

**Welcome to the  
Graduation Ceremony  
of the  
University of Johannesburg  
2 March 2015 at 17:00**

**Welkom by die  
Gradeplegtigheid  
van die  
Universiteit van Johannesburg  
2 Maart 2015 om 17:00**

**Le a Amogelwa  
Moletlong wa Dikapešo wa  
Yunibesithi ya Johannesburg  
2 Hlakola 2015 ka 17:00**

**Niyamukelwa  
eMcimbini wokweThweswa kweZiqu  
weNyuvesi yaseJohannesburg  
2 kuNdasa 2015 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: STRATEGIC SERVICES**

Mrs ME Letlape  
BSc (UFH)

### **DEPUTY VICE-CHANCELLOR: RESEARCH, POSTGRADUATE STUDIES AND LIBRARY**

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

### **DEPUTY VICE-CHANCELLOR: ACADEMIC**

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

### **DEPUTY VICE-CHANCELLOR: FINANCE**

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

### **DEPUTY VICE-CHANCELLOR: INTERNATIONALISATION, ADVANCEMENT AND STUDENT AFFAIRS**

(vacant)

### **CHIEF OF STAFF AND EXECUTIVE DIRECTOR: VICE-CHANCELLOR'S OFFICE**

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

### **REGISTRAR**

Prof IC Burger  
BA, HEd, BA Hons, MA, PhD (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 LC Posthumus (Acting)  
BA, BA Hons, MA, D Litt et Phil (UOFS)

### **FACULTY OF LAW**

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

### **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 (University of California, Davis)

## **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 TA Chaka

Mr TJ Dikgole

Mr CR Gebhardt

Prof D Hildebrandt

Mr G Khosa

Prof C Landsberg

Dr DSS Lushaba

Mr DM Manganye

Dr J Manyaka

Ms K Maroga (invitee)

Ms BJ Memela-Khambula

Dr P Mjwara

Mr M Mkhonta

Mr A Mohammadali-Haji

Mrs K Mokhobo-Amegashie

Mr MJN Njeke

Prof A Parekh

Mr K Rammutla

Prof IL Rensburg

Dr WP Rowland

Mr KB Sibiya

Mr K Thomas

Mr J van Schoor

Mr M White

## **PRESIDENT OF CONVOCATION**

Mr M Mkhonto

# Programme

**Monday, 2 March 2015 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.

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# Lenaneo

**Mošupologo, 2 Hlakola 2015 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**

**Maandag, 2 Maart 2015 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.

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# **Uhlelo**

**uMsombuluko, 2 kuNdasa 2015 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.

Kuculwa 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. Bachelor of Science (BSc)

**Abraham**, Rowen Caleb (Geology and Applied Geology)  
**Abuwak**, Aadil (Physics and Mathematics)  
**Armstrong**, Jamie David (Information Technology)  
**Baker**, Nathan Jay (Zoology and Environmental Management)  
**Betha**, Thabo Solomon (Mathematics and Economics with financial orientation)  
**Beukes**, Henk (Sport Science)  
**Bhagwan**, Shivangi (Human Physiology and Biochemistry)  
**Bird**, Mark Robert (Information Technology)  
**Briggs**, Jason David (Sport Science)  
**Brink**, Raugme (Biochemistry and Chemistry)  
**Brough**, James Eric (Geography and Geology)  
**Byleveld**, Jean Jacques (Information Technology)  
**Callen**, Stuart James Mark (Computer Science and Informatics)  
**Cerrai**, Andrea (Computer Science and Informatics)  
**Chauke**, Thandiwe (Biochemistry and Psychology)  
**Chiguta**, Panashe (Physics and Mathematics)  
**Chiwakaya**, Kevin (Computer Science and Informatics)  
**Chizema**, Munashe (Biochemistry and Chemistry)  
**Cloete**, Alyssa Ashleigh (Computer Science and Informatics)  
**Cloete**, Etienne (Geology and Applied Geology)  
**Correia**, Nicole (Human Physiology and Biochemistry)  
**Cronjé**, Stefan (Computer Science and Informatics)  
**Dallas**, Damin Scott (Botany and Zoology)  
**De Sousa**, Ruan Felix (Information Technology)  
**Deokali**, Sarvesh Sunil (Information Technology)  
**Deva**, Trishant (Computer Science and Informatics)  
**Dewlal**, Bianca (Geography and Environmental Management)  
**Dick**, Cheryl-Ann (Sport Science)  
**Dithipe**, Mosa (Geography and Environmental Management)  
**Dos Santos**, Keila Michelle Costa (Sport Science)  
**Downs**, Kevin Paul (Information Technology)  
**Esakjee**, Asmaa (Biochemistry and Chemistry)  
**Fantozzi**, Michael (Applied Mathematics and Computer Science)  
**Ferreira**, Mizan (Human Physiology and Biochemistry) **(with distinction)**  
**Fick**, Craig Frederick William (Mathematical Statistics and Economics with financial orientation)  
**Forsyth**, Bennett (Human Physiology and Biochemistry)  
**Fourie**, Willem Ferdinand (Human Physiology and Biochemistry)



**Fubu**, Lwazi (Mathematics and Mathematical Statistics with financial orientation)  
**Gamede**, Manqoba Thabani (Mathematics and Economics with financial orientation)  
**Gana**, Kholiswa (Geology and Applied Geology)  
**Gangashe**, Mulisa (Computer Science and Informatics)  
**Gcaba**, Buseka (Botany and Biochemistry)  
**Geers**, Jonathan Paul (Computer Science and Informatics)  
**Goncalves**, Andre Jorge (Computer Science and Informatics)  
**Gonsalves**, Maruschka (Geography and Environmental Management)  
**Gounden**, Claudine (Biochemistry and Psychology)  
**Groeneveld**, Marike Elizabeth (Human Physiology and Psychology)  
**Gumede**, Siyanda Njabulo (Geography and Geology)  
**Hadebe**, Buhlegaze Fanscisca (Human Physiology and Biochemistry)  
**Hadebe**, Nkosiyabo Sifiso Melusi (Geography and Geology)  
**Hassall**, Emery Sky (Chemistry and Physics)  
**Hill**, Adam Bradley (Computer Science and Informatics)  
**Hindmarch**, Chelsea Lee (Human Physiology and Biochemistry)  
**Hlungwani**, Peace Ripfalo (Environmental Management and Geology)  
**Hlutywa**, Luyanda Simphiwe (Mathematics and Economics with financial orientation)  
**Houston**, Scott (Geography and Environmental Management)  
**Hussan**, Raeesa Hoosen (Human Physiology and Biochemistry)  
**Kapinga Ntumba**, Anna (Applied Mathematics and Mathematics)  
**Kekane**, Gontse (Mathematics and Economics with financial orientation)  
**Khan**, Khaalid (Human Physiology and Biochemistry)  
**Khan**, Naweed Aghmad (Information Technology)  
**Kheswa**, Clive Wandile (Biochemistry and Psychology)  
**Khomola**, Londonani (Applied Mathematics and Mathematics)  
**Khumalo**, Sibonile (Geology and Chemistry)  
**Kikounga**, Sarah Danille (Human Physiology and Biochemistry)  
**Kutu**, Karabo (Computer Science and Informatics)  
**Lee**, Mitchell Charlton (Geography and Geology)  
**Lekganyane**, Dorcas Mapula (Botany and Environmental Management)  
**Louw**, Nelri (Human Physiology and Biochemistry)  
**Lowe**, Robyn Angela (Botany and Environmental Management)  
**Mabasa**, Ntwanano Trevor (Mathematics and Computer Science)  
**Madi**, Sizakele Trudy (Human Physiology and Psychology)  
**Magadlela**, Lulama Prudence (Mathematics and Psychology)  
**Magagula**, Smangaliso Emmanuel (Financial Mathematics)  
**Magengenene**, Tseliso Mitchell (Chemistry and Mathematics)  
**Maheso**, Irene (Computer Science and Informatics)  
**Mahlope**, Mamosidi Tinny (Mathematics and Economics with financial orientation)  
**Makhado**, Victor (Mathematics and Informatics)  
**Makola**, Thato Francis (Computer Science and Informatics)  
**Makukule**, Xitshembiso Mumsy (Geology and Applied Geology)  
**Makume**, Clive Simphiwe (Computer Science and Informatics)  
**Makuwa**, Ramogale Martha (Biochemistry and Chemistry)

**Malatji**, Mokgadi Grace (Computer Science and Informatics)  
**Malik**, Humna Hassan (Information Technology)  
**Maltman**, Michael James (Human Physiology and Psychology)  
**Mamadisa**, Tebogo Makoe (Computer Science and Informatics)  
**Mamasedi**, Kenneth Moeketsi (Information Technology)  
**Maphwanya**, Lufuno Clement (Computer Science and Informatics)  
**Maponya**, Mahlatse Lucky (Information Technology)  
**Mapukata**, Sivuyisiwe (Biochemistry and Chemistry)  
**Mareya**, Charity Rumbidzai (Biochemistry and Psychology)  
**Marima**, Rirhandzu Debra (Biochemistry and Chemistry)  
**Mashaba**, Palesa (Human Physiology and Psychology)  
**Mashele**, Pearl Zanele (Human Physiology and Psychology)  
**Masunga**, Ngonidzashe (Biochemistry and Chemistry)  
**Mathebula**, Rebecca (Geology and Applied Geology)  
**Matumba**, Mashudu Given (Human Physiology and Biochemistry)  
**Mbadaliga**, Elelwani (Computer Science and Informatics)  
**Mbatha**, Uyabongeka Nompilo Nothando (Botany and Geology)  
**Mcgeer**, Bianca (Geography and Geology)  
**Mdletshe**, Eugene Thulasizwe (Computer Science and Informatics)  
**Mdluli**, Mpendulo Gcinumuzi Thembela (Mathematics and Computer Science)  
**Mehlolo**, Thabiso (Sport Science)  
**Mehta**, Hailey Himanshu (Information Technology)  
**Meyers**, Nicole Liezl (Human Physiology and Biochemistry)  
**Mistry**, Avisha Rajendra (Biochemistry and Psychology)  
**Mlondobozi**, Nyeleti Mershall (Computer Science and Informatics)  
**Mnyakeni**, Abel Clement (Mathematics and Mathematical Statistics) **(with distinction)**  
**Modibane**, Gladwin Thabiso (Applied Mathematics and Computer Science)  
**Moefadi**, Segate Kabelo (Applied Mathematics and Computer Science)  
**Moeng**, Olebogeng (Applied Mathematics and Computer Science)  
**Mogale**, Molemoheng Pertunia (Human Physiology and Psychology)  
**Mogapi**, Karabo Michael (Environmental Management and Geology)  
**Moima**, Johannes Thapelo (Biochemistry and Chemistry)  
**Moloi**, Mamello Milicia (Applied Mathematics and Mathematics)  
**Moloko**, Hector Motlatsi (Mathematics and Economics with financial orientation)  
**Molomo**, Thabang Tshepo (Computer Science and Informatics)  
**Molope**, Reneiloe Ruth Nikiwe (Applied Mathematics and Mathematics)  
**Monyamane**, Keitumetse Lucy (Computer Science and Informatics)  
**Moodley**, Prenevin Denzil (Information Technology)  
**Moorcroft**, Ronald Nelson (Information Technology)  
**Moraswi**, Masehle Johannes Ikarabeng (Biochemistry and Botany)  
**Moroe**, Karabo Hape (Computer Science and Informatics)  
**Motau**, Giji John (Geography and Geology)  
**Motau**, Mashudu Constance (Applied Mathematics and Mathematics)  
**Motaung**, Linda (Computer Science and Informatics)  
**Motene**, Sylvia (Geography and Environmental Management)  
**Mothapo**, Maria Lerato (Botany and Chemistry)

**Motloung**, James Bongani (Geology and Chemistry)  
**Moyosvi**, Panashe Agatha (Human Physiology and Psychology)  
**Msweli**, Ayanda Bridget (Biochemistry and Botany)  
**Mthanda**, Vuyisile (Biochemistry and Psychology)  
**Mtsweni**, Bongani Phillip (Geography and Geology)  
**Mudzudzanyi**, Ndivhuwo Millicent (Applied Mathematics and Mathematics)  
**Mugwedi**, Idani Larnelle (Applied Mathematics and Mathematics)  
**Mukwevho**, Gudani (Geology and Chemistry)  
**Mulowayi**, Florette Kayamba (Human Physiology and Biochemistry)  
**Myeni**, Nosipho Fikile (Chemistry and Mathematics)  
**Myers**, Kevin Michael (Chemistry and Physics)  
**Nagar**, Amisha (Biochemistry and Psychology) **(with distinction)**  
**Nair**, Ryan (Computer Science and Informatics)  
**Naran**, Sahil (Information Technology)  
**Ndaba**, Nombulelo Mbalenhle (Information Technology)  
**Ndamase**, Azola (Information Technology)  
**Ndhlovu**, Mzwandile Brian (Geography and Geology)  
**Ndlovu**, Siphwe (Applied Mathematics and Computer Science)  
**Nekhavambe**, Tshifhiwa Felicia (Human Physiology and Biochemistry) **(with distinction)**  
**Nelwamondo**, Asivhothe (Computer Science and Informatics)  
**Nemufulwi**, Murendeni Isaac (Geology and Physics)  
**Netshifhefhe**, Humbelani Kelly (Chemistry and Mathematics)  
**Ngema**, Collen (Mathematics and Economics with financial orientation)  
**Ngobese**, Nozipho Nontobeko (Botany and Environmental Management)  
**Ngomseu Mambou**, Elie (Information Technology)  
**Nkabinde**, Mbali (Geography and Geology)  
**Nkanyane**, Naledi (Environmental Management and Geology)  
**Nkoana**, Tlaishego Tedson (Zoology and Environmental Management)  
**Nkomo**, Lorraine Nqobile (Biochemistry and Psychology)  
**Nkosi**, Gabisile (Human Physiology and Psychology)  
**Nkosi**, Gabisile Adorable (Environmental Management and Geology)  
**Nkuna**, Oscar (Mathematics and Economics with financial orientation)  
**Noe**, Thabo Joel Tumelo (Biochemistry and Chemistry)  
**Nouko**, Manuella (Computer Science and Informatics)  
**Ntokoane**, Pitso Andy (Mathematics and Economics with financial orientation)  
**Ntseke**, Petunia Koketso (Environmental Management and Geology)  
**Ntsele**, Thulani (Computer Science and Informatics)  
**Nyawo**, Bonginhlanhla Eugene (Information Technology)  
**Nyondlo**, Yonela Mamela (Biochemistry and Chemistry)  
**Olivier**, Stefan (Information Technology)  
**Ollewagen**, Tracey (Sport Science) **(with distinction)**  
**Paka**, Elton Fikile (Computer Science and Informatics)  
**Parbhoo**, Rohan (Information Technology)  
**Patel**, Danisha Jayavant (Sport Science)  
**Payne**, Calvin Ashley (Botany and Zoology)  
**Peerbhai**, Nabeelah (Biochemistry and Psychology)

**Petersen**, Kurt Lluwelyn (Applied Mathematics and Computer Science)  
**Phora**, Amos (Botany and Biochemistry)  
**Poonsamy**, Bastian Mikhail (Applied Mathematics and Mathematics)  
**Providas**, Dimitri (Information Technology)  
**Radithalo**, Refiloe Nancy (Environmental Management and Geology)  
**Raidimi**, Fhatuwani (Computer Science and Informatics)  
**Ramaboea**, Maudi (Computer Science and Informatics)  
**Rambuda**, Avhatendi (Environmental Management and Geology)  
**Ramotsho**, Mmanthupi Amanda (Geology and Chemistry)  
**Range**, Chanell (Sport Science)  
**Rankudu**, Motswasele Marvin (Geology and Applied Geology)  
**Ratsoma**, Manchela Francinah (Botany and Environmental Management)  
**Rembuluwani**, Thivhudziswi (Computer Science and Informatics)  
**Reynolds**, Carrie-Lyn (Information Technology)  
**Roodt**, Gerhard Theo (Biochemistry and Chemistry)  
**Rudman**, Liam (Botany and Zoology)  
**Sadlocha**, Michelle Catherine (Information Technology)  
**Schwim**, Franco (Computer Science and Informatics)  
**Sekgarametso**, Wandile (Computer Science and Informatics)  
**Selepe**, Euginia Tshepiso (Zoology and Biochemistry)  
**Seloane**, Lesego Kabelo (Biochemistry and Botany)  
**Senzani**, Khangeziwe Karen (Biochemistry and Chemistry)  
**Shabalala**, Thando Valentine (Human Physiology and Psychology)  
**Shiba**, Sanele Nomfundo Sandisiwe (Biochemistry and Botany)  
**Shoba**, Sibusiso (Geography and Environmental Management)  
**Sikhakhane**, Siphesihle Sethembo (Information Technology)  
**Sisimogang**, Godfrey Buti (Computer Science and Informatics)  
**Sithole**, Kagiso (Biochemistry and Chemistry)  
**Snow**, Christopher (Information Technology)  
**Strydom**, Ryno Henry (Computer Science and Informatics)  
**Sujee**, Saajida Mohamed Saeed (Sport Science)  
**Takalana**, Mpho Charles (Physics and Mathematics)  
**Thathaisa**, Khangwelo Sharon (Applied Mathematics and Computer Science)  
**Tobler**, Tyron Ulrich (Geography and Geology)  
**Tovhakale**, Alusani Christen (Environmental Management and Geology)  
**Trollip**, Martin (Information Technology) **(with distinction)**  
**Tsatsi**, Phenyos Joshua (Geography and Geology)  
**Tshabangu**, Fortunate Kholwani (Computer Science and Informatics)  
**Tsholo**, Lebogang Desiree (Human Physiology and Psychology)  
**Tshongweni**, Ntando (Applied Mathematics and Mathematics)  
**Twala**, Thala (Geology and Chemistry)  
**Van der Walt**, Benice (Biochemistry and Chemistry)  
**Van der Walt**, Chantelle (Computer Science and Informatics)  
**Van der Westhuizen**, Monique (Geography and Geology)  
**Van Rensburg**, Letitia (Human Physiology and Biochemistry)  
**Van Zyl**, Kevin Martin (Information Technology)  
**Vieira**, Diana Madalena (Zoology and Biochemistry)

**Vienings**, Sean (Computer Science and Informatics)  
**Vumani**, Vutomi Gladness (Geology and Applied Geology)  
**Walker**, Razeen (Computer Science and Informatics)  
**Welgus**, Szymon Przemslaw (Computer Science and Informatics)  
**Zengele**, Phumzile (Geography and Environmental Management)  
**Zietsman**, Jonathan Byron (Botany and Environmental Management)

## 2. Master of Technology (M Tech)

**McCarroll**, Leigh Anne (Food Technology)  
**Dissertation:** Evaluation of mageu-based gluten-free bread in South Africa.  
**Supervisor:** Dr S de Kock

## 3. Master of Science (MSc)

**Baloyi**, Nwaxigombe Maureen (Biochemistry)  
**Dissertation:** Plasma membrane proteins differentially expressed in response to LPS perception in *Arabidopsis thaliana*.  
**Supervisor:** Dr LA Piater  
**Co-supervisor:** Prof IA Dubery

**Dimpe**, Mogolodi Kgogobi (Chemistry)  
**Dissertation:** Sample preparation techniques for determination of total metal content in wastewater treatment plants in Gauteng province.  
**Supervisor:** Prof JC Ngila  
**Co-supervisor:** Dr N Mabuba

**Dlamini**, Ntombifuthi Sakhile (Geology)  
**Dissertation:** An integrated field, geochemical and geochronological study of Archaean rock units in southern Swaziland.  
**Supervisor:** Prof A Hofmann  
**Co-supervisor:** Dr G Belyanin

**Finnegan**, Tarryn (Biochemistry)  
**Dissertation:** Defence responses in *Arabidopsis thaliana* elicited by bacterial lipopolysaccharides: A metabolomic study.  
**Supervisor:** Prof IA Dubery  
**Co-supervisor:** Prof P Steenkamp  
**Co-supervisor:** Dr LA Piater

**Makhubela**, Tebogo Vincent (Geology) **(with distinction)**  
**Dissertation:**  $^{40}\text{Ar}/^{39}\text{Ar}$  and (U-Th)/He dating attempts on the fossil-bearing cave deposits of the Malapa and Sterkfontein hominin sites of the Cradle of Humankind, South Africa.  
**Supervisor:** Prof JD Kramers  
**Co-supervisor:** Prof MO de Kock  
**Co-supervisor:** Dr GA Belyanin

**Pienaar, Donovan (Geology) (with distinction)**

**Dissertation:** Dissertation: A Geometallurgical Characterization of the Vaal Reef – A facies at Moab Khotsong Mine, AngloGold Ashanti, with specific focus on Gold and Uranium deportment.

**Supervisor:** Prof KS Viljoen

**Co-supervisor:** Prof A Hofmann

**Ruiters, Ashton Kim (Botany) (with distinction)**

**Dissertation:** A taxonomic study of the genus *Phymaspermum* (Anthemideae, Asteraceae).

**Supervisor:** Prof B-E van Wyk

**Co-supervisor:** Prof PM Tilney

**Co-supervisor:** Dr AR Magee (SANBI)

**Schulz, Francois Petrus (Mathematics) (with distinction)**

**Dissertation:** Dissertation: Rank, trace and determinant in Banach algebras.

**Supervisor:** Dr G Braatvedt

**Co-supervisor:** Dr R Brits

**Smit, Pieter Kotzee (Environmental Management)**

**Minor Dissertation:** Legal compliance of EIA scoping reports for selected renewable energy projects in South Africa.

**Supervisor:** Dr IT Rampedi

**Sutton-Pryce, Adam Steven Edward (Environmental Management)**

**Minor Dissertation:** Reviewing the quality of Environmental Impact Statements for selected development projects in the Mpumalanga Province, South Africa.

**Supervisor:** Dr IT Rampedi

#### **4. Philosophiae Doctor (PhD)**

**Antonels, Nathan Charles (Chemistry)**

**Thesis:** The evaluation of dendrimer encapsulated ruthenium nanoparticles, immobilized on silica, as catalysts in various catalytic reactions and the effect of ionic liquids on the catalytic activity.

**Supervisor:** Prof R Meijboom

**Co-supervisor:** Prof A Muller

**Du Plessis, Anja (Geography)**

**Thesis:** Quantifying and predicting hydrological responses of water quality associated with land cover changes in the Upper Vaal River, South Africa.

**Supervisor:** Prof JT Harmse

**Co-supervisor:** Prof F Ahmed (University of Witwatersrand)

**Koumba, Ur Armard (Mathematics)**

**Thesis:** On Riesz Operators.

**Supervisor:** Prof H Raubenheimer

**Shukla, Sudheesh Kumar (Chemistry)**

**Thesis:** Enzyme functionalised dendrimic nanocomposite systems for electrochemical biosensor applications.

**Supervisor:** Prof AK Mishra

**Co-supervisor:** Prof BB Mamba

**Co-supervisor:** Prof OA Arotiba

**Simelane, Bongani Sandile Khumbulane (Chemistry)**

**Thesis:** Aluminium triflate-mediated reactions of glycals: towards chiral multicyclic products.

**Supervisor:** Prof DBG Williams

**Co-supervisor:** Prof HH Kinfe

**Vatsha, Banele (Chemistry)**

**Thesis:** Synthesis, characterization and assessment of nanocomposites-based ultrafiltration membrane with reduced fouling and better wastewater disinfection.

**Supervisor:** Prof JC Ngila

**Co-supervisor:** Prof TAM Msagati

**Co-supervisor:** Dr R Moutloali (Mintek)

**Vilakati, Doctor Gcina (Chemistry)**

**Thesis:** Fabrication and characterization of highly water permeable ultrafiltration membranes as supports in forward osmosis seawater desalination.

**Supervisor:** Prof BB Mamba

**Co-supervisor:** Prof EMV Hoek (University of California, Los Angeles, USA)



## **Antonels, Nathan Charles (PhD)**

Nathan Antonels matriculated in 2001 from Parow High School in Cape Town. He was awarded his BSc honours degree in 2007 and in 2010 obtained his MSc degree in Chemistry. Thereafter he joined the University of Johannesburg to pursue a doctoral degree in Chemistry. He has assisted with demonstrating chemistry techniques to undergraduate students and was a tutor of theoretical concepts of the discipline. His dedication and enthusiasm has led to his appointment as senior tutor. He is currently a post-doctoral fellow at the Friedrich Alexander University Erlangen-Nuremberg.

Nathan Antonels' doctoral thesis investigated the preparation of dendrimer encapsulated ruthenium nanoparticles, their evaluation as catalysts in both hydrogenation and oxidation reactions and the effect of ionic liquids on catalytic activity and selectivity. Each methodology was decisively chosen where dendrimer templated nanoparticle preparation provides particles with a narrow size distribution, catalyst heterogenisation allows for ease of recycling and catalyst longevity and ionic liquid coatings, as utilised in the solid catalyst with ionic liquid layer or SCILL concept, modifies the selectivity and activity of the catalyst. Parts of the work have been published in leading international journals as two papers and resulted in collaborative research with one of the leading universities in Europe. Three more manuscripts are currently in preparation.

**Supervisor:** Prof R Meijboom

**Co-supervisor:** Prof A Muller





## **Du Plessis, Anja (PhD)**

Anja du Plessis matriculated from Hoërskool Linden in 2005. She enrolled at the University of Johannesburg where she obtained a BSc degree in 2008, a BSc Honours degree in 2009 and an MSc degree in Geography in 2010. Whilst completing her Masters studies she tutored and lectured at the University. She enrolled for a PhD in Geography in July 2012. She is currently employed as an academic at the University of South Africa.

The candidate's research focussed on quantifying and predicting hydrological responses of water quality associated with land cover changes within the Upper Vaal River. The water quality here is below average and in some cases even very poor. The Upper Vaal is faced with water availability and quality problems which place immense pressure on the environment as authorities strive to achieve socio-economic growth within the region. Her research quantified these hydrological responses and formulated model equations to enable the prediction of water quality in the event of land cover change or future developments within the region. These model equations can be applied to improve decision making and promote the cost-effectiveness and the sustainability of the Upper Vaal River.

The candidate's work has been published in a recognised international journal and several other research papers are under preparation.

**Supervisor:** Prof JT Harmse

**Co-supervisor:** Prof F Ahmed (University of the Witwatersrand)



## **Koumba, Ur Armand (PhD)**

Ur Koumba was born and raised in Gabon where he matriculated and obtained his BSc degree. In 2007 he enrolled at the University of the Witwatersrand where he subsequently received his BSc Honours degree in 2008 and his MSc degree in Pure Mathematics in 2010. Ur has been awarded prestigious prizes such as the David S Lobel, Bradlow and John Knopfmacher prize for his outstanding performance. In 2010 he enrolled at the University of Johannesburg. From 2011 to 2014 he assisted, tutored and lectured students at the department of Mathematics. Apart from that, Ur was also involved in activities at the University to attract learners to Science and Engineering careers.

In his thesis, the candidate investigated two fundamental questions in the structure theory of Riesz operators. It is well known that a compact operator with closed range is a finite rank operator. The candidate designed an example to illustrate that for Riesz operators this is not generally true. In view of this it is only natural to ask, when is a Riesz operator a finite rank operator? The candidate answered this question by proving a Theorem providing conditions under which a Riesz operator is a finite rank operator. This Theorem also contains work done by other mathematicians working in this field. The second question that the candidate addressed was 'when is a positive operator a Riesz operator if it is dominated by a Riesz operator?' This question was first posed in the literature in 1985 and even today it is not completely solved. However, the candidate produced results providing partial answers to this question. The candidate's work has been published in international peer-reviewed journals.

**Supervisor:** Prof H Raubenheimer



## **Shukla, Sudheesh Kumar (PhD)**

Sudheesh Kumar Shukla was born and raised in Gorakhpur, India. He completed his schooling at Kisan Inter College in 2002. He obtained a BSc degree in Botany and Chemistry in 2005 and an MSc in Biochemistry in 2007 from the Chaudry Charan Singh University, Meerut, India. Before enrolling for a PhD at the University of Johannesburg, he worked as a project assistant at the All India Institute of Medical Science and at the Govind Ballabh Pant University of Agricultural and Technology, India. In 2010 he enrolled for a PhD degree in Chemistry at the University of Johannesburg.

Mr Shukla's research involved an enzyme functionalized dendrimeric nanocomposite systems for electrochemical biosensor applications. Electrochemical biosensors provide a new route to biomedical diagnosis and testing. Research into the improvement of biosensor performance and the development of new protocols in biosensor design is ongoing. This work contributes to the field of biosensor development by exploring the applications of poly(propylene imine) dendrimers and nanocomposites of dendrimer with  $ZrO_2$  and  $Fe_3O_4$  as tools in electrochemical enzyme biosensor (i.e. glucose, urea and cholesterol) design. In general, voltammetric techniques were employed to model the electrochemical reactivities of the dendrimer, dendrimer nanocomposites and dendrimer-enzyme conjugates. The candidate's work has produced six publications in international peer-reviewed journals and has been presented in both local and international conferences.

**Supervisor:** Prof AK Mishra

**Co-supervisor:** Prof BB Mamba

**Co-supervisor:** Prof OA Arotiba



**Simelane, Bongani Sandile Khumbulane (PhD)**

Sandile Simelane was born and raised in Manzini, Swaziland. After completing high school in 2003, he enrolled at the University of Swaziland for a four year BSc degree which he completed in 2008. In 2009 he enrolled at the University of Johannesburg for an MSc degree in Chemistry and obtained the degree *cum laude* in 2010. He was presented with the Chancellor's Medal for the most meritorious dissertation and the S2A3 Medal for the best Masters dissertation in the Faculty of Science. He then enrolled for a PhD degree in Chemistry at the same institution.

The candidate's doctoral studies involved the use of aluminium triflate as a Lewis acid catalyst for the synthesis of novel highly functionalised medicinally important carbohydrate derivatives. He identified some unique and unprecedented chemical transformations. In particular, tri-*O*-acetyl-*D*-galactal could be converted into 1-*O*-aryl-2-deoxygalactosides, bridged chiral benzopyrans, chromenes, chromans, oxepanes and flavonoid derivatives. These products represent several classes of compounds that are highly sought after for their wide-ranging physiological activity. The syntheses are of practical value, being high yielding and readily scalable, and thus represent advances of interest to the pharmaceutical industry as well as the academic fraternity. This work has been published as two papers in leading international peer-reviewed journals and has also been presented at four scientific conferences. Two additional papers are in preparation for publication in international peer-reviewed journals.

**Supervisor:** Prof DBG Williams

**Co-supervisor:** Prof HH Kinfe



## **Vatsha, Banele (PhD)**

Banele Vatsha hails from the mountains of the Eastern Cape. He was born in 1985 in Flagstaff. He spent most of his childhood herding cows and sheep. He matriculated from Jikindaba High School in 2003. He obtained his BSc and BSc Honours in Chemistry in 2008 and 2009 respectively from the University of Fort Hare. He obtained his Master's degree in Chemistry *cum laude* from the University of KwaZulu-Natal in 2011. In May 2011, he was awarded a prestigious Professional Development Program PhD Fellowship by the Department of Science and Technology (DST) through Mintek to pursue PhD studies at the University of Johannesburg. The program was hosted by the Mintek-Nanotechnology Innovation Centre (NIC) to train him as a research scientist.

Demand for clean water is a global challenge, made worse by domestic and industrial discharges. Nanotechnology using filtration membranes, is a promising water treatment method. Banele's PhD study investigated new membrane prototypes for water treatment by integrating nanoparticles (magnesium oxide and silver-graphene oxide nanoparticles) and membrane materials (polyethersulfone and polyethersulfone-g-polystyrenesulfonate) to produce nanocomposite membranes for treating river water samples containing organic pollutants and microbial organisms (*E. coli* and *S. Aureus*). The findings of the study have been presented at local and International conferences, and have been published in three international peer-reviewed journals with two more papers currently under review.

**Supervisor:** Prof JC Ngila

**Co-supervisor:** Prof TAM Msagati

**Co-supervisor:** Dr R Moutloali (Mintek)



## **Vilakati, Doctor Gcina (PhD)**

Doctor Gcina Vilakati was born and raised in Swaziland in the Shiselweni Region. He matriculated at Nyamane High School in 2003. In 2004 Doctor enrolled for a four year BSc degree majoring in Chemistry and Biological sciences at the University of Swaziland. He passed with a second class first division [2(i)] in 2008. In 2009 he enrolled for an MSc degree in Chemistry at the University of Johannesburg and obtained it *cum laude* in 2010. During his MSc and PhD studies, Doctor was affiliated with leading international universities such as the Delft University of Technology in the Netherlands and the University of California Los Angeles in the United States.

The candidate's research focused on the use of a natural and renewable additive (lignin) and a comparative analysis was made with predominantly used synthetic additives in the fabrication of ultrafiltration, and forward osmosis membranes for seawater desalination. He also studied the relationship between the composite membrane performance and the morphology of the support layer (nonwoven fabric). The natural additive modified membranes produced high water permeability with high solute retention, a characteristic which is sought in membrane filtration. Analysis of the forward osmosis composite membranes by physical means and using permeability parameters revealed the need for a revised series of equations that are normally used in literature (and industry) to characterize the structural parameters of Reverse and Forward osmosis membranes. This work has been presented at several national and five international conferences and as a result, five articles have been published in peer-reviewed international journals.

**Supervisor:** Prof BB Mamba

**Co-supervisor:** Prof EMV Hoek (University of California, Los Angeles, USA)



# NATIONAL ANTHEM/VOLKSLIED/ KOŠA YA SETŠHABA/ICULO LESIZWE

Nkosi sikelel' iAfrika  
Maluphakanyisw' uphondo lwayo  
Yizwa imithandazo yethu  
Nkosi sikelela thina lusapho lwayo

Morena boloka Setjhaba sa heso  
O fedise dintwa le matshwenyeho,  
O se boloke, O se boloke  
Setjhaba sa heso,  
Setjhaba sa South Africa, South Africa.

Uit die blou van onse hemel,  
uit die dieptes van ons see,  
oor die 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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