FACULTY OF ENGINEERING AND THE BUILT ENVIRONMENT (CEREMONY 2)

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 Master of Ceremonies will introduce the guest speaker.

Address by guest speaker.

The graduands and diplomates will be presented to the Presiding Officer by the Dean of the faculty.

The Presiding Officer will congratulate the new graduates and diplomates.

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 and diplomates, 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.

NAMES OF GRADUANDS/DIPLOMATES

Graduation ceremony suspended because of Covid-19. All graduated in absentia at a special Congregation of the University of Cape Town on 17 March 2020.

1. FACULTY OF ENGINEERING AND THE BUILT ENVIRONMENT

Dean: Professor A Lewis

POSTGRADUATE DIPLOMA IN POWER PLANT ENGINEERING

Roxsanne Alexsandria Gordon Alfred Kehla Tshabalala

DEGREE OF BACHELOR OF SCIENCE IN ENGINEERING IN CHEMICAL ENGINEERING

Farhana Allie (with first class honours) Tyler Daniel America

Michael Chinonso Azih (with honours)

Jacques Bagraim (with honours)

Sheena Bemanya (with honours)

Graeme Clive Betty (with first class

honours)

Sibabalwe Boko

Jason Samuel Frederick Botha

Saphron Brown (with honours)

Riyaal Nashayir Cerpath (with honours)

Carla Tatum Cloete (with first class

honours)

Christine Colleen Court (with honours)

Megan Celia Denny (with honours)

Daniel Campling De Oliveira (with first class honours)

Ilse Du Plessis (with honours)

Anam Ninzi Dweba (with honours)

Laylaa Ebrahim (with honours)

Kelly Melanie Fahn (with honours)

Sheanesu Praise Fungura

Luke James Garrod (with honours)

Tshiamo Geneke

Terri-Anne Glass (with honours)

Caitlin Govender (with honours)

Danaly Govender (with honours)

Felix Ashton Guni (with honours)

Ngcebo Gwala

Amy Louise Hislop (with honours)

Lusanda Brighton Hlela

Charles Robert Houston (with first class honours)

Piers Richard Neville Johnston (with first class honours)

Namhla Juqu (with honours)

Uzair Kadir (with honours)

Imrah Kamedien (with honours)

Azra Khan (with honours)

Tsepang Khoboko

Philip Charles Kridiotis (with honours)

Lisa Tatenda Kumadiro (with first class honours)

Terri Ann Lakey (with first class honours)

Anam Magudu

Reagan Mlamuli Makhanya

Rudolf Makhubela (with honours)

Matome Petros Malatji

Julius Mbimbi-Ikoli Manjo

Justin Matthew Marcus (with first class honours)

Simbarashe David-Nigel Mariwande (with honours)

Fhulufhelo Hope Mathegu (with honours)

Boitumelo Matlakala

Boitumelo Mamogobo Matjomane

(with honours)

Dennis Tinotenda Matogo

Mkhuseli Mbhele

Laurence Illing Midgley (with first class honours)

Ayanda Fortunate Mncina (with honours)

Faizel Mohamed (with honours)

Mumdouh Mohamed

Mashudu Mokhithi

Liam Alan Moran (with honours) Lebohang Mphono (with honours)

Sifiso Vincent Mpila

Lunako Inga Mthenjana (with first class honours)

Rufaro Chantelle Mukwenya (with

honours) Mellisa Tanaka Mundida (with first

class honours)

Kate Amy Graham Murphy (with

honours)

Linda Ashley Mwendia (with honours)

Charles Myrtle Sharlene Naidoo

Michael Sekiette Ngau Takudzwa Ngwenya (with honours)

Natasha Nkabi

Everjoice Tendai Nyaruwata (with

honours)

Jabulani Junior Nyathi (with first class honours)

Scott Bruce Pinto (with honours)

Lobiane Francis Ponto (with honours)

Chesley Kearn Rogerson

Jason Robin September

Tumelo Jacob Sethosa

Matthew John Shaw

Shurah Mohamed Sheikh

Mandisa Nicholate Shozi

Bafana Sibiya

Dane Aldrin Smith

Jody Lee Smith (with honours)

Daichong Song (with honours)

Karen Kathleen Nalubula Ssekimpi

Michael Tremaine Thomson (with first class honours)

Avuyile Wali (with honours)

Reuben Donovan Walters

Louis Frans Jacobus Wentzel (with

honours) Chloe Ann Wileman (with honours)

Mosola Eric Xaba (with honours)

Victor Sifiso Xaba

DEGREE OF BACHELOR OF SCIENCE IN ENGINEERING IN ELECTRICAL ENGINEERING

Michael Ranjit Alummoottil (with first class honours)

Nathan Tanaka Chijara

Mishaal Gangaram (with honours)

Mvuyisi Jali

Ziphezinhle Ntokozo Kazi (with

honours)

Thokozile Tavasi Khosa (with honours)

Nyasha Ernest Mashanda (with

honours)

Tshwanelo Tsholanang Mathwai (with honours)

Orefile Mothapa

Anesuishe Nyanjowa (with honours)

Ishani Patel (with honours)

Tshilidzi Samuel Ramunenyiwa

Yolanda Sangweni

Evans Lekoba Tjabadi (with first class honours)

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

Anran Chen (with first class honours) Matthew James Copley (with honours)

Kai-Yu Feng Tejas Mahendra Zinzuwadia (with first Samuel Christiaan De Beer (with Viveshan Govender (with honours) class honours) honours) Tapuwa Dhliwayo Mthobi Neo Hlabangana Andrew Hlupo Francis Yusto Eseko Yohennas Folly (with honours) Samuel Peter Jacobs (with honours) DEGREE OF BACHELOR OF Tinashe Raphel Jambo SCIENCE IN ENGINEERING IN Adam Godlonton Alexander James Jordi (with first class MECHANICAL AND MECHATRONIC Heng Rui Guo (with first class honours) **ENGINEERING** Christopher Howard Hill (with honours) honours) Peter Dylan Ilsley (with honours) Brian David Joubert Ritiiua Guv Kahuure Mitchell Rogan Antonites Matteo Kalogirou (with honours) Kelsey Paige Kaplan (with first class Tamuka Calvin Keche Bronwen Katharine Barratt (with first Chantelle Britten Kee Tui (with class honours) honours) Nyashadzaishe Bryan Katemauswa Zakiyyah Brown honours) Keneilwe Kgwerano Kekana David Laurence Bruchhausen (with first (with honours) Ndumiso Mpumelelo Khumalo Ananta Yakshi Kistnah class honours) Tadiwanashe Mazara (with honours) Mcebo Zizwe Mabandla Mahlalela Liam Sean Fitzgerald David Ciaran Alan Mckey (with Tsholofelo Maphefo Mamogale Peter Kirk James Frost (with first class Mogamad Yusuf Maneveld honours) honours) Elliott Charles Gordon (with first class Tato Nathnael Moaki Lutho Luke Mangwana Elle Mouton (with first class honours) Tshepang Templeton Mapiti honours) Kevin Mark Murning (with honours) Ambrose Lebogang Marumo Craig Peter Haird Thokozane Mashinini (with honours) Ferdinand Halle-Ekane Tchoupe (with Joash Nicholas Naidoo (with honours) James Barlow Mills honours) Prejlin Naidu Makabongwe Mthunzi Nkabinde Lerato Sinah Moloi Marco Costa John Jake Jay Pencharz (with first class Sibonele Moyo Tlotliso Tlotliso Jonas (with honours) Thendo Shaun Muthambi (with Marius Ruben Lang (with honours) honours) Stefan Schroder (with honours) honours) Michael Alexander Mackenzie Ronewa Mashudu Netshitangani (with Dihlwadieme Donald Makena Tamir Yaakov Shklaz (with first class Uzair Manack (with first class honours) honours) honours) Senyo Michael Simpson (with honours) Siso Albert Nggolosi (with honours) Tafadzwa Gordon Nyazika (with Joshua Eytan Stein (with first class Mario Joseph Nithyanathan (with honours) Katherine Francis Pannell (with honours) honours) Thomas Joseph Tumiel (with first class Xabiso Phiwe Ntloko honours) Kabir Avtar Prema honours) Athenkosi Ntoyise Max Nikoi Van Der Merwe (with Siphamandla Sphelele Nzuza (with Kelly Jane Rushmere (with honours) Daniel George Slater honours) honours) Keyurkumar Kamleshbhai Patel (with Craig Grant Souter (with first class first class honours) honours) DEGREE OF BACHELOR OF Brandon Richard McEwan Tattam (with Deharen Pillay first class honours) SCIENCE IN ENGINEERING IN Kaylan Pillay Renita Anand Raidoo (with honours) Anthony Paul Marshall Tennick (with MECHANICAL ENGINEERING Girindra Ramgobin (with first class honours) Nicholas John Trafford (with first class Nhlohlorhi Baloyi (with honours) honours) honours) Jonathan Stuart Bampfield-Duggan Tyler Reichardt (with honours) Christopher Guy Reid (with honours) Khusheel Vallabh (with first class Matthew Peter Barry honours) Michael Anthony Jared Ross William John Warne Jeremy Sean Blasco Badee Ahmed Samsodien Sven Elgin Weihe (with first class Elrich Botha (with first class honours) Thabang Gregory Sebetoane Nayika Brijlal Tumishang Mahosi Selamulela honours) Malcolm Mckinley Wright (with Caitlin Jane Boden Brinkley Elke Diane Christie Solot (with Junnuth Hussein Caunhye honours) honours) Halima Bibi Chand (with honours) George Sabu Thanathara Thaabiet Charles Laura Beth Thompson DEGREE OF BACHELOR OF Alec James Cole Daisy Mutheu Tumbo Julian Dean-Brown (with honours) Luke Laurenson Van Schaik (with SCIENCE IN ENGINEERING IN **MECHATRONICS** Jacques Francois De Klerk (with first honours) class honours)

Timothy James Allman (with honours)

Tanweer Edwards (with honours)

Nicholas Haddon Anderson (with first class honours)

Nicholas Antoniades

Johnathan Peter Beukes

Marion Alexandra Boynton (with honours)

Dale Geordie Brenchley (with honours)

Kieran Michael Cattell (with honours)

Hashil Channa

Kavish Chauhan (with honours)

Moegamad Ameer Conrad (with honours)

James Robert De Villiers (with honours)

Irshaad Abdul Dodia (with first class honours)

Stefan Dominicus (with first class honours)

Towfeeq Ahmad Gasant (with honours)

Ameen Ghoor

Graeme Robert Harris (with honours)

Carl William Haydam (with first class honours)

Shawn Richard Hillary

Meet Harish Chandra Jiva (with first class honours)

Shai Dakota Kadish (with first class honours)

Mahomed Elia Khomo

Max Meredith Kingwill (with honours)

Kwabena Amoah Oppong Koraheng

Ross Trevor Lewis

Stuart Alexander Lunt (with honours)

Thomas Massinissa Maaza (with honours)

Suprise Dineko Mahlangu (with honours)

Mziwakhe Boniface Makhaya

Bontle Mere

Luke John Michael Metcalfe (with

honours)

Justin Jonathan Middleton (with

honours)

Adam Mukuddem (with honours)

Ferial Najaar (with honours)

Thapelo Nthite

Jonathan David Somerset Oehley (with

first class honours)

Aadam Anwar Osman (with first class

honours)

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Graham Andrew Peto

Dewan Pieterse (with honours)

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Devin Michael Stickells (with first class honours)

Matthew David Tait

Daniella Ida Teixeira (with honours)

Musa Les Thokwe

Kukhokuhle Tsengwa (with first class honours)

Abdul Wahab Van Reenen

Jason Alfred Zebert (with honours)

DEGREE OF BACHELOR OF SCIENCE HONOURS IN MATERIALS SCIENCE

Raeesa Mahatey

Keamogetswe Jane Makhaya

Lerato May (with first class honours)

Sthabiso Mhlongo

Mahlako Mphahlele

Ngeleka Marco Mukuna (with first class

honours)

Josephine Agisanang Ngoase Madimetja Peter Tlowana

DEGREE OF MASTER OF ENGINEERING

In Nuclear Power:

Fadeelah Kenny

DEGREE OF MASTER OF PHILOSOPHY

In Nuclear Power:

Best Khoza

In Sustainable Mineral Resource

Development:

David Gabriel Viljoen (with distinction)

DEGREE OF MASTER OF SCIENCE IN ENGINEERING

In Electrical Engineering: George Hilton Gabriels

Abdurahman Daleel Lilla

Ivani Molver

In Mechanical Engineering: Nicolaas Johannes Hallatt

DEGREE OF DOCTOR OF PHILOSOPHY

In Chemical Engineering: Cledwyn Tawanda Mangunda Thesis Title: An investigation into Fe(III) oxy-hydroxides precipitation in lime neutralization processes

Cledwyn Mangunda completed his BEng (Hons) and MEng qualifications at the National University of Science and Technology (NUST) in Bulawayo, Zimbabwe. He worked in the food and timber processing industries and then pursued a career in academia before joining UCT for his PhD studies in 2015.

Cledwyn Mangunda's thesis focuses on understanding the influence of operating conditions on the product characteristics and solid-liquid separation of iron solids formed during the lime treatment of acid mine drainage (AMD). His investigation covers low feed iron concentrations systems. similar to those which pose AMD treatment challenges, and how changes in these iron concentrations influence dewatering behaviour. He proceeds to look at how moderate variations in temperature, amount of neutralising agent, and extended periods of elevated temperature treatment influence the settling and filtering of the iron solids. He further unpacks the complex nano and micro-structure of iron solids, thereby establishing a systematic relationship which links operating conditions to product characteristics and consequent improvements in solid-liquid separation. The findings will inform AMD treatment processes with potential improvements to operating conditions that will lead to reduced deposition of iron solids to landfills and enhance water recovery.

Supervisor: Professor AE Lewis (Chemical Engineering) Co-supervisor: Professor J Petersen (Chemical Engineering)

In Electrical Engineering: Stanislaus Ogechukwu Nnadih Thesis Title: Multi-wavelength observations of sprites over southern Africa

Stanislaus Nnadih is a physicist from Enugu State University of Science and Technology, Nigeria. He joined SpaceLab in the Electrical Engineering Department at UCT in 2015 for his PhD studies. He is an alumnus of the International Space University and a staff member of the Nigeria Space Agency.

Stanislaus Nnadih's thesis focuses on observing upper atmospheric lightning phenomena known as sprites, which are often described as electrical discharges in the mesosphere following an active thunderstorm. Although the sprite phenomenon was anecdotally reported over Johannesburg in 1937, for many years there were no active sprite-related research programmes in Africa, despite it being a lightningrich continent. In 2016, Stanislaus Nnadih began an observation campaign at the South African Astronomical Observatory in Sutherland and recorded the first images of sprites in southern Africa. He also made several other observations of these elusive events in 2017 and 2018. His study shows that the average occurrence rate for sprites in southern Africa is 0.14 sprites/ minute and suggests that the average characteristic electron energies and the strength of the electric fields in sprites were 5.5 eV and 150 V/m, respectively.

Supervisor: Professor P Martinez (Electrical Engineering) Co-supervisor: Professor M Kosch (South African Space Agency, Hermanus)

In Sustainable Energy Engineering:
Deepti Charitar
Thesis Title: Exploring the potential of nanofluids to enhance the productivity of solar stills

Deepti Charitar holds a BSc(Eng) in Chemical Engineering and MSc(Eng) in Sustainable Energy Engineering from UCT. After completing her bachelor's degree, she worked as a Technical Officer in Mauritius for some months before returning to UCT for her postgraduate studies.

Deepti Charitar's thesis focuses on the use of nanofluids in solar stills. A solar still is a device which uses solar energy to produce potable water from saline water. Nanofluids provide an attractive means of increasing the productivity of a solar still. The study examines, both theoretically and experimentally, the effect of nanoparticle size on the productivity of solar stills. This was achieved by developing a novel mathematical model incorporating the view factor for solar stills with nanofluids. Identical solar stills were designed, built and tested under the same climatic conditions. It was found that the productivity of a solar still decreases with increasing nanoparticle size. Nonetheless, the mathematical model for the nanofluids was only marginally sensitive to nanoparticle size although the effect of nanoparticle size on distillate yield was experimentally significant. A key implication of the findings is the need to develop accurate thermophysical correlations for nanofluids.

Supervisor: Dr A Madhlopa (Mechanical Engineering)

In Mechanical Engineering:
Patrick Udeme-Obong Akpan
Thesis Title: Impact on heat rate and subsequent emissions due to varying operation of coal fired power plants

Patrick Akpan holds a BEng in Mechanical Engineering from the University of Nigeria (UNN) and an MSc in Process Systems Engineering from Cranfield University. He has seven years teaching and research experience at UNN and joined the department of Mechanical Engineering at UCT in 2016 for his PhD studies.

Patrick Akpan's thesis focuses on the development of a novel and simple Variable Turbine Cycle Heat Rate (V-TCHR) model for predicting the partial load thermal performance of different Coal Fired Power Plant (CFPP) architectures. This model will

enable more accurate CO2 emissions impact studies for electrical networks with a substantial renewable generation. The research begins with development and validation methodologies for setting up representative CFPP process models using the Virtual Plant software. The thermal performance of 192 process models was investigated at various partial load conditions. The observations drawn from the data led to the development of the V-TCHR model. He applied the V-TCHR model in a CO2 emissions impact study of four different hypothetical power system networks. His results show the applicability of the V TCHR model in energy mix modelling, and how one would under-estimate the emissions by 2-9% if variable heat rate is not incorporated into the study.

Supervisor: A/Professor W Fuls (Mechanical Engineering)

ORIGIN OF THE BACHELOR DEGREE

The term 'Bachelor' derives from ancient ceremonies (the first such was believed to have been at Oxford in 1432) held to honour achievements of scholarship. The word derives from bacca lauri (laurel berry). Instead of the hoods we use today to signify your graduation, graduands of old wore garlands of laurel leaves and berries.

So the term has nothing to do with our modern understandings of what being a bachelor means, and everything to do with a long tradition of celebrating high achievement.

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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Platinum Circle

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

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Tshemba Charitable Foundation NPC
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WK Kellogg Foundation, USA

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Limited
Attorneys Fidelity Fund
Aurecon South Africa (Pty) Ltd
Aurum Charitable Trust
The Beit Trust
BHP Billiton Development Trust
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Cape Gate (Pty) Ltd, Vanderbijlpark
Capebridge Trust Company (Pty) Ltd
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The Children's Hospital Trust
CHK Charities Ltd
The Chris Barnard Trust Fund

COC Netherlands

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Dr. Leopold und Carmen Ellinger Stiftung

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Griffith University

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Hanns Seidel Foundation South Africa

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Heinrich Böll Stiftung The Hermann Ohlthaver Trust Hillensberg Trust Bursary

Hope for Depression Research Foundation HR Hill Residuary Trust

HSBC Africa

Humanist Institute for Development

Cooperation

IBA Human Rights Institute Trust

The Indigo Trust

The Institute of International Education Inc Insurance Sector Education and Training

Authority

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Rapcan

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Retina South Africa

Rheinmetall Denell Munition (Pty) Ltd

Rio Tinto Plc

Robert Bosch Stiftung

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Roche Products (Pty) Ltd - Diagnostics

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2816 organisations who have generously shown their support by making a gift to the University of Cape Town.

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Individuals who have bequeathed a legacy Derek Stuart Franklin RM Moss

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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.

A full list of UCT donors is also available at 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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