



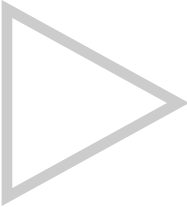
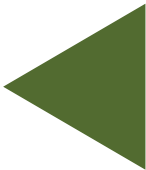
University of Fort Hare
Together in Excellence



Virtual Graduation

**FACULTY OF SCIENCE AND
AGRICULTURE**

Friday – 29 May 2020



UNIVERSITY SENIOR OFFICERS

Chancellor:

Advocate DB Ntsebeza SC, (BA) (SA), BProc (SA), LLB (Unitra) (WSU), LLM (International Law) (UCT)

Vice-Chancellor and Principal:

Professor S Buhlungu, BA History and Political Science (UNITRA), BA Hons African Studies (UCT), MA Industrial Sociology (WITS), PhD Sociology (WITS)

Chairperson of Council:

Vacant

Deputy Vice-Chancellor Academic Affairs:

Professor R Vithal, BA (Hons), UHDE (UDW); BEd (UN); MPhil (Cambridge); dr.scient (Aalborg)

Deputy Vice-Chancellor Institutional Support:

Professor N Ndlazi, BSc, Paed(UNIN); BSc. Hons, MSc(Mathematics), (UDW); PhD(UKZN)

Registrar and Secretary to Senate and Council:

Mr N Zuma BPaed (Unizulu); BBibI Hons (UNIN); MIS (UMich)

Dean, Faculty of Science and Agriculture:

Professor N Monde, Diploma (Fort Cox College of Agriculture), B. Agric (UFH), B. Agric Honours (UFH), PhD (UFH)

Acting Dean, Faculty of Social Science and Humanities:

Professor F H Nekhwevha, B Soc Sc (Hons) (UCT), BA (with Hons), MA (Cambridge) M Soc Sc, PhD (UCT)

Dean, Faculty of Law:

Doctor N Lubisi, B Juris (UFH), LLB (UFH), Advanced Certificate in Labour Law (Unisa), LLM in Labour Law (UFH), LLD (UFH)

Dean, Faculty of Education:

Professor VS Mncube, STD (Eshowe College); BA, BA (Hons) & Bed (University of Zululand); CLAIT (ICT) and IBTII (ICT) (Bourneville TVET College, UK); MEd, PGCR & PhD (University of Birmingham, UK)

Dean, Faculty of Management and Commerce:

Doctor N Wayi, BCom (Rhodes), MCom (UP), PhD (North West)

Acting Dean, Faculty of Health Sciences:

Professor DT Goon, BSc (Ed) PHE (Bayero University Kano), MTech cum laude, (TUT), DTech Clinical Technology (TUT)

Acting Dean, Research and Development:

Professor M Simatele PhD Economics (University of Gothenburg, Sweden), MALTHE Hertfordshire, UK), MA. Econ (Dar Es Salaam, Tanzania), BA Econ. & Sociology (Zambia)

Dean, Student Affairs:

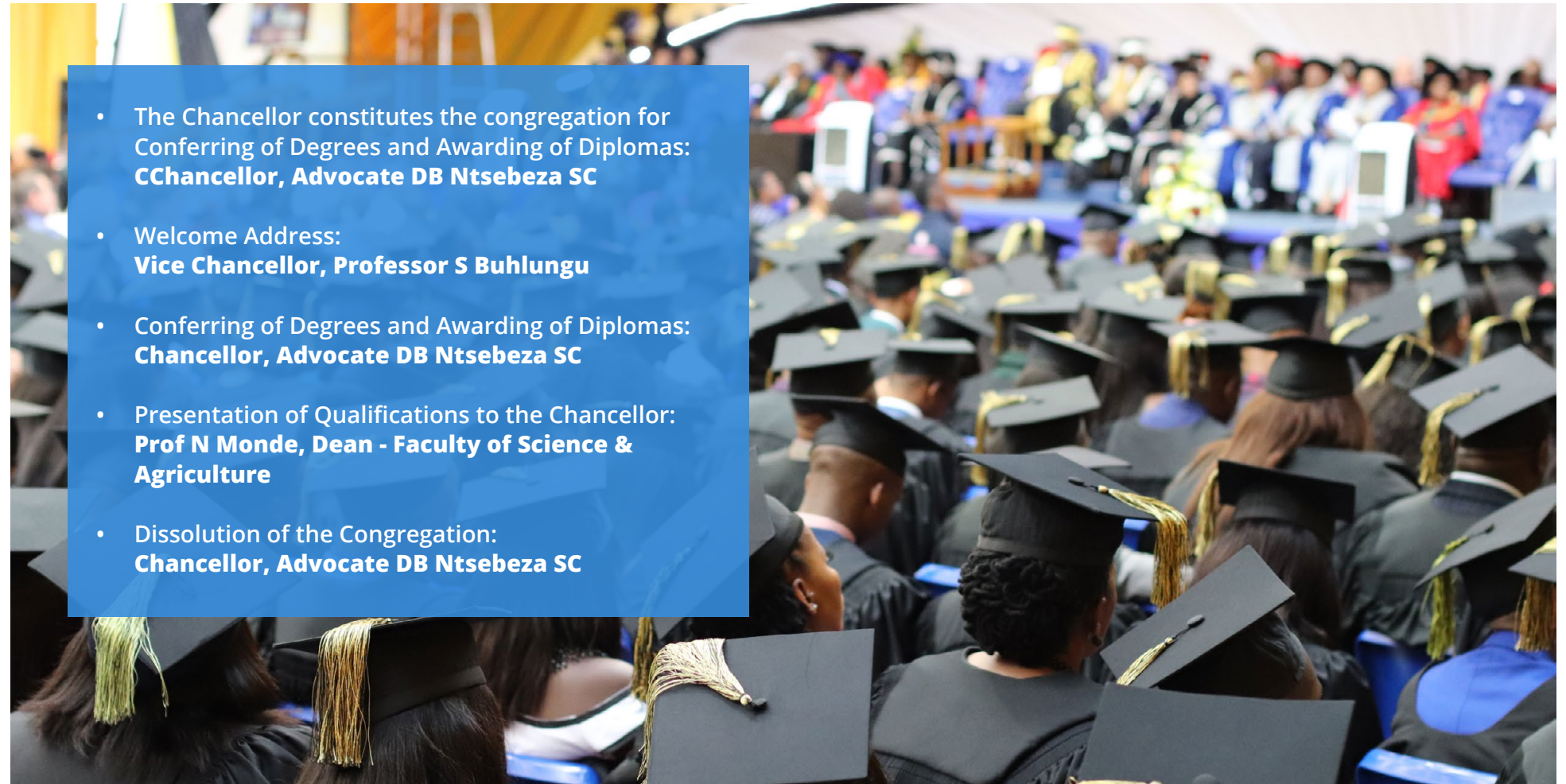
Mr M Gqeba, BA (UWC), Hons. Public Admin (Stellenbosch), M.Gov. and Pol. Transformation (UFS)

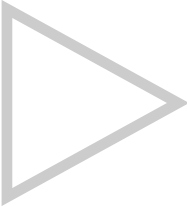
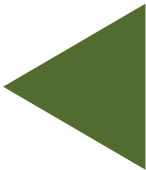
President of Convocation:

Mister S Tshona, BCom (UFH), BCom Hons Development Studies (UFH); Cert. in Banking (Bank SETA)

ORDER OF PROCEEDINGS

- The Chancellor constitutes the congregation for Conferring of Degrees and Awarding of Diplomas: **CChancellor, Advocate DB Ntsebeza SC**
- Welcome Address: **Vice Chancellor, Professor S Buhlungu**
- Conferring of Degrees and Awarding of Diplomas: **Chancellor, Advocate DB Ntsebeza SC**
- Presentation of Qualifications to the Chancellor: **Prof N Monde, Dean - Faculty of Science & Agriculture**
- Dissolution of the Congregation: **Chancellor, Advocate DB Ntsebeza SC**





DOCTORAL DEGREES

DOCTOR OF AGRICULTURE IN AGRICULTURAL ECONOMICS

MUROIWA Joseph

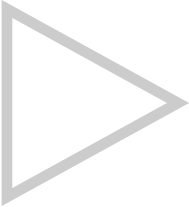
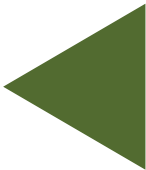
PROFILE

Joseph Muroiwa's study examined socio-economic and institutional constraints to the smallholder tobacco value chain in Zimbabwe. The study was conducted in Mount Darwin District, Zimbabwe. Data were collected from a sample of 380 smallholder farmers (293 contracted, 87 non-contracted). The findings from the study identified shortage of foreign currency, high cost of input and inadequate agricultural finance as some of the farmers' constraints to tobacco production. Major forms of institutional failure along the tobacco value chain included, weak monetary rules and regulations, policy inconsistencies and farmers' lack of collateral security over land. On the other hand, side-marketing and diversion of input by farmers threatened the sustainability of the tobacco value chain. A multi-stakeholder approach involving farmers, input suppliers, tobacco companies and value chain supporters such as local and central government is recommended to proffer solutions to the identified challenges to create a win-win situation so that the value chain remains viable and sustainable.

MUROIWA Joseph

THESIS TITLE: Institution Involvement, Institutional Failures and Smallholder Participation and Efficiency in the Tobacco Value Chains in Mount Darwin District, Zimbabwe

SUPERVISOR: Prof. A Mushunje



DOCTORAL DEGREES

DOCTOR OF AGRICULTURE IN ANIMAL SCIENCE

MOSHIDI Portia Mamothaladi

PROFILE

Moshidi Portia Mamothaladi's study determined the potential of extracts from *Vangueria infausta*, *Peltophorum africanum* and *Eucalyptus globulus* to modulate ruminal microbes and their effects on fermentation and productivity in dairy cows. The study determined the yield, phytochemical content, antioxidant activity, cytotoxicity and antibacterial activity of crude extracts and essential oils of leaves of *V. infausta*, *P. africanum* and *E. globulus*. Effects of essential oils on in vitro nutrients degradability and effects of supplementation with essential oil from leaves of *Eucalyptus globulus* on feed intake, milk yield and blood metabolites in lactating Jersey cows were evaluated. Although the plant extracts used in the present study had high content of phenolic compounds and were safe for animals showing positive interesting results on improving nutrient digestibility, no impact was observed in milk yield. However, the decrease in methane output and increasing blood glucose were indications of improved nutrient utilisation. There is a need to study the adaptation of rumen microbes and protozoa populations to the antimicrobial action of *E. globulus* leaf oil and its secondary metabolites. In addition, evaluation is granted on prolonged ruminant feeding in order to elucidate the suitable dose for improving rumen fermentation. This should be done to ascertain the economic and environmental impact.

MOSHIDI Portia Mamothaladi

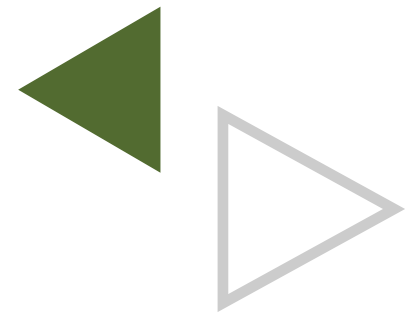
THESIS TITLE: Potential of extracts from *Vangueria infausta*, *Peltophorum africanum* and *Eucalyptus globulus* to modulate ruminal microbes, and their effects on fermentation and productivity in dairy cows.

SUPERVISOR: Prof J F Mupangwa,

CO-SUPERVISORS: Dr M C Muya
Dr C T Mpendulo



DOCTORAL DEGREES



DOCTOR OF AGRICULTURE IN CROP SCIENCE

TIBUGARI Handsen

PROFILE

Handsen Tibugari's study examined the potential of sorghum accessions from Southern Africa to suppress weeds, other crops as well as sorghum itself through allelopathy. Results showed that some farmers were aware of sorghum's allelopathic potential against weeds. Some landrace and wild sorghum accessions produced high sorgoleone quantities, and these can serve as sources of breeding material to improve allelochemical production in commercial varieties, which produce little sorgoleone. Although sorghum allelopathy suppressed weeds, it also suppressed sorghum and other crops, making it necessary for farmers to take precautions that protect sorghum and other crops when using sorghum allelopathy for weed control.

TIBUGARI Handsen

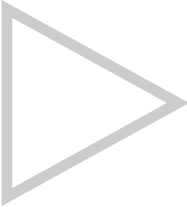
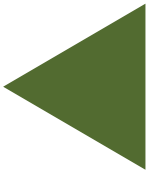
THESIS TITLE: Allelopathy effects of sorghum accessions from southern Africa to improve weed management.

SUPERVISOR: Prof C. Chiduza

CO-SUPERVISORS: Prof A.B. Mashingaidze
Dr S. Mabasa



DOCTORAL DEGREES



DOCTOR OF PHILOSOPHY IN GEOLOGY

MEPAIYEDA Seyi

PROFILE

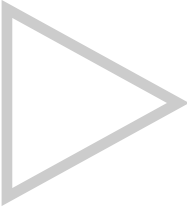
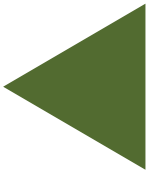
Seyi Mepaiyeda's study focused on the geological and geophysical assessment of groundwater vulnerability to contamination in selected general landfill sites in the Eastern Cape Province. Geological and geophysical data were collected from the Alice, King Williams' Town and Berlin landfills. The study revealed the presence of percolating leachate plumes across the landfills with moderate to high level of contamination of the groundwater resources. Correlation of the geological and geophysical data also indicated presence of structural controls, which could serve as excellent pathways for contaminant migration. The study, therefore, suggested that proper waste inspection and classification should be done prior to disposal and the use of lining and cap material to prevent the leaching of contaminants into the groundwater. This will go a long way in mitigating contamination due to landfilling at the study areas.

MEPAIYEDA Seyi

THESIS TITLE: Geological and geophysical assessment of groundwater vulnerability to contamination in selected general landfill sites in the Eastern Cape Province, South Africa

SUPERVISOR: Dr K Madi

CO-SUPERVISOR: Prof O Gwavava



DOCTORAL DEGREES

DOCTOR OF PHILOSOPHY IN GEOLOGY

OWOLABI Solomon Temidayo

PROFILE

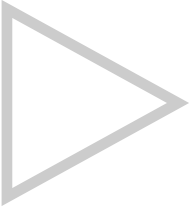
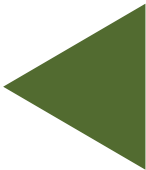
Solomon Temidayo Owolabi's study assessed the factors influencing the geohydrological variability of surface water and groundwater resources at a catchment scale. His study was an attempt to develop a conjunctive approach for exploring localized zones of groundwater potential. Hence, time-series analysis of streamflow and rainfall, digital processing of aeromagnetism, geomorphometric analysis, and on-site electrical resistivity tomography and geological survey informed the geohydrodynamics catchment analysis. Themes of geoscientific factors created from these analyses enabled the GIS-based mapping of groundwater potential zones, and characterizing Buffalo catchment as a fractured and intergranular aquifer. The study identified excellent potential areas with groundwater resources, which could be harnessed to address the water scarcity challenge. Therefore, the study recommends the adoption of the integrated methods developed to delineate the regional groundwater aquifers in country and beyond. The findings also showed the need for the Department of Environment and Water Affairs to work with other stakeholders to protect the highly vulnerable groundwater zones from potential contamination due to land use changes. Two articles have been published and five manuscripts submitted to DHET accredited journals from this thesis.

OWOLABI Solomon Temidayo

THESIS TITLE: Evaluation of groundwater potential based on hybrid approach of geology, geophysics, and geoinformatics: Case study of Buffalo Catchment area, Eastern Cape, South Africa

SUPERVISOR: Dr. K. Madi

CO-SUPERVISOR: Dr. A. M. Kalumba



DOCTORAL DEGREES

DOCTOR OF PHILOSOPHY IN MICROBIOLOGY

ADELABU Olusesan Adeyemi

PROFILE

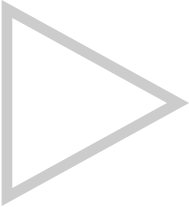
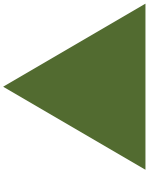
Olusesan Adelabu's research focused on Molecular detection and characterization of zoonotic tick-borne bacterial, protozoan and viral pathogens in Amathole and O.R Tambo District Municipalities in the Eastern Cape Province, South Africa. Ticks were manually removed from domesticated animals. Through different molecular techniques and bioinformatics tools, this study was able to establish that ticks from domesticated ruminants in the Eastern Cape Province were naturally infected with Rickettsial, Ehrlichial and Theilerial pathogens which could be transmitted to humans via tick bites, thus suggesting concern for public health, as some of the recovered pathogens are zoonotic in nature and could pose serious public health risk through human exposure to tick bites. One article has been published from this work in DHET accredited peer-reviewed journal, other two manuscripts are in advanced stages of peer-review and two papers have been presented at both national and international conferences.

ADELABU Olusesan Adeyemi

THESIS TITLE: Molecular detection and characterization of zoonotic tick-borne bacterial, protozoan and viral pathogens in Amathole and O.R Tambo District Municipalities in the Eastern Cape Province, South Africa.

SUPERVISOR: Prof L.C. Obi

CO-SUPERVISOR: Prof A.I. Okoh
Dr B.C. Iweriebor



DOCTORAL DEGREES

DOCTOR OF PHILOSOPHY IN MICROBIOLOGY

EBOMAH Kingsley Ehi

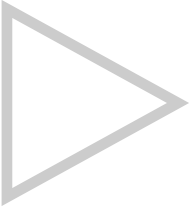
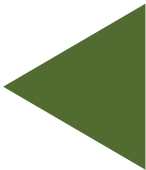
PROFILE

Kingsley Ehi Ebomah's doctoral research evaluated the antimicrobial resistance fingerprints of some Carbapenem-resistant Enterobacteriaceae (CRE) isolates recovered from selected environmental niches comprising hospital wastewater effluents, wastewater treatment plants (WWTPs) final effluents, surface water, irrigation water, farm soil and vegetables in Amathole District Municipality (DM), Sarah Baartman DM and Chris Hani DM in the Eastern Cape Province. The study revealed the occurrence of CRE in all samples and highlighted the role of WWTPs and aquatic environment as potential reservoirs of CRE in their host communities, and consequently potential health risk to communities. Three articles have been published from this work in DHET accredited journals, and the findings have been presented at both national and international conferences.

EBOMAH Kingsley Ehi

THESIS TITLE: Evaluation of the Antibigram Fingerprints of Carbapenem-resistant Enterobacteriaceae (CRE) recovered from selected environmental niches in three District Municipalities in the Eastern Cape Province, South Africa.

SUPERVISOR: Prof A.I. Okoh



DOCTORAL DEGREES

DOCTOR OF PHILOSOPHY IN MICROBIOLOGY

OTIGBU Anthony Chiedu

PROFILE

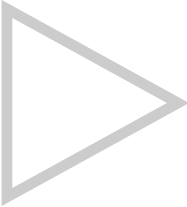
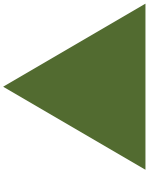
Anthony Otigbu's study investigated the prevalence, antibiogram and molecular characteristics of selected waterborne pathogenic and opportunistic bacteria species recovered from environmental water sources in the Eastern Cape Province. His study also determined the effect of *Psammopsinia* spp crude extract on the pathogens. The microbial and physicochemical water quality of Nahoon Dam and estuary were determined over a 12-month period whereby all except the mean salinity readings exceeded recommended standards. The bacteriological assessment of the water bodies revealed heavy contamination with coliform and opportunistic bacterial pathogens of public health importance especially around areas of frequent human activity. The findings of the study also revealed antibiotic and multiple antibiotic-resistant traits as well as varying degrees of virulence properties among the recovered strains. The ethyl acetate crude extract of the marine sponge *Psammopsinia* spp was bioactive against most of the pathogens. The study, therefore, recommends frequent monitoring as well as stringent control measures to reduce contamination of environmental water bodies. The sponge species *Psammopsinia* spp should be considered as possible source of lead molecules that could form the basis of future drugs against antibiotic-resistant bacteria.

OTIGBU Anthony Chiedu

THESIS TITLE: Pathogenomic characterization and antimicrobial profiling of waterborne opportunistic bacterial pathogens recovered from Nahoon environmental water sources in the Eastern Cape Province of South Africa

SUPERVISOR: Dr H.A. Njom

CO-SUPERVISOR: Prof G. Bradley



MASTER'S DEGREES

MASTER OF AGRICULTURE IN AGRICULTURAL EXTENSION

MAKAULA Zimasa

DISSERTATION: The use of information and communication technologies in agricultural development in rural areas: Case of smallholder farmers in Umzimvubu Local Municipality.

SUPERVISOR: Prof A Taruvinga

CO-SUPERVISOR: Dr SFG Yusuf

MASTER OF SCIENCE IN AGRICULTURE IN ANIMAL SCIENCE *Cum Laude*

NGWENDU Nwabisa

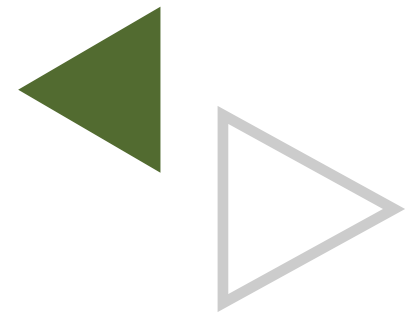
DISSERTATION: The effect of muscle type and freezing on the evolution of physico-chemical properties during processing of South African biltong and its final textural properties

SUPERVISOR: Prof V Muchenje (late)

CO-SUPERVISORS: Prof L Hoffman
Prof E Arnaud



MASTER'S DEGREES



MASTER OF SCIENCE IN AGRICULTURE IN ANIMAL SCIENCE

MDIKILI Zizipho

DISSERTATION: Muscle nanostructure and physicochemical characteristics of South African A and AB mutton classes.

SUPERVISOR: Prof V Muchenje (late)

CO-SUPERVISOR: Dr AY Chulayo

MTHANA Makiwa Simeon

DISSERTATION: The effect of feeding varying inclusion levels of velvet bean (*Mucuna pruriens*) seed meal on growth performance and physicochemical attributes of broiler chicken.

SUPERVISOR: Mr CS Gajana

CO-SUPERVISORS: Dr B Moyo
Prof J Mupangwa

MASTER OF SCIENCE IN AGRICULTURE IN HORTICULTURE

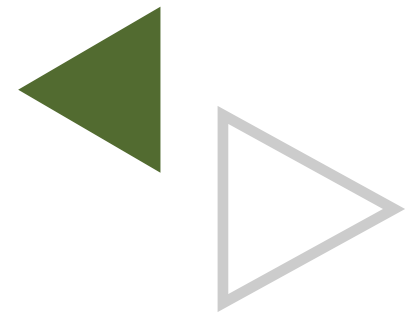
SOKOMBELA Asanda

DISSERTATION: The effect of nitrogen and phosphorus fertilizer rates, leaf age and drying techniques on yield and nutritional contents of *Moringa oleifera* leaves.

SUPERVISOR: Dr BK Eiasu



MASTER'S DEGREES



MASTER OF SCIENCE IN AGRICULTURE IN PASTURE SCIENCE

MASHECE Wandile

DISSERTATION: Effects of herbicide application and phosphorous fertilization on forage production and plant density of abandoned lands planted with pasture legumes.

SUPERVISOR: Prof ST Beyene

CO-SUPERVISOR: Dr JJ Botha

MASTER OF SCIENCE IN APPLIED MATHEMATICS

GURAJENA Simba

DISSERTATION: Dynamic mathematical modeling in chemical reaction networks.

SUPERVISOR: Prof PC Wagener

CO-SUPERVISOR: Dr SJ Childs

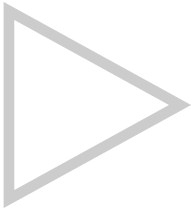
MASTER OF SCIENCE IN APPLIED REMOTE SENSING AND GIS

GWAZANI Nothando

DISSERTATION: Multi-temporal assessment of chlorophyll-a concentration in estuarine waters: A case study of Sundays and Swartkops Estuaries, Eastern Cape Province.

SUPERVISOR: Ms KR Marembo

CO-SUPERVISOR: Dr M Smith



MASTER'S DEGREES

MASTER OF SCIENCE IN BIOCHEMISTRY

KHUNDULU Zameka

DISSERTATION: Assessment of the membrane perturbation and protease inhibitory potentials of antimicrobial compounds produced by some *Pseudomonas* species.

SUPERVISOR: Prof UU Nwodo

NTSATA Zolani

DISSERTATION: An in silico analysis, purification and partial kinetic characterisation of a serine protease from *Gelidium pristoides*.

SUPERVISOR: Prof G Bradley

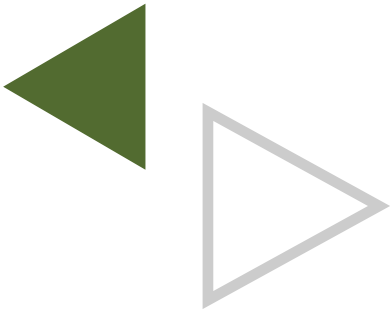
MASTER OF SCIENCE IN BIOSTATISTICS AND EPIDEMIOLOGY

LALA Masimthembe

MINI-DISSERTATION: Determination of factors associated with time to recovery from pneumonia using Cox proportional hazard model.

SUPERVISOR: Dr M Mutambayi

CO-SUPERVISOR: Mr R Chiruka



MASTER'S DEGREES

MASTER OF SCIENCE IN COMPUTER SCIENCE

MJOLI Phumelela Bellinda

DISSERTATION: Adol-Safety: A Framework for empowering parents to be aware of social network threats affecting adolescents.

SUPERVISOR: Dr ZS Shibeshi

CO-SUPERVISOR: Dr N Veerasamy

ZANGWA Yamkela

DISSERTATION: Developing a machine learning algorithm for outdoor scene image segmentation.

SUPERVISOR: Dr ZS Shibeshi

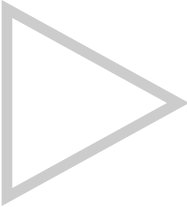
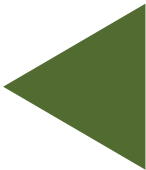
CO-SUPERVISOR: Dr M Ngxande

MASTER OF SCIENCE IN ENTOMOLOGY

NOHLAKA Busisiwe

DISSERTATION: Diversity and economic importance of lepidopteran stemborers on maize in Northern Cape Province, South Africa.

SUPERVISOR: Dr MA Stemele



MASTER'S DEGREES

MASTER OF SCIENCE IN GEOGRAPHY

MPEMBA Athenkosi

DISSERTATION: Spatiotemporal analysis of land cover change over the Amathole Marine Protected Areas, Eastern Cape Province.

SUPERVISOR: Dr SP Mazinyo

CO-SUPERVISOR: Dr AM Kalumba

WILLIE Yanga Adrian

DISSERTATION: Spatio-temporal variation of the land surface parameters in Temperature in King Williams Town, Eastern Cape Province, South Africa.

SUPERVISOR: Dr R Pillay

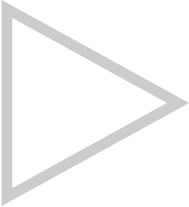
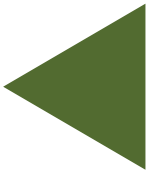
MASTER OF SCIENCE IN GEOLOGY

KHALIMASHE Sinesihle

DISSERTATION: A study of the geology of the Vaalbank and Lady Frere areas in the Karoo Basin of South Africa using gravity, magnetic and gamma ray spectrometry data: implications for ground-water potential.

SUPERVISOR: Prof O Gwavava

CO-SUPERVISOR: Ms M Havenga



MASTER'S DEGREES

MASTER OF SCIENCE IN MICROBIOLOGY *Cum Laude*

GXALO Oyama

DISSERTATION: Comparative assessment of the virulence determinants in *Vibrio* species isolated from hospital and municipal wastewater effluents.

SUPERVISOR: Prof UU Nwodo

MAYOYO Okuhle

DISSERTATION: Evaluation of the distribution of multi-drug resistance efflux systems (MexAB-OprM) and virulence determinants in *Pseudomonas aeruginosa* isolated from hospital effluent in the Eastern Cape Province.

SUPERVISOR: Prof UU Nwodo

MTSHAKAZA Lusanda

DISSERTATION: Evaluation of protease inhibitory and membrane perturbation potentials of the bacterial inhibiting compounds produced by *Bacillus* and *Pseudomonas* species.

SUPERVISOR: Prof UU Nwodo

NTSHANKA Zizipho

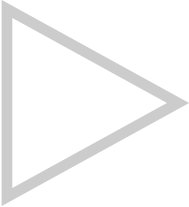
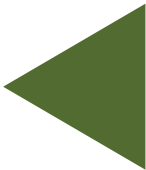
DISSERTATION: Incidence of antibiotic resistance in members of Enterobacteriaceae and *Listeria* species isolated from fresh vegetables in Sarah Baartman District Municipality, Eastern Cape Province, South Africa.

SUPERVISOR: Prof AI Okoh

QONGWE Velisa Vuyolwethu

DISSERTATION: Evaluation of antibacterial compounds produced by rhizosphere bacterial species isolated from woodlands of Raymond Mhlaba Local Municipality, Eastern Cape Province.

SUPERVISOR: Prof UU Nwodo



MASTER'S DEGREES

MASTER OF SCIENCE IN MICROBIOLOGY

MPONDO Liyabona

DISSERTATION: Occurrence and antibiogram profiles of *Listeria* species and Enterobacteriaceae isolated from river and irrigation water collected from Sarah Baartman District Municipality in the Eastern Cape Province, South Africa.

SUPERVISOR: Prof Al Okoh

MVINGQU Buhle Neaty

DISSERTATION: Isolation of bacterial species from wastewater for the production of laccase for the potential removal of phenolic compounds.

SUPERVISOR: Prof UU Nwodo

TSHAZI Nasiphi

DISSERTATION: Evaluation of bacteria-inhibiting compounds produced by rhizobacteria from the woodlands of Raymond Mhlaba Local Municipality, Eastern Cape Province, South Africa.

SUPERVISOR: Prof UU Nwodo

POSTGRADUATE DEGREES

BACHELOR OF AGRICULTURE HONOURS IN AGRICULTURAL ECONOMICS

BOBO Mandlenkosi

JONA Kwanda

MADIKIZELA Avela

MAHAMBANISO Inga

MNUKWA Mhlali

NJOLOZA Khanya Yolathisa Afika

SINGATHA Wendy

TSHEZI Thabisa

TSHOTSHO Asandiswa

BACHELOR OF AGRICULTURE HONOURS IN AGRICULTURAL EXTENSION

DYAKOPU Andiswa

KWINANA Ayabonga

MAHLUNGULU Oyama

MGQOGQI Wandile

MNGCOZA Zizipho

MOLOSI Yolisa

MPAKA Sanele

MTSHENGU Inamandla

NTWALANA Pumlanj

SHUMPA Nolusizo

TSHAYINGWE Kamvalethu

VULINDLELA Liso

ZEKELO Bandile

ZOLWANA Masande

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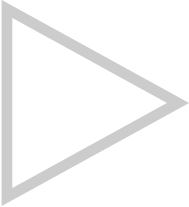
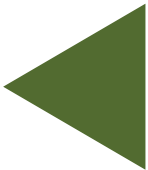
MOTSI Hamond

MZILENI Luyolo Siseko

NTOZINI Siyabonga Siyabulela



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GCAZA Luvuyo

MAUNGA Mary Nyasha

MBUYAZWE Thuliswa Prescious

MFANA Maureen

SIPHOKI Luzuko

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MAJALI Sakhumzi

MARALI Zibuko

NGCOKOVANA Khuselwa Ncebakazi

SIVUKA Nosicelo

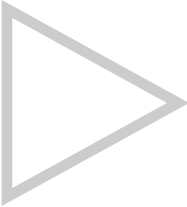
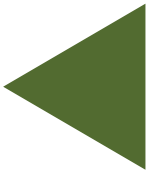
TAYI Sinelizwi

BACHELOR OF SCIENCE HONOURS IN APPLIED MATHEMATICS

SAMUTSA Tatenda Timothy



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BACHELOR OF SCIENCE HONOURS IN APPLIED REMOTE SENSING & GIS

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SAUL Lungelo Egypt

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TITI Sakhe

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MBANGWA Sisipo

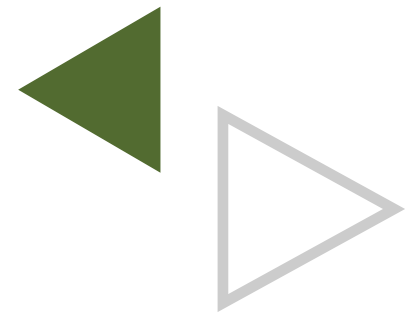
SIHLEHLE Sindiso

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GOWO Prudence



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FAKIDOLO Thandokazi

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NKUBUNGU Zizipho Vuyolwethu

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GARANE Simthembele

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MAQOKOLO Tandokazi

MDENI Nonkululeko Landy

MFUYWA Asiphe

NTOMBINI Simamkele

NTSWAYI Yonela

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SAMUEL Zipho

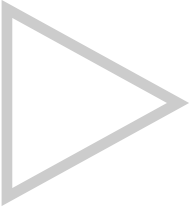
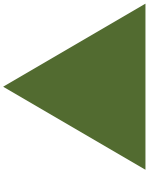
SEYISI Thulethu

SITOFILE Miranda

SIWANI Aphelele



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MVA Luhlumelo

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NYAMAMBI Afika Monica

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SODLAKA Buhle

TYILEKILE Sikelela

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FODO Nobahle

NQABENI Fikasande

NZUKUMA Rosebury Bonginkosi

PILISO Siviwe Siphokazi

XOLO Zandiswa

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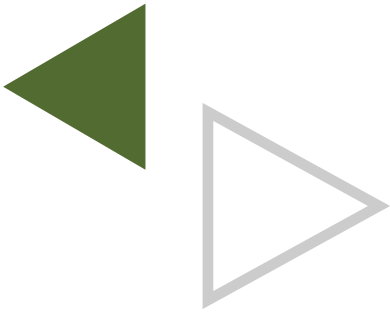
BHOVUNGANA Qhama

QUMZA Masosoti

ZITUMANE Samkelisiwe



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MAGAGULA Sebenzile Pretty Engelinah

MKHABELA Nothando Kate

MTSI SIVE Zizo

MZAMO Sibusisiwe Phindile

NTSHOBENI Gcobani

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SPEELMAN Gift

BACHELOR OF SCIENCE HONOURS IN ZOOLOGY

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FEJU Philasande

KANANA Mfundo MAKWATI Nolutho

MANJINGOLO Aphelele

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BHONGA Alungile

CAKATISO Neziswa

CHITELO Lwandile

DUBA Luntu

DUDA Mihle

GQIRANA Ndyebo

GUSHU Somila

MACEBO Lwandisile

MAFANYA Qaphela Prescious

MAKELENI Msindisi

MANGALISO Zesipho

MANTSHONTSHO Azile

MANYAKANYAKA Maliviwe Zizipho Blessing

MAQEBULA Anelisa

MATOLE Zuko

MBARU Inathi Siyamvuyela

MBOVU Bavuyise

MCOPELE Malizole

MEHLOMANE Mihle

MENZE Kamvalethu

MHLEKUDE Aphelele

MHLOBO Alungile

MKHWENYANA Zizipho

MKOSANA Mkhuseli

MKUSANE Zandiswa

MNQUMEVU Nomgcobo

MOPI Dewann

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NGALIKA Athembele

NGONGO Cinga Banoyolo

NGXABAZI Mihlali

NOAH Nceba Kodwa

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NTUSI Ayabonga

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POSWAYO Singathamaxaba

RAMOSOEU Mmiki Eunice

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SOJI Lindokuhle

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TOMASE Siphuxolo

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WONCI Buntu

ZIBI Iyanda

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CWAYI Siphamandla

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FITOLI Sinazo

GODLOZA Liyanda

GQADU Siyavuya

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KOTI Unathi

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LIBAZA Qaqamba

LUCANDO Ntsika

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MAGANDANA Aphelele

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MAKAPELA Lukhanyo

MANGAKEVA Asavela

MBOBO Zetu

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MNCANYWA Ntlahla

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MPANGEVA Ayanda

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NDWALAZA Unathi

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NJANYA Amanda

NKATSU Sesonasipho

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NTLANGA Sihle

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TOM Olwethu

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ZATU Nomlindiso

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BENI Zimbini

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LEVE Sifiso Hosiah

MAJOVA Mhlali

MAKANA Ayathandwa

MAKUBALO Zukhanye Makaziwe Zingisa

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MALIWA Noluvuyo

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MASIZA Zukhanye

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MZOZOYANA Yamkela

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NJOLI Ziyanda

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NTLAHLA Nosabo

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NGEBEZA Mncedi

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YIGWANA Thembile

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ZWELAKHE Nomfanelo

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JALI Sinawo

MANTAMBO Awongawe

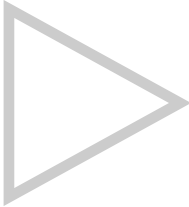
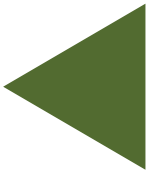
MBEKI Makhonza

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MSHWESHWE Asemahle

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MBUZANI Sinalo

NKOMO Mduduzi Vincent

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NONGCEKULANA Sibulele

NTOYI Phila-Sande Prudent

RAMNCWANA Hlumisa

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APRIL Samkelo Onwabo Lubabalo

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BODLANI Mtunzi

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DUBE Phelokazi

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DYANI Anathi

FOSE Sinesipho Sylvia

GENUKILE Sinalo

GINGQI Abongile

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GOSO Lukho

GQETYWA Gloria Ayandiswa

GUDUVANE Nelisa

GUGWINI Siphosihle

GUMEDE Ntombizonke

HLALUKANA Sabelo

HLOBO Lusindiso

JACK Lwazi

KHETHULA Nwabisa

KHUMALO Fundisiwe

KOKWE Nwabisa Happiness

KOLISI Sive

KOLOSA Nasiphi

KULA Hlalisa

KUTYA Tendai Washington

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LUNGU Mgcini Spenser

MABANDLA Lukhanyo

MACANDA Sesona

MACHASA Xolisile Nicolas

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MAGOXO Anam

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MDEDELWA Noxolo Bernice

MDLUDLU Zokulunga

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MEMANI Sanki

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MFEBE Sikhanyiso

MFINWANA Amahle

MFUDUKU Vusumzi

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MGQALA Sibulele

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MKHONA Xolisile

MLAMBI Yanga

MLANGENI Sikelela Gopolang

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MNGCUTSHA Noluvuyo

MNGQUSHU Bongji Langa

MNOTHOZA Yonela

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MPAMBANI Miranda

MPAZI Nothukela

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MPUMELA Sinazo

MQABA Luzuko Smuts

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MSIZI Anelisa Faith

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MTIMDE Sesethu

MTSHIXA Simnikiwe

MUDAU Ndamulelo

MULA Liyabona

MYOLWA Sive

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NKALANE Ongezile

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NOHASHE Kamvelihle

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NOMANA Vincent Lungile

NOMPETSHENI Nobuhle

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NOVOYI Sizwe

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NQAPELA Tshepo Happiness

NQOTSHANA Nandipha

NTETA Aphiwe

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PAHLANA Ziyanda

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PEPU Lunga Ivakele

PETENI Lundi

POSWA Indipile

PUPANE Aviwe

QANGULE Lolita

QHOBOSHIYANE Isibabale

QWESHA Yolokazi Innocentia

RALI Yonwaba

RENENE Zininzi

SIDAZA Onke

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SKOLPAD Thina

SMITH Sisipho

SOMTSORA Siphamandla

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TSHUTSA Avuyile

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TUTI Ludumo

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