
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 and is invited to participate in the singing of Gaudeamus)

The 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 Francis Petersen.

The Deputy Vice-Chancellor will present Susan Harrison and Eric van Steen for the award of a Fellowship.

Professor Petersen will introduce the speaker, Professor Ben Turok.

Address by Professor Turok.

The graduands will be presented to the Chancellor by the Dean of the Faculty of the Engineering and Built Environment, Professor Barry Downing.

The Chancellor will congratulate the new graduates.

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

The Chancellor will dissolve the congregation.

The procession, including the new graduates, will leave the hall.

(The congregation is requested to remain standing until the procession has left the hall.)

The music for the recessional march was composed by Emeritus Professor Klatzow.

GAUDEAMUS

Gaudeamus igitur, juvenes dum sumus,
Gaudeamus igitur, juvenes dum sumus,
Post jucundam juventutem, post
molestam senectutem,
Nos habebit humus, nos habebit humus.

Ubi sunt qui ante nos in mundo fuere?
Ubi sunt qui ante nos in mundo fuere?
Vadite ad superos, transite ad inferos,
Quos si vis videre, quos si vis videre.

Vita nostra brevis est, brevi finietur,
Vita nostra brevis est, brevi finietur,
Venit mors velociter, rapit nos atrociter,
Nemini parcetur, nemini parcetur.

Vivat Academia, vivant Professores,
Vivat Academia, vivant Professores,
Vivat membrum quodlibet, vivant
membra quaelibet,
Semper sint in flore, semper sint in flore.

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.

FELLOWSHIP

The election by Senate of a member of the faculty to be a fellow recognises sustained and original contributions through research or creative endeavour.

The fellows in the Faculty of Engineering and the Built Environment and their years of election are:

2005: MG Alexander
1998: GA Ekama
2013: AE Lewis
2013: G Nurick
2012: VJ Watson

The following members of the Faculty of Engineering and the Built Environment have been elected to a fellowship:

Susan Harrison
Professor, Chemical Engineering

Professor Harrison has served as Head of the Department of Chemical Engineering (1998 – 2002) and Deputy Dean, EBE (2010 – present). She completed her PhD in the Department of Chemical Engineering, Cambridge University. Her research is focused on bioprocess engineering, integrating the disciplines of chemical engineering and biotechnology. This inter-disciplinary research, working across the Departments of Chemical Engineering, Biotechnology and Chemistry has allowed her to grow her expertise in bioreactor systems, microbial cell disruption, process integration and polymer characterisation.

Professor Harrison is a B2 rated scientist and in 2007 she was recognised as Distinguished Woman Scientist of South Africa. In 2008, she was awarded an NRF SARChI Chair in Bioprocess Engineering. She was the founder member of the Centre for Bioprocess Engineering Research (CeBER), originally established as the Bioprocess Engineering Research Unit (BERU) in 2001.

The focus of Professor Harrison's research is at the juxtaposition of biotechnology and process engineering, driven by an understanding that optimal bioprocesses have at their core a holistic and integrated understanding of biology and engineering, and that these bioprocesses are essential to a sustainable economy that recognises the importance of a renewable raw material base in which resource productivity is maximised. All aspects of her research link the activity and performance of the biological system used with an understanding of the physicochemical environment generated through engineering aspects. Professor Harrison has developed tools to allow the quantification of the environmental burden of bioprocesses at the early development stage where process flexibility is highest. These tools have allowed her and her group to identify the critical research issues needing resolution for the implementation of environmentally responsible bio-based processes for commodity products.

FELLOWSHIP (Continued)

Eric van Steen
Professor, Chemical Engineering

Professor Van Steen is an expert in the field of heterogeneous catalysis with a particular focus on the Fischer-Tropsch process, which can be used to produce liquid fuels from any carbonaceous feedstock. This process is of particular importance for South Africa, where it is used to produce liquid fuels from coal and gas.

The essence of Professor Van Steen's contribution has been (in his own words): **"size matters"**. He has had a profound influence in the area of Fischer-Tropsch catalysis by showing that the size of the catalyst particle is of extreme relevance to its stability. Previously, researchers had not considered the effect of particle size on stability at all, although some researchers had shown that size affected catalyst activity.

The classical idea is to make the catalyst particle as small as possible, in order to maximise its activity. What Professor Van Steen showed was that, if the size is too small, a phase transition (from the active metal to the inactive oxide) will take place, and the catalyst will have no activity at all.

His contribution has had a major influence on the current thinking about the role of promoters in iron-based Fischer-Tropsch catalysts with their dominant role now being ascribed to ensuring a high fraction of iron present as nano-sized iron carbide crystallites (4,5). He has also shown that phase transformations of nano-sized particles within the catalyst have important implications for the design of catalysts.

The beauty of this research contribution is that the idea came from teaching thermodynamics to Chemical Engineering Undergraduates.

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 B Downing

POSTGRADUATE DIPLOMA IN ENGINEERING MANAGEMENT

*Chris Makrygiannis
*Kurt Trigmore Naldrett

DEGREE OF BACHELOR OF SCIENCE IN ENGINEERING

In Chemical Engineering:

Firdous Alexander
(With first class honours) Tariq Allie-Ebrahim
Ghulaam Amoo
Marc John Bagley
(With first class honours) David Stephen Baron
(With honours) Christopher Mark Barraclough
(With honours) Andrew Donald Bestbier
(With first class honours) Caroline Blaylock
(With first class honours) Alexa Grace Boje
Aileen Brandt
Ismail Brey
(With honours) Nastassia Anne Brugger
Sithembile Rebecca Cele
(With honours) Delincia Chandarman
(With honours) Muhammad Saeed Davids
(With first class honours) Jaime Kay Davidson
Francois Dignus De Flamingh
Tatenda Natalie Dinha
(With honours) Nicole Dixon
(With honours) Bagcinele Thobiso Dlamini

(With honours) Gordon James Murray Dodge
Theophilus Chiratidzo Dzingai
(With honours) Byeronie Epstein
Nicole Pamela Erispe
(With first class honours) Michelle Fang
Rachel Finlayson
(With honours) Brett Michael Gait
(With honours) Arthur Gajewski
(With honours) Amna Ghafeer
Kershin Gounden
Lauren Green
*(With honours) Nanina Marianne Grunert
(With first class honours) Junfeng Guo
(With honours) Tilden James Hellyer
Keenan Stewart Heynes
(With first class honours) Grace Olivia Hudson
(With honours) Bianca Cherise Jansen
Kemi Olubunmi Olufunmilayo Jegede
(With honours) Sunghun Jung
Buhle Antony Katanga
*Motlokoa William Khasu
Ashcaan Tendo Khazali
(With honours) Craig John Lawrence
(With honours) Sanda Natasha Mahlakahlaka
Mekia Elias Makhubu
(With honours) Justin Jehan Malherbe
Buhle Samantha Manana
Tebatso Sarah Mangena
Ashton Leigh Marsden
(With honours) Sibusisiwe Funeka Lolwethu Maseko
Tito Caiphus Mashilo
(With honours) Mmaphala Hunadi Tina Mathobela
(With honours) Esther Zvikomborero Mazvidza
(With honours) Ngoni Pepukai Mhonde
(With first class honours) Nicola Mitchell
(With honours) Muhammad Amir Asyraf Bin Mohd Fauzi
(With honours) Tshedisegang Tshedi Molatedi
Lihlonono Hopewell Molefe
*Marasi Isaac Monyau

(With honours) Saajidah Moolla
Luke Nattle Bradfield Mortimer
Jason Lee Moss
Masego Mmamolobye Lucia Mosupye
*Katlheho Nicholas Lukisang Mothapa
Kuki Mothata
Mangetane Moto
Tebogo Germina Mphepya
Mpho Mukhaninga
(With first class honours) Katherine Grace Murray
(With first class honours) Matthew Dean Myers
Donattelo Junior Mzilethi
Sijabulile Faith Ndzimandze
Ndivhuwo Nemakonde
Pfano Queen Nembudani
Wesley Neutt
Thandekile Mercy Nkala
(With honours) Zafeerah Omar
Louis Florent Oudin
(With honours) Saad Panjwani
(With honours) Edwina Papiah
(With honours) Hannah Louise Peacocke
Kirsten Joy Peacocke
Marvin Paballo Phalole
(With first class honours) Roxanne Pieterse
Chanel Stephanie Pillay
Raseekele Radingwana
(With honours) Thanzi Ramukosi
(With honours) Sashen Devan Reddy
(With honours) Jade Andrea Robinson
(With honours) Aviwe Cindy Roro
Monché Terri Samuels
Farirai Sanyika
Daniel Joshua Schwartzkopff
Monwabisi Emmanuel Scott
(With honours) Tesha Sai Seeparsad
(With honours) Onkokame Freddah Setidisho
Nanji Ruth Sheni
Thembelani Shozi
Selby Shubane
Philisiwe Angel Sithole
(With first class honours) Laura Anne Haden Smith
(With first class honours) Uthmaan Solomon
*(With first class honours) Philippus Steenkamp

(With first class honours) Rory Stott
 Unathi Swartbooi
 Thabo Tokwe
 (With first class honours) Nicole Uys
 (With first class honours) Pieter Abraham Albert van Wyk
 (With honours) Sizwe Bonga Innocent Vidima
 Yagna Vij
 (With honours) Michelle Voerman
 (With honours) Alexandra Elisabeth Wheeler
 (With first class honours) Lindsay Mark Williams
 Dududu Mondli Xola Zweni

DEGREE OF BACHELOR OF SCIENCE IN ENGINEERING

In Electrical Engineering:

*Wei-Chung Eric Chang
 (With honours) Munyaradzi Justice Chihota
 (With honours) Ashiv Rao Dhondea
 Dereck Antony Dombo
 (With honours) Darren Richard Dudley
 Dane Paul du Plessis
 (With honours) Dominique Mateus Fragoso Gouveia
 (With honours) Xiao Ming Hu
 Nicole Isaks
 *(With honours) Mohammad Kajee
 Bryan Denzil Kivido
 Michael Ross Leighton
 *Tshepo Ishmael Lentsoane
 Qiniso Wiseman Luthuli
 Raisibe Sharon Madisha
 Simon Donald Makola
 Mariam Maneveld
 (With honours) Mogamat Noer Martin
 Pretty Sibahle Mavango
 Luzuko Mbambani
 Halala Nkosinathi Mbatha
 Nozipho Sinothile Mchunu
 *(With honours) Molaoa Molaoa
 Abyna Mtsenga
 (With honours) Suzan Kyomugisha Natuyamba
 Tengetile Ndlangamandla
 Thamsanqa Rambo Nhlabatsi
 Nkateko Tryfor Nkuna

Ntlahla Ntsadu
 Stephen Thomas Paine
 Jost Pfafferott
 Tefo Pilane
 (With first class honours) Sadhana Ravikumar
 Luqmaan Rawoot
 Portia Mpho Seshabela
 Haroun Ahmed Shaik
 Nicholas Gregory Sjoberg
 Maame Ampebah Tabiri
 (With first class honours) Tyrone Jade Van Balla
 Felicity van Wyk
 Vinay Varghese
 (With honours) Dylan Edward Venter

DEGREE OF BACHELOR OF SCIENCE IN ENGINEERING

In Electrical and Computer

Engineering:

(With first class honours) Anurag Arnab
 *Lorna Okeng Atim
 Devique Barkley
 (With honours) David Ross Brennan
 Laszlo Ulrich Buis
 Yannick Remy Ishimwe Butorano
 (With honours) Anant Dole
 Daniel Hangone
 (With first class honours) Nicholas Stephen Hoernle
 (With honours) Lloyd Walter Kammies
 (With honours) Han Kyu Kim
 Glenn Tinotenda Madzonga
 (With first class honours) Tshiamo Motaung
 (With honours) Lidunda Gustav Moyo
 Masande Mtintsilana
 (With honours) Mrinal Munbodh
 (With honours) Joseph Sheunesu Muziki
 (With honours) Devin Nicholas Norman
 (With first class honours) Michael Brian Seymour
 (With honours) Nataizya Sikasote
 (With honours) Malavika Suresh
 Paul James Wambi

DEGREE OF BACHELOR OF SCIENCE IN ENGINEERING

In Electro-Mechanical

Engineering:

(With honours) Nicholas James Bestbier
 (With honours) Kieran Bryce Donnelly
 Azhar Firfirey
 Jonathan Julian George
 (With honours) Richard Joshua Gurwitz
 (With first class honours) James Haydn Hepworth
 (With honours) Kelsey Lee Hilton
 (With honours) Nicholas John Hunt
 *(With honours) William Geoffrey Knight
 (With first class honours) Joshua Simon Kotlowitz
 (With honours) Elizabeth Kruse
 Tshilidzi Victor Mamegwa
 Takedi Clement Mashala
 (With first class honours) Rowan Charles Nicholls
 (With honours) Christopher Jack Parker
 Silindile Desiree Qwabe
 (With honours) Florian Michael Reiner
 (With honours) Matthew Wayne Shaw
 (With honours) Michael John Shires
 Joel Aguiar Sousa
 Yu-chao Tang
 Mudindivhathu Tshivhombela
 Nicholas Walker

DEGREE OF BACHELOR OF SCIENCE IN ENGINEERING

In Mechanical Engineering:

Rama Ochieng Afullo
 (With honours) Saajidah Badroodien
 Bonginnhlanhla Broderick
 Bhekiswayo
 Andrea Bodill
 (With first class honours) Warwick Walter Bradfield
 Emma Margaret Brunette
 Risuna Chavalala
 Takura Chimbuya
 Gregory Anthony Christodoulou

James Alan Christopher (With first class honours) Abby Leigh Davidson Scott Davies (With honours) Leo Victor Davis (With first class honours) Matthew De Haast Jonathan Alan De Vrye Matthew Jacob Docherty Colin Francois du Sart Daniel Eferemo (With first class honours) Dylan Robert Evans Harren Fakir Emmanuel Gwe Funtih Masande Gomomo Shuo Guo (With honours) Lukhanyo Gwayi (With honours) Zavier Alexander Haddad *Kyle Mcleod Harris *David Earl Haveron (With honours) Benjamin Graham Henshall Timothy John Hewitt Lungile Patience Hlatshwayo George Pui Kong Ho (With first class honours) Junaid Esmail Hussien Phillip Stanley Justus (With honours) Sebastian Wolfgang Kellermann Itumeleng Kgaladi James Alexander Gibson Kilroe (With honours) Kunwar Kochar Hoosein Kotwal Lindsay John Kotze (With honours) Alexis Jacques Brian Simon-Pierre Le Clézio Tumisang Legodi Bryan Luke Leibbrandt Kelebogile Lepodise Helen Liedtke (With first class honours) William Deng Cheong Liw Tat Man Promise Tebogo Majoe Mashudu Lucky Makhado Mufarisi Priscilla Manyuha Khethele Khayelihle Maphalala Themba Brian Justice Masingi (With honours) Justin David Mathew Simukai Charity Matshalaga (With honours) Matthew Robert Meas Cannelle Metang Tefoung Nathan Henry Meyer	Zama Mhlanga Mohammed Abu Khalid Mohiudeen Tebogo Montshioane Edwin John Mooney Kabelo Sethaba Jacques Motadi Nthateng Maria Mphofu Mulanga David Muleka Michael Frank Mullineux Marang Khotla Mutloatse Sibonelo Sanele Myeza *Lesedi Nake *(With first class honours) Vishaal Narkedamalli Ntombizethu Ngema (With honours) Tinashe David Nhira Lwazi Pambuka Donna Bianca Pause Robert John Pheiffer Michiel Simon Pieterkosky Wilhelm Helmut Rabe (With first class honours) Viraj Kiran Ranchod Karabo Macdonald Raphefo Sven Reisinger (With honours) Andrew Roginsky (With first class honours) Alan Neil Rossouw (With honours) Cameron Scott Sheehan Kashir Singh Jonathan Alan Smith Tracey Anne Stevenson (With first class honours) Byron Stuart Sykes Thomas Maarten van der Ploeg *(With honours) Peter Douglas van de Ruit Kevin Van Eeden (With first class honours) Lee- Anne Welgemoed DEGREE OF BACHELOR OF SCIENCE IN ENGINEERING <i>In Mechatronics:</i> (With first class honours) Nicolas Daniel Exner Baumann (With honours) Matthew Leigh Behrens (With honours) Ridhaa Benefeld (With honours) Alon Bernitz Fabrice Mashala Beya Nicola Bradley Tyrrell Brown *Caroline Elizabeth Buckner	(With honours) Louis Frederik Buys Pride Chiwaridzo Sean Robert Collings (With honours) Daksha Dabee (With honours) Miguel Quintal De Andrade Jared du Plessis (With first class honours) Anna- Marie du Plooy Jason Charles Forte Hylton Foster Ming Gao Nevin George *James Michael Gillard (With honours) Kimesh Govender Courtney Elizabeth Healey Jason Paul Heineberg Khaleel Hendricks Jessica Hobson (With honours) Stephanie Cavale Jonkers (With honours) Mohamedreza Mohamediqbal Kalyan Darryn Kelz Khojane Elliot Khethisa (With honours) Ross David Kohler (With honours) Himal Kooverjee Taiani Lange Simon Alexander Cole Lewis Sebastian Manock Lopes Pereira (With honours) Mohamed Wasim Lorgat *(With honours) Brett Christian Maeyer Jiten Mangalparsad Timothy Mwita Marwa Thobo Bernard Mmopi *Sulayman Maajied Moos Danilo Scherf Queiros Petrus Tefo Radebe (With honours) Carl Ronald Schoombie Trishen Sewpaul (With honours) Stacey Leigh Shield Salebona Mfanufikile Shongwe (With honours) Divij Soobhug (With honours) Peter Michael Staegemann Neil Francois Steenkamp Mikhail Benjamin Todes Keegan Ralph Veldsman (With honours) Nicholas Ross Von Klemperer Ryan Evan Wolf *Oung Tak You
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DEGREE OF BACHELOR
OF SCIENCE (HONOURS)
IN MATERIALS SCIENCE

Whitley Liza Makhari
Candice Chanelle Mias
*Hiranya Michaela Naicker
Tangedzani Netshifhefhe
Anitah Amanda Nkuna
Thobani Paul Shangase
*(With distinction) Cameashree
Subbrayan
*Jonathan Sean Tatz
Iosif Vazirgiantzikis

DEGREE OF MASTER
OF ENGINEERING

In Engineering Management:
Gideon Jacobus Grobbelaar

DEGREE OF MASTER
OF ENGINEERING

In Radar & Electronic Defence:
Alan John Jones
Tjantji Samuel Matemane

DEGREE OF MASTER
OF PHILOSOPHY

In Energy Development Studies:
Jonathan Peter Frick
Raymond Chengetai Takuba

DEGREE OF MASTER OF
SCIENCE IN ENGINEERING

In Chemical Engineering:
Gregory Arnold Crymble
*Martin Patrick de Beer
Noluntu Dyantyi
Colleen Jackson
Thulile Patricia Khoza
Matthew Anthony Koen
Avela Kunene
Lebohlang Macheli
Malebelo Catherine Maphutha
(And that the degree was
awarded with distinction in
the dissertation)
Pharaoh Kudzaishe
Muzanenhano
*Bismark Donkor Sarpong
Monique Smit

*Andre Peter Steynberg
Motena Rahab Takalimane
Li-Hsin Tsui

DEGREE OF MASTER OF
SCIENCE IN ENGINEERING

In Electrical Engineering:

*Sisa James
*Umur Kathree
Geoffrey Frank Kilpin
*Ben Ross McInnes
Patrick Hezron Mwangi Muthui
Samuel Ogunniyi
Katherine Sarah O'Regan
Samson Oluwashina Orimolade
*Avinash Ramdhin (And that the
degree was awarded with
distinction in the dissertation
and the degree with
distinction)

*Magnaem Ngendina Simon

DEGREE OF MASTER OF
SCIENCE IN ENGINEERING

In Materials Engineering:

Nasheeta Hanief
Tapiwa Silas Tevera

DEGREE OF MASTER OF
SCIENCE IN ENGINEERING

In Mechanical Engineering:

Roger de Smidt
Roberto Luis Nunes Gomes
Anthony Govender
Excellent Zibhekele Gwebu
Thanyani Abson Pandelani
Gregory Maurice Sinclair (And
that the degree was awarded
with distinction in the
dissertation)
Severin Tenim (And that the
degree was awarded with
distinction in the dissertation
and the degree with
distinction)
William Paul Tipping-Woods

DEGREE OF MASTER OF
SCIENCE IN ENGINEERING

*In Sustainable Energy
Engineering:*

*Gordon Brian Kernick
Tiisetso Maseela
Immaculate Angela Masembe

DEGREE OF DOCTOR
OF PHILOSOPHY

In Chemical Engineering:
Rethabile Bonang Melamu
Thesis Title: *Waste-
based bioenergy – beyond
assessments of potential into
implementation*

Rethabile Bonang Melamu has a BSc(Eng)(Chemical Engineering) and an MSc(Eng) from UCT. After obtaining her master's degree, she worked as research officer in the Chemical Engineering Department at UCT, on questions of sustainability of biofuels production. The increasing realisation that biofuel crop production carries significant environmental risks led her to define her PhD research around waste-based biofuels instead.

Rethabile Bonang Melamu's thesis examines why biogas technology lags so far behind in South Africa relative to other countries, despite repeated published assessments of its significant potential. She shows that the theory of technology innovation systems can describe the recent growth in technical and social innovation regarding renewable energy technologies in the country, but also that imitation is at least as important a driver as innovation. Complementing these observations, she presents evidence that her own action-based research, using a combination of fortuitous and carefully prepared interventions, based on the theory of technology innovation systems, may have catalyzed aspects of the establishment of a biogas industry. The project to install and manage

a biogas digester at Leo Marquard Hall, which she led, played a role in these developments.

Supervisor: Professor H von Blottnitz (Chemical Engineering)
Co-supervisor: Professor F Petersen (Chemical Engineering)

In Chemical Engineering
Johannes Jakobus Steyn
Thesis Title: *Developing a framework for the design of the milling and rougher circuits for a platinum-bearing UG2 ore*

Johan Steyn was born in the Free State, in Welkom, and attended Potchefstroom University, where he graduated with a BEng (Chemical Engineering) in 1994, and an MEng (Chemical Engineering) in 1997.

Johan Steyn's thesis is focused on the development of a methodology for the design of processes to beneficiate platinum bearing ores, particularly ore from the UG2 reef of the Bushveld Complex, the main source of the platinum currently mined in South Africa. In particular, the interrelationship between the mineralogy of the ore and the method used to grind it to a size suitable for recovery of the platinum minerals in a froth flotation process was investigated on a pilot scale, using a variety of equipment and flow sheet configurations. A mathematical model was used to establish a set of principles that can be used to design process flow sheets tailored to suit the mineralogical characteristics of the feed ore. It was shown how these principles can be used to design cost and energy efficient processes for more complex ores, which will be of ever increasing importance as the simpler sources of platinum are depleted.

Supervisor: Mr M Harris (Chemical Engineering)

In Electrical Engineering:
Chris de Beer
Thesis Title: *Condition monitoring of polymer electrolyte membrane fuel cells*

Chris de Beer has a BEng and BEng(Hons) from the University of Pretoria, and an MSc from UCT. His research in fuel cells results from his MSc and industrial experience in power generation systems. During his PhD he was a visiting research scholar at Texas Tech University in the USA.

Chris de Beer's thesis aims to develop fuel cell condition monitoring systems that enable early fault detection and enable appropriate mitigation control. Detailed studies on the fault/degradation mechanisms prevalent in the cell materials were conducted resulting in the development of advanced detection, classification and fault mitigation strategies. Specific consideration was given to the analysis of the fault mechanisms in High Temperature Polymer Electrolyte fuel cells that are not yet fully understood and quantified. In particular, electrochemical equivalent circuit models and reduced order semi-empirical models are developed to facilitate fault detection. Based on these models, mitigation strategies for specific faults are proposed and experimentally verified. Chris de Beer extends the experimental and analytical framework in electrochemical cell condition monitoring by developing online transient response evaluation algorithms using advanced signal processing techniques and proposing a new optimised broadband impedance spectrum analysis system.

Supervisor: Associate Professor P Barendse (Electrical Engineering)
Co-supervisor: Professor P Pillay (Electrical Engineering)

In Electrical Engineering:
Oluwafemi Ipinnimo
Thesis Title: *Intelligent voltage dip mitigation in power networks with distributed generation*

Oluwafemi Ipinnimo has a BEng from the University of Ado-Ekiti and an MSc from the University of Lagos in Nigeria. His PhD research results from his teaching experiences in the Department of Systems Engineering at the University of Lagos, where he has been an academic staff member.

Oluwafemi Ipinnimo's thesis develops a novel technique using intelligent artificial neural network (ANN) approach to facilitate voltage dip mitigation in power networks through ancillary services provided by grid-integrated renewable distributed generation (RDG). The aim of the proposed intelligent system is to eliminate the power quality problems arising out of voltage dips in a power network, thereby affecting power quality sensitive loads. This scheme evaluates and compares the classified dip types after detection, provides distinctive characteristics of each class and guides the utility in selecting judiciously a RDG-based voltage dip mitigation scheme. The result obtained for South African utility voltage dip windows reveals that when RDGs are connected into the network, the severity of voltage dip occurrence are definitely reduced then when they are disconnected. This result may be used for improving the voltage quality, since a wrong mitigation solution can worsen power quality problems in the power network.

Supervisor: Dr S Chowdhury (Electrical Engineering)

In Electrical Engineering:
*Michael Juma Saulo
Thesis Title: *Penetration level of un-conventional rural electrification technologies on power networks*

Michael Saulo has a BTech from Cape Peninsula University of Technology and an MSc(Eng) in Electrical Engineering. He has published a number of research papers while writing his PhD thesis.

Michael Saulo's thesis examines the penetration level of unconventional rural electrification (URE) technologies on power networks. Using both qualitative and quantitative data, he finds no apparent optimum point of penetration for capacitor coupled sub-station (CCS) or auxiliary service voltage transformer (ASVT) on power networks. On the contrary, he established from simulations and analysis that there is an optimum number of CCS/ASVT units that could be installed in a particular power transmission network. His analysis proves that the optimum penetration level of CCS/ASVT on power network is dependent on the transmission line parameters, the size of the divider capacitors or impedance of the ASVT used and the real and reactive power of the load on the CCS/ASVT. Both sub-station based technologies are applicable to high voltage transmission lines as long as appropriate penetration level analysis are performed with respect to voltage sensitivities analysis for CCS and surge impedance loading (SIL) for ASVT systems. The analysis for these URE technologies on power network should be based on the optimum penetration level of the URE acceptable at steady and transient state without violating the allowable voltage limitation.

Supervisor: Professor CT Gaunt
(Electrical Engineering)

In Electrical Engineering:
Craig Andrew Tong
Thesis Title: *A scalable real-time processing chain for radar exploiting illuminators of opportunity*

Craig Tong has a BSc(Eng) in Electrical and Computer Engineering from UCT. His PhD thesis emerged as a result of the promising output generated from radar processing and system software developed during final year and masters level research.

Craig Tong's thesis presents the systematic design of a scalable real-time processing chain for commensal radar systems, which are radars exploiting the FM broadcast band transmitters as "illuminators of opportunity". The processing chain allows for real-time execution of processing stages including data acquisition, interference suppression, range/Doppler processing and finally target detection. The processing chain automatically scales to multiple, general purpose graphics processor units, thereby exploiting the maximum performance of the available hardware. Furthermore, employing efficient data transport design, efficient memory management and using a highly pipelined data flow minimises the chain latency. The result is software that can be used to evaluate prototype commensal radar systems in real-time using a simple low-cost desktop computer platform equipped with a suitable graphics co-processor. This real-time analysis capability is considered critical to the further development of the key technology that is commensal radar.

Supervisor: Professor M Inngs
(Electrical Engineering)
Co-supervisor: Dr A Mishra
(Electrical Engineering)

In Electrical Engineering:
*Janet Ruth Wyngaard
Thesis Title: *An investigative FPGA implementation of a many core processor, in support of a fortran auto-parallelisation software pipeline*

Janet Wyngaard has a BSc(Eng) in Mechatronics from UCT. Her PhD research is the result of upgrading an MSc, also begun at UCT, in collaboration with the Centre for High Performance Computing.

Janet Wyngaard's thesis explores the hypothesised concept of many-core architectures, as proposed by Intel fellow S. Borkar. Specifically examining how such might be used in high performance computing (HPC), and considering the barriers facing the industry (most notably the power and memory walls). In order to do so, Janet Wyngaard developed a prototype many core architecture, to be used in conjunction with a pre-existing Fortran autoparallelising compiler. Having been implemented on an FPGA, it is possible to make inferences regarding the potential performance and cost metrics of an equivalent ASIC implementation. These inferred results reveal the practical possibility of significant efficiency gains through many-core architectures, as well as demonstrating the functionality of autoparallelising Fortran on a very fine granularity. Collectively this work contributes to narrowing the field of exploration, within which means of energy efficient performance gains in HPC might be sought.

Supervisor: Professor M Inngs
(Electrical Engineering)
Co-supervisor: Mr P Collins
(Electrical Engineering)

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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.

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Our research-led identity is shaped by a commitment to:

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- 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.

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- stimulating the love of life-long learning;
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- 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;
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- 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;
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- is welcoming as a meeting space for scholars from Africa and around the world.

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