



Graduation Programme

The Future. Reimagined.



**Welcome to the
Graduation Ceremony
of the
University of Johannesburg
08 April 2019**

**Welkom by die
Gradeplegtigheid
van die
Universiteit van Johannesburg
08 April 2019**

**Le a Amogelwa
Moletlong wa Dikapešo wa
Yunibesithi ya Johannesburg
08 Moranang 2019**

**Niyamukelwa
eMcimbini wokweThweswa kweZiqu
weNyuvesi yaseJohannesburg
08 kuMbaso 2019**

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 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: RESEARCH AND INTERNATIONALISATION

Prof S Sinha
BEng, MEng, PhD (UP)

REGISTRAR

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

CHIEF FINANCIAL OFFICER

Ms N Mamorare
BCom (Rhodes), BCom Hons (UKZN), CA (SA)

DEPUTY VICE-CHANCELLOR: EMPLOYEES AND STUDENT AFFAIRS

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

CHIEF OPERATING OFFICER

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

GENERAL COUNSEL

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

SENIOR EXECUTIVE DIRECTOR IN THE VICE-CHANCELLOR'S OFFICE

Dr N Vukuza
BA (Fort Hare), BA Hons (Rhodes), DTE (UNISA), MA (Wits), PhD (Stellenbosch)

EXECUTIVE DEANS

COLLEGE OF BUSINESS AND ECONOMICS

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

FACULTY OF ART, DESIGN AND ARCHITECTURE

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

FACULTY OF EDUCATION

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

FACULTY OF ENGINEERING AND THE BUILT ENVIRONMENT

Prof DJ Mashao
BSc Eng (UCT), MSc Eng (UCT), MSc AM (Brown, USA), PhD (Brown, USA)

FACULTY OF HEALTH SCIENCES

Prof S Khan
BSc, BSc Hons, MSc, PhD (UWC)

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 SCIENCE

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

MEMBERS OF COUNCIL

CHAIRPERSON

Mr MS Teke

DEPUTY CHAIRPERSON

Dr Y Ndema

MEMBERS

Prof H Abrahamse
Mr FM Baleni
Ms S Dlamini
Ms K Gugushe
Prof D Hildebrandt
Ms X Kakana
Mr G Khosa
Ms B Madikizela
Mr M Mahlasela
Prof T Marwala
Mr T Mati
Ms Z Matlala
Ms BJ Memela-Khambula
Mr K Mophutha
Prof A Parekh
Dr WP Rowland
Prof A Strydom
Dr M Tom

Programme

Monday, 08 April 2019 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

Mošupologo, 08 Moranang 2019 ka 17:00

Go kgonthiša gore dilo di sepela ka tshwanelo nakong ya moletlo, bohle bao ba tlilego 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, 08 April 2019 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

uMsombuluko, 08 kuMbaso 2019 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/idiploma/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):

Adimang, Keabetswe (Radiography: Diagnostics)
Dlamini, Lamina Theoth (Radiography: Diagnostics)
Havenga, Marilee (Radiography: Therapy)
Khuzwayo, Ruth Mokgaitse (Somatology)
Labuschagne, Janica (Radiography: Therapy)
Lubisi, Silindokuhle (Somatology)
Maamogwa, Baedigile Abednego (Radiography: Diagnostics)
Makgalatiba, Mashoto Makutswi (Somatology)
Malimabe, Sylvia Dineo (Radiography: Diagnostics)
Marakalla, Ramasela Paula (Somatology)
Mavhunga, Livhuani William (Radiography: Diagnostics)
Mbombi, Evidence Ntsako (Radiography: Diagnostics)
Mdlalose, Zinzile Emogan Jessica (Radiography: Diagnostics)
Moabi, Boitumelo Klaas (Radiography: Diagnostics)
Mobane, Risuna Princess (Somatology)
Moyaha, Kolobe Jessica (Radiography: Therapy)
Mthembu, Gugulethu Lindiwe (Somatology)
Mthethwa, Ntokozo Willson (Radiography: Diagnostics)
Mugwena, Sharleen Ridotshila (Radiography: Diagnostics)
Ndonyana, Forget Arline (Somatology)
Nemapate, Murunwa (Radiography: Diagnostics)
Ngobese, Gqamile Bukisiwe (Somatology)
Ngwenya, Sindisiwe (Radiography: Therapy)
Nkosi, Nomalanga Ellie (Radiography: Diagnostics)
Nyawo, Londiwe Hapiness (Somatology)
Nyoni, Nonhlanhla Mediatix (Somatology)
Qabaka, Nokuva (Radiography: Therapy)
Ramaboea, Letlhogonolo (Radiography: Diagnostics)
Schwartz, Tomaureeze Fredelize (Radiography: Diagnostics)
Setlhare, Tebogo Michael (Radiography: Diagnostics)
Shaik, Yaasmeen (Radiography: Diagnostics)
Sheik, Sabeehah (Radiography: Diagnostics)
Sibanda, Zanele Brightness (Somatology)
Sondzaba, Nonhlanhla Happiness (Radiography: Diagnostics)
Tshehlana, Thato Elizabeth (Somatology)
Van zanten Solleveld, Laurische (Radiography: Diagnostics)
Yakobi, Nosisa (Somatology)
Zwane, Phumzile Patricia (Somatology)

2. **Baccalaureus Technologiae (BTech):**

Balster, Lindy Lee (Radiography: Ultrasound)
Barnard, Mciehle (Radiography: Ultrasound)
Bata, Nadirah (Podiatry)
Begg, Noeraan (Radiography: Diagnostic)
Bosch, Valerie Faith (Radiography: Ultrasound) **(with distinction)**
Brown, Shoneez (Radiography: Diagnostic)
Bunda, Kabila (Radiography: Diagnostic)
Chitonya, Elliot Ajison (Radiography: Diagnostic)
Choonara, Yaasirah Mohomed (Podiatry)
Chopdat, Asma (Radiography: Diagnostic)
Choudhry, Mumtaz (Radiography: Diagnostic)
Darsot, Bibi Ayesha (Podiatry)
Dawood, Zaaeeba (Radiography: Ultrasound) **(with distinction)**
Dlamini, Sibonelo Eric (Podiatry)
Dodd, Kacey Leigh (Podiatry)
Edow, Addawe (Radiography: Diagnostic)
Esau, Nathania (Somatology)
Feni, Boitumelo (Radiography: Diagnostic)
Goeieman, Kelly-Anne (Somatology)
Goolam Mohamed, Waseela Osman (Radiography: Diagnostic)
Govender, Premishka (Podiatry)
Gunessee, Shruti (Radiography: Ultrasound)
Hartley, Kaylee Diane (Radiography: Therapy)
Hassen, Aadila (Radiography: Diagnostic)
Henrico, Caroline (Radiography: Ultrasound)
Herman, Lyndall Tanya (Podiatry)
Hlongwane, Nothando Winile (Radiography: Diagnostic)
Ismail, Saaliha Ahmed (Radiography: Diagnostic)
Jekwa, Makhosazana (Radiography: Diagnostic)
Kala, Tejal (Radiography: Ultrasound)
Kampala, Elijah Ndhlovu (Radiography: Diagnostic)
Khoza, Ntsako (Radiography: Diagnostic)
Kola, Muhammad (Podiatry)
Kombe, Judith Kalembwe (Radiography: Diagnostic)
Kunene, Sibonisile Linda (Radiography: Ultrasound)
Lekena, Puseletso (Somatology)
Leshabane, Mohau Anecia (Somatology)
Lloyd, Tracy Victoria (Radiography: Diagnostic) **(with distinction)**
Luthelo, Nketolo Exousia (Radiography: Diagnostic)
Mabena, Makhosazana Ntomenhle (Radiography: Therapy)
Maboko, Segopotse Cynthia (Radiography: Diagnostic)
Madondo, Mokoma Slindile (Radiography: Diagnostic)
Mahlangu, Sunny Londiwe (Podiatry)
Makanjana, Phumeza Patronella (Radiography: Ultrasound)

Maseko, Zanele Angel (Podiatry)
Mashalane, Sekati Tlou Prince (Radiography: Therapy)
Mashamaite, Nnanana Dikeledi (Radiography: Diagnostic)
Masoga, Nakedi Elvis (Podiatry)
Mdlalose, Mbalenhle (Radiography: Diagnostic)
Mdlankomo, Precious (Radiography: Diagnostic)
Mirkin, Sarah Chanah (Podiatry)
Modibana, Lebogang (Radiography: Diagnostic)
Mohai, Neo Pascalinah Kelebeletsoe (Radiography: Diagnostic)
Mokone, Mabatho Sylvia (Radiography: Diagnostic)
Mokoto, Tirelo Pearl (Radiography: Diagnostic)
Mulumba, David (Radiography: Diagnostic)
Mumba, Julie (Radiography: Diagnostic)
Musana, Steven (Radiography: Diagnostic) **(with distinction)**
Mutambo, Martin (Radiography: Diagnostic) **(with distinction)**
Mutota, Lorna Peyavali (Radiography: Ultrasound)
Muzamhindo, Leevonia Paidamoyo (Podiatry)
Mwale, Phaniso (Radiography: Diagnostic)
Myakayaka, Constance Mpho (Radiography: Diagnostic)
Nadasen, Larissa (Radiography: Diagnostic)
Ndlovu, Mackenor Saneliso (Somatology)
Ngqola, Nontsikelelo (Podiatry)
Nisingizwe, Eugene (Radiography: Diagnostic)
Noge, Sebolelo Constance (Radiography: Diagnostic)
Nyambose, Richard John (Radiography: Diagnostic)
Okyere, Eric Kwasi (Radiography: Diagnostic)
Paganga, Demetria Shamiso (Radiography: Diagnostic)
Palmer, Jessica Lee (Radiography: Ultrasound)
Paton, Ian Gordon (Radiography: Diagnostic)
Pereira, Nicole (Radiography: Diagnostic)
Pillay, Melanie (Radiography: Diagnostic)
Pitt, Natasha Monique (Radiography: Ultrasound)
Ramaboea, Mokgadi Sharon (Radiography: Diagnostic)
Ramokgopa, Mamabo Khomotjo (Somatology)
Randall, Danica (Podiatry)
Reddy, Presha (Somatology)
Riet, Bruchelle Monique (Radiography: Ultrasound)
Schoeman, Kim (Radiography: Ultrasound)
Sebola, Tumi Teressa (Radiography: Diagnostic)
Setati, Mmakgabo Annah (Radiography: Diagnostic)
Shoyisa, Sphiwosenkosi Jacob (Podiatry)
Siddique, Sidra (Radiography: Therapy) **(with distinction)**
Sikhundla, Innocentia Palesa (Radiography: Ultrasound)
Silaule, Ebenhezer (Podiatry)
Singh, Akira (Radiography: Diagnostic)
Siripru, Yaowaluk (Somatology)

Sithole, Celiwe Tendery (Radiography: Diagnostic)
Skhosana, Lillian Refiloe (Radiography: Ultrasound)
Sono, Yvone (Radiography: Diagnostic)
Stander, Madelein (Radiography: Ultrasound) **(with distinction)**
Stork, Laura Amy (Radiography: Diagnostic)
Tambani, Khathutshelo Aron (Radiography: Diagnostic)
Urassa, Betty Hubert (Radiography: Diagnostic)
Van Zyl, Justine Leigh (Radiography: Ultrasound)
Vermeulen, Dane (Radiography: Ultrasound)
Vilakazi, Noxolo Nkosikhona (Somatology)
Viljoen, Karmen (Radiography: Ultrasound)
Viljoen, Tamryn (Radiography: Ultrasound)
Zealand, Nicole Meecha (Radiography: Therapy)

3. Baccalaureus Optometriae (Optometry) Bachelor of Optometry:

Ahmed, Naailah
Akoodi, Tasneem Zubairaly
Baloyi, Buhle Khanyile Andzile
Bham, Azraa
Bhayat, Tariq
Chetty, Nicholas
Daya, Vivek Ramesh
Dollie, Sufyaan
Frosch, Andrea Elaine
Hartmann, Chelsea-Ann
Khan, Firdaus
Landman, Carmen
Makate, Matome Herman
Makhafola, Neo Alex
Malambe, Thabang Lungile
Marais, Tanya
Matimolane, Claretta Mohlatlego
Price, Sasha Lee
Schmid, Arne
Sebela, Mphengwa Sharon
Seedat, Sabeegah Mohamed
Van der Merwe, Andrea

4. **Master of Nursing Science (MNSc):**

Khabi, Boitumelo Gladys (Community Nursing Science)

Dissertation: Lived Experiences of Female Undergraduate Students who have Undergone Termination of Pregnancy (TOP) at a University in Gauteng

Supervisor: Dr NDB Magobe

Co-supervisor: Dr C Downing

Matshaka, Lorato Portia (Professional Nursing Science: Ethos & Professional Practice) **(with distinction)**

Dissertation: Student Nurses Perceptions of the Relationship between Mindfulness and Caring

Supervisor: Dr C Downing

Co-supervisor: Prof M Poggenpoel

5. **Magister Technologiae (MTech):**

Badenhorst, Erna (Chiropractic) **(with distinction)**

Minor Dissertation: Experiences of Chiropractors in their First Year of Practice in Johannesburg

Supervisor: Dr C Bester

Co-supervisor: Dr DM Landman

Batty, Dylan Johnson (Chiropractic)

Minor Dissertation: A Survey on the Use, Benefits and Level of Training in Joint Manipulation by Veterinarians in Johannesburg, South Africa

Supervisor: Dr M Moodley

Booyesen, Naomi (Chiropractic) **(with distinction)**

Minor Dissertation: An Analysis of Diagnosed Conditions and Treatment Frequency in Patients presenting to the UJ Chiropractic Day Centre in 2016

Supervisor: Dr CJ Yelverton

Carstens, Matthew Craig (Chiropractic)

Minor Dissertation: A Comparison of the Application of Different Tapes on the Measurement of Postural Kyphosis

Supervisor: Dr CJ Yelverton

Conway, Candice Simone (Chiropractic)

Minor Dissertation: Kinesio Tape Therapy versus Spinal Manipulative Therapy in the Treatment of Iliotibial Band Friction Syndrome

Supervisor: Dr DM Landman

Daramola, Olukemi Funmilayo (Biomedical Technology)

Dissertation: The Effects of Atripla and Alcohol Co-Administration on the Histomorphometry of the Liver and Kidneys of Adult Male Sprague Dawley Rats

Supervisor: Mr P Nkomozepe

Co-supervisor: Mrs BP Xhakaza

Co-supervisor: Mrs JQ Mthombeni

De Clercq, Colette (Chiropractic)

Minor Dissertation: The Effect of Cervical Manipulation Alone Versus Cervical Manipulation Combined with Dry Needling on Biceps Brachii Strength

Supervisor: Dr DM Landman

Kara, Shamini (Homoeopathy)

Minor Dissertation: An Evaluation of Patient Profiles and Record Keeping of the University of Johannesburg Homoeopathic Health Centre in Doornfontein

Supervisor: Dr R Patel

Co-supervisor: Dr TY Tsele-Tebakang

Khorasani, Fatemeh (Chiropractic)

Minor Dissertation: Ischaemic Compression Compared to Dry Needling of Trapezius Myofascial Trigger Point 1

Supervisor: Dr CJ Yelverton

Co-supervisor: Dr S Smilkstein

Kiro, Ndivito Elodie (Biomedical Technology)

Dissertation: The Impact of Low Intensity Laser Irradiation on Isolated Breast Cancer Stem Cells

Supervisor: Prof H Abrahamse

Lindeque, Daniel Lloyd (Chiropractic)

Minor Dissertation: The Immediate Effect of Cervical Manipulation on Nerve Conduction Velocity in Sub- Acute Mechanical Neck Pain

Supervisor: Dr CJ Hay

Menwe, Kealeboga Patrick (Radiography)

Dissertation: Effectiveness of Group Work in Radiography Education

Supervisor: Mrs LJ Hazell

Co-supervisor: Dr HA Lawrence

Nana, Seema (Somatology)

Dissertation: The Adherence to Intense Pulsed Light Protocol Guidelines by Somatologists

Supervisor: Ms T Pieterse

Co-supervisor: Mrs DE Campbell

Naransammy, Saisha (Chiropractic)

Minor Dissertation: Dry Needling Versus Intramuscular Electrical Stimulation on Deltoid Myofascial Trigger Points

Supervisor: Dr CJ Hay

Ncube, Itai Tendai (Biomedical Technology)

Dissertation: Assessment of the Awareness, Knowledge, Attitude towards the Human Papillomavirus among Infections and Vaccine Acceptability among University of Johannesburg Students

Supervisor: Mr M Ntlebi

Co-supervisor: Mrs I van der Westhuyzen

Ngcakaza, Imtatia Nokwanda (Biomedical Technology)

Dissertation: The Effect of Neonatally Administered Oleanolic Acid on Adult Hippocampal Neurogenesis in a Fructose Induced Sprague Dawley Rat Model of Metabolic Syndrome

Supervisor: Mr P Nkomozepe

Co-supervisor: Mr NK Xhakaza

Okello, Charles Omondi (Radiography)

Dissertation: Ultrasound Management of High Risk Pregnancies in Kenya Compared to International Best Practice

Supervisor: Mrs B van Dyk

Orr, Craig Ross (Chiropractic)

Minor Dissertation: Cervical Spine Manipulation versus Sub-Occipital Muscle Release Technique in the Treatment of Tension Type Headaches

Supervisor: Dr CJ Hay

Ritter, Jacques (Chiropractic) (with distinction)

Minor Dissertation: The Immediate Effect of Manipulation of the Talocrural, Proximal Tibiofibular Joints and the Combination thereof on Ankle Dorsiflexion

Supervisor: Dr C Bester

Co-supervisor: Dr DM Landman

Swanepoel, Lean Hendrik (Chiropractic)

Minor Dissertation: A Survey on the Knowledge of Suspicious Skin Lesions and Screening Behavior of Johannesburg Based Master's Students

Supervisor: Dr M Moodley

Co-supervisor: Dr GJ Paton

Vandeyar, Shirda (Chiropractic)

Minor Dissertation: The Effect of Dry Needling Versus Extracorporeal Shockwave Therapy on Myofascial Trigger Points in the Upper Trapezius Muscle

Supervisor: Dr DM Landman

Van Praag, Michela (Chiropractic) (with distinction)

Minor Dissertation: The Effects of a Chiropractic Approach to the Temporomandibular Joint in Chronic Headaches

Supervisor: Dr CJ Yelverton

Wagener, Nicole (Chiropractic) (with distinction)

Minor Dissertation: A Comparative Study of the Effect of Lumbar Manipulative Therapy, PNF Stretching of the Hamstring and a Combination of these Treatments on Hamstring Extensibility in Females Showjumpers

Supervisor: Dr DM Landman

Co-supervisor: Dr S Smilkstein

See the back cover for the words of the National Anthem.



A word of thanks to the UJ Alumni Association for sponsoring the flower arrangements at the University of Johannesburg graduation ceremonies.

The UJ Alumni Association manages a network to the advantage of every alumnus and the University. Become part of the ultimate network!

www.uj.ac.za/alumni