

**Welcome to the
Graduation Ceremony
of the
University of Johannesburg
7 June 2017 at 17:00**

**Welkom by die
Gradeplegtigheid
van die
Universiteit van Johannesburg
7 Junie 2017 om 17:00**

**Le a Amogelwa
Moletlong wa Dikapešo wa
Yunibesithi ya Johannesburg
7 Phupu 2017 ka 17:00**

**Niyamukelwa
eMcimbini wokweThweswa kweZiqu
weNyuvesi yaseJohannesburg
7 kuNhlangulana 2017 ngele-17:00**

UNIVERSITY OF JOHANNESBURG

CHANCELLOR

Prof NS Ndebele
BA (Lesotho), MA (Cambridge UK), PhD (Denver USA)

SENIOR OFFICE-BEARERS OF THE UNIVERSITY

VICE-CHANCELLOR AND PRINCIPAL

Prof IL Rensburg
BPharm (Rhodes), MA, PhD (Stanford USA)

DEPUTY VICE-CHANCELLOR: ACADEMIC

Prof A Parekh
BA, BA Hons, MA (UDW), MA (Kansas USA), DPhil (UDW)

DEPUTY VICE-CHANCELLOR: RESEARCH AND INTERNATIONALISATION

Prof T Marwala
BS Eng (Case Western Reserve USA), MEng (UP), PhD (Cambridge UK)

REGISTRAR

Prof IC Burger
BA, HEd, BA Hons, MA, PhD (RAU)

DEPUTY VICE-CHANCELLOR: FINANCE

Mr J van Schoor
BCom, BCom Hons (RAU), CA (SA)

DEPUTY VICE-CHANCELLOR: EMPLOYEES AND STUDENT AFFAIRS

Ms KC Mketi
BA (Bophut), BA Hons (RAU), MBL (Unisa)

GENERAL COUNSEL

Prof PH O'Brien
BCom, LLB, LLM, LLD (RAU)

EXECUTIVE DEANS

FACULTY OF ART, DESIGN AND ARCHITECTURE

Prof F Freschi
BA (Wits), BA Hons (UCT), PhD (Wits)

FACULTY OF ECONOMIC AND FINANCIAL SCIENCES

Prof A Dempsey
BCom, BCom Hons, MCom (RAU), CA (SA)

FACULTY OF EDUCATION

Prof SJ Gravett
BA, HEd (PU for CHE), BEd, MEd, DEd (RAU)

FACULTY OF ENGINEERING AND THE BUILT ENVIRONMENT

Prof S Sinha
BEng, MEng, PhD (UP)

FACULTY OF HEALTH SCIENCES

Prof A Swart
NDip, NHDip (TWR), BEd, MEd (RAU), DTech (TWR)

FACULTY OF HUMANITIES

Prof AB Broadbent
BA, BA Hons, MPhil, PhD (Cambridge UK)

FACULTY OF LAW

Prof LG Mpedi
B Juris, LLB (Vista), LLM (RAU), LLD (UJ)

FACULTY OF MANAGEMENT

Prof D van Lill
BSc, BSc Hons, MSc, PhD (US)

FACULTY OF SCIENCE

Prof D Meyer
BSc, BSc Hons, MSc (RAU), PhD (California USA)

MEMBERS OF COUNCIL

CHAIRPERSON

Prof RD Marcus

DEPUTY CHAIRPERSON

Mr MS Teke

MEMBERS

Prof H Abrahamse
Mr FM Baleni
Prof IC Burger
Mr JP Burger
Mr D Bvuma
Ms S Dlamini
Mr TJ Dikgole
Mr CR Gebhardt
Prof D Hildebrandt
Mr G Khosa
Prof C Landsberg
Dr DSS Lushaba
Dr J Manyaka
Ms Z Matlala
Ms BJ Memela-Khambula
Mr RM Mkhonto
Prof A Mohammadali-Haji
Dr Y Ndema
Prof A Parekh
Prof IL Rensburg
Dr WP Rowland
Mr KB Sibiya
Mr K Thomas
Mr J van Schoor
Mr M White

PRESIDENT OF CONVOCATION

Mr RM Mkhonto

Programme

Wednesday, 7 June 2017 at 17:00

To ensure good order during the ceremony all those present are requested to leave the Auditorium only after the ceremony has been concluded.

The academic procession enters the Auditorium and the members of the procession take their seats on the stage.

The choir sings Gaudeamus Igitur (or a CD is played) while those present remain standing.

The Chancellor constitutes the congregation.

Choir.

Welcome.

The relevant Executive Dean presents the candidates to the Chancellor for the conferment of a degree/diploma/certificate.

Singing of the National Anthem.

The Chancellor dissolves the congregation.

The academic procession leaves the Auditorium while those present remain standing.

Lenaneo

Loboraro, 7 Phupu 2017 ka 17:00

Go kgonthiša gore dilo di sepela ka tshwanelo nakong ya moletlo, bohle bao ba tilego moletlong ba kgopelwa go tšwa ka Holong ya kopano feela ka morago ga ge moletlo o phethilwe.

Sehlopha sa dirutegi se tsena ka Holong ya kopano gomme maloko a sehlopha se a dula ditulong tša ona sefaleng.

Khwaere e opela Gaudeamus Igitur (goba CD e tlo bapalwa) mola bao ba lego gona ba tšwela pele go ema.

Mokhanseliri o kopanya phuthego.

Khwaere.

Dikamogelo.

Hlogophethiši ya maleba ya lefapha e hlagiša dialoga go Mokhanseliri gore di newe tikrii/diploma/setifikeiti.

Go opelwa ga Koša ya Setšhaba.

Mokhanseliri o phatlalatša phuthego.

Sehlopha sa dirutegi se tšwa ka Holong ya kopano mola bao ba lego gona ba tšwela pele go ema.

Program

Woensdag, 7 Junie 2017 om 17:00

Ter wille van die ordelike verloop van die plegtigheid
word alle aanwesiges vriendelik versoek
om die Ouditorium nie voor die einde van die plegtigheid te verlaat nie.

Die akademiese proses kom die Ouditorium binne en neem op die verhoog plaas.
Die koor sing Gaudeamus Igitur (of 'n CD word gespeel) terwyl die aanwesiges staan.

Die Kanselier stel die kongregasie saam.

Koor.

Verwelkoming.

Die betrokke uitvoerende dekaan stel die kandidate aan die Kanselier voor vir die
toekenning van 'n graad/diploma/sertifikaat.

Sing van die volkslied.

Die Kanselier ontbind die kongregasie.

Terwyl die aanwesiges bly staan, verlaat die akademiese proses die Ouditorium.

Uhlelo

uLwesithathu, 7 kuNhlangulana 2017 ngele-17:00

Ukuze kuqinisekwe ukuthi konke kuhamba kahle ngesikhathi somcimbi, bonke abakhona
bacelwa ukuba baphume eHholweni kuphela lapho umcimbi usuphuthuliwe.

Udwendwe lezifundiswa lungena ehholweni bese amalungu odwendwe ahlala phansi
esiteji.

Ikwaya icula i-Gaudeamus Igitur (noma kudlalwa iCD) ngalenkathi labo abakhona
besamile.

UShansela uhlanganisa ibandla.

Ikwaya.

Ukwamukelwa.

Izinhloko Eziyiziphathimandla ezithintekayo zethula abafundi kuShansela weNyuvesi
ukuze bathole idigiri/iploma/isitifiketi.

Kukulwa iHubo Lesizwe.

Gaudeamus Igitur

Gaudeamus igitur,
Juvenes dum sumus;
Post iucundum iuventutem,
Post molestam senectutem
Nos habebit humus.

Vivat academia,
Vivant professores,
Vivat membrum quodlibet,
Vivat membra quaelibet;
Semper sint in flore!

English

Let us rejoice, therefore,
While we are young.
After a pleasant youth
After a troubling old age
The earth will have us.

Long live the academy!
Long live the professors!
Long live each student;
Long live the whole fraternity;
For ever may they flourish!

Sesotho sa Leboa

Ka gona, a re thabeng,
Re sa le ba bafsa.
Ka morago ga bofsa bjo bo bose
Ka morago ga go tšofala mo go nago le
mathata
Lefase le tla ba le rena.

Phela thuto phela!
Phelang diprofesa phelang!
Phelang baithuti phelang;
Phela kagišano ka botlalo phela;
O ka re ba ka phela gabotse goyagoile!

Afrikaans

Laat ons dan vrolik wees,
Terwyl ons jonk is;
Na 'n aangename jeug.
Na 'n onaangename oudag,
Sal die aarde ons hou.

Lank lewe die universiteit,
Lank lewe die professore,
Lank lewe elke student,
Lank lewe al die studente,
Mag hulle vir ewig hul jeug behou!

Zulu

Ngakho, masithokoze
Sisebasha nje.
Emva kobumnandi bobusha
Emva kwezinkinga zobudala
Umhlaba uzosithatha.

Phambili ngemfundo!
Phambili boSolwazi!
Phambili nakuwe mfundi;
Phambili ngenhlangano yonke;
Maziqhubeke ngonaphakade!

QUALIFICATIONS

1. National Diploma (NDip)

Apleni, Sinaye Nkosinathi (Engineering: Mechanical)
Baloyi, Mandla Lloyd Basil (Building)
Bhuda, Jonas Mduduzi (Engineering: Chemical)
Bomba, Cebile Caroline Lungile (Engineering: Metallurgy)
Bushula, Tshwarelo (Building)
Cebekhulu, Silvia Sizakele (Engineering: Civil)
Chavalala, Hlulani Mavell (Building)
Chonco, Sabelo (Building)
Cossa, Sibusiso Joseph (Engineering: Mechanical)
Currie, Nkululeko (Building)
Dlamini, Bhekile (Mechanical Engineering)
Gaegake, Pheny Tender (Mining Engineering)
Guimaraes, Vissolela Patricia Pereira (Mining Engineering)
Gule, Kenneth Sizwe (Industrial Engineering)
Gumede, Palisa Emily (Building)
Heeraman, Yashna (Engineering: Chemical)
Hermanus, Olwethu (Engineering: Chemical)
Hlungwani, Vongani (Engineering: Chemical)
Kalambay, Pierce Kalambay (Engineering: Computer Systems)
Kazadi, Mukwampa Clement (Extraction Metallurgy)
Kgasago, Nkekolo Dinah (Engineering: Industrial)
Kgopane, Lesego (Building)
Kgophane, Khomotjo Grace (Mining Engineering)
Khambule, Sibongile Mhlabethi (Engineering: Chemical)
Khosa, Rito Humphrey (Engineering: Civil)
Khoza, Nomcebo Cornelia (Building)
Khoza, Thobelani Thulasizwe Ivan (Engineering: Civil)
Koitsioe, Kearabile Shawn (Extraction Metallurgy)
Kuzwayo, Nontombi (Building)
Ledibane, Pule Mcdonald (Engineering: Industrial)
Leso, Emmanuel Albert (Engineering: Chemical)
Lethuba, Koketso Kanyane (Mechanical Engineering)
Liphoto, Thato Francis (Engineering: Chemical)
Luvhengo, Thilifhedzi (Engineering: Industrial)
Mabala, Rudzani Trinity (Industrial Engineering)
Mabuza, Mbali (Engineering: Chemical)
Maditsi, Modipadi Elra (Engineering: Mechanical)
Madzivhandila, Fulufhelo Aubrey (Engineering: Chemical)
Mahlake, Ntswaki Matilda (Extraction Metallurgy)

Mahlangu, Simangaliso Shepard (Mining Engineering)
Mahlawule, Ashford Cyril (Industrial Engineering)
Mahoma, Linda (Engineering: Industrial)
Majiza, Lethukuthula Samantha Luxolo (Industrial Engineering)
Makgati, Dimakatso Kesentswe (Mining Engineering)
Makgoka, Basetsana Matlou (Building)
Makgopa, Derick Maebe (Engineering: Mechanical)
Makhubo, Ayanda Sfiso Samkelo (Mining Engineering)
Malatji, Molefi Preston (Engineering: Mechanical)
Malindisa, Andile Vuyani (Electronic)
Mampana, Karabo Nicholas (Building)
Manchidi, Kanyane Kgothatso (Engineering: Industrial)
Manganyi, Nkateko (Engineering: Chemical)
Maphanga, Nonkululeko Simlindile (Engineering: Chemical)
Mashele, Makungu Praises (Building)
Masuku, Stanley Jabulane (Engineering: Computer Systems)
Maswabela, Samuel Rampere (Engineering: Electrical)
Mathebula, Ntsakiso Eugene (Engineering: Industrial)
Matlala, Tumelo Faith (Building)
Mawela, Nombi (Mining Engineering)
Mawelela, Goodwill Viyani (Mechanical Engineering)
Mdhuli, Selby Nkosinathi (Engineering: Industrial)
Mhangana, Pardon Ncedi Doctor (Mining Engineering)
Mhlongo, Gabangani Mthuliseni (Engineering: Metallurgy)
Mkhize, Thuli (Building)
Mmolawa, Ikalaheng (Engineering: Civil)
Mnyande, Chuma Yirhakazi (Building)
Mocumi, Onkgomoditse Connie (Building)
Modiokwane, Kagiso Reotshepile (Mechanical Engineering)
Modise, Katlego Elizabeth (Mineral Surveying)
Modise, Kelebogile Mmaselapo (Engineering: Industrial)
Mogane, Portia Ketso (Building)
Mohale, Seeiso (Engineering: Mechanical)
Mohlabeng, Maropeng Glenton (Engineering: Metallurgy)
Mohlahlo, Tumelo Glen (Mineral Surveying)
Mokhoantle, Mpho Innocentia (Extraction Metallurgy)
Mokwena, Mthethwa Golden (Industrial Engineering)
Mokwena, Rebecca Dikeledi (Mining Engineering)
Mokwena, Tumelo Berend (Building)
Moloto, Mosenyi Lesley (Engineering: Chemical)
Monama, Joseph Siphon (Engineering: Mechanical)
Moropane, Mike (Extraction Metallurgy)
Mosako, Emanuel Olebogeng (Mining Engineering)
Moshokwa, Mamasia Prudence (Extraction Metallurgy)
Mothiba, Maametja Alroy (Engineering: Metallurgy)
Motlhabane, Accolade Tiisetso (Engineering: Metallurgy)
Motlhale, Kagiso (Town and Regional Planning)
Motlhose, Motshidisi Petunia (Engineering: Mechanical)

Motsetane, Masiono Rally (Town and Regional Planning)
Motshologane, Tshepang Joseph (Mining Engineering)
Motsisi, Ditshenyegelo Progress (Engineering: Chemical)
Movenda, Lutendo Wisdom (Engineering: Industrial)
Moyo, Efficiency (Engineering: Mechanical)
Mtileni, Ndzalama Valentine (Extraction Metallurgy)
Mujinga Mbuyi, Christelle (Engineering: Metallurgy)
Mziyako, Thandekile (Engineering: Mechanical)
Ncube, Msindisi (Mining Engineering)
Ndlovu, Bongumusa Fortune (Instrumentation Technology)
Ndlovu, Londeka (Town and Regional Planning)
Nemaembeni, Rabelelanani (Engineering: Industrial)
Ngcobo, Sibongakonke (Engineering: Civil)
Ngcobo, Zinhle Simphiwe (Engineering: Chemical)
Nghonyama, Themba Roderick (Town and Regional Planning)
Ngoato, Malewane Phintos (Engineering: Metallurgy)
Ngwenya, Thokozani Thomas (Mining Engineering)
Nhlapho, Bonginkosi Mayford (Mining Engineering)
Nhleko, Sithembile Ngcebo (Engineering: Metallurgy)
Nkabinde, Amanda Nokuphila (Engineering: Chemical)
Nkonyana, Samuel Amon (Engineering: Mechanical)
Nkopane, Tsebisio Agatha (Instrumentation Technology)
Nkosi, Bongani (Building)
Nkosi, Portia (Engineering: Industrial)
Nkosi, Thokozane Henry (Engineering: Chemical)
Nobaza, Yanga (Town and Regional Planning)
Ntimbane, Xolani Lebogang (Extraction Metallurgy)
Pelser, Frederik Petrus (Mining Engineering)
Phahlane, Reneiloe Robin (Mining Engineering)
Phalakatshela, Zacaria Tshepo (Town and Regional Planning)
Ramadie, Momo Andrew (Engineering: Industrial)
Rampedi, Motswaledi Oupa (Engineering: Computer Systems)
Rikhotso, Nhlamulo (Engineering: Civil)
Rikhotso, Ntsako Matimba (Instrumentation Technology)
Sambo, Nothando Judicious (Engineering: Civil)
Sambo, Ntlharhi Najamia (Engineering: Industrial)
Scandley, Johannes Snowey (Industrial Engineering)
Scheepers, Kabelo (Town and Regional Planning)
Schwartz, Johannes Jacobus (Engineering: Civil)
Sefoloshi, Bennet Kope (Engineering: Metallurgy)
Sekhwela, Justice (Mineral Surveying)
Seleka, Tshegofatso (Mining Engineering)
Serumula, Millicent Keletso (Mining Engineering)
Shaik, Mohammed Azeem (Engineering: Chemical)
Sheik, Tahlia Tasneem (Building)
Shimange, Ntshuxeko Professor (Town and Regional Planning)
Sithebe, Andile Meluleki (Building)
Sithebe, Bandile Percy (Town and Regional Planning)

Sithole, Mthobisi Luvuyo (Mining Engineering)
Sithole, Nothile Fanele (Engineering: Industrial)
Stuurman, Sandisiwe Erica (Engineering: Civil)
Tabane, Mpine Hosea (Town and Regional Planning)
Thanyani, Rotondwa (Mining Engineering)
Thusi, Anele Mthokozisi (Town and Regional Planning)
Van Wyk, Heinrich Wynand (Mining Engineering)
Xulu, Siphon Simon (Industrial Engineering)

2. Baccalaureus Technologiae (BTech):

Baloyi, Nhlanhla Ashley (Engineering: Civil: Construction Management)
Bila, Mkatoko Sharoll (Mining Engineering)
Boya, Mapharane Perpetoa (Mining Engineering)
Engau, Nsala Kevin (Engineering: Civil: Construction Management)
Felix, Ernesto Carlos Kafuanda (Engineering: Electrical)
Goga, Progress Nompumelelo (Mining Engineering)
Gwitiwa, David (Engineering: Civil: Structural)
Halala, Muhluri Arthur Blessing (Mining Engineering)
Hlatshwayo, Fundile Nosipho (Engineering: Chemical)
Jimcrow, Lwando (Mining Engineering)
Jobson, Sean Godfrey (Extraction Metallurgy)
Kayembe, Junior Ngoyi (Extraction Metallurgy)
Kgabale, Itumeleng Phillimon (Town and Regional Planning)
Kgadima, Lebohlang Angela (Mining Engineering)
Khumalo, Thobeka Ntokozo (Mineral Resource Management)
Kwinda, Khathu Sifiso (Engineering: Civil: Construction Management)
Lefakane, Mary Masego (Mineral Resource Management)
Leshaba, Keletso Fiona (Mining Engineering)
Mabaso, Macdonald Lindokuhle (Engineering: Electrical)
Mabika, Makumbi Kelvino (Mining Engineering)
Maboko, Dunisani (Mining Engineering)
Maditsi, Evans (Extraction Metallurgy)
Mahapa, Malose Peter (Mineral Resource Management)
Maleka, Eddie Johnny (Mineral Resource Management)
Mampane, Lizzie (Engineering: Chemical)
Maponya, Refiloe Hendy (Mining Engineering)
Martin, Lebogang Patrick (Mining Engineering)
Masuka, Rolly Bayaka (Engineering: Civil: Structural)
Mataba, Tebogo Charity (Engineering: Chemical)
Mathe, Nhlanhla Jeffrey (Engineering: Chemical)
Matloga, Mpho (Mineral Resource Management)
Mchunu, Thuthukile Siphelile (Engineering: Industrial)
Mdlongwa, Fortune Thamsanqa (Mining Engineering)
Melaphi, Kedibone (Engineering: Chemical)
Mmolayeng, Naledi Maria (Engineering: Chemical)
Moeng, Khutso Charity (Engineering: Chemical)

Moepeng, Rebecca Mmantsho (Extraction Metallurgy)
Mojapela, Shoeshoe (Engineering: Chemical)
Mokhoka, Ishmael Ramonyaduwa (Mineral Resource Management)
Mokonyane, Lerato Eugenia (Mineral Resource Management)
Molepo, Lesetja Gary (Mining Engineering)
Moloto, Manoko Ronald (Mining Engineering)
Monageng, Rebaone Obakeng Gladwin (Engineering: Electrical)
Monyollo, Hlalefang Edward (Mining Engineering)
Mosikela, Letlotlo John (Mining Engineering)
Mphaphathe, Thlokamorago Kgotsofalo Osvaldia (Engineering: Chemical)
Mthembu, Mduduzi Erick (Mining Engineering)
Mulaudzi, Muneiwa (Mining Engineering)
Mvubu, Nondumiso Precious Gift (Town and Regional Planning)
Nemushungwa, Mulalo (Engineering: Chemical)
Ngoasheng, Mokgobo Douglas (Engineering: Civil: Water)
Ngoma, Mlungisi Martin (Engineering: Chemical)
Ngwenya, Lusanda Constantane (Construction Management)
Ntuli, Joy Kitso (Extraction Metallurgy)
Pardeshi, Nilendra Vitthalsingh (Engineering: Civil: Structural)
Rakidi, Keleabetswe Condolence (Extraction Metallurgy)
Ramorwalo, Ngoako Edward (Construction Management)
Ramukakate, Nkhiphitheni (Mineral Resource Management)
Seomane, Koketso Jersica (Extraction Metallurgy)
Shimange, Shanani Antoinette (Extraction Metallurgy)
Shivambu, Hlulani Wilburson Abbott (Engineering: Civil: Transportation)
Tshabalala, Monde Michael (Mining Engineering)
Tshimbiluni, Faith Yolandar (Engineering: Industrial)
Tsiu, Mapaseka Julia (Town and Regional Planning)
Umba, Mutombo Christian (Extraction Metallurgy)
Uys, Dirk Sybrand (Engineering: Civil: Construction Management)
Zwane, Patricia (Engineering: Chemical)

3. Magister Technologiae (MTech)

Akilimalissiga, Save (Operations Management)

Dissertation: The impact of service quality in fast food outlets in Central Johannesburg

Supervisor: Dr A Vermeulen

Co-Supervisor: Dr N Sukdeo

Ayeleru, Olusola Olaitan (Engineering Chemical)

Dissertation: Characterisation, management and utilisation of landfill municipal solid waste: A case study of Soweto

Supervisor: Prof F Ntuli

Co-Supervisor: Prof FN Okonta

Chiloane, Kgaugelo Osmond (Construction Management)

Dissertation: An assessment of transportation infrastructure financing in South Africa: a case study of Gauteng province

Supervisor: Prof CO Aigbavboa

Louters, Exley Byron Anthony (Operations Management)

Dissertation: Measuring project success: going beyond the triple Constraint

Supervisor: Dr EI Edoun

Co-supervisor: Prof C Mbohwa

Mahwayi, Mulunghisi Preference (Engineering Electrical)

Dissertation: Modelling groundwater monitoring for rural areas using cloud computing

Supervisor: Prof M Joseph

Maseko, Lungisile (Quantity Surveying)

Dissertation: An assessment of the occurrences of dispute in public sector infrastructure projects

Supervisor: Prof CO Aigbavboa

Mashoane, Merementsi Israel (Operations Management)

Dissertation: Improved changed management at E-Tuktuk transport services South Africa

Supervisor: Prof C Mbohwa

Co-supervisor: Dr M Mutingi

Matsane, Zanele Sally Sue (Construction Management) (with distinction)

Dissertation: An evaluation of collaborative practices in construction contracting: case studies in South Africa

Supervisor: Prof CO Aigbavboa

Mkhonto, Caswell (Operations Management)

Dissertation: Improving software development through the introduction of tertiary-level software testing curricula

Supervisor: Dr A Mashamba

Co-supervisor: Prof C Mbohwa

Moussaou, Mauricia Grace (Operations Management)

Dissertation: Organisational learning at Food Lovers Market

Supervisor: Dr P Mbecke

Co-supervisor: Prof C Mbohwa

Moyo, Themhani (Operations Management) (with distinction)

Dissertation: The potential of geo-location based services to delineate the Origin and destination of commuters of the Gautrain public transit system

Supervisor: Dr W Musakwa

Co-supervisor: Mr NS Madonsela

Muloiwa, Mpho (Civil Engineering)

Dissertation: Household water demand and management in rural areas

Supervisor: Dr MO Dinka

4. Master of Engineering (MEng)

Kayode, Oyindamola (Mechanical Engineering) **(with distinction)**

Dissertation: Effect of multi-pass friction stir processing of aluminium

Supervisor: Prof ET Akinlabi

Co-Supervisor: Dr OA Olufayo

5. Doctor Ingeneriae (DIng)

Marais, Stephen Thomas (Mechanical Engineering)

Thesis: The development of haptic feedback system for vision assisted hexapod robot foot placement

Supervisor: Prof AL Nel

Co-supervisor: Dr P Robinson

Ndjiongue, Alain Richard (Electrical and Electronic Engineering)

Thesis: Interfacing power line communications and visible light communications based on phase shift keying and colour shift keying

Supervisor: Prof HC Ferreira

6. Doctor Philosophiae (DPhil)

Falayi, Thabo (Civil Engineering)

Thesis: Desilication of fly ash and geotechnical applications of the desilicated fly ash

Supervisor: Prof F Ntuli

Co-supervisor: Prof FN Okonta

Mustapha, Zakari (Engineering Management)

Thesis: An integrated health and safety compliance model for the Ghanaian construction industry

Supervisor: Prof WD Thwala

Co-supervisor: Prof CO Aigbavboa



Marais, Stephen Thomas (DIng) Mechanical Engineering

Stephen Marais was born on 1 August 1972 and matriculated in 1990 from the John Orr Technical High School. After matriculating he received a Higher National Diploma in Mechanical Engineering from the Technikon Witwatersrand in 1994 and a BSc in Electro-Mechanical Engineering from the University of Cape Town where he also earned an MSc (Eng) in 2001. Stephen was appointed as lecturer at UCT in 2001 and was promoted to senior lecturer in 2008. He has been a full-time student for his DIng at the University of Johannesburg since 2013.

The candidate's research focused on the design of a hexapod robotic system that could be used at a disaster site to aid search and rescue teams. The robotic system developed included the physical robot, the associated control, and the data flow architecture for use in laboratory testing. Three different leg reflexes were developed that enabled the robot to make its way over an unstructured terrain without the aid of vision-based feedback. A vision system was integrated into the system to be used in conjunction with the leg reflexes to improve foot placement further. The robot was tested in a laboratory setting based on an internationally recognised format of unstructured terrain. When tested with the combined vision and leg reflex system the robot was able to make its way over an unstructured terrain without losing its footing.

Supervisor: Prof AL Nel

Co-supervisor: Dr P Robinson



Ndjiongue, Alain Richard (DIng) Electrical and Electronic Engineering

Alain Richard Ndjiongue did his undergraduate training in Cameroon. He received the qualification: MEng (Electrical and Electronic Engineering) from the University of Johannesburg, South Africa in 2013. His research interests include Power Line Communications, Visible Light Communications, especially the outdoor visible light channel, and hybrid systems involving Power Line Communications, Wireless Communications, and Fibre Optics.

The candidate worked to interface two emerging technologies used in Digital Communications, namely the relatively new Visible Light Communications, and Power Line Communications. Visible Light Communications simultaneously uses LED lighting devices for both lighting purposes and very high speed communications. Power Line Communications uses the electrical wiring supplying power to the LED devices. The main contribution of his work was to use the optical colour space in an innovative way to create new digital modulation schemes. These schemes furthermore enable Trellis Coded Modulation for increasing the area of coverage by the signal.

He is the first author of seven papers published in the journals and conference proceedings of the IEEE, the most acclaimed professional society in this discipline. His book chapter published by Wiley, recorded to date close to 2000 reads on the international website - ResearchGate.

Supervisor: Prof HC Ferreira



Falayi, Thabo (DPhil) Civil Engineering

Thabo graduated with a master's degree in Chemical Engineering from the University of Johannesburg in 2014.

The massive deposits of Eskom power plant ash is one of the grand environmental problems in South Africa. The durability of composites developed from high volumes of power plant ash is the major limitation to increased utilisation of marginal grade ash dumps for civil engineering applications. The candidate developed a novel extraction method based on process kinetics and thermodynamics for desilication and production of mesoporous silica from the marginal grade ash. The desilicated ash was subjected to hybrid pozzolanic-geopolymeric processes for the formulation of binders for use in the development of super durable lightweight construction blocks and for stabilisation of expansive road subgrades. Finally microstructural models for the prediction of macro geotechnical properties and design life of marginal ash composites were developed. The candidate has published four ISI journal articles and two international conference papers from his thesis.

Supervisor: Prof F Ntuli

Co-supervisor: Prof FN Okonta



Mustapha, Zakari (DPhil) Engineering Management

Zakari Mustapha graduated from the Department of Technology Education, Federal University of Technology, Yola, Nigeria with a BTechEd(Hons) in Construction and completed his MSc degree in Land Resources and Administration at Bayero University, Kano, Nigeria. He joined Cape Coast Polytechnic, now Cape Coast Technical University, Cape Coast, Ghana as a lecturer. He enrolled for his doctoral studies at the University of Johannesburg, South Africa in 2014.

The candidate's research study focused on a health and safety compliance model for small and medium-sized enterprise (SME) contractors in the Ghanaian construction industry. The candidate employed structural equation modelling (SEM) with the use of EQuations (EQS) version 6.2 software in the analysis of the collected primary data. The results were validated using confirmatory factor analysis (CFA). The results showed that H&S practices and the latent variables lead to H&S compliance. The major contribution of the study is the development of a new holistically-integrated H&S compliance model for the prediction of SME contractors' H&S compliance. The current integrated model advances that H&S compliance is a five-factor construct. The candidate has published four ISI and IBSS journal articles, three book chapters and nineteen peer-reviewed conference articles based on the doctoral studies.

Supervisor: Prof WD Thwala

Co-supervisor: Prof CO Aigbavboa





Special Awards



Faculty of Engineering and the Built Environment

Faculty Prize for the best Baccalaureus Ingenieriae (BIng) graduate for 2016 ECSA Medal

Swanepoel, Renier (with distinction)

Baccalaureus Ingenieriae (BIng): Electrical and Electronic Engineering with endorsement for Information Technology



S2A3 Medal for the Most Outstanding Research Student in a Scientific Subject at Master's Level

Oyindamola, Kayode (with distinction)

Master of Engineering (MEng): Mechanical Engineering



Chancellors Medal for the Most Meritorious Master's Study for 2016

Ngomseu Mambou, Elie (with distinction)

Master of Engineering (MEng): Electrical and Electronic Engineering



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