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# FACULTY OF ENGINEERING AND THE BUILT ENVIRONMENT (CEREMONY 1)

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## 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 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.)*

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## NATIONAL ANTHEM

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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.

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## **DISTINCTIONS IN THE FACULTY OF ENGINEERING AND THE BUILT ENVIRONMENT**

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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.

## 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:*

Leolyn Neil Alexander  
Michel Albert Amato (with first class honours)  
Lara Mary Auzet (with honours)  
Colin James Blake (with honours)  
Stuart James Bleloch  
Alexander Benedikt Brandt (with honours)  
Jean-Claude Araujo Carreno (with honours)  
Yi-Jou Chen (with honours)  
Kreelan Chetty (with first class honours)  
\*James Charles Doherty De Beer  
Loren Ruth De Koker (with first class honours)  
Mihlali Dilima  
Gcinisizwe Msimisi Dlamini (with honours)  
Vimbainashe Lorraine Dzimbanhete (with first class honours)  
Damien Nicholas Erasmus (with honours)  
Fathima Hassim Esak (with honours)  
Jené Danielle Ford (with honours)  
Trisha Patricia Ganisyeje (with honours)  
Jonathan Nicholas Gertzen (with first class honours)  
Danielle Sympathie Goho (with first class honours)  
Avashnee Govender (with honours)  
Ruane Delvin Govender  
Mark Hambroek (with honours)  
Naomi Harrisankar (with honours)  
Nasseela Hytoolakhan Lal Mahomed (with honours)  
\*Simon James Skerten Innes (with honours)

Robert Neil James (with honours)  
Mogammad Yaameen Jardien  
Luthando Obakeng Jona  
Abeedah Kadri  
Yashna Kisten  
Tafadzwa Heath Kwaramba (with honours)  
Tita Ntow Labi (with honours)  
Nadia Adriana Laric (with honours)  
Tlaleng Regina Lemeke  
Tzu-Ting Lin  
Lerato Dinah Mahwayi (with honours)  
Bafana Makalima (with honours)  
Mogammad Redah Malick  
Ashlen Mammen (with honours)  
Noloyiso Mamputa  
Andrew Mandeya  
Malcolm Tendai Mapeta (with honours)  
Amulya Annah Mathew (with honours)  
Anthony Warren Mchendrie (with honours)  
Masana Mhinga (with honours)  
Nkululeko Kuhle Mhlongo (with honours)  
Sinethemba Mhlongo (with honours)  
\*Nisa Mirza  
Phetogo Ntlotleng Mogotsi (with honours)  
Shivonne Mooniyen  
Tumelo Morakile  
Mohamed Hassan Moydien (with honours)  
Thandile Caroline Mpompo  
Bongani Leslie Mtetwa (with honours)  
Jarryd Pravaan Naicker (with honours)  
Jeovana Carolyn Naidoo (with honours)  
Nkululeko Ncube  
Joshua Lourens Nel (with honours)  
Dakalo Nemaulumma  
Heaven Nemaungane  
Lesedi Mananeng Ngoato (with first class honours)  
Ever Nyama  
N'Goran Noguees Ollier (with honours)  
Veroushia Padayachee  
Thanushri Pather (with honours)  
Dimitri Pavlou (with honours)  
Petro Pavlou (with first class honours)  
Shaniq Ursula Pillay (with honours)  
Argon Poorun  
Merrick Beaumont Pringle (with honours)  
Anjalee Ramjee  
Lydia Ramushu  
Blessing Rapotu  
Areesen Reddy  
\*Preshanthan Reddy  
Timothy Rezelman (with honours)

Matthew Peter Ries  
Lelethu Roto  
Alison Brigitte Sanders (with honours)  
\*Maunetlala Sello (with honours)  
Ziba Shabir Hussein Somjee Rajan  
Gianluca Sasha Salvatore Ganter Shaer (with honours)  
Akshi Singh  
Verona Subroyen  
\*Olivier Meso Tambwe  
Sarah Frances Tetlow  
Leboea Damiane Tigeli (with honours)  
Lindelwa Ratidzo Tigere  
Nikhil Vallabh (with honours)  
Brits Van Zyl (with honours)  
Zekun Zek Zhang  
Daniel Zilesnick

##### *In Electrical and Computer Engineering:*

Tinotenda Trust Chemvura (with first class honours)  
James Paul Cushway (with first class honours)  
\*George Stone De Kock (with honours)  
Hannah Frank  
Dean Gracey (with first class honours)  
James Thomas Gripper  
Kyle Nicholas Harrison  
\*Johan Jansen Van Vuuren (with honours)  
Othniel Jean Ebenezer Yao Konan (with honours)  
Kouame Hermann Kouassi (with honours)  
Zabel'Ezinhle Nkosing'Phile Sizo Mabuza  
Khwezi Zizipho Majola (with honours)  
Rehen Moodley  
Sanele Mpangalala  
\*Alexandra Lesley Nel (with honours)  
Abonga Jackson Ngada (with honours)  
\*Yolisa Samnkelo Nogatshi  
John Kayode Odetokun (with honours)  
Jonathan Brian Ovidia (with honours)  
Michael Stephan Ulrich Sanne (with honours)  
Matthias Carsten Schulz (with first class honours)  
Luke Matthew Schwartzkopff (with honours)  
Samit Sharma  
\*Jeremy Stewart Smith (with first class honours)

##### *In Electrical Engineering:*

Muneeb Amien  
Brian Mirembe Avungana

- Darren Myles Curry (with first class honours)  
Mthulisi Mike Dube  
Kathleen Clare Macwilliam  
Sayur Mahabeer  
Rifumo Raynard Manganye  
Ketso Molapo  
Vuyiseka Nandi  
Joseph Nekare  
Yamkela Ntotho  
Emmanuel Nxumalo (with honours)  
Shaylan Pillay  
Sizwe Wandile Radebe (with honours)  
Lindokuhle Shongwe (with honours)  
\*Harpreet Singh  
Phuthi Emmanuel Tsatsi (with first class honours)
- In Electromechanical Engineering:*  
Jason Ross Arnold (with honours)  
Richard Adrian Bettman (with honours)  
\*Christopher Kyrle Bladergroen (with first class honours)  
Yong Jun Cho  
Ross Christopher (with honours)  
William Thomas Costello  
\*Lebogang Diale  
Tigone Tiggy Luhanga  
Matilda Kapaletswe Phokompe  
Luke John Frood Rockey (with honours)  
Ruveer Rohanlal  
\*Christopher Andrew Starke  
\*Ibrahim Ghalib Stracey  
Adrian Walker (with honours)  
Thomas Robert Charles Windell
- In Mechanical Engineering:*  
Benjamin Hendrick Alheit (with first class honours)  
Logan Frank Arendse (with honours)  
Joshua Beretta (with first class honours)  
Nathanael James Boulle (with honours)  
\*Menzi Frank Buthelezi  
Andrew Reid Butler  
Thomas Hunter Chadwick (with first class honours)  
Brett Charles Christie-Taylor (with first class honours)  
Kyle Luke Colvin  
\*Luke John Adriaan Daneel  
Sithembiso Maxwell Duze (with honours)  
Jessica Endekovski (with honours)  
Shabbirhussein Abdulla Esmail (with first class honours)  
Brendan Denis Fernandez (with honours)
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Kevin Dominic Forrester  
Youssef Mohamed Fouad  
Lingfeng Gao (with first class honours)  
Nikhar Gopal  
Faris Haddad  
Altaaf Harnaker  
Prashant Jeewa  
Gi Ah Kang (with first class honours)  
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Jesse Jordan Cole King (with honours)  
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Zamokuhle Luthuli  
\*Anastasia Leigh Lynn  
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Mosimane Gape Matsebe Mamorare  
Boingotlo Sharon Maphage  
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Siael McPherson (with honours)  
Siyabonga Blessing Mdlalose  
Lonwabo Thabiso Mgoduso (with first class honours)  
Ahmad Muhammed Minty  
Masole Selikane Moerane  
Jasanth Moodley  
\*Guy John Moorcroft  
Jerry Edson Mthembu  
Mthokozisi Innocent Mthembu (with honours)  
Tanaka Peter Mujaya  
Tanaka Mukuna (with honours)  
Yanginkosi Mxaku  
Rushavya Naidu (with honours)  
\*Samkelo Nangu (with honours)  
Mmangaliso Kwandile Ncube  
Nhlanhla Fortune Ncwane  
Mulalo Arne Nethononda  
Ntombifuthi Aggrineth Ngobeni  
\*Tambwe Junior Nongolola (with honours)  
\*Muhsin Osman  
Abubakr Pansarey  
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Hishaam Hermon Paulse  
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Jamie Simon Nkululeko Pothier  
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Liam David Swanson (with first class honours)  
Jerome Alexander Tangocci  
Alexander Jon Tarantal  
Ryan Thompson (with first class honours)  
Sizwe Valentine Thusi  
Matlala Kleinboy Tjale (with honours)  
Jody Alex Van Turha (with honours)  
Caryn Ann Vorster (with honours)  
Christopher David Vrettos (with first class honours)  
Murray Willcocks  
Chuma Zajiji (with honours)
- In Mechatronics:*  
Nirav Beni (with honours)  
Shahil Narendra Bhikha  
Muhammad Haaroon Cassiem  
Qin Chen (with honours)  
Ashley Michael Clutten (with honours)  
Patrick Robert Peter Colborne (with honours)  
Jaydon Ethan Farao (with honours)  
Matthew James Finlayson (with first class honours)  
Kieran Peter Fisher  
Jordan Alan Haskel (with first class honours)  
Johann Hendrik Joosten (with honours)  
Mohammad Imran Khan (with honours)  
Daniel Kolev (with first class honours)  
Do Yeou Ku (with first class honours)  
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Nikhil Rahul Mohanlal (with honours)  
Hendrik Frans Möller  
Catherine Mariota Muller  
\*Peter Marangu Muriuki (with honours)  
\*Seylan Naidoo  
Dylan Dhishan Naidu  
Mark Keith Odayan  
Teagan Skye O’Gorman (with first class honours)

Nevarr Pillay (with honours)  
 George Abey Raju  
 Nikhar Ramchunder (with honours)  
 Paul Rawlins (with first class honours)  
 Alvin Phillip Reabow (with first class honours)  
 Dhaval Rakesh Shah  
 Cuan Heldrey Stephenson  
 Shaun Jeevan Thurairatnam  
 Levi Gabriel Todes (with honours)  
 Mitchell Usayiwevu (with first class honours)  
 Willem Francois Van Zyl  
 Naadir Mohamed Vorajee (with honours)  
 Matthew David Williams  
 Sheldon Grant Williams  
 Mobolaji Oladipupo Windapo (with honours)  
 Sean Woodgate  
 Sinethemba Siphwiwe Zulu (with honours)

DEGREE OF BACHELOR OF  
 SCIENCE (HONOURS) IN  
 MATERIALS SCIENCE

Lauren Anders  
 Ulrich Aimé Biyang Ondo  
 Viresh Dajee  
 Lizé-Mari Ferreira  
 Willem Nzimeni Johnny  
 \*Jerry Ronnie Langenhoven  
 \*Evrard Paterne Mayembo  
 Mbavhalelo Wendy Mudau  
 Chenesai Nesisa Nyakunu  
 \*Daniela Jayde Steenkamp  
 \*Braxton Randy Stephens  
 \*Nicole Ungerer (with first class honours)

DEGREE OF BACHELOR OF  
 SCIENCE (HONOURS) IN  
 NUCLEAR POWER

Bonginkosi Mnisi  
 Mbatha Molapo

DEGREE OF MASTER  
 OF ENGINEERING

*In Nuclear Power:*

\*Tinus Leslie Keyser (with distinction in the coursework component)

*In Radar & Electrical Defence:*  
 Benjamin Barsch

DEGREE OF MASTER OF SCIENCE  
 IN ENGINEERING

*In Chemical Engineering:*

Darryl Edward Brown (with distinction)  
 Pierre Louis Cilliers (with distinction in the dissertation)

*In Electrical Engineering:*

\*Fredrick Chisanga  
 Thomas Karl Dusterwald (with distinction)  
 Apiwe Hotele  
 \*Jocias Alexander Malan  
 Alfred Waligo (with distinction)

*In Materials Engineering:*

Francisco Jose Agostinho

*In Mechanical Engineering:*

Ismail Bashyr Ghoor  
 Mubita Kapui (with distinction)

*In Sustainable Energy Engineering:*

Sanchez Colin Carolissen  
 Aumashvini Gobin (with distinction in the dissertation)  
 \*Matthew Brian Gough (with distinction in the coursework component)

DEGREE OF MASTER  
 OF PHILOSOPHY

*In Energy Development Studies:*

\*Jigisha Mandalia

*In Space Studies:*

\*Kechil Kirkam (with distinction)  
 \*Holly Snell (with distinction in the coursework component)

*In Sustainable Mineral Resource Development:*

Lee Mudenda  
 Bonisile Nolwando Shongwe

DEGREE OF DOCTOR  
 OF PHILOSOPHY

*In Chemical Engineering:*

Robin Kyle Abrahams

Thesis Title: *A study on the effect of lateral interactions on methanation over Fe(100)*

Kyle Abrahams completed his BSc in Chemical Engineering at UCT, and began full-time study towards his MSc in 2011. In 2013 this project was upgraded to PhD.

Computational chemistry has reached a point where micro-kinetic models can be constructed to gain more in-depth understanding in heterogeneously catalysed reactions. A key component in the kinetic models is the inclusion of the so-called lateral interactions between various adsorbed species. In this thesis lateral interactions between adsorbed species present during CO temperature programmed desorption (TPD) and methanation over Fe(100) is examined. These lateral interactions are incorporated into micro-kinetic models describing these systems to obtain realistic descriptions of these processes. The lateral interactions were incorporated using either the mean-field approach or the quasi-chemical method. The two methods differ in their treatment of lateral interactions at low coverage. The thesis shows that the incorporation of lateral interactions is necessary to obtain realistic descriptions of CO-TPD and methanation over Fe(100).

*Supervisor:* Professor E van Steen (Chemical Engineering)

Rissa Venerande Niyobuhungiro  
 Thesis Title: *Investigation of the applicability of a cleaner production approach to road side catering in urban Africa*

Rissa Niyobuhungiro holds a BSc(Hons) from the University of Rwanda and an MSc (Eng) from UCT.

Rissa Niyobuhungiro's thesis investigates whether a Cleaner Production approach would be beneficial and could work in informal contexts, focusing on the case of road-side food

and drink production in the Nyanga area of Cape Town in South Africa. The use of wood as a source of energy by informal road-side caterers is investigated with the main focus of how users could prepare wares more eco-efficiently, i.e. at the same time at lower cost and with less pollution and waste. She combines qualitative and quantitative field observations in a case study setting with experimental work to determine the feasibility and the benefits of using efficient wood stoves and of generating and using biogas from wastes. The ‘trader-size’ wood stoves investigated are suitable for informal road-side caterers with a very short payback time, offering 6-fold and 8-fold reductions in fuel wood usage and smoke emissions, respectively. Biogas production is shown to be technically feasible, but requires infrastructure investments beyond the reach of caterers. In addition to these cleaner technology interventions, she also documents possibilities for ‘better housekeeping’ interventions, another core principle of the Cleaner Production approach.

*Supervisor:* Professor H von Blottnitz  
(Chemical Engineering)

\* Mehdi Safari

Thesis Title: *The effect of energy input on Flotation Kinetics*

Mehdi Safari has a BSc in Mining Engineering and MSc in Metallurgical/Mineral Processing Engineering from Amirkabir University of Technology. Before joining UCT in 2012 he served the minerals industry in various R&D and technical roles.

Mehdi Safari’s thesis aims to determine the effect of energy input on flotation kinetics for real ores in the laboratory and pilot scale. His study has been part of the AMIRA P9P project, the largest and longest running mineral processing research project in the world. His work improved the understanding of the role of energy input on the flotation rate for fine and coarse particles. Comprehensive data was collected in his work for determining the role of the principal parameters (energy input, particle size, bubble size, contact angle

and particle density) on the flotation rate constant. A phenomenological model is used in his work for quantifying the effect of principal parameters on flotation kinetics. From his work, it was observed that energy input affects flotation in two ways. The first effect is to increase particle-bubble collision frequency. Secondly is to decrease particle-bubble aggregates stability. The overall effect that energy input has on flotation kinetics is therefore a balance of these two effects.

*Supervisor:* Professor D Deglon  
(Chemical Engineering)

*Co-supervisor:* A/Professor M Harris  
(Chemical Engineering)

*In Electrical Engineering:*

Mary Abosede Adedoyin

Thesis Title: *Efficient radio resource management for future generation heterogeneous wireless networks*

Mary Adedoyin holds a B.Sc. and M.Sc. in Electronic and Computer Engineering, in 2007 and 2012 respectively from Lagos State University, Lagos, Nigeria. She worked as a lecturer at the same university before she joined the department of Electrical Engineering at UCT in 2015 for her PhD studies.

Mary Adedoyin’s thesis focuses on efficient radio resource management for future generation heterogeneous wireless networks. The topic is particularly important for future generation networks, which will be characterised by the ultra-dense deployment of small cells in the coverage of the conventional macrocells. However, the ultra-dense deployment of small cells by the end users in a random manner will result in technical challenges such as severe interference, a significant increase in total energy consumption, unfairness in radio resource sharing and inadequate quality of service provisioning. Hence, Mary Adedoyin develops efficient radio resource management algorithms that jointly address these challenges. Moreover, the performance of the developed algorithms has been evaluated through extensive simulations. The results show that the proposed

algorithms significantly improve the performance of the networks. Mary Adedoyin’s algorithms have contributed to the existing solutions and will help the mobile operators to provide efficient services to network users.

*Supervisor:* A/Professor OE Falowo  
(Electrical Engineering)

Charles James Bradshaw

Thesis Title: *Structure incorporation of model uncertainty for Bayesian adaptive tracking and its application to maritime surveillance*

Charles Bradshaw graduated with a BSc(Eng) in Mechatronics at UCT in 2010. After teaching high school mathematics for three years, he returned in 2014 to work on an MSc in Computer Vision, which was subsequently upgraded to a PhD.

Charles Bradshaw’s thesis explores a principled approach to adaptive visual object tracking in which the entire task is modelled as a single inference inside a unified Bayesian framework. In the derived framework, a single probability density function is used for the joint state-model space. This is in contrast to current Bayesian adaptive trackers, where the observation model is updated using various ad-hoc machine learning methods. By including the observation model inside the joint distribution, the framework poses model learning as a principled part of the Bayesian inference, avoiding the difficulties associated with ad-hoc methods. On account of its distribution being joint across state and model, the framework is named SMAE, for simultaneous modelling and estimation. While SMAE is applicable to the generic adaptive estimation task, it is further refined towards multiple target tracking. This framework is applied to maritime surveillance, where it successfully improves rejection of waves for a persistent tracker.

*Supervisor:* A/Professor F Nicolls  
(Electrical Engineering)

*Co-supervisor:* Emeritus Professor Gerhard de Jager  
(Electrical Engineering)

Elizabeth Mukhwana Okumu

Thesis Title: *Performance evaluation of cross-layer energy-efficient transmit antenna selection for spatial multiplexing systems*

Elizabeth Okumu holds a BSc and MSc in Electrical Engineering from the University of Nairobi, Kenya, and Dar es Salaam University, Tanzania respectively and joined the Faculty of Engineering and the Built Environment at UCT in 2013 for doctoral studies. She lectures at Kabarak University, Kenya.

Elizabeth Okumu's thesis focuses on the design of energy efficient wireless systems. She investigates the impact that cross-layer designs - which combine information and functionalities from across the communication protocol architecture - have on the energy efficiency and performance of wireless systems. She starts by proposing a cross-layer energy efficiency metric for the system model that she developed for the research. She then develops and analyses the performance of transmit antenna selection schemes that jointly optimize the cross-layer energy efficiency and throughput of multiple-antenna wireless systems. The findings show that the proposed schemes significantly enhance the performance of wireless links at reduced energy values; which is attributed to their cross-layer design. Finally, she develops reduced complexity versions of the developed schemes; showing that significant energy efficiency and performance gains can be attained at affordable computational complexity.

*Supervisor:* A/Professor M Dlodlo  
(Electrical Engineering)

*In Energy Studies:*

Dennis Randall Spalding-Fecher

Thesis Title: *Impact of climate change and irrigation development on hydropower supply in the Zambezi River Basin, and implications for power sector development in the Southern African Power Pool*

Randall Spalding-Fecher holds a BA from Harvard College and a MALD in International Environmental Policy & Development Economics from the Fletcher School of Law and Diplomacy, Tufts University. He has worked for more than 20 years as a researcher and consultant in energy, development and climate change.

Randall Spalding-Fecher's thesis examines how future climate change impacts on hydropower in the Zambezi River Basin will influence the development of the Southern African regional electricity system. Applying integrated water and electricity modelling tools to the regional system, the analysis shows that reduced hydropower generation under a plausible drying climate leads to significant shifts in power plant construction and operation, while the increases in hydropower output under a wetter climate have limited benefits. Increased generation costs from a dryer climate overall are modest, but the impact on hydro-dependent countries such as Mozambique, Zambia and Zimbabwe is considerably larger. Despite these potential negative impacts of climate change, it is generally not considered in individual hydropower power investments, or in national or regional electricity planning. Preparing for this possible range of future climates, therefore, can increase the resilience of the sector and reduce the risk of stranded assets.

*Supervisor:* Professor H Winkler  
(Mechanical Engineering)

*In Mechanical Engineering:*

Léon Cillie Malan

Thesis Title: *Direct numerical simulation of free-surface and interfacial flow using the VOF method: cavitating bubble clouds and phase change*

Léon Malan holds a BEng and MEng (Nuclear) from North West University, and a Master of Science in Computational Fluid Mechanics from the Pierre and Marie Curie University (Paris, France). He has also worked in the power industry in South Africa as Steam Turbine Engineer.

The research numerical simulation of two-phase flow is used extensively for engineering research. Léon Malan's thesis advances on the state-of-the-art in this field in two areas. The first investigates the hydrodynamics of isothermal cavitation in large bubble clouds. The results reveal for the first time a pore competition, which is characterised by a newly proposed Weber number. Formally, this study therefore advances on the quantitative understanding of a range of physical processes, including micro-spalling. The second topic of the dissertation entails advancing on the volume of fluid (VOF) method in modelling phase change of liquids. This is key to the more quantitative understanding of boiling phenomenon, which is one of the grand challenges today. Léon Malan succeeds in developing a new mass and energy consistent methodology which proves general, robust and accurate. As such, the work has laid the fundamental new groundwork for improving the quantitative understanding of evaporation and condensation processes.

*Supervisor:* Professor A Malan  
(Mechanical Engineering)

*Co-supervisors:* Professor PG Rousseau  
(Mechanical Engineering);  
Professor S Zaleski (Pierre and Marie Curie University, Paris)



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# VISION AND MISSION

## UNIVERSITY OF CAPE TOWN

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### **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.

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# THE UNIVERSITY OF CAPE TOWN DONOR ROLL

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

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

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The Aaron Beare Foundation  
Abax Foundation  
Abe Bailey Trust  
Actuarial Society Development Trust  
Actuarial Society of South Africa  
AECI Ltd  
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Allan Gray Orbis Foundation  
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CHK Charities Ltd  
The Chris Barnard Trust Fund

## FOUNDATIONS, CORPORATES AND TRUSTS CONTINUED

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The Davis Foundation	The International Foundation for Arts and Culture	National Bioproducts Institute
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Edwards Lifesciences (Pty) Ltd	Julian Baring Scholarship Fund	Open Philanthropy Project Fund
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		The Starr Foundation

## FOUNDATIONS, CORPORATES AND TRUSTS CONTINUED

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Students for a Better Future  
Susan Thompson Buffet Foundation  
Swiss-South African Co-Operation Initiative  
TB/HIV Care Foundation  
Thabo Mbeki Education Trust  
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*Organisations that have made gifts to UCT, totaling under R1 million.*

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#### **Note:**

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

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

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

*We apologize for any omissions or errors. If you would like to query your donations totals, circle membership, or any other matter related to your gifts to UCT, please email [giving@uct.ac.za](mailto:giving@uct.ac.za).*

*A full list of UCT donors is also available at [www.uct.ac.za/main/donating-to-uct/donor-recognition](http://www.uct.ac.za/main/donating-to-uct/donor-recognition).*

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*Welcome, Wamkelekile, Welkom – today is not the end of your relationship with the university but the beginning of a new phase in your continuing relationship with UCT, one that you share with the UCT community of over 100 000 alumni.*

*Diverse as this community is, the shared experiences of a critical academic ethos and a spectacular campus make for a strong network that has a wide footprint, not only in South Africa, but across the continent and the globe.*

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

*Updates can be done on the web – <http://www.uct.ac.za/dad/alumni/update/>  
- 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!*

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