make closing announcements and invite the congregation to stand.

The Presiding Officer 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 ENGINEERING AND THE BUILT ENVIRONMENT

A qualification may be awarded with distinction, honours, and first class honours where a student has shown outstanding academic achievement.

The Bachelor of Architectural Studies (BAS) may be awarded with distinction where a candidate has obtained

a minimum of 75% in the Design and Theory Studio III examination and minimum of 60% in one of the other Design and Theory Studio examinations

and an additional three marks of at least 75% in his or her BAS course work.

The degrees of Bachelor of Science in Engineering and Bachelor of Science in Geomatics may be conferred with

first class honours, where the candidate has obtained at least 75% for the research project and a weighted average of 75% for the degree or,

honours, where the candidate has obtained a minimum of a second class pass in the research project and a weighted average of 65% for the degree.

The degrees of Bachelor of Science in Construction Studies and Bachelor of Science in Property Studies may be awarded with distinction where a candidate obtains a minimum weighted average of 75% for the degree.

HONORARY DEGREE

**Professor David Roger Jones Owen
for the DScEng (honoris causa)**

Professor David Owen currently holds the position of Research Professor in Civil Engineering at Swansea University. He is an international authority on finite element and discrete element techniques, and one of the researchers responsible for building the field of computational mechanics from nascence to maturity. This field sits at the intersection of applied mathematics, computing and engineering. It enables so-called in silico experimentation, in which material properties and behaviour are tested using computer-based simulation.

Professor Owen is globally recognised as having pioneered novel techniques that have led to major shifts in approaches to complex problems in mechanics. These contributions have had an enduring influence, which is evident from the large number of seminal and highly cited works among his publications, which number more than 400, and their direct impact on the development of computer codes used in research and engineering practice.

Professor Owen must also be noted for his equivalent skills as an entrepreneur. He founded a company, Rockfield Ltd, which functions at the interface between research and development in designing innovative computational approaches to the solution of complex problems in industry. Under his leadership, the company has twice received the Queen's Award for Innovation, and has allowed him to translate his significant research contributions directly into practice, thus benefiting both industry and society.

Professor Owen has been associated with UCT for more than 35 years, through his interaction with the Centre for Research in Computational and Applied Mechanics (CERECAM). He has been instrumental in the growth of computational mechanics as an area of research and postgraduate study at the university, that now enjoys a significant international profile. Further collaboration at UCT and elsewhere in South Africa has seen the launch and maintenance of regular conference series on computational mechanics, at national and continental levels.

Professor Owen's achievements have been recognised through a number of awards and honours, including the Gauss-Newton Medal, which is the highest award in his discipline.

NAMES OF GRADUANDS

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

FACULTY OF ENGINEERING AND THE BUILT ENVIRONMENT

Dean: Professor A Lewis

DEGREE OF BACHELOR OF SCIENCE IN ENGINEERING IN CHEMICAL ENGINEERING

Thomas Somerville Andrew (with honours)
Sally Joy Berge (with honours)
Sejal Narendra Bhikha (with honours)
Alexander Christof Brock (with honours)
Kassandra Rose Margaret Byaruhanga (with honours)
Emma-Kate Chetty (with honours)
Deborah Danai Rutendo Chikukwa (with honours)
Urvashi Chundunsing (with first class honours)
Stephen Mark Cotterrell
Nicholas Norval Cowen (with first class honours)
Cassandra Da Cruz (with first class honours)
Muhammad Imaad Davies (with first class honours)
Karina Nanette De Kock (with honours)
Anotidaishe Dondo (with honours)
Jason Gordon Foulkes (with first class honours)
Matthew Brian Gabin (with honours)
Sagar Gandhi (with honours)
Raeesah Gani
Mathew George (with honours)
Tasnika Goorhoo (with honours)
Lee Bernard Gordon (with first class honours)
Kreshan Govender
Sheldon Govender (with honours)
Cameron James Grinyer (with honours)
Caitlin Grüning (with honours)
Jerry Andronicus Gwarada
*Dylan Scott Harrison (with honours)
Vuyo Minenhle Hlongwane (with honours)
Hannah Ho

James Temlett Hockey (with honours)
Sarah Jane Jamieson (with honours)
William Luke Jamieson (with honours)
Siobhan Abigail Johnson (with honours)
Isabella Kriegler (with first class honours)
Robin John Lavers (with first class honours)
Leanne Amy Lewis (with honours)
Thato Selebalo Lieta
Ndivhuwo Magondo (with honours)
Dasmi Maharaj (with honours)
Tasleen Mahmood
Emily Makgoe
Neo Evidence Gift Maliela (with honours)
Elsie Makgethwa Manaswe (with honours)
Hélda Jeronimo Mandlate (with honours)
Kuda Dumicani Maneta (with honours)
Nuraan Manuel
Archippe Ngwey Manzila (with honours)
Kalpana Maraj (with honours)
Mikyle Roshan Marajh (with honours)
Oliver John Marr (with honours)
Silethukuthula Mathe (with honours)
Thabang Prince Matimbi
*Thabiso Matlakala
*Rosabeth Rutendo Matsikidze
Brandon Matthews (with honours)
Nyasha Mawungwe (with honours)
*Farouq Buliro Mnjira
Oabile Sam Mogomelo
Kaylen Moodley (with honours)
Mishael Moodley
Christopher Mullins (with first class honours)
Ntokozo Gladness Mzolo (with honours)
Nolihle Ndamase (with honours)
Tafadzwa Emmanuel Ndlovu (with honours)
Lebohang Joseph Nku
Thando Maria Nxumalo
Richard James Ogg (with first class honours)
Meesha Parbhoo
Bradley Craig Raasch (with first class honours)
Yatheshthrao Ragoo
Tshiamo Nobuhle Gontsi Ramano
Megan Roux (with honours)
Itoote Ian Rubombora
Aaron Jordan Smith (with honours)
Grant Christopher Soll (with honours)

Victor Spencer (with honours)
Divine Christine Nalukenge Ssebunnya (with honours)
Ryan Stableford
Samuel Alexander Stein (with honours)
*Bibi Khadija Hadjra Suhuotoorah
Steven Alexander Sutton
Tanaka Tafirenyika (with honours)
Michael Raymond Tatham (with honours)
Brian Omphemetse Tlale
Rebecca Jo Tod (with honours)
Fabio Torino (with honours)
Sonka Tatsi
Evren Mert Turan (with first class honours)
*Grant Michael Turner (with first class honours)
Litha Lihleli Tywakadi
Lisa Blair Van Oudtshoorn (with first class honours)
Thabisile Vilakazi
Pierre Heinrich Viviers
Andrew Timothy Vogel (with first class honours)
Washington Mutahi Wachira (with honours)
Natasja Wanblad (with first class honours)
Joshua James Williams (with honours)

DEGREE OF BACHELOR OF SCIENCE IN ENGINEERING IN ELECTRICAL AND COMPUTER ENGINEERING

Abdul Qayyoom Arieff (with honours)
*Claude William Mugisha Betz (with honours)
Johannes Cornelus Beukes (with honours)
Liam James Clark (with first class honours)
Keegan Michael Crankshaw (with honours)
Reece Vasu Gounden
Michael Nathan Hicks (with honours)
Angel Nelson Kadama
Petrus Mesias Kambala (with honours)
Amisi Ngatho Kiarie (with honours)
Suzan George Lauwo (with first class honours)
*Yi-Shou Lee (with honours)
Dominic Manthoko
Sange Maxaku
Taremekedzwa Mudzokora (with honours)

Anja Rebecca Mühr (with honours)
 Admire Tatenda Muvhu (with honours)
 *Munsanje Mweene (with honours)
 Ashentha Naidoo (with first class honours)
 Mikhaeel Navsa
 Ronewa Ndou (with honours)
 *Tlamangile Expert Ngobeni
 Peter Tshisikhawe Musa Nkuna
 Andrew James Olivier (with honours)
 Mustafa Ebrahim Rashid (with honours)
 Isai Shipoke
 Walter Smuts (with honours)
 *Jonathan Richard Whitaker
 *Carla Josette Wilby (with honours)

DEGREE OF BACHELOR OF
 SCIENCE IN ENGINEERING IN
 ELECTRICAL ENGINEERING

Sahil Govender
 Pitambar Jankee (with honours)
 Mfanafuthi Welcome Khoza
 Tauriq Latief (with first class honours)
 Lulama Thandeka Bonani Mabaso
 Ailsa Jane Mackay
 Zenaidah Mangena
 Brendon Crispen Maongera (with honours)
 Mogamat Yaaseen Martin (with first class honours)
 Kuziwakwashe Stephen Mashingaidze (with honours)
 Jason Dalen Meek (with first class honours)
 Kreesan Moodley (with honours)
 Saadiqah Mowzer (with first class honours)
 *Liyandza Gift Mthembu
 Mbuso Andzile Ndzimandze
 Ntandoyenkosi Ngubane
 Nabeela Paleker (with honours)
 Arvish Ramseebaluck (with honours)
 Neelesh Ramseebaluck (with first class honours)
 Dorothy Khutjo Rangata (with honours)
 Rosamunde Popyenisheni Shilongo
 *Senzo Zabapostoli Shongwe (with honours)
 Ngcebo Simphiwe Sithebe
 Mfundo Nkululeko Tshabalala
 Thabo Edward Yiga

DEGREE OF BACHELOR OF
 SCIENCE IN ENGINEERING
 IN MECHANICAL AND
 MECHATRONIC ENGINEERING

Savannah Barbara Bennett (with honours)
 Keagan Brown (with honours)
 Boris Karl Johann Bubla (with honours)
 Thomas Carstens (with honours)
 Andrew Phillip Court (with honours)
 Aidan Lawson Deary (with honours)
 Katherine Ann Edwards (with first class honours)
 Thomas William Frames (with honours)
 *James Stuart Franklin (with first class honours)
 Kevin Gregory Hardham
 *Petrus Nandeyotya Kagogo (with honours)
 *Henry Ker (with first class honours)
 Luke Douglas Leach (with honours)
 Rumbidzai Samantha Makanza (with honours)
 *Niklas Rudolf Martin (with honours)
 James Ian Mckenzie (with first class honours)
 David Anthony Richard Mcpherson
 Realeboha Lilly Motlamelle
 Jeffy George Palamattam
 Lebogang Martin Ramphago
 Alyssa Ramwell (with first class honours)
 *Robert Strauss Rorich
 *Finn David Stevenson
 Matthew Vincent Titus (with honours)
 Given Bukhosi Tshuma
 Joshua Peter Van Zyl (with first class honours)
 Ashok Ireton Willis (with honours)

DEGREE OF BACHELOR OF
 SCIENCE IN ENGINEERING IN
 MECHANICAL ENGINEERING

Jade Lyle Adams (with honours)
 Damian Bruce Avern-Taplin (with honours)
 Yusuf Bhabha
 *Sizwe Bhembe
 *Simon Thulani Chili
 Dhinay Chohan
 *Catalin Coman
 Michael Ashley Dowries
 Justin Sheldon Gerber
 Ricki Michael Gonsalves
 Neoka Gounden (with honours)

Jashayen Govender (with first class honours)
 Rashid Ahmed Haffejee (with first class honours)
 Samantha Joy Hayward (with first class honours)
 Ryan Metcalf Macdonald Hudson
 Ammaar Isaacs
 Shivaan Jagtee
 Qudus Boluwatife Jimoh-Taiwo (with honours)
 Tshepo Ephius Kabusong
 Alexandra Caylee Lancaster (with honours)
 Aimi Lasania (with honours)
 Adam Aaron Lazarus (with honours)
 Benjamin Lieberman
 Ndoda Likhade
 Serisha Lutchman
 Thato Moeletsi Mafoko
 Bryce Michael Maher (with honours)
 Bornwise Mahlaule
 Amy Jane Mallett (with honours)
 Makole Maponya
 Matthew Neill Marquard
 *Kagiso Mmila
 Aadil Ahmed Moolla
 Imraan Moolla (with honours)
 Irfaan Moolla (with honours)
 *Gomolemo Motsemme
 Priyen Naidoo
 Vishal Nayee (with first class honours)
 *Siyabonga Mike Ndala
 Phelokazi Onwaba Nodana
 Muhammad Yusufali Oomar (with first class honours)
 *Kei Matthew Palahniuk (with honours)
 Marie Anemone Parbhoo
 Matthew Byron Perold (with honours)
 Priyanka Prathna Perumal (with honours)
 Daniel Jonathan Pons (with first class honours)
 *Ndivhuho Ramavu
 Michael James Reed (with honours)
 Kausar Rehman (with first class honours)
 Ntwanano Shitholani
 Brent Marc Shone
 Aashir Siddiqui (with first class honours)
 Azqa Singh
 David Peter Slade (with first class honours)
 Nischay Teeluckdharry
 Muhammed Goolam Hoosen Tootla
 Ashleigh Truran (with honours)
 Matthew Graham Trusler

Rhys Jan Van Den Handel (with first class honours)
Mpilonhle Mkhonzeni Zungu

DEGREE OF BACHELOR
OF SCIENCE IN ENGINEERING
IN MECHATRONICS

Mustaqeem Aziz (with honours)
Alexandra May Barry (with honours)
Stephen Michael Baxter (with honours)
Morag Leirim Brown (with honours)
An Chi Chen (with first class honours)
Rebecca Amy Crompton
Taariq Dawray
Mohamed Hoosain Essop
Adrian Freaan Forbes (with first class honours)
Annet Boban George (with first class honours)
Nathan Herr (with first class honours)
Siyabonga Emmanuel Hlengwa
Stefan Paul Hopley
Jamie Nicholas Jacobson (with honours)
Alexander Lutz Knemeyer (with first class honours)
Chiao-Shing Lin (with honours)
Jia-Yeu Kevin Liu
Claire Sarah Lowry (with first class honours)
*Lejone Caswel Malokotsa
Daniel Paul Mesham (with first class honours)
Uveshin Chockalingam Moodley
Sylvan James Morris (with honours)
Nikaila Naidoo
Bongumsa Ndunu
Joseph Adriano Nemours (with first class honours)
Xolisani Nkwentsha (with honours)
Yeshara Packirisamy (with honours)
Samuel Ross Peirson
Miguel Fidel Pereira (with first class honours)
Thalia Pillay (with first class honours)
Kgomotso Ramabetha
Simon Andrew Vause Raw
*Muhammed Tafeeq Razzak (with first class honours)
Chad Oscar Dahl Reich
Prathiksha Singh
Christopher Pieter Stander (with honours)
Nirav Surajlal (with honours)
James Teversham (with first class honours)

Pareen Naresh Valjee
Matthew Van Heerden
Nadeem Waglay
Luka James Kwezi Wolpe (with first class honours)
*Rishad Ali Yasin (with honours)
Wing-Hin Yip

DEGREE OF BACHELOR OF
SCIENCE HONOURS IN
MATERIALS SCIENCE

*Relebohile Elliot Lecheko
Niyanda Sibulele Maseti
Msawenkosi Mene
Ondela Mzabane
Noluvuyo Ndila
Oscar Khanyiso Nqwili
Omphela Lenasia Shandukani
*Melikhaya Tshitshiba
Khanyiswa Tyabule
Siphamandla Luthando Vilakazi

DEGREE OF BACHELOR
OF SCIENCE HONOURS IN
NUCLEAR POWER

Earl De Wet
Ulrich Winston Louw
Wade Piet
Setelekoane Clement Tsehlahali

DEGREE OF MASTER
OF ENGINEERING

In Nuclear Power:

Dawid John Boesak
*Andre Pierre Nel

In Radar and Electrical Defence:

Xavier Frantz

In Telecommunications:

*Hisham Abdul Rahman Mohammed

DEGREE OF MASTER OF SCIENCE
IN ENGINEERING

In Chemical Engineering:

*Cody Owen Burcher-Jones
Junfeng Guo (with distinction)
*Ashcaan Tendo Khazali
*Relebohile Tseka
Adri Mari Uys

Marianne Werle Van Der Merwe (with distinction in the coursework component)

In Electrical Engineering:

*Olakunle Oluwatosin Alao
Fabusuyi Akindele Aroge (with distinction)
Tasimba Denford David Chirindo (with distinction)
*Isaac Gwayi
*Mkhusele Bruce Mkhali
*Mbulelo Brenwen Ntlangu
Zwivhuya Romeo Ramudzuli
*Khobatha Oriel Setetemela
Monde Soni
Donald Francois Tolmie (with distinction)
Nicholas Ross Von Klemperer

In Mechanical Engineering:

* Heidi Burger (with distinction in the dissertation)
Gert Thomas Prinsloo
*Robert Michael Temlett
Daniel Van Huyssteen (with distinction in the dissertation)

DEGREE OF MASTER
OF PHILOSOPHY

In Engineering Management:

Bongani Nyawo

*In Sustainable Mineral Resource
Development:*

Sizwe Bonga Innocent Vidima

DEGREE OF DOCTOR
OF PHILOSOPHY

In Chemical Engineering:

Alisa Govender
Thesis Title: *Cobalt core-shell nanoparticles as precursors for cobalt-bases Fischer-Tropsch synthesis catalysts*

Alisa Govender holds a BSc, BSc(Hons) and a MSc in Chemistry from the University of KwaZulu-Natal. She joined Group Technology R & D at Sasol in 2010 where she joined the materials characterisation group. She was given the opportunity by Sasol to pursue a PhD whilst working and started her doctoral work at UCT in 2014.

Alisa Govender's research focuses on the synthesis, characterization and performance of cobalt core-shell nanoparticles as precursors for cobalt-based Fischer-Tropsch catalysts. The core-shell nanoparticles have a core of the size of a few nanometers, which is covered with a thin shell (typical thickness 1-5 nm). Alisa Govender used in her studies ferrite as a core and cobalt oxide as a shell. The shell has to be reduced to become catalytically active in the Fischer-Tropsch synthesis. The partial reduction of these materials in hydrogen at temperatures of 230oC destroyed the core-shell structure and special conditions had to be applied to retain the core-shell structures. Even these mild reduction conditions resulted in the formation of nano-sized islands comprised of metallic cobalt on the ferrite core as shown using *in-situ* TEM. The resulting activity of these novel materials as catalyst precursors in the Fischer-Tropsch synthesis showed that the activity is strongly affected by the catalyst structure. Her work also demonstrates the vital need of *in-situ* techniques to show the change in structure and composition of core-shell nanoparticles during reduction and after exposure to Fischer-Tropsch conditions.

Supervisor: Professor E van Steen
(Chemical Engineering)

Co-supervisor: Dr R Forbes (University of Witwatersrand); Dr J Olivier (Nelson Mandela University) and Professor J Neethling (Nelson Mandela University)

Bernelle Verster

Thesis Title: *Exploring the factors at play to make wastewater biorefineries a reality*

Bernelle Verster completed a master's degree at York University and then discovered a new world of 'value from waste' while traversing Europe. This brought her back to South Africa and Chemical Engineering at UCT to embark on her PhD focused on wastewater biorefineries.

Biology and working with nature can make things better where sometimes chemistry and "heat-beat-and-treat" cannot. One of those things is dirty water. This thesis explores how much dirty water there is in South Africa, and then looks at how to make beautiful

things from dirty water. The study takes a non-conventional, and energising, view to illustrate how to reclaim value from the contaminants in wastewater through converting them to products of value while obtaining compliant water as a product, contributing to resource efficiency with respect to both nutrients and water. This is achieved through drawing on the life sciences and engineering while integrating an understanding of human behaviour and perceptions. Through the tenets of industrial ecology and the circular economy, Bernelle Verster's study has grounded her for the next phase of her career in sustainable sanitation through source separation, with special emphasis on dry toilets and resource recovery.

Supervisor: Professor STL Harrison
(Chemical Engineering)

In Electrical Engineering:

* Daniel Josef Czech

Thesis Title: *Time domain classification of transient RFI*

Daniel Czech holds a BSc (Engineering) in Mechatronics from UCT. In 2014 he joined the university's Radar Remote Sensing Group as a master's student and upgraded to doctoral studies in 2016 after completing a research internship at the Singapore Institute for Neurotechnology.

South Africa's new radio telescope, MeerKAT, is a highly sensitive instrument designed to observe radio signals with distant astronomical origins. Such signals are weak and easily obscured or contaminated by radio frequency interference (RFI). Transient RFI is particularly difficult to identify, and can be caused by mechanical relays, motors and fluorescent lights, for example. The ability to track down and remove or replace sources of RFI would be helpful for improving observation quality. At MeerKAT, monitoring stations have been installed to detect RFI. Identifying the sources of detected RFI signals would aid in locating them. Daniel Czech's thesis deals with the classification of transient RFI by source. Several datasets of transient RFI are recorded and three main approaches to classification are developed and investigated. The first makes use of components analysis techniques, the

second is inspired by speech processing methods and the third employs deep recurrent and convolutional neural networks.

Supervisor: Professor M Inggs
(Electrical Engineering)

Co-supervisor: A/Professor A Mishra
(Electrical Engineering)

Titus Oluwale Oyedokun

Thesis Title: *Planar groove gap waveguides*

Titus Oyedokun holds a BSc (Engineering) and MSc in Electrical Engineering from UCT. After his master's program, he worked for 2 years as a Radio frequency planning and optimisation engineer before returning to pursue a doctorate in microwave engineering at UCT.

Titus Oyedokun's thesis presents a new planar waveguide structure referred to as the Planar Groove Gap Waveguide (PGGWG). The new structure has similar modal characteristics to air-filled machined groove gap waveguide, but in a low-cost fabrication technology that is readily integrated with surface mount components. The structure provides two DC isolated conducting planes which is beneficial in the biasing of active device used for frequency agile front-end components. It is found that a simple biasing network is needed to bias the varactor diode employed in a tunable resonance cavity. The transmission line characterization of the new media presents comparable characteristics to Substrate Integrated Waveguide (SIW) however, the phase constant of the PGGWG is nearly doubled that of SIW, which is a significant result for system miniaturisation.

Supervisor: A/Professor RH Geschke
(Electrical Engineering)

Co-supervisor: Dr T Stander (Carl and Emily Fuchs Institute for Microelectronics, Department of Electrical, Electronic and Computer Engineering, University of Pretoria)

Yashren Reddi

Thesis Title: *Modelling, estimation and control of a twin-helicopter slung load transportation system*

Yashren Reddi completed his BScEng and MScEng degrees at the University of KwaZulu-Natal in 2009 and 2011 respectively, and began full-time study at UCT towards a PhD in 2013.

Yashren Reddi's thesis focuses on development of a control system for a novel aerial crane concept. The aerial crane consists of two helicopters that allow autonomous, coordinated transportation and assembling of cargo. A robust solution is found that stabilises the highly interacting twin-helicopter slung load system. Attaching two helicopters to the load, allows for increased load carrying capability and orientation control of the cargo using an elegant and economical approach. The installation of wind-turbine blades, powerline towers and radio masts in remote locations, are examples of where this technology may find use. The work makes a significant contribution to the Quantitative Feedback Theory approach to control system design for a significant load sharing problem and advances control engineering practice through the detailed modelling, simulation and avionics development for aerial platforms.

Supervisor: Professor E Boje (Electrical Engineering)

In Energy Studies:

Emily Jane Tyler Simpson

Thesis Title: *A complex transdisciplinary exploration of South African climate mitigation policy*

Emily Tyler Simpson has a BCom from Rhodes University, and a BCom(Hons) in Economics and MCom in Financial Management from UCT. She has worked on climate mitigation since 2001, predominantly in development contexts where she has increasingly focused on policymaking.

Emily Tyler Simpson's doctoral work emerged from her practice of South African climate mitigation policy; from a dissatisfaction with the pace and depth of progress, and a realisation that

her community of practice approaches their subject in a particular way. Her transdisciplinary thesis explores whether this realm of 'approach' is consequential for the decarbonisation policy agenda. The thesis starts by articulating the 'current dominant approach', arguing that it illuminates aspects of the policy issue but obscures others, in particular its complexity, and its systemic and social aspects. The thesis then draws from complexity and complex systems theories to explore how a view from complexity opens up important but obscured spaces for climate mitigation policymaking. Emily's research traverses disciplines, knowledges and worldviews to contribute to both science and practice by calling attention to the pertinence of 'approach' in climate mitigation policy.

Supervisor: A/Professor J Broadhurst
(Chemical Engineering)

Co-supervisor: A/Professor B Cohen
(Chemical Engineering)

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

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.

VISION AND MISSION

UNIVERSITY OF CAPE TOWN

Vision

An inclusive and engaged research-intensive African university that inspires creativity through outstanding achievements in learning, discovery and citizenship; enhancing the lives of its students and staff, advancing a more equitable and sustainable social order and influencing the global higher education landscape.

Mission

UCT is committed to engaging with the key issues of our natural and social worlds through outstanding teaching, research and scholarship. We seek to advance the status and distinctiveness of scholarship in Africa through building strategic partnerships across the continent, the global south and the rest of the world.

UCT provides a vibrant and supportive intellectual environment that attracts and connects people from all over the world.

We aim to produce graduates and future leaders who are influential locally and globally. Our qualifications are locally applicable and internationally acclaimed, underpinned by values of engaged citizenship and social justice. Our scholarship and research have a positive impact on our society and our environment.

We will actively advance the pace of transformation within our University and beyond, nurturing an inclusive institutional culture which embraces diversity.

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.

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- 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.

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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.

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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 – <http://www.uct.ac.za/dad/alumni/update/>
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whether to a public lecture, a leadership forum, your class reunion,
or just an informal call!*
