UNIVERSITY OF LIMPOPO

ANNUAL RESEARCH REPORT

(2018)
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### ACRONYMS

In this report, unless stated otherwise, the following acronyms apply:

<table>
<thead>
<tr>
<th>Acronym</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>SAES</td>
<td>School of Agricultural and Environmental Sciences</td>
</tr>
<tr>
<td>SMCS</td>
<td>School of Mathematical and Computer Sciences</td>
</tr>
<tr>
<td>SMLS</td>
<td>School of Molecular and Life Sciences</td>
</tr>
<tr>
<td>SPMS</td>
<td>School of Physical and Mineral Sciences</td>
</tr>
<tr>
<td>AEAP</td>
<td>Department of Agricultural Economics and Animal Production</td>
</tr>
<tr>
<td>BMBT</td>
<td>Department of Biochemistry, Microbiology and Biotechnology</td>
</tr>
<tr>
<td>BIOD</td>
<td>Department of Biodiversity</td>
</tr>
<tr>
<td>CHEM</td>
<td>Department of Chemistry</td>
</tr>
<tr>
<td>COSC</td>
<td>Department of Computer Science</td>
</tr>
<tr>
<td>GAES</td>
<td>Department of Geography and Environmental Studies</td>
</tr>
<tr>
<td>MAAM</td>
<td>Department of Mathematics and Applied Mathematics</td>
</tr>
<tr>
<td>PEH</td>
<td>Department of Physiology and Environmental Health</td>
</tr>
<tr>
<td>PHYS</td>
<td>Department of Physics</td>
</tr>
<tr>
<td>PSAE</td>
<td>Department of Plant Production, Soil Science and Agricultural Engineering</td>
</tr>
<tr>
<td>RNA</td>
<td>Research Niche Area</td>
</tr>
<tr>
<td>SARChI</td>
<td>South African Research Chairs Initiative</td>
</tr>
<tr>
<td>SAOR</td>
<td>Department of Statistics and Operations Research</td>
</tr>
<tr>
<td>WAAS</td>
<td>Department of Water and Sanitation</td>
</tr>
<tr>
<td>NRF</td>
<td>National Research Foundation</td>
</tr>
<tr>
<td>CHPC</td>
<td>Centre for High Performance Computing</td>
</tr>
<tr>
<td>IPUF</td>
<td>Indigenous Plant Use Forum conference</td>
</tr>
<tr>
<td>CRCE</td>
<td>Centre for Rural Community Empowerment</td>
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</table>
1. INTRODUCTION

This report highlights the research activities of the University of Limpopo (UL) during the period 01 January 2018 to 31 December 2018. It is based on Strategic Goal 5 of the University of Limpopo (UL) Strategic Plan 2018 - 2022 which is to improve the University’s research standing and status. The UL Annual Research Report involves information about academic staff and postgraduate students in different research activities which are geared towards achieving the targets set through strategic goal number 5. The research activities that were carried out in the University during the period in review sought to achieve a number of objectives as set out by each of our Four faculties: The Faculty of Humanities is still at the novel level of developing researchers and plans are afoot to address critical categories of Women in Research, Emerging and novel researchers as well as deal with Mentorship within the Faculty. While the Faculty of Management and Law deals with research mainly on business orientated disciplines, including business management, human resource management, economics and accountancy; development studies; public administration and law.

The Faculty of Health Sciences is also concerned with developing research capacity and competencies, increasing research publications, enhancing research collaborations (interdepartmental, interschool, interfaculty and institutional collaborations) and increasing support for postgraduate students. Meanwhile, some of the focus areas for the Faculty of Science and Agriculture are in indigenous poultry breeding; risk and vulnerability analysis; vegetable crops production, cropping systems, African indigenous crops production, ecological fertiliser application for vegetable crops production, rainwater harvesting and sustainable vegetable crops production; cancer, obesity and diabetes research; synthesis and nuclear magnetic resonance (NMR) spectroscopic characterisation of bridged organometallic complexes; Ellisras longitudinal studies; minerals & beneficiation; alloy development; energy storage & battery materials; computer networks; joint modelling of longitudinal and survival outcomes, and speech technology.

One measure of improved productivity in the University the growing number of national and international collaborations that staff across all Faculties are engaged in. It is
through these collaborations that we have observed a growing number of early career researchers benefiting with improvement of their qualifications as well as publications. Therefore, the report presents the University’s achievements and challenges experienced during the execution of research activities in the year 2018.

2. RESEARCH STAFF DEMOGRAPHICS

In 2018, the total number of university researchers was 714 (661 university staff members and 53 includes students and independent researchers).

![Bar Chart]

Of the 714, the total number of University staff involved in research was 661. 62% this total were males whilst 38% were females.

![Pie Chart]
The majority (39%) of staff members involved in research were from the Faculty of Humanities.

3. RESEARCH FOCUS

In 2018 the focus of research activities at UL was re-sharpened through the development and approval of the following FIVE niche areas:

I. Indigenous Knowledge Systems

This Research Niche Area (RNA) composes three thematic research areas, namely, Indigenous epistemologies, language and paradigms; indigenous medicine and indigenous foods and food security. The researchers span the three faculties in the university, i.e. Faculties of Humanities, Science and Agriculture and Health Sciences. The team possess various research skills and competencies that complement each other, and this allows involvement in more than one research theme. During the development of the RNA, the IKS team consulted with colleagues from DST who are conversant with IKS policies, innovation and product development strategies and helped in shaping up the RNA and projects. A total of 8 projects within the three theme areas have been developed already.
II. Climate Change and Sustainability

The challenges of climate change and sustainable development has come to the fore in the last decade. The effect of climate change can be seen visibly around our communities especially in developing countries. These consequences require concerted efforts on the part of humanity to reverse and redress some of these critical effects which include environmental, social, economic and governance. The evidence of climate change can be seen in the rising level of atmospheric carbon dioxide (CO₂) (about 400 million cubic), average global surface temperature has risen about 2.0 Fahrenheit (1.1 degrees Celsius) since the late 19th century, a change driven largely by increased carbon dioxide and other human-made emissions into the atmosphere. Other signs of climate change effect is the of ocean showing warming of 0.302 degrees Fahrenheit since 1969, decrease in snow cover, rising sea level, extreme weather event causing flooding and other natural disasters such as current drought in Cape Town, South Africa. There is consensus that the cause of climate change effect is as a result of human expansion leading to greenhouse effect (human related greenhouse). Hence, it is essential that academics focus on addressing these challenges through customised research activities.

III. Women’s Health

This RNA is aligned with the university’s triple core functions. It is envisaged that the RNA will be used as a platform to train postgraduate students in the field of women’s health”. This will also expand to training health professionals on various aspects of health of Women, starting from adolescents in order to achieve good maternal outcomes. Communities will be empowered in a way because this is a platform that will create correct messages and educational materials which can be used to empower young women on contraception in order to minimise the scourge of teenage pregnancy and HIV infection.

In this Research Niche Area, the plan is to create a platform for:

- Postgraduate academic and research related programmes aimed at providing professionals trained at advanced levels of health services provision; and,
- Designing initiatives required for the successful implementation of the country’s proposed National Health Insurance System.
The RNA talks directly to the United Nations Sustainable Development Goals (SDGs 2016), both goal 3 and 5, which address: SDG 3: Good Health and Wellbeing; which, in our case is empowerment of women to improve their wellbeing and adopting healthy choices to eradicate women – related diseases and healthy maternal outcomes; and SDG 5: Gender Equality: empowerment of women is mainly targeting them to enjoy their lives the same way men do; and make informed life choices which include access to contraception; choice to terminate pregnancy or choice on when to start a family. These choices always impact on delaying women in their education endeavours, compared to men.

IV. Mental Health

Mental illness accounts for about one-third of the world's disability compared to all health problems. It reflects marked societal and personal suffering and enormous socioeconomic costs (Anderson, Llopis & Hosman, 2011). High prevalence rates and unmet treatment needs of serious mental illness in both developed and less developed countries illustrate the enormous global public health challenges associated with this morbid condition (Ngui, Khasakhala, Ndetei & Roberts, 2010). In South Africa, approximately 1 in 6 inhabitants are likely to experience a common mental disorder like depression, anxiety or substance use disorder (Lund, Petersen, Kleintjes & Bhana, 2012). A considerable mental health treatment gap exists, with significant care shortages in rural areas (Jack et al., 2014). Recently, the South African National Mental Health Policy Framework and Strategic Plan 2013–2020 was approved (Department of Health, 2014). This Policy Framework and Strategic Plan marks an important milestone in the South African government's ongoing efforts to transform health in the country.

Whilst reports show that there has been good progress made in enacting and implementing mental health legislation and policy since 1994, many challenges that require intervention still remain. One of these challenges is the lack of concerted and sustained research on mental health so as to inform policy and intervention programmes. Local research that is occasionally carried out on mental health is often done by universities that are located in the metropolitan centres of South Africa. The
RNA seeks to contribute scientific evidence by conducting research on mental health in South African, with particular focus on rural communities.

With the aim of building a formidable community of scholars from a wide range of fields (that is, humanities and social sciences, health and other applied sciences), the RNA perfectly fits in with the university’s vision of being “a leading African University focused on the developmental needs of its communities and epitomising academic excellence and innovativeness”. This, in turn, will be in line with the university’s community engagement initiatives that are aimed at promoting partnership with local communities that the university serves.

The RNA is strategically aligned to existing projects that extend to collaborations both locally and internationally.

V. Complementary and alternative medicine

People all over the world have been using medicinal plants for centuries as a form of treatment for human diseases and wounds. Some medicinal plants have been implicated as sources of antimicrobial agents. These are preferred over synthetic drugs because they have fewer side effects. The plant parts mostly used are flowers, roots, bulbs, twigs, leaves and stems (Mahesh and Shatish, 2008). Furthermore, herbal medicines may be in the form of powders, liquids, or mixtures which may be raw, boiled, ointments, liniments and incisions (Bakht et al., 2011).

Estimations have been made, that of the 14 to 28% of the higher plants that are used for medicinal purposes, about 74% of the pharmacologically active compounds derived from plants were discovered by following up on their use (Ncube et al., 2008; Das et al., 2010). South Africa has significant diversity of plants and over 3000 of these are used as traditional medicine, with 350 making the most commonly used and traded medicinal plants (van Wyk et al., 1997). WHO (2002), reported that up to 80% of the population in Africa use traditional medicine to serve their health needs. Over 60% of the South African population, especially those in rural areas consult traditional healers since they are numerous and easily accessible than western doctors. This was seen in Kwa-Zulu Natal Province where a large number of people seem to seek medical advice from traditional healers in addition to Western medicine. This is either as a result of easy access, low costs or cultural and spiritual beliefs (Taylor et al., 2001).
Medicinal plants as a source of new drugs

Medicinal plants are now considered vital sources of new compounds with potential therapeutic effects because they contain a wide range of compounds that can be used for treatment of chronic and infectious diseases (Moussaoui and Alaoui, 2016). The components from medicinal plants play an important role in conventional Western medicine. Although a lot of species have been examined for antimicrobial and antioxidant properties, the vast majority of them have not yet been analysed (Viji and Murugesan, 2010). Thus, potent drugs may be discovered from plants which are recommended regularly and are observed to be effective (Borokini and Omotayo, 2012).

Farnsworth (1984) reported that at least 25% of the prescribed drugs that were issued in the United States and Canada were derived from natural plant products. Furthermore, Harvey (2001) reported that in the year 1993, in the USA only, 57% of all prescribed medicines comprised of at least one major active compound currently or once derived from plant sources. Many drugs sold world-wide are of plant origin, these include; Asatrophine, Ephedrine, Digoxin, Morphine, Quinine, Reserpine and Tubocurine (Gilani, 2005). About 119 secondary metabolites from plants were identified and are used globally as drugs. This is why medicinal plants used in traditional medicine should be studied for safety and efficiency (Eloff, 1998a).

Biological activities of medicinal plants

Medicinal plants used for treatment of illness by people are now receiving more attention in research because of their potential to yield beneficial health effects and to provide valuable therapeutic agents (Krishnaiah et al., 2009). This is due to the presence of bioactive compounds that produce definite physiological actions on the human body. Phytochemicals may possess one or more biological activities, with some acting in synergistic relationships to exhibit one biological activity, while others act antagonistically. These bioactive compounds have therapeutic potential and various biological activities; this is why most are characterised and separated so that each one can exhibit its own activity (Molan et al., 2012).
For this regard, UL’s research activities in the Four Faculties were strategically aligned to the newly approved as well as to existing RNA’s. Hence, in the Faculty of Humanities, research was focused on:

- Information needs and information seeking behaviour
- Records management
- Information management
- User studies
- Open access scholarship
- Health Communication
- Media and Society
- New Media and Development
- Print Journalism
- Communication for Development

Meanwhile in the Faculty of Management and Law, the focus was mainly focused on four sub-themes:

- Sustainability,
- Entrepreneurship,
- Development Policy,
- Public Affairs and Government.

The Faculty of Health Sciences had focused its research activities on the following issues:

Reproductive Health

In this focus, the Faculty highlighted a project titled: *Strengthening Health Systems for Maternal Care in Limpopo Province*, an existing collaborative research programme between the University of Limpopo, Limpopo Provincial Department of Health and Lund University in Sweden. During the year under review, the research focus had the following achievements:

- A total of 145 Midwives in all five districts of Limpopo Province were trained in March 2018
• A total 150 Midwives were trained and debriefing sessions were conducted in five different sessions with psychologists.
• A total number of four students are registered under this project and are progressing well.
• NICHE related to Women’s Health was approved by university structure and five Seed funding from UL Research Administration and Development Office was received by academics in the faculty.
• A total of three Master’s students are currently investigating the effects of three medicinal plants on the male sperm functions. Two of them are in their second year of study and awaiting approval from TREC, while the other is a first year student and is writing her proposal for the relevant institutional approval.
• Anti-retroviral and cancer, epigenetics of obesity and congenital disorders in the province.

Another project through which extensive research was focused in this Faculty was the **Biochemical and pharmacological pathways.** In addition, there was also some concentrated research in the area of **Communicable and Non-communicable diseases.** This was mainly driven through VLIR Project 2 in collaboration with the University of Antwerp. The project title: Prevention, control and integrated management of chronic diseases in a rural community in South Africa. The project was aimed at:

• Maintain and incrementally expand the Dikgale Health and Demographic Surveillance System (HDSS) site.
• Increasing knowledge and skills of nurses about prevention, diagnosis and treatment of hypertension and type 2 diabetes.
• Upskilling knowledge/skills of Home-Based Carers about prevention and follow-up of HT and diabetes to support community management of chronic conditions and associated risk factors.
• Contribute to improving the supply systems for medication and proper equipment for the prevention, diagnosis and treatment of HT and T2D.
• Community mobilization to contribute to the amelioration of the emerging impact of chronic conditions - focusing on hypertension and diabetes type 2 and their risk factors.

A total of 3 PhD students and 9 masters students are involved in Project 2.
Another focus in the Faculty of Health Sciences was in **Food security and nutrition**.

The focus in the **Faculty of Science and Agriculture** was in a diversity of research areas that are also aligned to the UL’s RNA’s and cut across its four Schools in the areas of:

- Indigenous poultry breeding development
- Risk and Vulnerability Analysis
- Vegetable crops production, cropping systems, African indigenous crops production, ecological fertiliser application for vegetable crops production, rainwater harvesting and sustainable vegetable crops production
- The Cancer, Obesity, and Diabetes Group – Headed by Prof LJ Mampuru, with substantial funding from the South African Medical Research Council since 2015, has made some notable strides in terms of postgraduate student training and research publication output
- The screening, isolation and characterization of antimicrobial compounds from selected plants
- Diseases affecting South Africans, including cancer, bacterial infections, HIV and malaria
- Synthesis and Nuclear Magnetic Resonance (NMR) spectroscopic characterization of bridged organometallic complexes
- Minerals & beneficiation; alloy development; energy storage & battery materials; and metal and metal alloys development
- Speech Technology
- Joint Modelling of Longitudinal and Survival Outcomes
- Linear and Dynamic Programming
- Computer Networks
- Mathematical Modelling

Through this plethora of research focus areas, the University managed in 2018 to ensure intra, inter and cross disciplinary research activities both a well guided spectrum of research niche areas.
4. CENTRES OF EXCELLENCE

In 2018, seven Centres of Excellence (CoE’s) existed in the UL. These are the African Centre for Sustainability Accounting and Management (ACSAM), which is located in the Faculty of Management and Law, and from the Faculty of Science and Agriculture, the Green Technologies Research Centre of Excellence, Larry Leach Herbarium, Centre for Rural Community Empowerment, Materials Modelling Centre, Centre of Excellence in Mathematical and Statistical Sciences (which we host with Wits University), and Aquaculture Research Unit. These centres are complemented by Land Bank Research Chair, UNESCO Research Chair in Biotechnology, SARCHi Research Chair in Computational Modelling of Materials, and SARCHi Research Chair in Ecosystem Health.

The Materials Modelling Centre had four Postdoctoral Fellows followed by Biochemistry, Microbiology and Biotechnology with two whilst there was one in each of Animal Production, Green Technology Research Centre, Mathematics and Applied Mathematics, Physiology and Environmental Health, and Statistics and Operations Research. These have complemented our senior research staff in research and postgraduate training.

The CoE’s and their various leaders as well as research focus are listed in the table that follows here below:

<table>
<thead>
<tr>
<th>Centre</th>
<th>Leader</th>
<th>Focus</th>
</tr>
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<tbody>
<tr>
<td>African Centre for Sustainability Accounting and Management (ACSAM)</td>
<td>Prof M Fakoya</td>
<td>The research focus in this CoE is on Practical and policy solutions to improve the social and environmental sustainability performance of (private, public sector and non-governmental) organisations and societies. Enhancing the knowledge of: Carbon footprinting, Accounting for biodiversity, Health care sustainability, Integrated reporting (King III), Sustainability reporting, Verifiable continuing</td>
</tr>
<tr>
<td>Centre</td>
<td>Leader</td>
<td>Focus</td>
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</tr>
<tr>
<td>Green Technologies Research Centre</td>
<td>Prof PW Mashela</td>
<td>professional development (CPD)</td>
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<tr>
<td>Aquaculture Research Unit</td>
<td>Prof NAG Moyo</td>
<td>Refer to section on Rated Researchers</td>
</tr>
<tr>
<td>The research focus is on Aquaculture, fish nutrition, water quality, fish pond dynamics, aquatic biological diversity, breeding of mopane worm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Centre for Rural Community Empowerment</td>
<td>Prof E Zwane</td>
<td>Community youth development in selected villages Small scale farmer development</td>
</tr>
<tr>
<td>Larry Leach Herbarium</td>
<td>Dr B Egan</td>
<td>Maintenance of the existing specimens and of the herbarium itself. Accessioning the backlog of valuable specimens collected during collaborative research</td>
</tr>
<tr>
<td>Materials Modelling Centre</td>
<td>Prof PE Ngoepe</td>
<td>Refer to sections on Research Chairs and Rated Researchers</td>
</tr>
<tr>
<td>Centre of Excellence in Mathematical and Statistical Sciences (co-hosted with Wits University)</td>
<td>Prof M Lesaoana</td>
<td>Its main focus is of academic staff development, especially in acquiring Masters and Doctoral qualifications in Mathematical and Statistical Sciences</td>
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</tbody>
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5. RESEARCH CHAIRS

The following research chairs existed in the University during the 2018 academic year:

<table>
<thead>
<tr>
<th>Chair</th>
<th>Holder</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Land Bank Chair</td>
<td>Prof PW Mashela</td>
<td>Please refer to NRF-rated researchers below</td>
</tr>
<tr>
<td>UNESCO Biotechnology Research Chair</td>
<td>Prof I Ncube</td>
<td>The chair deals with biotechnologies of significance in agricultural, health,</td>
</tr>
</tbody>
</table>


<table>
<thead>
<tr>
<th>Chair</th>
<th>Holder</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>The SARCHI Research Chair in Ecosystem Health</td>
<td>Prof WJ Luus-Powell</td>
<td>The NRF SARCHI Chair in Ecosystem Health commenced in 2016 with Prof WJ Luus-Powell (a C3 NRF-rated researcher) as the Research Chair holder. Its main research focus is on the aquatic ecosystem health, concentrating on fish health and diseases associated with different kinds of pollution, with emphasis on parasite diversity.</td>
</tr>
<tr>
<td>The SARCHI in Computational Modelling of Materials</td>
<td>Prof PE Ngoepe</td>
<td>The SARCHI in Computational Modelling of Materials is held by Prof PE Ngoepe. The main projects at the Centre were: Computational modelling of energy storage materials; Tertiary Education Support Programme Project; the Royal Society Newton Fellowship; Titanium Competency Centre Grant; phase stability of shape memory PtTi alloys and Titanium Metal Clusters; South African Minerals to Metals Research Initiative; BGRIMM, University of Cape Town, University of Limpopo, Mineral Processing Collaboration and Global Challenge Research Forum; Synchroton Techniques for African Research and Technology.</td>
</tr>
</tbody>
</table>

6. RATED RESEARCHERS

In 2018, the University was home to 14 rated researchers whose details are provided below as follows:
Prof KA Nel_NRF C3.

As a Professor of Psychology and psychologist Prof Nel has interests in sport, social and women/gender psychology. At present she is a research associate of the Research Department at the University of Limpopo.

Prof Nel has published 28 Journal articles in DHET accredited Journals, 10 of these were in Open access journals, 1 book chapter (published by Wits Press), and another just published by Springer. Three more book chapters are awaiting publication. She has just become involved with a South African/Israel/German/Japan collaboration working on different aspects of shame. Prof Nel evaluates PhDs and Masters for different disciplines and many institutions. For instance; UP, Rhodes, NWU, SMU, DUT, UFS and TUT. She is a consultant editor for the Journal of Psychology in Africa and reviews articles for many accredited Journals. In 2014, she received the Best Researcher award at the School level. Prof Nel is also involved in ongoing collaborative research with colleagues in the University and Nationally. She received her NRF rating in 2017.

Prof MA Masoga _NRF C2.

Prof Mogomme Alpheus Masoga is an alumnus of the University of the Free State (UFS, South Africa). His doctoral research was entitled: Dimensions of Oracle-Speech in the Near Eastern, Mediterranean and African Contexts: A Contribution towards African Orality. His knowledge research and in particular the indigenous knowledge systems were sharpened by a number of work experiences at senior management level. The latter ranged from managing the South Africa’s National Research Foundation’s Indigenous Knowledge Systems and Education Research Portfolios and the Research Manager at the Indigenous Knowledge Systems, having headed the Historical Sciences School at the University of the North, founded the African
Renaissance Centre at the then University of the North, directed the Research Department of the Commission for the Promotion and Protection of Religious, Linguistic, Cultural Rights of Communities (CRL Rights Commission), once acted as the Academic Journal Editor at the Development Bank of Southern Africa (DBSA), supervisor of postgraduate students and external examiner of postgraduate studies. Professor Masoga is widely published in peer reviewed journals and book chapters. Professor Masoga has been the Research Professor in the School of Human and Social Sciences at the University of Venda and now appointed the Research Professor at the University of Limpopo. He currently is a C2 NRF-rated researcher.

**Prof T Sodi NRF C2.**

Prof Sodi obtained both his BA and BA Honours degrees from the University of the North (now University of Limpopo). He proceeded to the University of the Witwatersrand where he completed his Master’s degree in Clinical Psychology.

The University of Cape Town awarded him a PhD in Psychology. In addition to his degree qualifications, he has received a number of certificates from universities in South Africa and abroad. Prof Sodi is registered with the Health Professions Council of South Africa (HPCSA) as a clinical psychologist. He has served as President of the Psychological Society of South Africa 2017 to 2018). Some of his current and past professional engagements include the following:

- Board member: South African Medical Research Council (2016-present);
- Member and vice chairperson of the Ministerial Advisory Committee on Mental Health (2015 - present);
- Member of the Board of Directors of the International Association of Applied Psychology (2014 – 2022);
- Vice President of the HPCSA and chairperson of the HPCSA’s Professional Board for Psychology (2010 – 2015);

Prof Sodi currently leads a number of research projects that, among others, include the following:
• A five-year (2017 to 2021) multinational project entitled **Scaling-up Packages of Interventions for Cardiovascular Disease Prevention in Selected Sites in Europe and Sub-Saharan Africa: An Implementation Research (SPICES Project).** Under the auspices of Horizon 2020, this is multi-national partnership project made up of the following institutions: University of Antwerp (Belgium); University of Limpopo (South Africa); Makerere University (Uganda); Brest University (France); Nottingham Trent University (United Kingdom); and Manchester University (United Kingdom).

• A three-year (2019 to 2021) UK-SA MRC funded multi-national partnership project entitled **Digital delivery of Behavioural Activation to Overcome Depression and Facilitate Social and Economic Transitions of Adolescents in South Africa (DoBAt).** The project is a partnership between MRC/Wits Rural Public Health and Health Transitions Research Unit (Agincourt) and the Universities of Limpopo and Cape Town (in South Africa), Universities of Oxford, Exeter and University College London (in the United Kingdom), and the University of California Los Angeles (United States of America).

• A five-year (2015 to 2020) partnership project entitled **Prevention, Control and Integrated Management of Chronic Diseases in a Rural Community in South Africa.** This is one of the six projects at the University of Limpopo funded by the Flemish Interuniversity Council (VLIR).

• A three year (2018 to 2020) National Research Foundation funded project entitled **Towards a Collaborative Model for Mental Health Promotion in Limpopo Province, South Africa.** Funded under the NRF’s Competitive Programme for Rated Researchers, the project team members are drawn from the Universities of Limpopo and Venda.

Prof Sodi has presented more than 60 research papers at both national and international conferences and has produced more than 50 publications in the form of journal articles and book chapters. Prof Sodi has successfully supervised nine PhD theses and more than 40 Masters dissertations. He received NRF rating (C3) for the first time in 2012. He is currently a C2 NRF rated researcher (from 2018 to 2023).
Prof JP Tsheola

Prof Tsheola's holds a Bachelor of Arts in Pedagogics [B.A.(Paed)] and B.A Honours in Geography. He also holds Masters of Arts Qualification from the Western Illinois University in the United States of America. (awarded in 1993). His doctoral qualification was awarded by the University of Limpopo in 1993.

Professor Tsheola's research focus is on Development geography, Development management, Development planning - Policy analysis, Developmental local government, Gender and rural development, Food security - Developing countries, Regionalism, Globalisation, State-owned enterprises.

Prof JW Ng’ambi

Prof J W Ng’ambi’s specialisation is in animal nutrition. In 2018 his research work involved determination of dietary nutrient levels for optimal productivity of improved indigenous and broiler chickens.

He, also, did research related to the utilization of tanniniferous browse for reducing production and emission of methane in ruminant animals. His research was supported by funds from NRF and VLIR-IUC Project in which he is a leader of a sub-project on Food Security. Six papers were published from these studies in 2018. Prof Ng’ambi was also involved in supervising a number of PhD and MSc students.
Prof PW Mashela  

Prof Mashela’s research focus is on Green technologies, with emphasis on plant protection. The GBRCE researched and developed quantitative relations of phytonematicides for the Department of Agriculture, Forestry and Fisheries (DAFF) as the registration authority of phytonematicides.

The equations included (1) Mean concentration stimulation point (MCSP = $D_m + (R_h/2)$), (2) application interval of phytonematicides (AIP): $AIP = (\text{weeks/month}) \times \text{nematode life cycle in days}$, (3) application frequency of phytonematicides (AFP): $AFP = \frac{\text{crop life cycle (days)}}{AIP \text{ (days)}}$, (4) dosage model (D): $D = MCSP \times AFP$ and (5) the shelf-life of phytonematicides (SLP): $SLP = -\frac{b}{a} \text{ days}$, where b and a are constants from the quadratic equation $-bx^2 \pm ax \pm c$. The empirically-derived equations contribute to business- and policy-making decisions on uses of cucurbitacin-containing phytonematicides, especially during the certification process, where standardisation procedures with “scientific merit” had been lacking. During the reporting period, staff members from the Centre received research awards during the Faculty Research Day and the Vice Chancellor’s Research Awards. The Research was funded by Agricultural Research Council, Potato South Africa, DAFF, VLIR-IUC, NRF, Department of Plant Production, Soil Science and Agricultural Engineering and the Faculty of Science and Agriculture. Also, the Faculty provided human capital, which included a research assistant and a postdoctoral fellow, with the University Management approving seven research positions for the Centre.

In 2018 Prof Moyo focussed on ways of boosting fish immunity using locally available ingredients. A preliminary investigation into the potential of Artemisia afra on growth and disease in tilapia was undertaken.
It was discovered that *A. afra* has a number of biologically compounds that act as immunostimulants. This work is published in a top Aquaculture journal. A locally available and now popular plant, *Moringa oleifera* was also tested. This study investigated blood and immunological parameters in tilapia fed on diets supplemented with *M. oleifera*. It was shown that also *M. oleifera* enhances fish immunity. A paper was also published in a top international journal. Challenge trials using *Aeromonas hydrophila* confirmed the findings. It has thus been suggested that *A. afra* and *M. oleifera* be used as dietary additives in order to boost tilapia resistance to diseases in intensive aquaculture systems. Tilapia fish farmers experience high fish mortalities particularly during winter and inclusion of ground leaf powder from these two plants will reduce fish mortalities.

Prof KD Monyeki

Prof Monyeki is an associate professor of Physiology in the Department of Physiology and Environmental Health. He is a C3 NRF-rated researcher and World Heart Federation emerging leader (since 2015).

Prof Kotsedi Monyeki

Prof Monyeki completed his undergraduate and Honours degrees at the then University of the North, where he later became a lecturer of Kinesiology and Physical Education from 1990 to 2002. He later completed his Masters and PhD at Potchefstroom University of CHE. He has been the principal investigator of the Ellisras Longitudinal Study (ELS) since 1996 to date. The ELS is based on the ideas of Amsterdam Growth and Health Longitudinal Study and hosted its first biannual international conference in 2017. He changed his career from lecturer to a specialist scientist in the Chronic Diseases of Lifestyle Unit, Medical Research Council (MRC), Cape Town and additionally studied for Masters of Public Health at the University of Cape Town (2003 to 2007). He completed Level 3 Anthropometrist at Adelaide University, Australia (1998) and Summer Graduation Course in Epidemiology, Michigan University, USA (2001) funded by NRF and MRC. He taught physiology to both undergraduate and post graduate students in the Department of Physiology at the then Medunsa. Prof Monyeki has published five book chapters, three technical reports and 96 peer-reviewed Journal articles. He presented 121 research
papers to national and International conferences. The Research Gate reported 3288 readings of his work and 438 citations by April 2017 while Google scholar reported citation index of 1695 by March 2018. His research interest include chronic non-communicable diseases, anthropometry and epidemiology.

Prof TT Seretlo_ NRF C3.

Prof Seretlo specialises in finite groups, Clifford-Fischer Theory, (p,q,r) generations of groups and ranks of conjugacy classes of groups. His research interests stems from the Classification of Finite Groups Theorem that states that finite groups can be classified into four classes. All the groups I dealt with were of the form $G = p^n . G$ where $p^n$ is an elementary abelian group and G a finite simple group.

Together with a colleague who also became his Postdoctoral Fellow Dr Basheer, whom he has a publication with in this theory, they extended their study to the (p,q,r) generations and conjugacy class ranks of finite simple groups: one paper has been published while two others have Been accepted. Prof Seretlo is an active Mathematician: being a member of the South African Mathematical Society (SAMS), a member of the American Mathematical Society (AMS), the Iranian Mathematical Society (IMS) and a member of the GAP forum; he has reviewed three articles for the AMS journal and one for the Thai Journal of Mathematics.

Prof PE Ngoepe_ NRF C1:

Prof Ngoepe is a member of the Advisory Committee of an International Conference on Defects in Insulating Materials and European Conference on Defects in Insulating Materials, the International Programmes Advisory Committee of the Royal Society (London), board of the South African Minerals to Metals Research Institute and of the Senate Research and Ethics Committee.

Prof Ngoepe is a C1 rated researcher. He is supported by Prof H Chauke, four (4) Senior Researchers (Dr RS Ledwaba, Dr KP Maenetja, Dr PP Mkhonto and Dr MA Mehlape),
four (4) postdoctoral fellows (Dr MC Masedi, Dr TE Letsoalo) and two Technicians (Mr KS Kgatwane and Mr KW Phoshoko). His collaborators are the Centre for High Performance Computing (CHPC), University of Cape Town, CSIR and international institutions such as University College London (UCL), Cardiff University, University of Bath, University of Kent, Argonne National Laboratory, Beijing General Research Institute for Mining and Minerals and University of Southampton.

In 2018, the main projects at the Centre were: Computational modelling of energy storage materials; Tertiary Education Support Programme Project; the Royal Society Newton Fellowship; Titanium Competency Centre Grant; phase stability of shape memory PtTi alloys and Titanium Metal Clusters; South African Minerals to Metals Research Initiative; BGRIMM, University of Cape Town, University of Limpopo, Mineral Processing Collaboration and Global Challenge Research Forum; Synchroton Techniques for African Research and Technology.

Altogether 15 (fifteen) DHET accredited articles were published by members of the Centre with several presentations at national and international conferences (75).

**Prof Peter Masoko, NRF C3.**
Professor of Microbiology and a C3 NRF-rated researcher in the Department of Biochemistry, Microbiology and Biotechnology. He is currently appointed as Research Professor in the Faculty of Science and Agriculture. He holds a BSc (Medical Sciences) (Honours equivalent) and MSc in Microbiology from the then University of the North (now University Limpopo). His PhD was awarded from University of Pretoria in the Department of Paraclinical Sciences. Current research interests include evaluation of the antibacterial, antifungal, antimycobacterial, anti-inflammatory and cytotoxic effects of extracts and purified compounds derived from medicinal plants.
The DST/NRF SARChI Chair in Ecosystem Health commenced in 2016 with Prof WJ Luus-Powell (a C3 NRF-rated researcher) as the Research Chair holder. The Research Chair is supported by three Senior Researchers (Dr MY Motloang, Dr A Halajian and Dr JR Sara), a Research Assistant and several collaborators at UL, national as well as international institutions. The main focus of the research is on the aquatic ecosystem health, concentrating on fish health and diseases associated with different kinds of pollution, with emphasis on parasite diversity. The constant threat of anthropogenic activities and pollution to aquatic ecosystems requires ongoing and comprehensive monitoring and management. All biota is affected by changes in aquatic ecosystems for example hippopotami are affected by droughts and their health and parasites form part of our research. Crocodiles have shown to be sensitive to environmental changes and develop a disease called pansteatitis which seem to be irreversible. The pathways and effect of different contamination levels associated with this disease have not yet been established and our research group is focusing on this as part of our research. Furthermore, fish are also affected by pollution and some species have shown signs of pansteatitis. Fish are also considered as an indispensable source of protein for humans, and the consumption and health of fish will have a direct impact on human health. The risk associated with consuming fish should thus form part of the constant monitoring of aquatic ecosystem health and is a prominent focus area of our research.

The Research Chair hosted several national and international researchers during research visits in 2018. Most of these were arranged by Dr A Halajian and all researchers gave talks at the Parasitology Lab. These talks were attended by staff from UL as well as pupils from local schools exposing them to research related science topics. Dr Halajian also visited several local schools promoting science education.

Publications by members and co-workers of the SARChI Research Chair in 2018 included new parasite species descriptions as well as new geographical records with several presentations at national and international conferences. Prof Luus-Powell gave two plenary talks (FSA Research Day and 45th Annual Research Symposium on the
Management of Biological Invasions in Southern Africa, University of Venda). Dr Halajian and Mr Rampedi represented our group at the Science Forum where they chaired a session and gave talks on ‘One Health’.

The achievements of the SARChI Research Chair could not have been possible without the unwavering support from management, co-workers and SMLS colleagues

Prof Susan Dippenaar

As a Professor of Zoology in the Department of Biodiversity, Prof Dippenaar is actively involved in the teaching and training of both undergraduate and postgraduate students. Her research interests focus on the taxonomy and systematics of small invertebrates and lies specifically within marine invertebrates, more specifically, the symbiotic Siphonostomatoida (Copepoda). Prof Dippenaar started to work on the symbiotic siphonostomatoids of elasmobranchs caught in the nets of the KwaZulu-Natal Sharks Board during 1995 and received funding from the Irish Government and the WO Neitz Memorial Scholarship in Parasitology to visit Dr George Benz at the Southeast Aquatic Research Institute of the Tennessee Museum in Chattanooga, USA, during January 1999. Dr Benz was a world renowned copepodologist. He taught her how to work with these small organisms and shared his expertise about these group of organisms. Prof Dippenaar has been a member of the World Association of Copepodologists since 1999. In 2001, she received a Fulbright Scholarship to work in the laboratory of Dr Keith Crandall at Brigham Young University in Provo, Utah. During those eight months she learned to use molecular techniques to estimate phylogenetic relationships of the siphonostomatoid individuals and spent the last month with Dr George Benz again. In 2004, Prof Dippenaar graduated and received a PhD for the study entitled: “Copepod parasites of elasmobranchs off South Africa”. She received the Senior WO Neitz Medal for her thesis from the Parasitological Society of Southern Africa. To date, she and her collaborators have published 41 scientific papers (mostly on symbiotic copepods and delivered several presentations at both national and international conferences on the subject). Her research recently also includes freshwater free-living copepods and she train postgraduate students in the scarce skills to work with small invertebrates and to pay attention to the detail needed to illustrate, describe and identify these organisms. To date, Prof Dippenaar has supervised/co-supervised 22 Honours mini-dissertations and 08 MSc dissertations of
students that already graduated. She received NRF rating for the first time in 2005. She currently is a C2 NRF-rated researcher

7. RESEARCH COLLABORATIONS AND PARTNERSHIPS

Research collaborations and partnerships are with almost all South African universities, many research-oriented industries and parastatals, and some overseas universities. A summary of the 2018 collaborations is provided in the following table.

<table>
<thead>
<tr>
<th>Name</th>
<th>Research collaborations / partnerships</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prof Sodi, Prof Mothiba and</td>
<td>University of Antwerp, Belgium</td>
</tr>
<tr>
<td>Prof Themane Communication</td>
<td>National Department of Water Affairs</td>
</tr>
<tr>
<td>Studies</td>
<td>Limpopo Provincial Department of Health &amp; Lund University, Sweden</td>
</tr>
<tr>
<td>Prof L Skaal, Prof TM Mothiba</td>
<td>University of the Western Cape</td>
</tr>
<tr>
<td>Dr CS Opuwari</td>
<td>Wits University, Walter Sisulu University, University of Pretoria, University of Cape Town, Sefako Makgato University &amp; University of KwaZulu-Natal</td>
</tr>
<tr>
<td>Prof AR Ratsela</td>
<td>Wits University, Walter Sisulu University, University of Pretoria, University of Cape Town, Sefako Makgato University and the University of KwaZulu Natal &amp; Hamilton University, Canada</td>
</tr>
<tr>
<td>Prof M Alberts</td>
<td>South African Population Research Institute (SAPRIN) project; Department of Science and Technology (DST) &amp; Medical Research Council (MRC)</td>
</tr>
<tr>
<td>Dr F Mashinya, Prof M Alberts</td>
<td>University of the Witwatersrand &amp; International Network for Demographic Evaluation of Populations and Their Health (INDEPTH).</td>
</tr>
<tr>
<td>Prof IB Oluwatayo</td>
<td>Water Research Commission and Agricultural Research Council</td>
</tr>
<tr>
<td>Dr JJ Hlongwane</td>
<td>National Agricultural Marketing Council and Department of Agriculture, Forestry and Fisheries</td>
</tr>
<tr>
<td>Prof JW Ngambi</td>
<td>Agricultural Research Council and VLIR</td>
</tr>
<tr>
<td>Dr O Tada</td>
<td>Agricultural Research Council</td>
</tr>
<tr>
<td>Prof Mariga IK, Dr Kena MA,</td>
<td>Research and technology transfer linkages with Limpopo Department of Agriculture and Lebopo co-operative</td>
</tr>
<tr>
<td>and Dr Molatudi RL</td>
<td></td>
</tr>
<tr>
<td>Ms PM Kgopa</td>
<td>Advisory services linkages with Limpopo Department of Agriculture and Rural Development Provincial Extension Coordinating Forum</td>
</tr>
</tbody>
</table>
Prof PW Mashela o Agricultural Research Council, Vegetable and Ornamental Plant Institute, University of Leuven & VLIR
Prof IK Mariga o Department of Chemistry/Crop Science, Tshwane University of Technology and ARC
Prof TP Mafeo o Agricultural Research Council – ITSC – Nelspruit
Dr MM Mphahlele o CSIR-Research, collaboration and student supervision
Dr M Mujuru o UNISA-Research and student supervision
o HSRC-Research
o Victoria University, New Zealand-Research & Student supervision
o LDA-Research
o Austin Peay State University, USA-Collaborative research
Prof J P Maree o TUT-Water Treatment and Training
Dr CT Tshidino o Dr NE Madala, University of Venda.
o Mrs FL Bopape, Agricultural Research Council-Plant Protection Research Institute
Dr VG Mbazima, Prof MP Mokgotho and Prof LJ Mampuru o Prof J Louw, South Africa Medical Research Council.
o Prof C Muller, South African Medical Research Council
Prof SM Dippenaar o Mr H Otto & Mr W Chivell – Dyer Island Conservation Trust
Prof WJ Luus-Powell, Dr MM Matla, Mr WJ Smit and Mr HE Hattingh o Prof Paul Oberholster, CSIR, Stellenbosh; Research on the Olifants River.
o Dr Marius Claassen, CSIR, Pretoria; Research on waste water, Olifants River.
o Prof PSO Fouche (retired); Research on the fisheries potential.
o Prof A Avenant-Oldewage, University of Johannesburg; Monogenean research.
Dr JR Sara and Mr WJ Smit o Prof Paul Oberholster, CSIR, Stellenbosh; Research on waste water project.
o Dr Marius Claassen, CSIR, Pretoria; Research on the waste water project.
o Prof OLF Wyl, SAIAB, Grahamstown; Research on the fisheries potential project.
o Dr SM Marr, SAIAB, Grahamstown; Research on the fisheries potential project.
o Dr A Vosloo, UKZN, Westville; Research on biomarkers project
Prof GD Engelbrecht o Mr D De Swardt, National Museum: Gurney’s Sugarbird Ecology.
o Dr J Wesley-Smith, Medunsa: Feather Structure, SEM.
o Dr J Measy, CIB, University of Stellenbosch: Invasion biology research
Ms MA Modiba o Dr Charles Haddad, University of the Free State.
Computer Science

- Jan-Andries Neethling; National Museum, Bloemfontein.
- Robyn Lyle & Petro Marais; Agricultural Research Council
- CSIR, Research, Training and supervision of postgraduate
- CHPC, Student training
- UCT, Research, Training and supervision of postgraduate

MATH

- UNISA’s Mathematics Department, Research and postgraduate supervision

SAOR

- National University of Science and Technology (Zimbabwe), Prof JJ Cochran at the University of Alabama (USA), Prof S Kumar at the University of Melbourne (Australia), University of Botswana, University of Pretoria, University of Venda, University of Witwatersrand and Eskom: Research and postgraduate supervision

Prof A Addo-Bediako, Prof WJ Luus-Powell and Dr MM Matla

- Prof Lieven Bervoets, University of Antwerp (Belgium) for the VLIR/IUC project 5: Postgraduate training and water research development

Prof GD Engelbrecht

- Prof P Alström of Uppsala University, Sweden; Research on larks.
- Dr P Donald, Birdlife International, Cambridge, UK; Research on larks.
- Drs M Hausberger, Université de Rennes, France; Bird Research

Dr TG Mandiwana-Neudani

- Dr C Kopuchian, Ecologia Aplicada del Litoral-CONICET, Argentina – Bird Research and student supervision.
- Dr M Hausberger & Dr L Henry, Université de Rennes 1, France – Passerine Bird Research.
- Prof J Fuchs, Museum National d’Histoire Naturelle, France – Bird Research and student supervision.
- Prof RCK Bowie - University of California, Berkeley, USA – Gamebird and Passerine Bird Research and student supervision
- Dr JH Van Niekerk - College of Agriculture and Environmental Science, University of South Africa – Gamebird research.
- Prof TM Crowe - University of Cape Town – Gamebird research.
- Dr P Dlamini – Department of Soil Science, University of Limpopo – Unidentified plant taxon characterization and soil analysis.

Materials Modelling Centre

- CSIR, Metal and Metal Processing, Dr R Tshikhudo, Dr R Modiba
- CSIR, Titanium development, Dr Shahed
Chemistry

- Fazluddin
  - National Centre for High Performance Computing, Dr. HM Sithole
  - CSIR with M. Mathe on battery development
  - University of Cape Town, Dr B Faedzan on mineral processing
- Dr. P. B. Ramatsetse, Department of Chemistry, University of Pretoria, as research collaborator
- Dr. R. Brosius, Department of Chemical Engineering, UCT, as research collaborator
- Prof. R. Meijboom, Department of Chemistry, University of Johannesburg, as research collaborator
- Prof MS Scurrell, University of South Africa, as collaborator
- Dr NJ Gumede, Mangosuthu University of Technology, as research collaborator
- Prof K Mandiwana, Tshwane University of Technology, as research collaborator
- Prof P Makgwane, CSIR Pretoria, as research collaborator
- Prof N Agyei, Sefako Makgatho Health Science University, South Africa, as research collaborator.
- Prof BO Owaga, University of Zululand, South Africa, as research collaborator
- Prof EI Iwuoha, University of Western cape, as collaborator
- Prof M Lototskyy, University of Western cape, as research collaborator
- Prof. NE Nxumalo, University of South Africa, as collaborator.
- Prof. R.M. Moutloali, University of Johannesburg, as collaborator
- Prof. R. Meijboom, Department of Chemistry, University of Johannesburg, as collaborator
- Prof MS Scurrell, University of South Africa, as collaborator
- Dr. A. Dinsmore, School of Chemistry, University of the Witwatersrand, as collaborator
- Prof. H. Kinfe, Department of Chemistry, University of Johannesburg, as research collaborator
- Dr. SD Khanye, Department of Chemistry, Rhodes University, as research collaborator
- Prof. A. Maity, DST/CSIR NIC, National Centre for Nano-Structured Materials, CSIR as research collaborator
- Prof. TE Motaung, Department of University of Zululand, South Africa, as research collaborator
- Prof. MS Dhlamini, Department of Physics, University of South Africa, as research collaborator.
collaborator.
  o Dr. SV Motloung, Department of Physics, Sefako Makgatho Health Science University, South Africa, as collaborator.
  o Dr. LF Koao, Department of Physics, University of the Free State, South Africa, as research collaborator.
  o Prof MJ Mphahlele, College of Science, University of South Africa, as research collaborator
  o Prof. TW Godeto, Department of Chemistry, University of Johannesburg, as research collaborator
  o Prof. RI McCrindle, Department of Chemistry, Tshwane University of Technology, as research collaborator
  o Dr. R. Brosius, Department of Chemical Engineering, UCT, as research collaborator
  o Dr OB Owaga, School of Chemistry and Physics, University of kwazulu-Natal, as research collaborator
  o Dr. D. Warner, Department of Biochemistry, UCT, as research collaborator.
  o Dr AA Ambushe, Department of Chemistry, University of Johannesburg, as research collaborator

Physics

  o Dr BW Mwakikunga (CSIR), Prof T Hillie (CSIR) and Dr L Sikhwivhilu (Mintek), Prof MM Diale (UP)
  o Prof S Allie (UCT)
  o Prof I Hummelgren (Brazil), Prof M Cota (Brazil), Dr SK Dhara (India)
  o Goodman School of Mines, Laurentian University, Sudbury Canada.
  o Professor Yasushi Watanabe and Dr. Kofi Adomako (Akita University in Japan).
8. FACULTY RESEARCH DAYS

Faculty Research Days have become an important vehicle for Early Career Researcher (ECR’s) development. They provide a valuable platform for both Staff and Postgraduate students who are regarded as ECR’s to display their skills and knowledge. In 2018, Faculty Research Days attracted many presenters from across the University, Limpopo Provincial Departments as well as other universities.

In the Faculty of Humanities, the Faculty Research Day was again held under the Umbrella of the Annual Spring lectures conference and took place from 04 – 06 September 2018. The Spring Lectures are organised annually by the Faculty of Humanities as a platform for staff and students at both post- and under-graduate levels as well as emerging researchers and established scholars to read their papers. The theme for the 2018 edition of the spring lectures was “Calling for Transgressive and Constructionist Dialogue (s) on Africanisation and Decoloniality”. During this event, Professor Molefi Kete Asante gave a keynote address “Curricula insurgency: Decolonising regimes of knowledge in an African university”.

During the conference dinner dinner a number of researchers were awarded prizes for their notable contributions. Some of these awards were as follows: The award for best male researcher went to Prof JC Makhubele. There were no nominees for the categories best female researcher as well as best emerging researcher. Other awards announced on that day included the teaching and learning excellence awards for Mrs TMA Mahlatjie and Prof L Mkuti as well as most resourceful staff members which included Mrs SI Phalane, Mrs JM Mokone, Ms A Whitehead, Ms M Maponya, Mrs R Annandale, Mrs SP vd Merwe and Mr KM Modiba. In addition, a number of students from the Faculty of Humanities were recognised as ambassadors of the Faculty.

Meanwhile in the Faculty of Management and Law the Faculty Research Day saw the following members being awarded for their contribution: Prof C Ngwakwe (Best Researcher. Both Professors I.A van der Merwe and T Moyo were joint winners in the category Best Female researcher. Awards for student contributions went to Mr M.J Masenya, Ms N.A Ledwaba, Ms C.P Mahlangu and Ms M.P Maloa.
In Faculty of Health Sciences, a total of 89 abstracts were accepted for various presentations in the following categories: 53 oral, 36 poster presentations and one workshop. The various abstracts covered the following topics: Occupational Diseases; Cancer; Communicable Diseases, Biochemical and Pharmaceutical Pathways, Academic Knowledge, Ophthalmic Research, Community Nutrition, Business and Administration; Stress-related Research; Trauma and Diseases of Lifestyle.

The workshop was facilitated by an international guest Prof Hilde Bastiaens from University of Antwerp, Belgium. It was titled: “Publishing in international High Impact Journals: What is expected from the authors”.

The following participants were awarded various prizes for their commended participation during the Faculty of Health Sciences event: Matjebe WM for best prize in the undergraduate poster presentation category, For the Undergraduate category - Maduane MJ for 1st prize oral presentation, Manhambara S for 2nd prize oral presentation, Masemola NM for 3rd prize oral presentation. For the postgraduate category: Ngoatle C for 1st prize oral presentation, Lekoloana MA received 2nd prize oral presentation, Mahlatjie MA for 3rd prize oral presentation and Seabi ME for best poster presenter.

Prizes for Academic Staff were as follows: Mr TL Manyama received the best poster award while Mr TE Mutshatshi received a prize for best oral presentation. Meanwhile, Mr C Mayeza from the Faculty of Management and Law received third prize for his oral presentation in the Faculty of Health Sciences Research Day.

The Faculty of Science and Agriculture held its 9th Postgraduate Research Day during 20 - 21 September 2018. In this event, a number of students walked away with monetary awards ranging from R1 500 to R6 500. Details of the categories that the Faculty recognised are as per the table below:
Honours Poster Presentations Winners

<table>
<thead>
<tr>
<th>School</th>
<th>1st Prize</th>
<th>2nd Prize</th>
<th>3rd Prize</th>
<th>4th Prize</th>
</tr>
</thead>
<tbody>
<tr>
<td>SAES</td>
<td>HONS</td>
<td>A Moriri</td>
<td>PS Msibi</td>
<td>MC Ngoetjana</td>
</tr>
<tr>
<td>SMLS</td>
<td>HONS</td>
<td>LM Makgai</td>
<td>1. MI Maphori</td>
<td>2. M Makhubele</td>
</tr>
<tr>
<td>SPMS</td>
<td>HONS</td>
<td>NT Tsebesebe</td>
<td>CM Masemola</td>
<td>LC Makola 1. K Tibane</td>
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<tr>
<td>SMCS</td>
<td>HONS</td>
<td>DT Mosaka</td>
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</table>

Oral Presentations Winners

<table>
<thead>
<tr>
<th>School</th>
<th>1st Prize</th>
<th>2nd Prize</th>
<th>3rd Prize</th>
<th>4th Prize</th>
</tr>
</thead>
<tbody>
<tr>
<td>SAES</td>
<td>PhD</td>
<td>MM Mofokeng (D)</td>
<td>M Sekhuhune (D)</td>
<td>TS Nkuna (D)</td>
</tr>
<tr>
<td></td>
<td>MSc</td>
<td>PC Rasweswe (M)</td>
<td>M Babalola (M)</td>
<td>1. A Sehlapelo (M)</td>
</tr>
<tr>
<td>SMCS</td>
<td>PhD</td>
<td>TB Mokgonyane (M)</td>
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<tr>
<td>SMLS</td>
<td>PhD</td>
<td>P Tebeila (D)</td>
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<tr>
<td></td>
<td>MSc</td>
<td>K Serali (M)</td>
<td>TT Ramavhale (M)</td>
<td>MK Sekhuhune (M)</td>
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<td>MSc</td>
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<td>N Ramese (M)</td>
<td>E Maluleke (M)</td>
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<tr>
<td>SPMS</td>
<td>PhD</td>
<td>PW Masoga (D)</td>
<td>KE Ramohola (D)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MSc</td>
<td>KB Dilebo (M)</td>
<td>RL Thubakgale</td>
<td>DM Teffu (M)</td>
</tr>
</tbody>
</table>

9. HOSTED PUBLIC LECTURES/ CONFERENCES

There were several academic events hosted by the University during the academic year under review:

Faculty of Humanities
1. Annual Spring Lectures Conference: 4 – 6 September 2018. One of the key scholarly luminaries who attended the occasion is Professor Molefi Kete Asante from the Temple University in the United States of America.

Faculty of Health Sciences

**Faculty of Science and Agriculture**

4. Public Lecture: 01 October 2018. Prof Azwindini Muronga: Nelson Mandela University. Title of presentation: *Gravitational waves detected 100 years after Einstein predicted.*

5. Public Lecture: Prof OH Majane: Sefako Makgatho Health Sciences University. Topic of lecture: *Characteristics of Heart Failure with Preserved Ejection Fraction in Developing Countries*


7. Talk: Dr MC Masedi and Mr KT Malatji with the Materials Design Team: 02 – 06 December 2018. CHPC National Meeting 2018, Century City, Cape Town. Topic: *Setting Up Basic Molecular Dynamics (MD) Calculations at CHPC Using UNCLE Code within MedeA platform*


**10. KEYNOTE ADDRESS/ INVITED SPEAKERS/ GUEST LECTURES**

Notably, some UL staff participated in a number of events as invited guests. These are listed here as follows:


3. **R.S. Ledwaba, K. Kgatwane, D.C. Sayle and P.E. Ngoepe:** “*Simulation on mechanical properties of electrodes during intercalation*” at the International Battery Association Conference, held in South Korea during March 2018

4. **Prof JP Maree:** *Unchartered waters: opportunities for SMMEs within the water value chain. Innovation at Opportunities for SMMEs and technology developers,* the workshop on Innov8 Networking Workshop, Innovation Hu, 6 September 2018

5. **Prof WJ Luus-Powell, (Plenary):** *Fish parasites as co-invaders: risk to biodiversity?* at the 45th Annual Research Symposium on the Management of Biological Invasions in Southern Africa, held at the University of Venda.

6. **Prof WJ Luus-Powell Keynote address:** “*The importance of monitoring ecosystem health in a changing environment; Research within the DST-NRF SARChI Chair*” at the 9th Faculty of Science and Agriculture Research Day, Fusion Botique Hotel, Polokwane, 20-21 September 2018

7. **Prof P Masoko:** “*Isolation and Characterization of sesquiterpene lactones from Schkuhria pinnata and their antibacterial and anti-inflammatory activities*” at the 1st African Traditional and Natural Product Medicine Conference, Protea Hotel Ranch Resort, Limpopo Province, South Africa, 16-19 October 2018

8. **Dr KLM Moganedi** was invited to present as an innovator at the World Intellectual Property Day on the 26th April 2018.

9. **Prof JJ Cochran (Public Lecture):** “*Controversies in Contemporary Statistics: Developing a Big Data Framework, Reassessing the Utility of p-Values, and Addressing Failures in Collective Science*” on the 11th October 2018

**11. PERFORMANCE IN KEY RESEARCH ACTIVITIES**

In this section, details on key research activities such as attendance of academic conferences, research workshops, postgraduate throughput and hosting postdoctoral fellows is presented per faculty below:

**12.1 Conference Attendance**

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<tr>
<th>Name(s)</th>
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<td>Author(s)</td>
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<tr>
<td>SJ Kubayi</td>
<td>Students’ perceptions of double-barrel surnames at the University of Limpopo.</td>
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<td>RE Nengovhela TA Makamu</td>
<td>An Analysis of Students Collaboration Dance: A Case of Honours Students.</td>
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<tr>
<td>HR Maluka CA Mayeza</td>
<td>Discovery and dreams of healthcare workers at a selected hospital</td>
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<tr>
<td>D Khobane MP Mpumbude CA Mayeza</td>
<td>Socialisation of first year student: How students make sense of surprises in a university setting.</td>
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<tr>
<td>NP Kgomo CA Mayeza</td>
<td>The socialisation of Post-graduate students in a selected university</td>
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<tr>
<td>M Rulashe</td>
<td>An analysis of occupational stress on job performance among members of the South African Police Services</td>
</tr>
<tr>
<td>TM Ramoroka</td>
<td>Integrating Townships with Cities for Modernity and Transit Oriented Development: A Case of Leeto La Polokwane Bus Rapid Transit in Limpopo Province</td>
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<tr>
<td>MT Rapatsa</td>
<td>Remodeling the Constitution’s transformation trajectory: From normative legal instruments to normative moral approaches</td>
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<td>TI Mokgopo</td>
<td>Migrating offline to online to ensure better service delivery in South African Local Government: The implementation of e-government and e-governance at the local government level.</td>
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<td>MG van Niekerk</td>
<td>The importance of a legislative framework for cooperation and collaboration in the Twin Peaks model of financial regulation</td>
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<td>G Nyirenda</td>
<td>Does human capital and labour influence firm performance? Evidence from Sub-Saharan African Countries</td>
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<td>T Maleka, MB Fakoya</td>
<td>The effect of Bio-waste reduction cost in food industry on firm performance.</td>
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<td>Y Katekwe, MB Fakoya</td>
<td>Independence and audit tenure</td>
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<td>T Chireka, MB Fakoya</td>
<td>Does working capital management affect weighted average cost of capital</td>
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<td>S Malatji, MB Fakoya</td>
<td>Responsible investments and sustainable value creation in selected JSE companies</td>
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<td>D Mashau, MB Fakoya</td>
<td>Influence of socially responsible investment on firm profitability in selected listed JSE companies</td>
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<td>F Bvuma, MB Fakoya</td>
<td>Effect of reputation risks on financial performance of Johannesburg Stock Exchange Socially Responsible Investment (JSE SRI) listed companies</td>
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<td>K Kgothatso, MB Fakoya</td>
<td>Sustainability assurance and implementation of sustainability commitments: a content analysis approach</td>
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KG Mahlobo
MB Fakoya

**Venue, Date:** Saldanha Bay, SU Faculty of Military Science, 4 – 6 July 2018

**Paper Title:** New entrance Chartered Accountants and pervasive skills: A qualitative study

**Conference:** 3rd IPADA

MA Mojapelo
MB Fakoya

**Venue, Date:** Saldanha Bay, SU Faculty of Military Science, 4 – 6 July 2018

**Paper Title:** Impact of artificial intelligence on employment in the accounting profession

**Conference:** 3rd IPADA

ME Rakhadani
MB Fakoya

**Venue, Date:** Saldanha Bay, SU Faculty of Military Science, 4 – 6 July 2018

**Paper Title:** Effects of carbon tax on the profitability of selected JSE listed companies

**Conference:** 3rd IPADA

T Mafologela
MB Fakoya

**Venue, Date:** Saldanha Bay, SU Faculty of Military Science, 4 – 6 July 2018

**Paper Title:** Linking theory to practice: Preparing accounting students for the workplace

**Conference:** 3rd IPADA

NT Tema
MB Fakoya

**Venue, Date:** Saldanha Bay, SU Faculty of Military Science, 4 – 6 July 2018

**Paper Title:** Appraising renewable energy projects for improved sustainable business practices

**Conference:** 3rd IPADA

MV Nakeng
MB Fakoya

**Venue, Date:** Saldanha Bay, SU Faculty of Military Science, 4 – 6 July 2018

**Paper Title:** Effect of board characteristics on environmental and social sustainability performance of selected banking and retail companies in South Africa

**Conference:** 3rd IPADA

T Loliwe

**Conference:** INSITE 2018 Conference

**Venue, Date:** La Verne, California, USA, 23 – 28 June 2018

**Paper Title:** How to Design Accounting Video Lectures to Recover Lost Time?

MB Fakoya

**Conference:** CSEAR 2018 North America Conference

**Venue, Date:** Toronto, Canada, 20 – 22 June 2018

**Paper Title:** Interconnecting water distribution and material flow costs accounting systems for efficient municipal water distribution.

J Mokoele

**Paper Title:** Unplanned urbanization in South African cities: the emergence of urban environmental problems
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<tr>
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<tr>
<td>A Mamabolo</td>
<td>Contemporary transportation systems in South Africa: a challenging consequence to min-bus taxi industry</td>
<td>7th ICBED</td>
<td>New York, USA, 9-10 April 2018</td>
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<td>The comparison of male and female employees’ perceptions of workplace bullying at the selected institution of higher learning</td>
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<td>The role of local community newspapers in communicating HIV/ AIDS education in Capricorn district, Limpopo Province</td>
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<td>KM Mulaudzi</td>
<td>Coup D'état on South African Government: Is State Capture a Threat to Democracy?</td>
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TM Ramoroka

**Paper Title:** South Africa’s State and Business Governance of Public Private Partnerships for Provision of Services and Infrastructure: A Case of Gauteng E-Tolls

**Conference:** 3rd IPADA

**Venue, Date:** Saldanha Bay, SU Faculty of Military Science, 4 – 6 July 2018

MG Makgamatha

**Paper Title:** Political Consciousness Contribution to Public Participation on Socio- Economic Issues in South Africa

**Conference:** 3rd IPADA

**Venue, Date:** Saldanha Bay, SU Faculty of Military Science, 4 – 6 July 2018

P Raseala

**Paper Title:** Transgression of Corporate Governance in South Africa’s State-Owned Enterprises

**Conference:** 3rd IPADA

**Venue, Date:** Saldanha Bay, SU Faculty of Military Science, 4 – 6 July 2018

S Ndzinge

**Paper Title:** Corporate Governance in the Tertiary Education Sector

**Conference:** 3rd IPADA

**Venue, Date:** Saldanha Bay, SU Faculty of Military Science, 4 – 6 July 2018

ME Selelo

**Paper Title:** Redeeming the Splendor of Africa from its Deadly Zone: A Case of South Africa

**Conference:** 3rd IPADA

**Venue, Date:** Saldanha Bay, SU Faculty of Military Science, 4 – 6 July 2018

SA Milanzi

**Paper Title:** Contemporary Second Economy and Business Contestations in South Africa

**Conference:** 3rd IPADA

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T Ncanywa

**Paper Title:** Examining the Determinants of the South African Current Account Deficit and its Sustainability
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<td>Corporate governance failures: is it the end of governance as we know it?</td>
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<td>Positioning stakeholder engagement theory on governance of communal farms: a proposed framework for land governance in South Africa.</td>
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<td>SJ Mabeba</td>
<td>Investigating the causes and impact of inconstant water supply on the wellbeing of communities: a case of Molemole Local Municipality.</td>
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<td>Influencing change in municipalities through leadership: a case study of the City of Tshwane Municipality</td>
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<td>The Integrated Development Plan as a strategy to empower informal traders: the case of Thohoyandou</td>
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<td>The assessment and enhancement of performance management within South African local government environment</td>
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<td>Integrated Development Plan implementation and the enhancement of service delivery: is there a link?</td>
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**Paper Title:** The praxis of leadership styles on employee productivity: a case of the Greater Sekhukhune District Municipality  
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**Venue, Date:** Saldanha Bay, SU Faculty of Military Science, 4 – 6 July 2018

HE Zitha MM Mamabolo MP Sebola  
**Paper Title:** Compliance with procurement processes and its effects on service delivery: a case of selected departments in Limpopo Province.  
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MB Mosehlana  
**Paper Title:** ICT policy development and implementation in South Africa: towards and improved e-government implementation,  
**Conference:** 3rd IPADA  
**Venue, Date:** Saldanha Bay, SU Faculty of Military Science, 4 – 6 July 2018

NJ Mokoele MP Sebola  
**Paper Title:** Gendered discrimination in public service delivery planning in Makanye tribal settlement in rural South Africa  
**Conference:** 7th ICBED  
**Venue, Date:** New York, USA, 9-10 April 2018

TM Ramoroka  
**Paper Title:** Spatial disparities and local governance for implementation of blended learning in South Africa  
**Conference:** 9th ICSS  
**Venue, Date:** Fancourt Hotel, George, 29-31 August 2018

MJ Masenya  
**Paper Title:** The Primacy of Accountability in Combating Rampant Corruption and Promotion of Governance in South Africa  
**Conference:** 9th ICSS  
**Venue, Date:** Fancourt Hotel, George, 29-31 August 2018

MG Makgamatha  
**Paper Title:** Performance and Management of Small-Enterprises Towards Employment Creation in the 21st Century in South Africa  
**Conference:** 9th ICSS  
**Venue, Date:** Fancourt Hotel, George, 29-31 August 2018

MG Manamela  
**Paper Title:** Green Revolution and Organic Farming context: Effects and Public Health disparities in Africa  
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<td>TS Masipa BN Pillay</td>
<td>Deconstructing the Phenomenon of State Capture within the Context of “Elite Corruption in South Africa.</td>
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<td>The Complementarity of the Capabilities Approach and Therapeutic Jurisprudence: An Analysis of the Role of South Africa's Constitutional Court in the Interpretation and Enforcement of Human Rights Norms</td>
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<td>OS Sibanda BK Lekubu</td>
<td>Nyaope – A Silent killer of young people in South African Townships</td>
<td>International Conference on Drug Abuse Prevention and Treatment in Asia</td>
<td>Nanning, Guangxi, China. November 7- 12, 2018</td>
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<td>KO Odeku</td>
<td>Fostering Sustainable Energy Mix In South Africa: The Role Of Independent Power Producers</td>
<td>World Renewable Energy Congress and Exhibition</td>
<td>Kingston University, London, UK, 30 July – 3 August 2018</td>
</tr>
<tr>
<td>PR Msaule</td>
<td>Who Guards the Guardians? Revisiting the Judiciary's Accountability and the Rule of Law</td>
<td>15 Atiner Conference</td>
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</table>
**Paper Titles and Conference Information:**

**P Dhliwayo**
**Paper Title:** The Consensual Grant of Use Rights to Non-owners – Example of a Servitude  
**Conference:** Young Property Lawyers Forum  
**Venue, Date:** University of Maastricht, Netherlands, 28-29 May 2018

**P Dhliwayo**
**Paper Title:** The consensual grant of use rights to non-owners - lease example  
**Conference:** Association of Law, Property and Society  
**Venue, Date:** University of Maastricht, Netherlands, 31 May -2 June 2018

**TI Mokgopo**
**Paper Title:** Providing better services to all through the implementation of e-governance at the local government level in South Africa.  
**Conference:** 3rd IPADA  
**Venue, Date:** Saldanha Bay, SU Faculty of Military Science, 4 – 6 July 2018

**EJ van Rooyen**  
**S Ebrahim**
**Paper Title:** Applying Neuro-Linguistic Programming Techniques in Public Affairs Education and Human Resources Development.  
**Conference:** 3rd IPADA  
**Venue, Date:** Saldanha Bay, SU Faculty of Military Science, 4 – 6 July 2018

**Sikhwivhilu P Zwane E**
**Paper Title:** The Perceived Effects of Foreign Migration on Service Delivery in a South African Local Municipality: A Case of Musina Local Municipality  
**Conference:** 3rd IPADA  
**Venue, Date:** Saldanha Bay, SU Faculty of Military Science, 4 – 6 July 2018

**SK Mokoena**
**Paper Title:** Professionalising Supply Chain Management as an Alternative Mechanism to Curb Corruption in the South African Public Institutions.  
**Conference:** 3rd IPADA  
**Venue, Date:** Saldanha Bay, SU Faculty of Military Science, 4 – 6 July 2018

**SK Mokoena**
**Paper Title:** An Analysis of Gender Equalities on Leadership in Local Government: The Case of the Mpumalanga Province, South Africa.  
**Conference:** 3rd IPADA  
**Venue, Date:** Saldanha Bay, SU Faculty of Military Science, 4 – 6 July 2018

**P Letsoalo T Moyo**
**Paper Title:** Community Development Projects and Sustainable Livelihoods: Evidence from Selected Projects in Lepelle-Nkumpi Municipality in Limpopo Province  
**Conference:** 3rd IPADA
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<tr>
<th>Name</th>
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<tr>
<td>E Malele</td>
<td>Translating Policy into Practice: Challenges in the Implementation of Local Economic Development (LED) Projects in Greater Tzaneen Municipality in Limpopo Province</td>
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<td>T Moyo</td>
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<tr>
<td>KA Moloto</td>
<td>Municipal Financial Viability and Sustainability in South Africa: A Case of Molemole Local Municipality, Limpopo Province, South Africa</td>
<td>3rd IPADA</td>
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<td>MX Lethoko</td>
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<tr>
<td>N Gumbi</td>
<td>Factors That Hinder Effective Management and Supply of Clean Potable Water at eThekwini Municipality in KwaZulu-Natal.</td>
<td>3rd IPADA</td>
<td>Saldanha Bay, SU Faculty of Military Science, 4 – 6 July 2018</td>
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<td>MF Rangongo</td>
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<td>MP Tjebana</td>
<td>Challenges Faced by Sekhukhune District Municipality in Limpopo Province in Terms of Spending Municipal Infrastructure Grant Funds</td>
<td>3rd IPADA</td>
<td>Saldanha Bay, SU Faculty of Military Science, 4 – 6 July 2018</td>
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<td>MF Rachidi</td>
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<td>MJ Phosa</td>
<td>Contribution of Small-Scale Fish Farming Subsector to Rural Income Generation in Thulamela Municipality, Limpopo Province, South Africa</td>
<td>3rd IPADA</td>
<td>Saldanha Bay, SU Faculty of Military Science, 4 – 6 July 2018</td>
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<td>WM Baloyi</td>
<td>Senior Management’s Perceptions with Regard to Strategy Implementation in the Limpopo Department of Health.</td>
<td>3rd IPADA</td>
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<td>LJE Beyers</td>
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<td>MM Kanjere</td>
<td>The corrosive implications of corruption on business in South Africa</td>
<td>9th International Conference on interdisciplinary Social Sciences</td>
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<td>Author(s)</td>
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<tr>
<td>MK Thopola</td>
<td>Port Elizabeth, South Africa, 19 – 23 November 2018</td>
<td>Factors that contribute to sub-optimal midwifery practice environment in public hospitals of Limpopo province</td>
<td>3rd Nursing-2018 Conference</td>
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<tr>
<td>M Bopape, T Mothiba, H Bastiaens, J Wens, M Mutambudzi</td>
<td>Tokyo, Japan, 8 November 2018</td>
<td>Base line assessment of knowledge of home based carers who cares for diabetic people at Ga-Dikgale village, Limpopo province in South Africa: A quantitative study</td>
<td>2ND International Conference on Nursing &amp; Healthcare</td>
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<tr>
<td>MK Thopola</td>
<td>London UK, 13 – 15 August 2018</td>
<td>Effectiveness of midwifery seminar as a teaching-learning method in Midwifery among University of Limpopo learner midwives' finalists.</td>
<td>Teaching and Learning Colloquium</td>
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<td>GO Sumbane</td>
<td>Venue: Mangosuthu-Buthelezi University of Technology, 11 – 13 April 2018</td>
<td>Experiences of learner nurses during simulated clinical assessment in the skills laboratory at an institution of higher learning</td>
<td>Annual Nursing Education Conference, Hilton Hotel, Sandton</td>
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<td></td>
<td>04 – 07 September 2018</td>
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</table>
MG Mathebula  Paper Title: “Strategies to reduce high perinatal morbidity rates in Mankweng-Polokwane Complex of the Capricorn district, Limpopo province, South Africa
Conference: Annual Nursing Education Conference, Hilton Hotel, Sandton
Venue, Date: 04 – 07 September 2018

MP Moremi  Paper Title: Chemical fingerprinting of Croton gratissimus.
Conference: 1st African Traditional and Natural Product Medicine (ATNPM) conference
Venue, Date: 16 -19 October 2018, Protea Ranch Resort Polokwane

P Komape  Paper Title: Antimycobacteria and synergistic effects of plants used in by bapedi traditional healers to treat tuberculosis in Limpopo province, South Africa
Conference: 1st African Traditional and Natural Product Medicine (ATNPM) conference
Venue, Date: 16 -19 October 2018, Protea Ranch Resort Polokwane

BC Coetzee  Paper Title: Prevalence of Attention-Deficit/Hyperactivity Disorder (ADHD) and patterns of substance use, duration and history of usage among treatment-seeking adults with Substance Use Disorder (SUD)
Conference: South African Community Epidemiology Network on Drug Use (SACEUND)
Venue, Date: 17 to 20 April 2018, Venue: South African Medical Research Council (MRC), Pretoria

BC Coetzee  Paper Title: Executive Functioning, Emotional Control and Functional Impairment in patients screened for Attention-Deficit/Hyperactivity Disorder (ADHD) among treatment-seeking adults with Substance Use Disorder (SUD)
Conference: South African Community Epidemiology Network on Drug Use (SACEUND)
Venue, Date: 17 to 20 April 2018, South African Medical Research Council (MRC), Pretoria

PH Demana  Paper Title: Branded Versus Generic Medicine
Conference: 8th Annual Conference of the South African Society of Clinical Pharmacists
MS Poka  
**Paper Title:** The influence of the processing and formulation parameters on the dissolution behaviour of rosin: A natural polymer  
**Conference:** First Annual Conference of Biomedical and Natural Sciences and Therapeutics (COBNEST)  
**Venue, Date:** 7 – 9 June 2018, Ingwenyama Lodge, White River in Mpumalanga

BC Coetzee  
**Paper Title:** Pharmacy dispensing patterns on the Transnet-Phelophepa health care trains  
**Conference:** First Annual Conference of Biomedical and Natural Sciences and Therapeutics (COBNEST)  
**Venue, Date:** 7 - 10 October 2018, Spier Wine Estate, Stellenbosch, Cape Town

SF Matlala  
**Paper Title:** Concealed pregnancy among school-going adolescents in South Africa: implications for maternal and child health  
**Conference:** 6th Global Congress for Qualitative Health Research  
**Venue, Date:** 12 – 15 March 2018, Sun City, North-West Province

TR Maswanganyi SF Matlala  
**Paper Title:** The experiences of women who delivered fresh stillbirths at a rural hospital in South Africa  
**Conference:** 6th Global Congress for Qualitative Health Research,  
**Venue, Date:** 12 – 15 March 2018, Sun City, North-West Province

P Mothoa SF Matlala  
**Paper Title:** Community care workers' experiences of supporting patients on tuberculosis treatment  
**Conference:** 6th Global Congress for Qualitative Health Research,  
**Venue, Date:** 12 – 15 March 2018, Sun City, North-West Province

L Letsoalo SF Matlala  
**Paper Title:** A phenomenological study on mothers’ first visit to their premature babies in a neonatal intensive care unit at a private hospital  
**Conference:** 6th Global Congress for Qualitative Health Research,  
**Venue, Date:** 12 – 15 March 2018, Sun City, North-West Province

RM Marima  
**Paper Title:** In Silico Bio-Informatics analysis of cell-cycle related genes in response to Lopinavir/ritonavir (LPV/r) in in vitrohuman lung cancer models
TA Mamashela Muthambi

Conference: Annual conference of the South African Society of Biochemistry and Molecular Biology (SASBMB)

Venue, Date: 8 – 11 July 2018, NWU Potchefstroom RSA

Paper Title: 56th International Congress of the Federation of South African Societies of Pathology (FSASP)

Conference: Retrospective Investigation of Injury related Deaths in Limpopo Province

Venue, Date: 16 - 18th August 2018, Stellenbosch South Africa

TA Malatji

Paper Title: Implementation of fatal injury surveillance system, Lessons learned from pilot in Limpopo

Conference: Annual Conference of Public Health Association of South Africa

Venue, Date: 10-12 September 2018 Parys

A Lekoloana

Paper Title: Factors influencing knowledge of doctors on medical certification of cause of death in Limpopo province

Conference: Annual Conference of Public Health Association of South Africa

Venue, Date: 10-12 September 2018 Parys

M Setati

Paper Title: Hand hygiene knowledge, attitude and practices among health care workers at Pietersburg hospital, Polokwane, Limpopo province

Conference: Annual Conference of Public Health Association of South Africa

Venue, Date: 10-12 September 2018 Parys

Muthambi

Paper Title: Improving laboratory diagnosis of hepatitis B virus infection in Polokwane, South Africa.

Conference: 56th International Congress of the Federation of South African Societies of Pathology (FSASP)

Venue, Date: 16 - 18 August 2018, Stellenbosch South Africa

Muthambi

Paper Title: Initiation of antiretroviral therapy in HIV Elite controller: Case report from Limpopo province, South Africa

Conference: 4th Southern African HIV Clinicians Society Conference

Venue, Date: 24 - 27 October 2018. Gallagher Convention Centre, Johannesburg, South Africa.
<table>
<thead>
<tr>
<th>Authors</th>
<th>Paper Title</th>
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<tbody>
<tr>
<td>D Brown RM Mathobela JW Ng’ambi</td>
<td>Effect of dietary tanniniferous Vachelia karroo leaf meal on methane emission and productivity in yearling Boer bucks.</td>
<td>British Society of Animal Science Conference (BSAS/WPSA)</td>
<td>9 – 11 April, 2018, Croke Park, Dublin, Ireland</td>
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<tr>
<td>D Brown RM Mathobela JW Ng’ambi</td>
<td>Effect of Acacia tortilis leaf meal inclusion level on feed intake, digestibility and live weight gain of yearling male Boer goats fed Avena sativa grass hay-based diet.</td>
<td>British Society of Animal Science Conference (BSAS/WPSA)</td>
<td>9 – 11 April, 2018, Croke Park, Dublin, Ireland</td>
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<td>ND Mamphiswana MA Kena PW Mashela</td>
<td>Effect of Nemarion-AL, Nemafric-BL and Penicillium simplicissimum on avocado root rot and mineral nutrient concentrations</td>
<td>11th International Congress of Plant Pathology</td>
<td>July 29 – August 3, 2018, Hynes Convention Centre, Boston, Massachusetts, USA</td>
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<tr>
<td>R Sutherland TM Mathonsi R Gouws-Meyer S Laurie MA Kena D Oelofse S Venter</td>
<td>The biological control of Fusarium wilt of sweet potato using non-pathogenic <em>Fusarium oxysporum</em> and Trichoderma species</td>
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<tr>
<td>MA Kena S Maake IK Mariga RL Molatudi MG Zerizgy</td>
<td>Fungal pathogens associated with maize grown and root rot under maize/legume intercropping system in the Limpopo province, South Africa</td>
<td>11th International Congress of Plant Pathology</td>
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<td>KM Pofu, SM Laurie, SL Venter, D Oelofse, PW Mashela</td>
<td>Post-infectional nematode resistance in sweet potato cultivars in South Africa</td>
<td>European Nematological Society Conference</td>
<td>Ghent, Belgium, 11 September 2018</td>
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<tr>
<td>KM Pofu, TP Mafeo</td>
<td>Climate-smart agricultural approach in nematode management: a phytonematicide computer-based dosage model</td>
<td>European Nematological Society Conference</td>
<td>Ghent, Belgium, 11 September 2018</td>
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<tr>
<td>MG Zerizghy, PC Fisha</td>
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<td>12th AARSE International Conference</td>
<td>Alexandria, Egypt, 25-29 October 2018</td>
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<tr>
<td>A Addo-Bediako, L Rasifudi</td>
<td>Proximal sensing for characterization of selected soil properties</td>
<td>World Ecology Research Network (WERN)</td>
<td>Helsinki, Finland, 15-18 August 2018</td>
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<tr>
<td>DM Tlaamela, SM Mahlo, LJ McGaw, MA Abdalla</td>
<td>Heavy metal pollution in the water and sediment of the Ga-Selati River, Olifants River System.</td>
<td>The 66th Annual Meeting of the Society for Medicinal Plant and Natural Product (GA) jointly with the 11th S-TCM</td>
<td>Shanghai Parkyard Hotel, Shanghai City, China, 26-29 August, 2018</td>
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<tr>
<td>MD Sekgala, ZJ Machiza, WA Parker, KD Monyeki</td>
<td>Antifungal activity and toxic effects of isolated compounds from the roots of Ximenia caffra var natalensis used for oral candidiasis.</td>
<td>2nd International Conference for Food Safety and Security</td>
<td>Pretoria, 15-17 October 2018</td>
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<td>MA Kena</td>
<td>Winning the fight against corruption: A transdisciplinary approach</td>
<td>ASSAF Young Scientists' conference</td>
<td>13-14 September 2018 at Johannesburg, South Africa.</td>
</tr>
<tr>
<td>Authors</td>
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<td>NQ Hammond, K Adomako-Ansah, D Ishiyama, M Yamamoto, T Mizuta, Y Morishita</td>
<td>Vancouver Convention Centre, BC, Canada, 16-21 June 2018</td>
<td>Potential ecological and human health risks associated with abandoned goldmine tailings contaminated soil in the Murchison Area (Limpopo Province), South Africa</td>
<td>Resources for Future Generations</td>
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<td>RS Ledwaba, DC Sayle, PE Ngoepe</td>
<td>Vancouver Convention Centre, BC, Canada, 16-21 June 2018</td>
<td>Modelling diffusion induced stress in Li-Mn-O nanocomposite cathode materials</td>
<td>American Physical Society March Meeting</td>
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<td>KP Maenetja, PE Ngoepe</td>
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<td>First principles study of MO2 (M: Mn, Ti, V) catalysts in Li and Na air batteries</td>
<td>American Physical Society March Meeting</td>
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<td>CM Masedi, HM Sithole, PE Ngoepe</td>
<td>acr March 2018, Los Angeles, USA</td>
<td>Computer simulation and phase diagram prediction of Li2S1-xSex systems</td>
<td>19th International Meeting on Lithium Batteries</td>
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<td>PE Ngoepe</td>
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<td>Value addition to materials: The role of simulations. (Invited Lecture)</td>
<td>Science Symposium in Memory of David G. Pettifor</td>
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<tr>
<td>PP Mkhonto, X Zhang, B McFadzean, J Taguta, PE Ngoepe</td>
<td>XXIXth International Mineral Processing Congress</td>
<td>Enthalpy of adsorption of MBT, MBO, MBI and modified MBT onto pyrite surfaces: A computational and experimental approach</td>
<td>XXIXth International Mineral Processing Congress</td>
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<td>B McFadzean, PP Mkhonto, PE Ngoepe</td>
<td>September 2018, Moscow, Russia.</td>
<td>Integrating computational modelling with experimental enthalpy of adsorption: A xanthate-pyrite system</td>
<td>XXIXth International Mineral Processing Congress</td>
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<tr>
<td>RG Diale, HR Chauke, PE Ngoepe</td>
<td>September 2018, Moscow, Russia.</td>
<td>Martensitic transformation of TiPd-X as potential high temperature shape memory alloys (X=Ru, Ni, Au, OS).</td>
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W Nxumalo
Conference: HTSMAs 2018, 2nd International Conference on High Temperature Shape Memory Alloys
Venue, Date: May 2018, Kloster, Germany
Paper Title: Clean energy for a smart city (Invited Lecture)

A Potgieter, T Schellens, M Valcke
Conference: International Conference, International smart cities
Venue, Date: 16–20 April 2018, Belgium
Paper Title: Design Guidelines for the use of indigenous knowledge in interactive exhibits linked to the school curriculum.

M van Staden, H Malan, ML Mankgela
Conference: 4th International Conference on Education – ICEDU
Venue, Date: 5th–7th April, 2018 in Bangkok, Thailand
Paper Title: Prehypertension and hypertension in primary school children: A cause for concern?

Makwela RT, Nkwana MR, Monyeki KD
Conference: First Conference of Biomedical and Natural Sciences and Therapeutics
Venue, Date: 7–10 October 2018, Speir Estate, Stellenbosch
Paper Title: The association between body composition, blood pressure and blood glucose amongst Ellisras rural children aged between 10-14 years.

Mphahlele TP, Dibakwana W, Monyeki KD
Conference: 3rd Biennial Congress of the South African Hypertension Society and the South African Stroke Society
Venue, Date: 3-5 August 2018, Protea Hotel, Stellenbosch, Cape Town,
Paper Title: Association of fat patterning with blood pressure in Polokwane private school children aged 6 to 15 years

Malatswana S, Sebati B, Monyeki KD
Paper Title: The relationship between blood pressure, blood glucose and anthropometric parameters among Ellisras children age 6-11 years.
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<td>Paper Title</td>
<td>Body roundness index, a body shape index, conicity index and their association with cardiovascular risk factors</td>
</tr>
<tr>
<td>Authors</td>
<td>Nkwana R, Sekgala MD, Matshipi M, Monyeki KD</td>
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<tr>
<td>Paper Title</td>
<td>The association between alcohol consumption and selected biological risk factors for cardiovascular diseases amongst Ellisras rural young adults aged 18 to 30 years: Ellisras Longitudinal Study.</td>
</tr>
<tr>
<td>Authors</td>
<td>Dibakwane W, Matshipi M, Monyeki KD, Lebelo SL</td>
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<tr>
<td>Paper Title</td>
<td>Anthropometric indices for screening cardiovascular risk factors amongst Ellisras rural young adults aged 18 to 29 years: Ellisras Longitudinal Study.</td>
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<tr>
<td>Authors</td>
<td>Sebati RB, Monyeki KD, Kemper HCG, Matshipi M,</td>
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<tr>
<td>Paper Title</td>
<td>Relationship between waist circumference, waist-to-hip ratio, skinfolds and blood pressure among young adults in Ellisras South Africa: Ellisras Longitudinal Study</td>
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<td>Authors</td>
<td>Monyeki KD</td>
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</table>
Conference 3rd Biennial Congress of the South African Hypertension Society and the South African Stroke Society
Venue, Date 3-5 August 2018, Protea Hotel, Stellenbosch, Cape Town

Moloko Matshipi, Kotsedi, D. Monyeki, Han C.G. Kemper

Paper Title Association of physical activity with insulin resistance and type 2 diabetes mellitus in young adults: The Ellisras Longitudinal Study

Conference 1st conference of biomedical and natural sciences and therapeutics (COBNeST)
Venue, Date Spier Estate, Stellenbosch, 7 – 10 October 2018

Sekgala, M.D.; Mchiza, Z.J.; Parker, W.-A.; Monyeki, K.D

Paper Title Dietary Fiber Intake and Metabolic Syndrome Risk Factors among Young South African Adults

Conference World Congress of Cardiology and Cardiovascular Health
Venue, Date 5 to 8 December 2018, Dubai, United Arab Emirates

Prof RV Nikolova Workshops by SARIMA:
Defining the Business Opportunity, 22 February, 2018;
Developmental & Regulatory Pathway to Commercialise Biotechnology. 27 March, 2018;
The Business of Biosciences. 25 April, 2018;
Funding assurance landscape and interventions to strengthen the delivery of efficient and accountable research administration in South Africa. 10 December, 2018.

12.2 Research workshops attended

<table>
<thead>
<tr>
<th>Name(s)</th>
<th>Workshop Details</th>
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<tr>
<td>DA Rabodiba ME Rapetsoa S Masoga</td>
<td><strong>Workshop Title:</strong> International Foundation for Science (IFS). Workshop on proposal writing for PhD Study Cohort</td>
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<tr>
<td></td>
<td><strong>Venue, Date:</strong> 5th – 9th February 2018, Tzaneen Country Lodge</td>
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<tr>
<td>DA Rabodiba ME Rapetsoa S Masoga</td>
<td><strong>Workshop Title:</strong> Promoting the Doctorateness University</td>
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<tr>
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<td><strong>Venue, Date:</strong> 21-23 February 2018, Stellenbosch</td>
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<tr>
<td>DA Rabodiba, ME Rapetsoa, S Masoga</td>
<td><strong>Workshop Title:</strong> Introduction to quantitative research design and methodology</td>
</tr>
<tr>
<td>DA Rabodiba</td>
<td><strong>Workshop Title:</strong> Intersecting qualitative with Mixed Methods Research: Design and implementation</td>
</tr>
<tr>
<td>ME Rapetsoa</td>
<td><strong>Workshop Title:</strong> Introduction to design and execution of real world experimental and intervention studies</td>
</tr>
<tr>
<td>S Masoga</td>
<td><strong>Workshop Title:</strong> Layla Cassim Autumn School for Postgraduate students</td>
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<tr>
<td>L Muthelo</td>
<td><strong>Workshop Title:</strong> International Foundation for Science (IFS). Workshop on proposal writing for PhD Study Cohort</td>
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<tr>
<td>L Muthelo</td>
<td><strong>Workshop Title:</strong> Workshop on Promoting the Doctorateness</td>
</tr>
<tr>
<td>MK Thopola</td>
<td><strong>Workshop Title:</strong> UL Management Leadership writing Retreat</td>
</tr>
<tr>
<td>MK Thopola</td>
<td><strong>Workshop Title:</strong> Doctoral Research Supervision Workshop</td>
</tr>
<tr>
<td>L Muthelo</td>
<td><strong>Workshop Title:</strong> Introduction to SPSS</td>
</tr>
<tr>
<td>LN Mabila</td>
<td><strong>Workshop Title:</strong> Introduction to Quantitative Research Design and Methodology</td>
</tr>
<tr>
<td>LN Mabila</td>
<td><strong>Workshop Title:</strong> Scientific Article Writing for Novices in the Life Sciences</td>
</tr>
<tr>
<td>Name(s)</td>
<td>Workshop Details</td>
</tr>
<tr>
<td>----------------------</td>
<td>----------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>T Mohlahlana, ME Masupye</td>
<td><strong>Venue, Date:</strong> 15th to 19th January 2018, Stellenbosch University, African Doctoral Academy (ADA)</td>
</tr>
<tr>
<td></td>
<td><strong>Workshop Title:</strong> NVIVO method in qualitative research</td>
</tr>
<tr>
<td>N Mabila</td>
<td><strong>Venue, Date:</strong> 5th February 2018, Bolivia Lodge Polokwane</td>
</tr>
<tr>
<td></td>
<td><strong>Workshop Title:</strong> International Foundation for Science (IFS) Grant proposal writing</td>
</tr>
<tr>
<td>LN Mabila</td>
<td><strong>Venue, Date:</strong> 5th - 9th February 2018, Tzaneen Country Lodge</td>
</tr>
<tr>
<td></td>
<td><strong>Workshop Title:</strong> Promoting the Doctorateness University</td>
</tr>
<tr>
<td>MS Poka</td>
<td><strong>Venue, Date:</strong> 22nd - 23rd February 2018, Sandton Sun Hotel, Johannesburg</td>
</tr>
<tr>
<td></td>
<td><strong>Workshop Title:</strong> Combating Drug Piracy &amp; Fake Pharmaceutical Products</td>
</tr>
<tr>
<td>MP Moremi, TL Manyama</td>
<td><strong>Venue, Date:</strong> 10th - 11th September 2018, University of Pretoria</td>
</tr>
<tr>
<td></td>
<td><strong>Workshop Title:</strong> Waters Chemistry and Natural Products Seminar</td>
</tr>
<tr>
<td>T Chitura</td>
<td><strong>Venue, Date:</strong> 14 November 2018, Oaklands Conference Centre, Randburg,</td>
</tr>
<tr>
<td></td>
<td><strong>Workshop Title:</strong> Good Clinical Practice in Animal Research</td>
</tr>
<tr>
<td></td>
<td><strong>Venue, Date:</strong> 13th to the 14th of February 2018, Protea the Ranch Polokwane</td>
</tr>
<tr>
<td>Dr O Tada</td>
<td><strong>Venue, Date:</strong> 06 - 07 Nov 2018, University of Free State, Bloemfontein</td>
</tr>
<tr>
<td></td>
<td><strong>Workshop Title:</strong> Attended Animal Breeding and Genomics Course</td>
</tr>
<tr>
<td></td>
<td><strong>Venue, Date:</strong> 08 Nov 2018, Burgers Park Hotel</td>
</tr>
<tr>
<td></td>
<td><strong>Workshop Title:</strong> National Stakeholder Consultation Workshop for the preparation of National Strategies and Action Plans (NSAPs) for conservation and sustainable use of Animal Genetic Resources (AnGR).</td>
</tr>
<tr>
<td>Ledwaba LJ</td>
<td><strong>Venue, Date:</strong> 27 February - 3 March 2018, Magoebaskloof Hotel, Polokwane</td>
</tr>
<tr>
<td></td>
<td><strong>Workshop Title:</strong> UL-IFS Workshop on Applying for Research Funding</td>
</tr>
<tr>
<td></td>
<td><strong>Workshop Title:</strong> Attended Autumn School workshop for Postgraduate Students</td>
</tr>
<tr>
<td>Name(s)</td>
<td>Workshop Details</td>
</tr>
<tr>
<td>----------------</td>
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</tr>
<tr>
<td>Zerizghy MG</td>
<td><strong>Workshop Title:</strong> Strengthening postgraduate supervision  <strong>Venue, Date:</strong> 6-8 February 2018, Communication and Languages Lab (University of Limpopo)  <strong>Workshop Title:</strong> CHERTL Supervision Training (phase 3)  <strong>Venue, Date:</strong> 17-19 April 2018, TV White Space Boardroom, University of Limpopo.</td>
</tr>
<tr>
<td>Molatudi RL</td>
<td><strong>Workshop Title:</strong> Workshop on Thuthuka Application Writing  <strong>Venue, Date:</strong> 27-30 December 2018, CABI and FABI at University of Pretoria  <strong>Workshop Title:</strong> BRIP Research Symposium and Early Career Scientist Conference.  <strong>Venue, Date:</strong> 15 - 20 October 2018SAFMC, Tygerberg, Cape Town.  <strong>Workshop Title:</strong> Workshop on Postgraduate Research Progress and Proposal Presentations  <strong>Venue, Date:</strong> 16-18 March 2018, Mashutti Country Lodge, Tzaneen.  <strong>Workshop Title:</strong> Evidence-Based Health Care and Cochrane Workshop,  <strong>Venue, Date:</strong> 23-25 January 2018, Forever Resort, Bela Bela.</td>
</tr>
<tr>
<td>Dlamini PE</td>
<td><strong>Workshop Title:</strong> Mycobiome of polyphagous shot hole borer  <strong>Venue, Date:</strong> 27-30 December 2018, CABI and FABI at University of Pretoria  <strong>Workshop Title:</strong> BRIP Research Symposium and Early Career Scientist Conference.  <strong>Venue, Date:</strong> 15 - 20 October 2018SAFMC, Tygerberg, Cape Town.  <strong>Workshop Title:</strong> Workshop on Postgraduate Research Progress and Proposal Presentations  <strong>Venue, Date:</strong> 16-18 March 2018, Mashutti Country Lodge, Tzaneen.  <strong>Workshop Title:</strong> Evidence-Based Health Care and Cochrane Workshop,  <strong>Venue, Date:</strong> 23-25 January 2018, Forever Resort, Bela Bela.</td>
</tr>
<tr>
<td>Phefadu KC</td>
<td><strong>Workshop Title:</strong> Workshop on Thuthuka Application Writing  <strong>Venue, Date:</strong> 27-30 December 2018, CABI and FABI at University of Pretoria  <strong>Workshop Title:</strong> BRIP Research Symposium and Early Career Scientist Conference.  <strong>Venue, Date:</strong> 15 - 20 October 2018SAFMC, Tygerberg, Cape Town.  <strong>Workshop Title:</strong> Workshop on Postgraduate Research Progress and Proposal Presentations  <strong>Venue, Date:</strong> 16-18 March 2018, Mashutti Country Lodge, Tzaneen.  <strong>Workshop Title:</strong> Evidence-Based Health Care and Cochrane Workshop,  <strong>Venue, Date:</strong> 23-25 January 2018, Forever Resort, Bela Bela.</td>
</tr>
<tr>
<td>Gxasheka M</td>
<td><strong>Workshop Title:</strong> Mycobiome of polyphagous shot hole borer  <strong>Venue, Date:</strong> 27-30 December 2018, CABI and FABI at University of Pretoria  <strong>Workshop Title:</strong> BRIP Research Symposium and Early Career Scientist Conference.  <strong>Venue, Date:</strong> 15 - 20 October 2018SAFMC, Tygerberg, Cape Town.  <strong>Workshop Title:</strong> Workshop on Postgraduate Research Progress and Proposal Presentations  <strong>Venue, Date:</strong> 16-18 March 2018, Mashutti Country Lodge, Tzaneen.  <strong>Workshop Title:</strong> Evidence-Based Health Care and Cochrane Workshop,  <strong>Venue, Date:</strong> 23-25 January 2018, Forever Resort, Bela Bela.</td>
</tr>
<tr>
<td>Motshekga LM</td>
<td><strong>Workshop Title:</strong> Workshop on Thuthuka Application Writing  <strong>Venue, Date:</strong> 27-30 December 2018, CABI and FABI at University of Pretoria  <strong>Workshop Title:</strong> BRIP Research Symposium and Early Career Scientist Conference.  <strong>Venue, Date:</strong> 15 - 20 October 2018SAFMC, Tygerberg, Cape Town.  <strong>Workshop Title:</strong> Workshop on Postgraduate Research Progress and Proposal Presentations  <strong>Venue, Date:</strong> 16-18 March 2018, Mashutti Country Lodge, Tzaneen.  <strong>Workshop Title:</strong> Evidence-Based Health Care and Cochrane Workshop,  <strong>Venue, Date:</strong> 23-25 January 2018, Forever Resort, Bela Bela.</td>
</tr>
<tr>
<td>Kena MA</td>
<td><strong>Workshop Title:</strong> Mycobiome of polyphagous shot hole borer  <strong>Venue, Date:</strong> 27-30 December 2018, CABI and FABI at University of Pretoria  <strong>Workshop Title:</strong> BRIP Research Symposium and Early Career Scientist Conference.  <strong>Venue, Date:</strong> 15 - 20 October 2018SAFMC, Tygerberg, Cape Town.  <strong>Workshop Title:</strong> Workshop on Postgraduate Research Progress and Proposal Presentations  <strong>Venue, Date:</strong> 16-18 March 2018, Mashutti Country Lodge, Tzaneen.  <strong>Workshop Title:</strong> Evidence-Based Health Care and Cochrane Workshop,  <strong>Venue, Date:</strong> 23-25 January 2018, Forever Resort, Bela Bela.</td>
</tr>
<tr>
<td>Mampuru LJ</td>
<td><strong>Workshop Title:</strong> BRIP Research Symposium and Early Career Scientist Conference.  <strong>Venue, Date:</strong> 15 - 20 October 2018SAFMC, Tygerberg, Cape Town.  <strong>Workshop Title:</strong> Workshop on Postgraduate Research Progress and Proposal Presentations  <strong>Venue, Date:</strong> 16-18 March 2018, Mashutti Country Lodge, Tzaneen.  <strong>Workshop Title:</strong> Evidence-Based Health Care and Cochrane Workshop,  <strong>Venue, Date:</strong> 23-25 January 2018, Forever Resort, Bela Bela.</td>
</tr>
<tr>
<td>Mandiwana-Neudani TG</td>
<td><strong>Workshop Title:</strong> Introduction to R &amp; basic data manipulation  <strong>Venue, Date:</strong> 18-21 June 2018, University of Limpopo  <strong>Workshop Title:</strong> Next Generation University-Industry Collaboration Indaba  <strong>Venue, Date:</strong> 27-28 September 2018, Emperor’s Palace, OR International Airport, Johannesburg</td>
</tr>
<tr>
<td>Matla MM</td>
<td><strong>Workshop Title:</strong> Next Generation University-Industry Collaboration Indaba  <strong>Venue, Date:</strong> 27-28 September 2018, Emperor’s Palace, OR International Airport, Johannesburg</td>
</tr>
<tr>
<td>Name(s)</td>
<td>Workshop Title</td>
</tr>
<tr>
<td>------------------</td>
<td>-------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Smit WJ</td>
<td>Workshop Title: Integrated Project Planning (Community engagement) Workshop</td>
</tr>
<tr>
<td></td>
<td>Venue, Date: 18-19 October 2018, Bolivia Lodge</td>
</tr>
<tr>
<td>Mahlo SM</td>
<td>Workshop Title: Animal ethics training workshop</td>
</tr>
<tr>
<td></td>
<td>Venue, Date: February 2018, The Ranch Hotel.</td>
</tr>
<tr>
<td>Mangena P</td>
<td>Workshop Title: African Indigenous Knowledge System (AIKS): Summit</td>
</tr>
<tr>
<td></td>
<td>Venue, Date: 6-8 November 2018, Southern Sun, Johannesburg.</td>
</tr>
<tr>
<td>Mokwala PW</td>
<td>Workshop Title: Strengthening Postgraduate Supervision Course</td>
</tr>
<tr>
<td></td>
<td>Venue, Date: 4-6 June 2018, Phase 1, University of Limpopo</td>
</tr>
<tr>
<td></td>
<td>Phase 2 (online) June – July 2018</td>
</tr>
<tr>
<td></td>
<td>14-16 August 2018 Phase 3, Bolivia Lodge.</td>
</tr>
<tr>
<td>Mdaka B</td>
<td>Workshop Title: Next Generation University-Industry Collaboration Indaba</td>
</tr>
<tr>
<td></td>
<td>Venue, Date: 27-28 September 2018, Emperor’s Palace, OR</td>
</tr>
<tr>
<td></td>
<td>International Airport, Johannesburg</td>
</tr>
<tr>
<td>Ngoepe PE</td>
<td>Workshop Title: Introduction to animal research ethics training</td>
</tr>
<tr>
<td></td>
<td>Venue, Date: 14 February 2018, UL Research Office. The Ranch Protea Hotel</td>
</tr>
<tr>
<td>Masoga PW</td>
<td>Workshop Title: Electrochemical Society Meeting</td>
</tr>
<tr>
<td>Phaahla TM</td>
<td>Venue, Date: May 2018, Seattle, USA.</td>
</tr>
<tr>
<td>Mazibuko A.F</td>
<td>Workshop Title: Electrochemical Society Meeting</td>
</tr>
<tr>
<td></td>
<td>Venue, Date: October 2018, Cancun, Mexico.</td>
</tr>
<tr>
<td>Phoshoko KW</td>
<td>Workshop Title: DL_SOFTWARE Workshop</td>
</tr>
<tr>
<td></td>
<td>Venue, Date: 19 -22 February 2018, Daresbury Laboratory, UK.</td>
</tr>
<tr>
<td></td>
<td>Workshop Title: ISC-HIGH PERFORMANCE</td>
</tr>
<tr>
<td></td>
<td>Venue, Date: 24 – 28 June 2018, Messe Frankfurt, Germany</td>
</tr>
<tr>
<td></td>
<td>Workshop Title: Supercomputing 2018 conference</td>
</tr>
<tr>
<td></td>
<td>Venue, Date: November 2018, Dallas USA.</td>
</tr>
<tr>
<td></td>
<td>Workshop Title: CATSAv2018 (Chairperson)</td>
</tr>
</tbody>
</table>
Name(s) | Workshop Details
---|---
Mokhonoana M. P. | **Venue, Date:** 11 - 14 November 2018, Legend Golf and Safari Resort

Mampa RM. Nxumalo W | **Workshop Title:** 43rd SACI National Convention | **Venue, Date:** 02 – 07 December 2018 CSIR-ICC Pretoria, South Africa

Modibane KD | **Workshop Title:** South African Nanotechnology Initiative | **Venue, Date:** 22 – 25 April 2018, Salt Rock Hotel, Durban

Mpjane J | **Venue, Date:** Sandton Convention Centre, 15 – 17 October 2018 | **Conference:** International Climate Change and Adaptation Conference

Mathebula M.T | **Venue, Date:** Cape Town International Convention Centre, 18-21 June 2018 | **Conference:** Law in practice and Law in academia

Dhliwayo P | **Venue, Date:** 1-3 August 2018, Stellenbosch University. | **Conference:** Centre for Child Law: ‘Imagine children constitutionally’

Prof I.A van der Merwe | **Venue, Date:** Pretoria Protea Fire & Ice Hotel, 5-7 December 2018

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12. AWARDS AND ACHIEVEMENTS

The following staff and students received awards/recognition at various National platforms:

<table>
<thead>
<tr>
<th>Researcher's details</th>
<th>Department</th>
<th>Type of Award</th>
<th>Staff or student</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prof C Pietersen</td>
<td>Business Studies</td>
<td>Emerald Publishing: Emerald Literati Award for Highly Commendable Article</td>
<td>Staff</td>
</tr>
<tr>
<td>Dr TA Malatji</td>
<td></td>
<td>SAMRC self-initiated research grant</td>
<td>Staff</td>
</tr>
<tr>
<td>Prof RV Nikolova</td>
<td>Department of Biodiversity</td>
<td>Received the 1st Prize in the Biosciences category</td>
<td>Staff</td>
</tr>
<tr>
<td>Name</td>
<td>Discipline</td>
<td>Achievement</td>
<td>Category</td>
</tr>
<tr>
<td>-----------------------</td>
<td>-----------------------------------</td>
<td>------------------------------------------------------------------------------</td>
<td>----------</td>
</tr>
<tr>
<td>Ms L Makgoo</td>
<td>Biochemistry</td>
<td>Received the 2nd/3rd Prize Poster Presentation at the SASBMB-2018 Conference</td>
<td>Student</td>
</tr>
<tr>
<td>Ms Mogo I Chauke</td>
<td>Biochemistry</td>
<td>Was elected as a student representative in the SASBMB Council</td>
<td>Student</td>
</tr>
<tr>
<td>Ms AF Mazibuko</td>
<td>Materials Modelling Centre</td>
<td>Received first prize for best poster presentation (Hons Category), at the 63rd Annual South African Institute of Physics Conference, held at the University of Free State, Bloemfontein, June 2018. Division for Physics of Condensed Matter and Materials</td>
<td>Student</td>
</tr>
<tr>
<td>Ms T Malibe</td>
<td>Materials Modelling Centre</td>
<td>Received first prize for best oral presentation (Hons category), at the 63rd Annual South African Institute of Physics Conference, held at the University of Free State, Bloemfontein, June 2018. Division for Physics of Condensed Matter and Materials.</td>
<td>Student</td>
</tr>
<tr>
<td>Researcher's details</td>
<td>Department</td>
<td>Type of Award</td>
<td>Staff or student</td>
</tr>
<tr>
<td>----------------------</td>
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<td>---------------</td>
<td>-----------------</td>
</tr>
<tr>
<td>Ms Shibiri Beauty</td>
<td>Materials Modelling Centre</td>
<td>Received an award for best MSc poster presentation at the 2018 Europhysical Conference on Defects in insulating Materials (EURODIM2018), held at the University of Bydgoszcz, Poland, 8-13 July 2018</td>
<td>Student</td>
</tr>
<tr>
<td>Dr RS Ledwaba</td>
<td>Materials Modelling Centre</td>
<td>Elected as the new Women in Physics South Africa (WiPiSA) chairperson at the 63rd Annual South African Institute of Physics Conference, held at the University of Free State, Bloemfontein, June 2018.</td>
<td>Staff</td>
</tr>
<tr>
<td>Ms Shibiri Beauty</td>
<td>Materials Modelling Centre</td>
<td>Received first prize for best MSc poster presentation at the Center for High Performance Computing (CHPC) conference, held in Cape Town, 02 – 06 December 2018</td>
<td>Student</td>
</tr>
<tr>
<td>Ms Njabulo Sithole</td>
<td>BSc in Physical Sciences</td>
<td>Represented the University of Limpopo (UL) and South Africa at the International Student Cluster Competition hosted at the 2018 ISC High Performance Conference in Frankfurt, Germany. TeamSA, attained a 3rd position in a server cluster building competition at the International Supercomputing Conference, in Frankfurt, Germany, 25-27 June 2018.</td>
<td>Student</td>
</tr>
<tr>
<td>Mr MP Mashamaite</td>
<td>Materials Modelling Centre</td>
<td>Received 2nd and 3rd best student oral presentations at the Conference of the South African Advanced Materials Initiative (Cosaami), October 2018, Vanderbijlpark.</td>
<td>Student</td>
</tr>
<tr>
<td>Ms CS Mkhonto</td>
<td>Materials Modelling Centre</td>
<td>Received 3rd best student oral presentations at the Conference of the South African Advanced Materials Initiative (Cosaami), October 2018, Vanderbijlpark.</td>
<td>Student</td>
</tr>
</tbody>
</table>
13. VC RESEARCH EXCELLENCE AWARDS

The Annual Vice-Chancellors Research Excellence Awards took place on the 26th October 2018 at Fusion Boutique Hotel, Polokwane. The 2018 ceremony was jointly held with the newly introduced University of Limpopo Council’s Prestigious Award (ULCPA) ceremony. The ULCPA has been introduced by council to honour members of the University community who are considered to have made a significant contribution in teaching and learning, research and community engagement at the University, nationally and/or internationally.

The inaugural ceremony of the ULCPA bestowed the honour referred to above to Prof PE Ngoepe (NRF SARChI Chair and C1 Rated Researcher), who is currently the Director of Materials Modelling Centre.

During the Vice Chancellor’s Excellence Awards certificates were awarded to newly rated or re-rated researchers. The following were the recipients:

- Prof Peter Masoko, who was re-rated to the category NRF C3 Rated Researcher,
- Prof Thekiso Seretlo, who was rated to the category NRF C3 Rated Researcher – first rating.
- Prof Alpheus Masoga, who was rated to the category NRF C2 Rated Researcher – first rating.
- Prof Tholene Sodi, who was re-rated to the category NRF C2 Rated Researcher.

The recipients of the Vice Chancellor’s Excellence Awards were awarded in the following categories:

1. Upcoming Researcher in the School
2. Established Researcher in the School
3. Researcher with the largest external research funding
4. Overall Upcoming Researcher in the University
5. Overall Female Researcher in the University
6. Overall Researcher in the University

A comprehensive list of the awards for the 2018 academic year is provided in the table that follows below:
<table>
<thead>
<tr>
<th>Researcher's details</th>
<th>Department</th>
<th>Type of Award</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr K Shai</td>
<td>Political Science and Cultural Studies</td>
<td>Overall Best Emerging Researcher</td>
</tr>
<tr>
<td>Prof M.B Fakoya</td>
<td>Accountancy</td>
<td>Best Established Researcher in the School of Accountancy</td>
</tr>
<tr>
<td>Prof M.P Sebola</td>
<td>Economics and Management</td>
<td>Best Established Researcher in the School of Economics and Management</td>
</tr>
<tr>
<td>Dr T.M Ramoroka</td>
<td>Economics and Management</td>
<td>Best Emerging Researcher in the School of Economics and Management</td>
</tr>
<tr>
<td>Prof L Skaal</td>
<td>Health Care Sciences</td>
<td>Best overall female researcher in the University First Prize award in the School of Health Care Sciences</td>
</tr>
<tr>
<td>Prof PW Mashela</td>
<td>Green Technologies Research Centre of Excellence</td>
<td>Vice Chancellor's Awardee for the Best Established Researcher at the University of Limpopo</td>
</tr>
<tr>
<td>Dr KG Shadung</td>
<td>Limpopo Agro-Food Technology Station</td>
<td>Vice Chancellor's Awardee for the Best Emerging Researcher in the School of Agricultural and Environmental Sciences</td>
</tr>
<tr>
<td>Prof KD Monyeki</td>
<td>Physiology and Environmental Health</td>
<td>Vice Chancellor's Awardee for the 2nd Best Established Researcher in the School of Molecular and Life Sciences.</td>
</tr>
<tr>
<td>Dr A Halajian</td>
<td>Biodiversity</td>
<td>Vice Chancellor's Awardee for the Best Established Researcher in the School of Molecular and Life Sciences.</td>
</tr>
<tr>
<td>Mr MB Ramadisha</td>
<td>Mathematics and Applied Mathematics</td>
<td>Vice Chancellor's Awardee for the Best Established Researcher in the School of Molecular and Life Sciences.</td>
</tr>
</tbody>
</table>
In 2018, a total 417 publications were authored by UL academics. This resulted from contributions that can be classified as follows: 31 book chapters, 73 conference proceedings and 313 journal articles. A comprehensive list of the publications is presented here below:

**Book Chapters**


Conference Proceedings


Magoro, N.D., Maluka, H.R. and Mabasa F.D. 2018. The comparison of male and female employees' perceptions of workplace bullying at the selected institution of


Annual Conference on “The Image of an African Politician and a Public Servant in the 21st century” – IPADA. Held on 04 - 06 July 2018, Stellenbosch University, Saldahna Bay, South Africa.


Selelo M.E. and Manamela M.G. 2018. Redeeming the splendor of Africa from its deadly zone: A case of South Africa. The 3rd Annual International Conference on Public Administration and Development Alternatives-IPADA. Held on 04 - 06 July 2018, Stellenbosch University, Saldahna Bay, South Africa.


Journal Articles DHET accredited journals


Dippenaar, S. M. (2018). Symbiotic Siphonostomatoida (Copepoda) collected from white sharks, Carcharodon carcharias (Lamniformes, Lamnidae), during the OCEARCH expedition along the coast of South Africa. Crustacea, 91(1), 103-111.


Govender, I., Nel, K., & Maponye, E. (2018). Knowledge, attitude, behaviour and beliefs of Sefako Makgatho Health Sciences University Undergraduate students regarding HIV and AIDS. *International Journal of Infectious Diseases*, 73, 244.


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Mashamaite, K., & Lethoko, M. Role of the south african local government in local economic development. *International Journal of eBusiness and eGovernment Studies, 10*(1), 114-128.


Abodunrin, F. (2018). ‘Why Are You Here?’: Multiculturalism and


Depressive Symptoms during the Pre-and Post-Partum Period among Women Living with HIV in Rural South Africa. *Journal of Family Violence*, 1-11.


Shai, K. B. Interface between Constitutional Democracy and Traditional Mechanisms of Authority in Rural Communities of South Africa: Lessons from Marlene.


Smales, L. R., Halajian, A., Luus-Powell, W. J., & Tavakol, S. (2018). Acanthocephalans, Including the Description of a New Species of Mediorhynchus (Gigantorhynchidae) and a Redescription of Centrorhynchus clitorideus
(Centrorhynchidae) from Vertebrate Hosts from South Africa. *Comparative parasitology, 85*(1), 95-107.


15. KEY CHALLENGES

1. Inadequate research mentors and supervisors affect research output
2. Postgraduate students who exceed maximum years of study in their programmes affects research throughput
3. Minimal or none registration of postgraduate students in some of the departments retards research progress
4. Inability to attract funding to conduct research is a challenge
5. In 2018, Power/Electricity Outages resulted in the unforeseen delays of postgraduate students’ projects.
6. Lack of laboratory space, equipment and proper sterile laboratory areas led to execution of research studies to be a challenge
7. Inability of researchers to source funds for supporting postgraduate study
8. Delays in the payment of chemical suppliers by the finance section has led to blacklisting by University by suppliers. This has a huge impact on the research progress of the postgraduate students and undergraduate training.
9. Lack of office space mainly for newly-appointed staff.
10. Proposal approval stages within the University are very long.
11. Lack of balance between teaching load and research time.

16. CONCLUDING COMMENTS
The upswing in the University research output continued to be noticed in 2018. This is recommendable as there is a sign that the trend has a welcome improvement from the 2017 output which overall had gone down with a negligible margin of 4.14 units. In particular, it is encouraging that a number of emerging researchers have published accredited articles during this academic year. Another noticeable improvement is that relating to staff engaged in postgraduate studies to improve their qualifications and those that obtained such degrees. This is indicative of the fact that UL is gradually improving its outlook, particularly when it comes to the improvement of qualifications.
The Report has also shown that Postgraduate Students continue to be given support to improve their research skills in a growing way. This can be seen by the high number of conference presentations and publications that postgraduate students were given an opportunity to co-present/author.