

C R E A T I N G  
F U T U R E L E A D E R S

# VICE CHANCELLOR'S AWARDS FOR EXCELLENCE IN RESEARCH

29 July 2016

Directorate of Research  
and Innovation



University of Venda





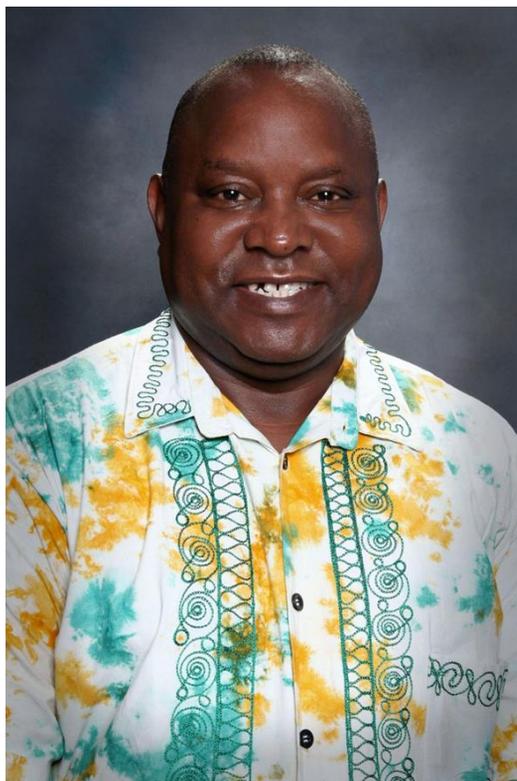
**Professor Peter Mbatia  
Vice Chancellor and Principal**



**Professor Jan Crafford**  
**Deputy Vice Chancellor Academic**

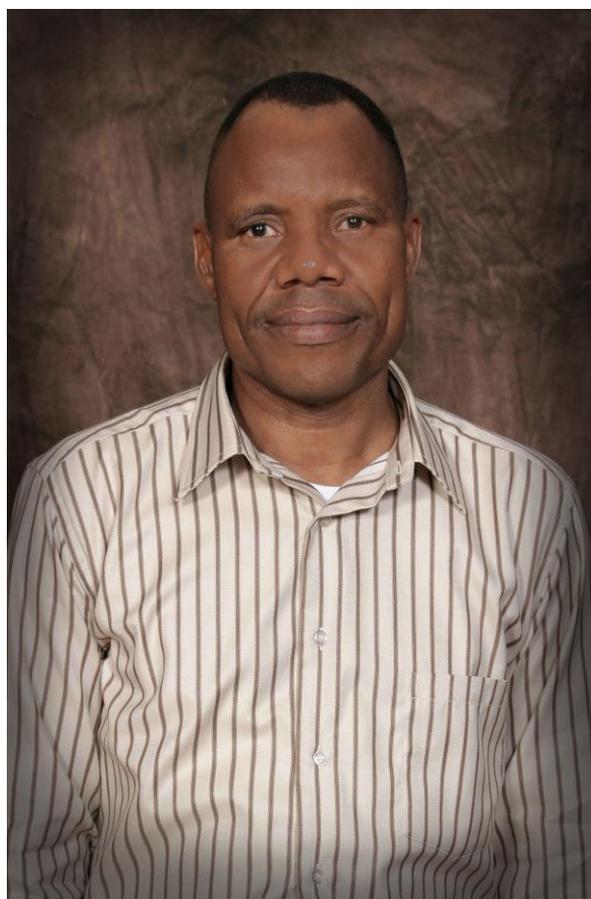


**Professor Georges-Ivo Ekosse**  
**Director Research and Innovation**



**Professor Godwin Ainamensa Mchau**  
**Dean of the School of Agriculture**

**Dr Peter Mulaudzi**  
**Dean of the School of Education**





**Professor John Odiyo**  
**Dean of the School of Environmental**  
**Sciences**

**Professor Base Khoza**  
**Dean of the School of Health Sciences**





**Professor Mokgale Makgopa**  
**Dean of the School of Human and**  
**Social Sciences**

**Ms Annette Lansink**  
**Dean of the School of Law**





**Professor Armstrong Kadyamatimba**  
**Dean of the School of Management**  
**Sciences**

**Professor Natasha Potgieter**  
**Dean of the School of Mathematical and**  
**Natural Sciences**



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# SECTION ONE

## RESEARCH AND INNOVATION MANDATE AT UNIVEN

University core business is characterised by Research and Innovation, Teaching and Learning, and Community Engagement with the first playing the most vital role in guiding and directing the other two components. This primary component of cardinal core business must be advanced, consolidated and fully realized, particularly with committed support which the University of Venda (UNIVEN) has continued to receive from both its internal (University Council, Senate and Structures) and external stakeholders such as the Department of Higher Education and Training (DHET), Department of Science and Technology (DST), National Research Foundation (NRF), National Intellectual Property Management Office (NIPMO), Technology Innovation Agency (TIA), Southern Africa Research and Innovation Management Association (SARIMA), and the Office of the Premier for Limpopo Province, and Research Councils including Council on Scientific and Industrial Research (CSIR), Medical Research Council (MRC), Human Sciences Research Council (HSRC), Water Research Commission (WRC), and Council for Geosciences.

The vision of the Directorate of Research and Innovation (DRI) is stipulated as, *“Elevating basic and applied research to excellence at University of Venda”*, with the mission being, *“The engine that drives critical, innovative and relevant research for the pursuit of knowledge and for development of local, national and regional communities”*.

In articulating the vision and mission of Research and Innovation, focus is directed at:

- The importance of both basic and applied research at UNIVEN;
- The importance of knowledge and development of local, national and regional communities through collaborative research; and
- The need to develop future researchers through emphasizing research and innovation at postgraduate level.

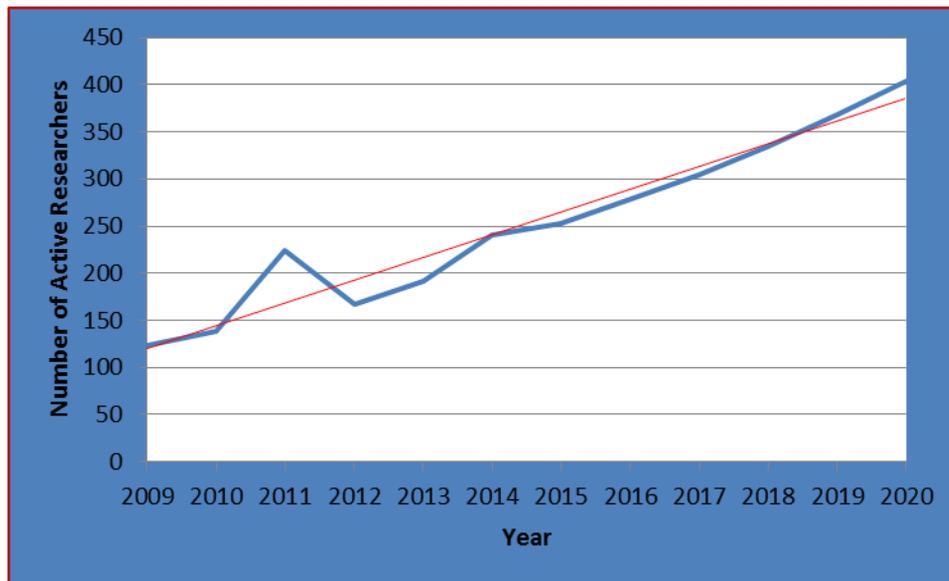
Relevant Senate Committees (Research and Publications, Research Ethics, and University Higher Degrees) and the 2014 created Research Advisory Forum play very

crucial pivotal role in the entrenchment of a true vibrant institutional research culture. The enculturation of research at UNIVEN is equally enforced through the implementation of several research and research related initiatives such as conducting Research Open Day, Research Indaba, Postgraduate Students Gathering; Workshops on Research Leadership, Postgraduate Students Supervision, Research Ethics and Stress Management, Data Management; Grants Proposal Writing, Article Writing, and Research Retreats.

In 2014, the university research niche areas were revised in line with national imperatives for strategic human capital development, improved living conditions and healthy lifestyles, with the following five research areas adapted and are being implemented:

- African Heritage;
- Earth Systems and the Environment;
- Human and Animal Health;
- Sustainable and Rural Development; and
- Law and Education.

During the last five years, UNIVEN has made very significant progress and exponential growth in research outputs, and postgraduate qualifications. The number of active researchers has continuously grown from 124 researchers in 2009 to 241 in 2014 with projection for 2020 being 315 (Figure 1.1). This growth has capitalized on the fact that the institution is investing in staff upgrading their qualifications to masters and doctoral degrees respectively. In terms of staff with doctoral qualifications, our university with its 40% is above the national average of 32%. it continues to support all its academic and research staff to attain the highest terminal qualifications, with the objective of meeting national targets of 70% set for 2030.



**Figure 1.1: Number of Active Researchers**

The university has pressed on the recruitment of special categories of professors particularly Research Professors, Professors Emeriti and Adjunct Professors whose key tasks are to assist with postgraduate students’ supervision and promotion, improve research publications outputs, and the mentoring of emerging researchers. At present, it has made over fifty adjunct professorial appointments (Figure 1.2). There are three Research Professors and five Professors Emeriti on the ground. At its Council seating of late 2014, additional positions for 20 Research Professors and 30 Postdoctoral Fellows were approved, and the institution is engaged at the implementation stage of making appointments. The university has notably had increase in the number of NRF rated researchers growing from two in 2009 to 17 in early 2015, and 32 projected for 2020 (Figure 1.3). The rated researchers have very positively contributed to its research and innovation mandate.

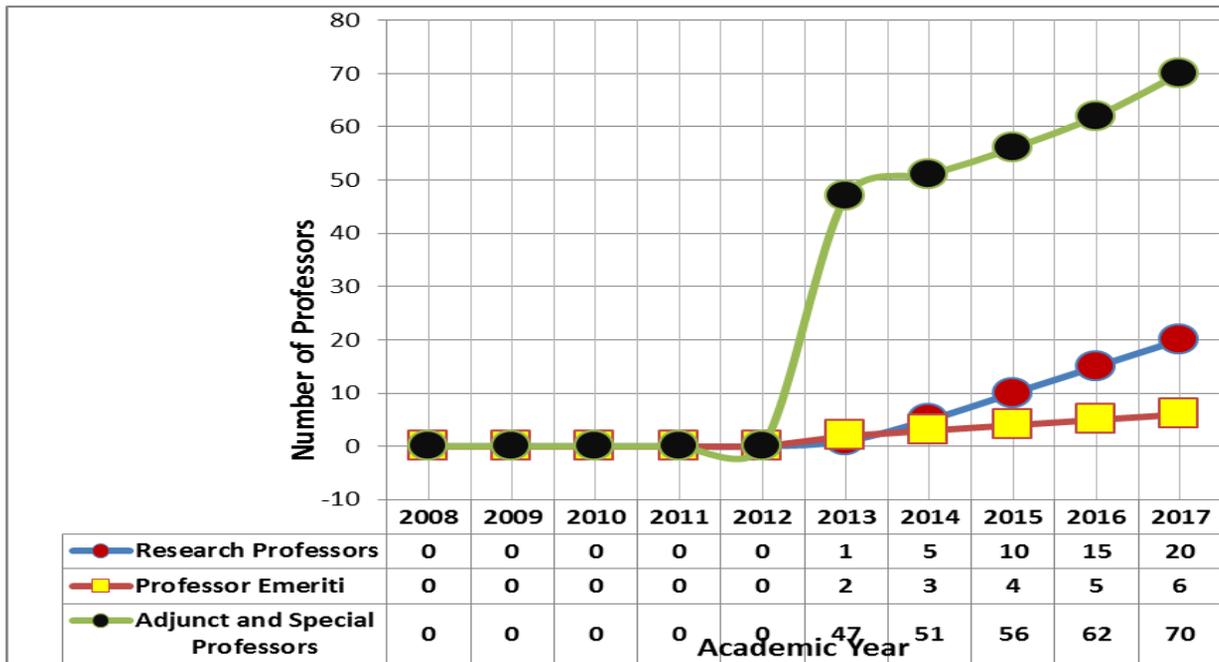


Figure 1.2: Special Category Professors

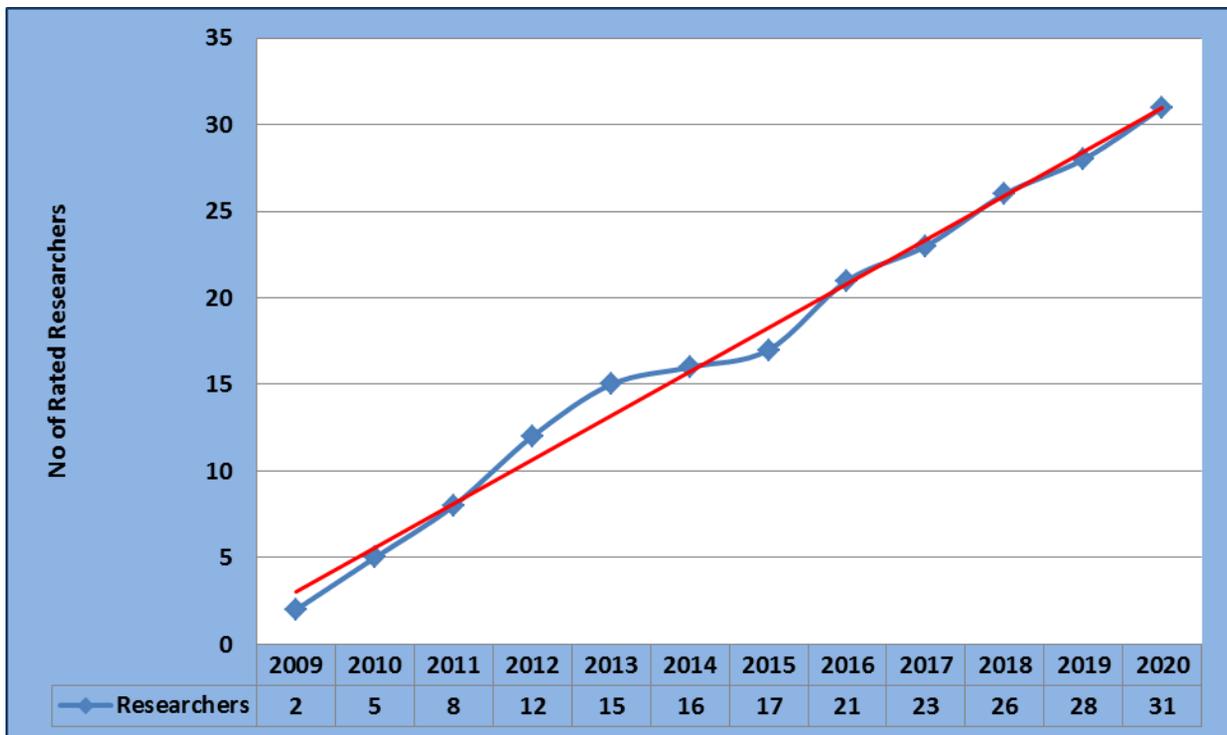
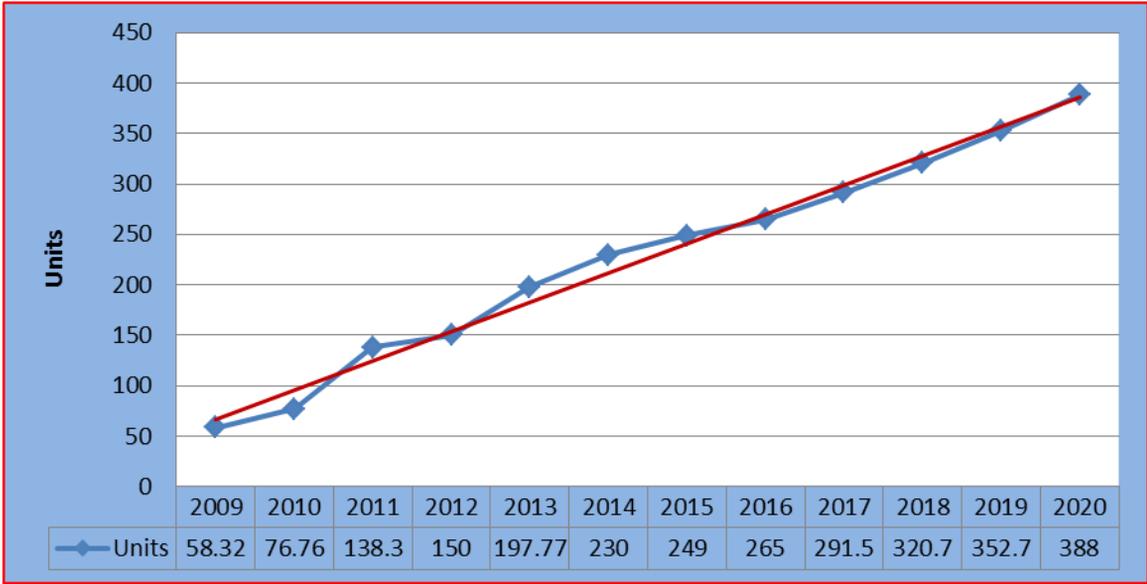
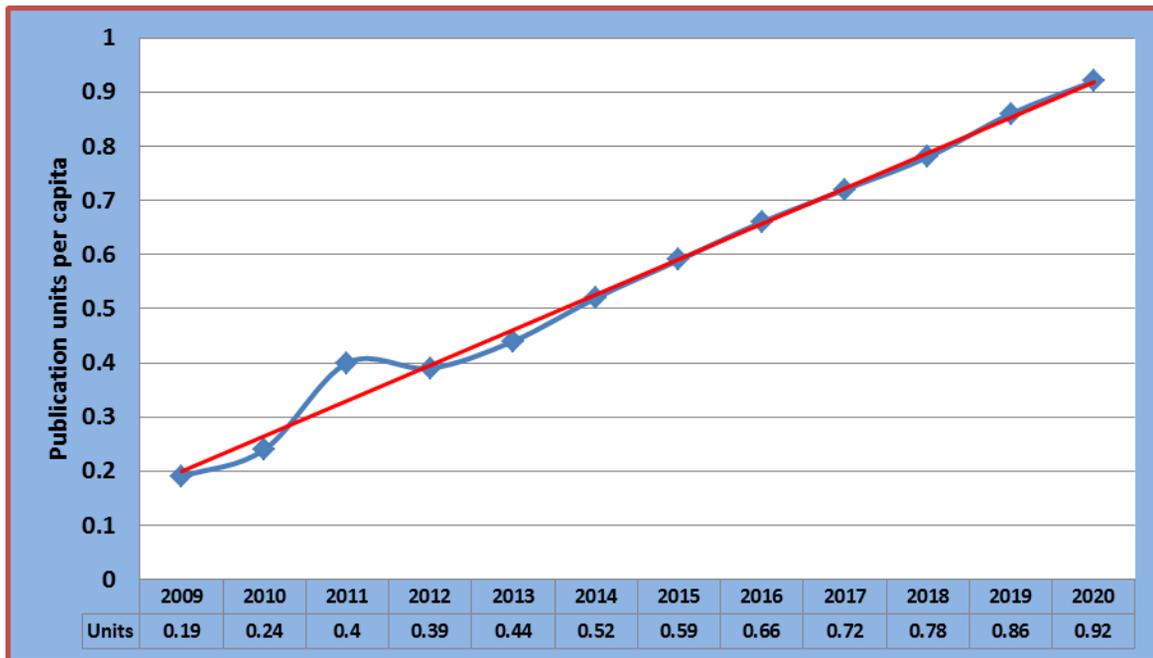


Figure 1.3: NRF Rated researchers from 2009 projected to 2020

UNIVEN has continued to have a steady increase of its research outputs in the form of articles published in SAPSE accredited journals featuring in the lists approved and annually revised by the Department of Higher Education (DHET). The university had 197.8 units in 2013 research outputs growing from 58.3 units in 2009, with projection to 338 units for 2020 (Figure 1.4). The publications units per capita of UNIVEN researchers stand at 0.66 surpassing several other universities in the country (Figure 1.5). This figure is nonetheless lower than standards set by DHET for 2020 which has to be 1.25 units.



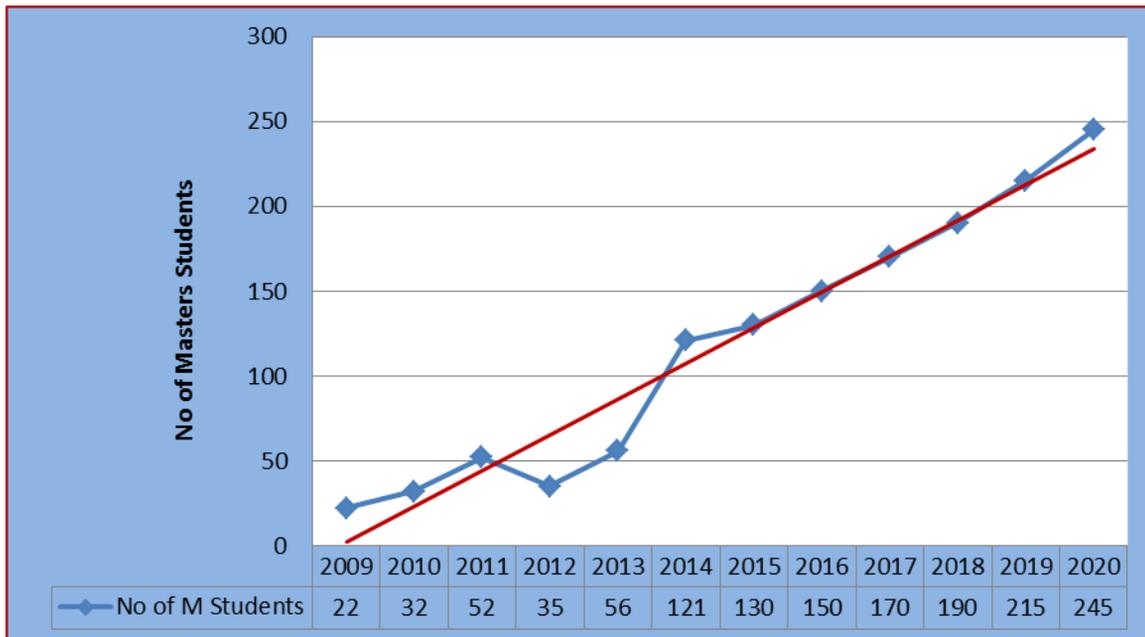
**Figure 1.4: Research outputs units from 2009 projected to 2020**



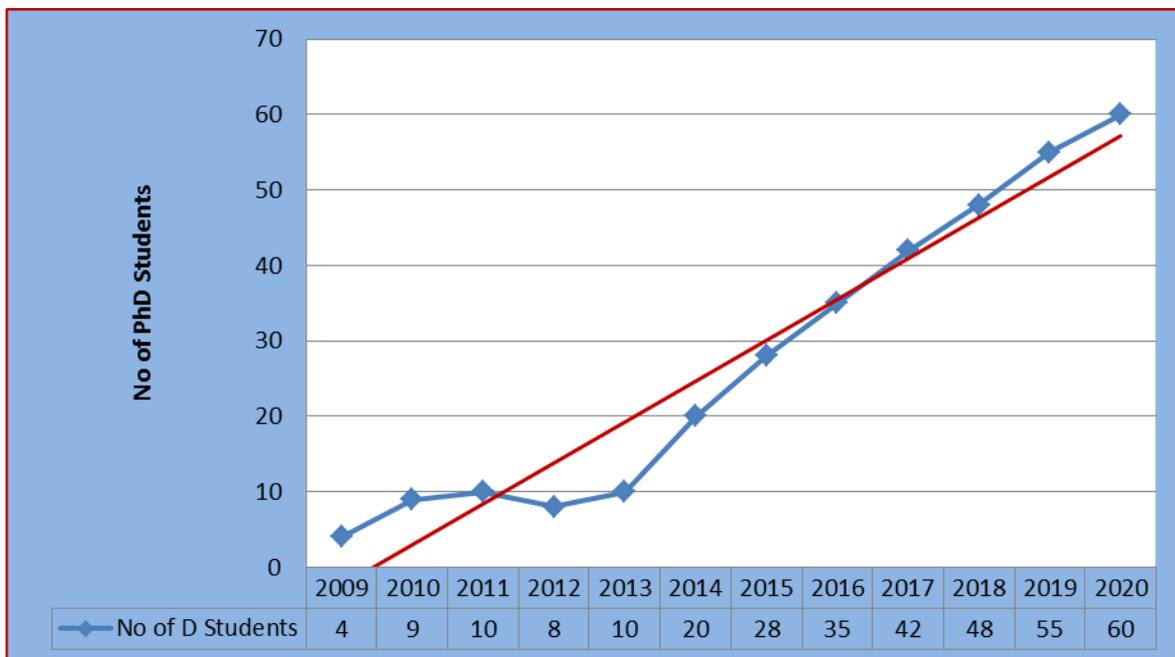
**Figure 1.5: Publication units per capita from 2009 projected to 2020**

Funding of research projects from external sources for the last four years has systematically increased. Innovative steps taken in various forms of Technology Transfer have not been visibly acknowledged though there are pockets of excellence in community driven research projects. There has been the establishment of our Technology Transfer Office within the Directorate of Research and Innovation. It is thus anticipated that these new efforts will aid in elevating new findings from research to finished products for the benefit of communities.

In terms of postgraduate students' graduation, the masters and doctoral students' outputs have experienced very significant growth. Masters outputs grew by 39.29% from 2013 to 2014, with 245 students projected to graduate in 2020 (Figure 1.6). Doctoral outputs increased by 100% from 2013 to 2014. Projections to 2020 indicate 60 Doctoral students graduating that year (Figure 1.7).



**Figure 1.6: Masters Students graduation output from 2009 projected to 2020**



**Figure 1.7: Doctoral Students graduation output from 2009 projected to 2020**

Contributory to existing efforts in augmenting research publications and postgraduate qualifications (particularly masters and doctoral degrees) outputs are continuous building of very fruitful research collaborative ties which are strategic to UNIVEN's research and innovation vision and mission. We are consolidating on existing collaborations and expanding in line with UNIVEN's vision and mission statements. UNIVEN has also embarked on the revision of its policies in Research and Innovation, and Postgraduate Studies. The rationale for the revision dwells on compliance with expectations from DHET, DST, NRF, MRC, NIPMO, TIA and the National Health Research Ethics Council (NHREC). The revision exercise will produce the following five policy documents: Research and Innovation, Research Ethics, Research Mentoring, Postgraduate Studies, and Intellectual Property and Technology Transfer. The implementation of these policies will further strengthen UNIVEN's capacity to promote research and innovation and postgraduate studies.

## **SECTION TWO**

### **WORD FROM THE DIRECTOR: RESEARCH AND INNOVATION, PROFESSOR GE EKOSSE**

#### **2.1 Introduction**

Financial aid and other various forms of support were received during 2015 from several Government Institutions in South Africa (Department of Higher Education and Training (DHET), Department of Science and Technology (DST), National Research Foundation (NRF), Medical Research Council (MRC), Water Research Commission (WRC), National Intellectual Property Management Office (NIPMO), Technology Innovation Agency (TIA) etc and through existing external collaborations with institutions such as the University of Virginia to promote University of Venda's research and research related activities. The judicious applications of the funds through various categories of grants to staff and postgraduate students have contributed to the increase in research outputs which we are celebrating.

Some of the activities which were conducted in promoting a vibrant research culture included:

- 1<sup>st</sup> UNIVEN-WSU International Research Conference
- University Higher Degrees Workshop;
- Postgraduate Supervision Workshop;
- Research Open Day;
- Research Leadership Workshop;
- Research Indaba; and
- NRF CEO's Visit

## 2.2 1<sup>st</sup> UNIVEN-WSU International Research Conference

UNIVEN-WSU's first International Research Conference was held from 2<sup>nd</sup> – 4<sup>th</sup> September 2015 at the East London International Conference Centre in the Eastern Cape Province. The theme of the conference was: *Research and Innovation for Sustainable Development and the Transformation of Society*. Delegates from 17 universities, both local and international, participated in the conference. The universities included Botho University, Cape Peninsula University, Durban University of Technology, Midlands State University, Nelson Mandela Metropolitan University, Rhodes University, Tshwane University of Technology, University of Cape Town, University of Fort Hare, University of Ibadan, University of Johannesburg, University of KwaZulu Natal, University of Technology, University of Venda, University of Witswatersrand, University of Zululand and Walter Sisulu University, as well as research councils such as Agricultural Research Council (ARC).



**The Vice Chancellors: Professor K Mfenyana of WSU and Professor P Mbat of UNIVEN at the official opening of the conference**

About 500 oral and poster presentations were made based on the following eight sub-themes i) Research, teaching and learning in higher education ii) Indigenous knowledge systems iii) Public health, HIV/AIDS and opportunistic infections iv) Law, security, governance and conflict resolution v) Climate change, food, water and energy security vi) Appropriate technologies and entrepreneurship vii) Functional multilingualism in Southern Africa viii) E-skills for rural development.



**The Deputy Vice Chancellors - Academic: Professor J Crafford of UNIVEN and Professor S Songca of WSU during the plenary session**



**Director Research and Innovation UNIVEN, Professor GE Ekosse and Acting Director, Research and Development WSU, Dr EN Cishe**



**Group photo of conference participants**

Building on the overwhelming success of the conference, it was unanimously agreed that a second conference should be organized at UNIVEN in 2016. The 2<sup>nd</sup> UNIVEN-

WSU International Research Conference will be held at The Ranch, Polokwane from 5<sup>th</sup> -7<sup>th</sup> October 2016. The theme of the conference is *Galvanising Development through Research and Innovation*. Conference sub-themes are as follows:

- Commercialisation of research findings (Research, Challenges, Success and Commercialisation of findings)
- Innovative application of Indigenous Knowledge Systems
- Languages and educational research
- Burden of diseases
- Law, commerce and governance
- Climate change and sustainable development

### **2.3 University Higher Degrees Workshop**

The University Higher Degree Committee (UHDC) workshop took place on the 23<sup>rd</sup> February 2016 at the Research conference Centre. In opening the workshop, Professor Ekosse, on behalf of the Deputy Vice Chancellor Academic (Professor JE Crafford) highlighted on the main aim of the workshop. It was for members of the committee to deliberate on modalities of decentralising the function of approvals of postgraduate students' proposals to the School Higher Degrees Committees (SHDCs) which do report to UHDC. It should be recognised that this is the first time UHDC was having its workshop.



### **Professor GE Ekosse opening the UHDC Workshop**

Deans of Schools or their representatives made presentations on how the approval process of proposals at School level is currently managed. It became evident that Schools had different processes but what was common to all was the fact that proposals were considered and recommended by Deans prior to their submission to UHDC for approval.

It was agreed that the SHDCs be responsible for considering and recommending to UHDC proposals for approval on behalf of Senate. The implementation hinges on a revised Postgraduate Training Policy and a Senate resolution.



**Deans of Schools or their Representatives making presentations of the approval process of proposals at their Schools during the workshop**

## **2.4 Postgraduate Supervision Workshop**

The workshop on Postgraduate students' supervision and promotion was held on the 24<sup>th</sup> February 2016 at UNIVEN Research Conference. The Deputy Vice Chancellor (DVC) of Walter Sisulu University (WSU), Professor Sandile Songca was the guest facilitator of the event. Professors Ekosse, Netshandama and Bessong also made presentations. In his opening remarks, Professor Ekosse highlighted challenges faced by academics and students, and encouraged all participants not to be dismayed.

Presentations made included the following topics:

- Postgraduate Enterprise at UNIVEN
- Postgraduate Supervision and Promotion
- Ethics and Audit of Postgraduate Research

Professor Songca expressed WSU's gratitude to UNIVEN for the collaboration given in terms of running Postgraduate supervision workshops in 2014 for which supervisors and promoters from WSU were able to participate. Through the development of human capacity on postgraduate supervision, the Department of Higher Education and Training

(DHET) has granted authorisation for WSU to henceforth offer doctoral degree programmes in the Sciences. Supervisors and Promoters from both institutions are encouraged to co-supervise and co-promote postgraduate students.



**Deputy Vice Chancellor of WSU (Professor SP Songca) making his presentations**

In the open session on general discussion, participants engaged with the guest speaker and senior colleagues on pertinent issues affecting effective supervision and promotion at UNIVEN. At the end of the workshop participants indicated that they had learnt how to utilise the *tools of the trade*, and committed themselves to be improved supervisors and promoters.



**Academics during the Workshop on Postgraduate students' supervision and promotion**

## **2.5 Research Open Day**

UNIVEN Research Open Day event took place in the Life Sciences Building of the School of Mathematical and Natural Sciences on the 1<sup>st</sup> March 2016. Professor Ekosse welcomed all present and elaborated on the theme of the research open day which was: "*Attaining Higher Echelons in Research Leadership*". Dr N Mutshaeni was the programme Director for the day. The Research Open Day was graced with delegates from the National Research Foundation (NRF) led by Mrs T Pillay; Centre for Scientific Institute and Research (CSIR) led by Mr J Tshikomba; and the National Intellectual Property Management Office (NIPMO) led by Mr T Jase. Researchers from UNIVEN's eight Schools as well as Centres, Institutes and Directorates including postgraduate students presented their research exhibits in the form of Posters and Laboratory

Experiments. External stakeholders prepared their eye-catching colourful exhibits and informative material. The UNIVEN radio station broadcasted the event, in which different researchers were interviewed on their research activities.



Prof Ekosse posing with External Stakeholders and the Directorate of Research and innovation Staff members

During the event, Mrs Pillay gave a talk about the significance of supporting Research in Postgraduate studies. She further alluded to postgraduate students keeping contact with the Directorate of Research and Innovation to get updates about possible funding opportunities offered by NRF.



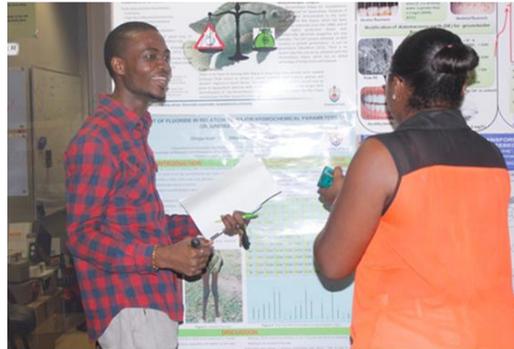
NRF Delegate : Mrs Pillay



UNIVEN: Dr Sekhula



School of Education Exhibition: Dr Mashau



School of Environmental Sciences Exhibition: Postgraduate Students

Professors Potgieter and Sewlall from the School of Mathematics and Natural Sciences, and Human and Social Sciences respectively, responding on behalf of the UNIVEN Research Community encouraged all to embark on research that will have real impact on the community. The need to establish and foster interdisciplinary collaboration and encourage Postgraduate Students and Researchers to participate in research activities at UNIVEN were emphasised. Professor Sewlall further indicated that researchers are contributing to new knowledge, and academics are no longer consumers of knowledge, they are producers of knowledge.



Prof Potgieter: Dean School of Mathematical and Natural Sciences



Prof Sewlall: School of Human and Social Sciences

All participants and stakeholders continued to view posters and exhibits.



School of Agriculture



School of Health Sciences



CSIR Exhibition



Library Services



School of management Sciences: Prof Babalola



Postgraduate Students

## 2.6 Research Leadership Workshop

Senior researchers and academics of the University of Venda were gathered at the UNIVEN Research Conference Centre to attend the Research Leadership Workshop, on the theme: *Attaining Higher Echelons in Research Leadership*. The workshop was coordinated by staff of the Directorate of Research & Innovation and it was held on the 2<sup>nd</sup> of March 2016. The following external stakeholders were present at the workshop: Ms. J Mokobi and Ms. J Mokgokong from the Office of the Premier for Limpopo Province; the Director of Research and Post Graduate Support from Durban University of Technology, Professor S Moyo; Mr. T Jase from the National intellectual Property Management Office (NIPMO); Mrs T Pillay and Ms A Pillay from the National Research Foundation (NRF).

It was opened by the Deputy Vice Chancellor Academic, Professor J.E Crafford, who welcomed everyone present and introduced the guests. He mentioned UNIVEN's

gratitude to the Department of Higher Education and Training (DHET) on support given which has enabled us improve our research profiles with research output increasing by 52% in 2015. He encouraged researchers to develop research culture which will impact positively on growth in research quantity and improvement of research quality for the benefit of communities in the Province and the world at large. Professor GE Ekosse did set the scene of the workshop highlighting on the qualities of excellent leadership in research.



**Top right is the DVC Academic Professor JE Crafford with Research Professor of Human and Social Sciences: Prof M.A Masoga and Mr Jase from NIPMO; followed by Ms J Mokobi from the Office of the Premier for Limpopo Province; Mr T Jase; Mrs T Pillay from NRF; Professor S Moyo from Durban University of Technology; and Research Professor of Mathematics and Natural Sciences: Professor P Bessong making their presentations**



**Professor GE Ekosse and colleagues posing with External Stakeholders**

## **2.7 Research Indaba**

The 2<sup>nd</sup> UNIVEN Research Indaba was held at the EMM Conference Centre, 2 Ten Hotel, Sibasa on Thursday, 21<sup>st</sup> April 2016. The theme of the Research Indaba was *Sustaining Research Growth at UNIVEN*. The Deputy Vice Chancellor Academic, Professor JE Crafford, in his welcoming remarks spoke about the eagerness for UNIVEN researchers and postgraduate students to continually generate knowledge for a better tomorrow. He recognised the presence of all the invited guests, senior management colleagues of UNIVEN, and in particular Deans of Schools and Core Business Directors. He further expressed his gratitude to staff in the Directorate of Research and Innovation for organising the second UNIVEN Research Indaba. Our Vice Chancellor and Principal, Professor Peter Mbat, was among the participants of the Research Indaba and in his opening remarks, he alluded to the geometric growth of research outputs at UNIVEN, and the strategic plans to continually improve on our research thrusts.



**Deputy Vice Chancellor Academic, Professor JE Crafford, welcoming participants**

Externally invited guests who made presentations were the Head: School of Mining, Metallurgy & Chemical Engineering; and Head: Mineral Processing & Technology Research Group, University of Johannesburg (Professor Antoine Mulaba), Chair of Visual Arts, University of South Africa (Dr Nombeko Mpako), and Deputy Director, High End Skills, Department of Science and Technology, Pretoria (Mr Vusi Malele).



**Vice Chancellor and Principal, Professor P Mbatia, giving the opening remarks**

The Director Research and Innovation, Professor Georges Ekosse, spoke on *Current Research Standing at UNIVEN*. He presented figures on growth in research outputs, NRF rated researchers, staff with higher qualifications, special category academics, and

postgraduate students graduating with masters and doctoral degrees. He also presented information on expansion of funding for research and participation at conferences. Professor Ekosse encouraged the postgraduate students not to limit themselves when they carry out their various research thrusts. “As researchers we must share knowledge; knowledge is universal”, said Professor Ekosse. He further said that “when you conduct your research do not limit yourself, you must compete globally and see yourself among the best”.



**Director Research and Innovation, Professor GE Ekosse, making his presentation on *Current Research Standing at UNIVEN***

The first keynote address on *Engaging in Fruitful Research Despite All Odds* was presented by Professor Antoine Mulaba. He noticed with distinction that UNIVEN has been doing well as reflected in the improved research publications outputs, several workshops organised on grant proposals, article writing, research ethics and stress management, postgraduate student gathering, and many others. UNIVEN's links with other institutions including University of Johannesburg has aided the University's advancement in research. Though these successes are recorded, there are a number of challenges that must not be allowed to hinder better performance in research.



**Professor Antoine Mulaba, Head: School of Mining, Metallurgy & Chemical Engineering; and Head: Mineral Processing & Technology Research Group, University of Johannesburg**

Professor Mulaba propounded on the lack of appropriate expertise, and in particular senior researchers to nurture emerging researchers in certain core research areas. He

encouraged participants to make use of all opportunities available through collaboration and to access journals and scientific equipment/instrumentation that may not be available at UNIVEN. In wrapping up his presentation, he made a call for more women to be engaged in research. “We need more women in research, even though there are many barriers in research; we need them (women) to start doing more research”, said Prof Mulaba. Dr Mpako’s presentation on *Coaching and Mentoring in Productive Academic Research* was modified to *Nurturing Giant Killers*. She used the analogy of lions, lionesses and cubs in the development of killer instincts and going after the prey in expressing how emerging and established researchers could continuously improve upon their research prowess.



**Dr Nombeko Mpako, Chair of Visual Arts, University of South Africa**

Mr Vusi Malele, handled SWOT analysis depicting the strength, weaknesses, opportunities and threats of Research Engagement at UNIVEN. Some of the challenges

raised by researchers included shortage of senior supervisors and infrastructure. During the event Mr Malele also had a special session with female researchers and female postgraduate students present on women in Science.



**Mr V Malele conducting SWOT analysis**



**The Vice Chancellor and Principal Prof Peter Mbatia (seated centre) with the Research Indaba delegates and guests**

## **2.8 NRF CEO's VISIT**

The University of Venda was honoured by the visit of the Chief Executive Officer of the National Research Foundation (NRF), Dr M Qhobela on the 3<sup>rd</sup> of June 2016. During his visit, he held two meetings: one with the Vice Chancellor and Principal (Professor Peter Mbatlana), and the second with emerging and established researchers led by the Director Research and Innovation (Professor GE Ekosse). The first meeting took place in the Vice Chancellor's Office, and the second in Research Conference Centre. The purpose of the visit was to meet with the leadership of the university and academics in order to get a sense of understanding of the challenges encountered by UNIVEN in dealing with NRF. Dr Qhobela indicated that NRF has the legislative mandate to promote and support research through funding in order to facilitate knowledge creation, innovation and development of science and technology. He also emphasised that NRF cannot dictate to Universities because each institution is unique with different needs.



**NRF CEO Dr M Qhobela engaging with Vice Chancellor and Principal (Professor P Mbatlana), DVC Academic (Professor JE Crafford), Director Research and Innovation (Professor GE Ekosse) and Manager University Foundation (Dr LR Kone)**

Several questions were asked ranging from recognition of new knowledge disciplines; funding for postgraduate students, postdoctoral fellows, emerging and established researchers; modalities for the allocation of South African Research Chairs Initiative (SARChI) Chairs; National Equipment Programme (NEP); and engagement of UNIVEN researchers in the various review processes and panels. He gave detailed responses to each of the questions and encouraged UNIVEN researchers to continue to press for excellence in research.



**NRF CEO Dr. M Qhobela engaging with the Deans, academics and active researchers**



**NRF CEO Dr M Qhobela (3<sup>rd</sup> from left) and Director of Research & Innovation, Professor GE Ekosse with some of the NRF Rated Researchers and Postgraduates Students**



**NRF CEO Dr M Qhobela (5<sup>th</sup> from left on front row), with Deans, Academics and Active Researchers**



**NRF CEO Dr. M Qhobela and the Director of Research & Innovation, Professor GE Ekosse, academics and active researchers at the Research Conference Center**

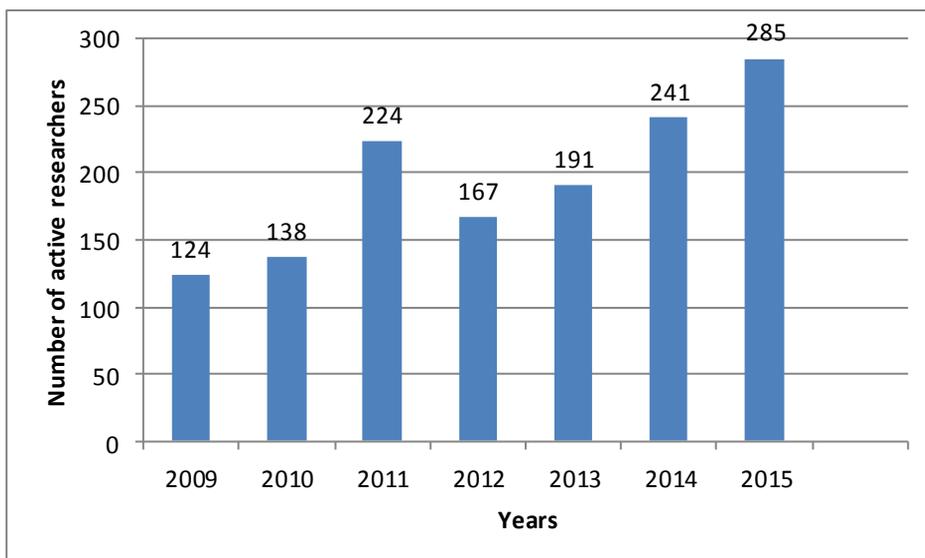
## SECTION THREE

### SUMMARY OF AWARDS

The Vice Chancellor's Awards for Excellence in Research and Innovation are administered in the following five categories:

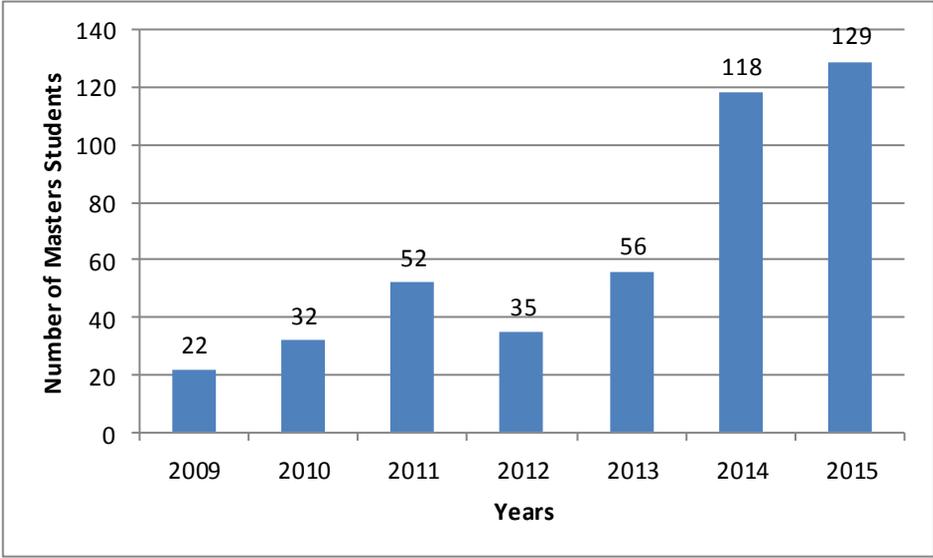
- Active Researchers - 2015
- Post Graduate Students Output -2015
- Research Grants – 2015
- Research Publication Outputs – 2014
- UNIVEN National Research Foundation Rated Researchers - 2016

Figure 3.1 reflects the number of active researchers and growth in number of active researchers at UNIVEN for the period 2009-2015. The number of active researchers at UNIVEN has continued to increase as follows: 2009 = 124, 2010 = 138, 2011 = 224, 2012 = 167, 2013= 191, 2014 =241 and 2015 =285 (Figure 3.1). An anomaly occurred in 2011. In 2015, we had 285 active researchers compared to 241 in 2014. This reflects an 18% increase in number of active researchers from 2014 to 2015. The 285 active researchers are recognised in this ceremony.

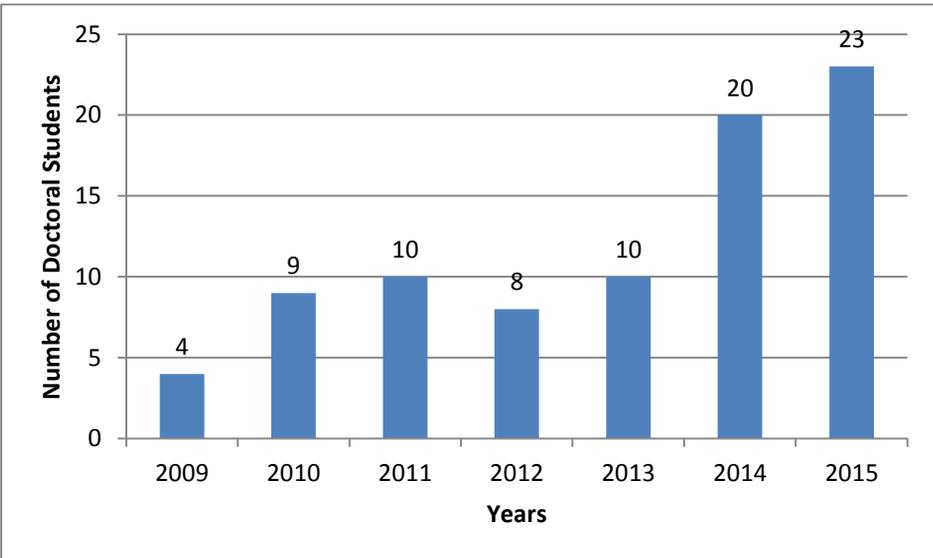


**Figure 3.1: Number of Active Researchers from 2009-2015**

Figures 3.2 and 3.3 reflect Post Graduate Students Output particularly by research at UNIVEN for the period 2009-2015. The masters and doctoral students' outputs have experienced significant growth.



**Figure 3.2: Masters Students output for 2009-2015**



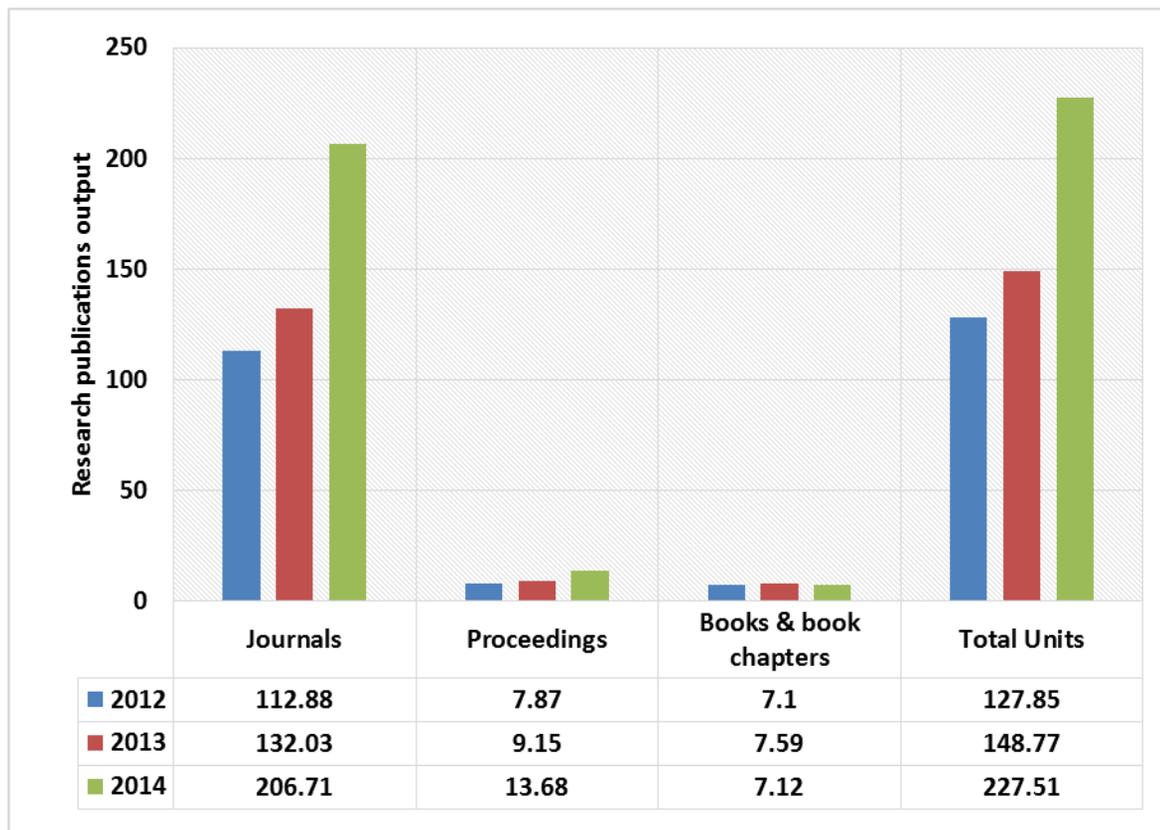
**Figure 3.3: Doctoral students output for 2009-2015**

Table 3.1 depicts research funding. Funding of research projects from external sources for the last three years has systematically increased.

**Table 3.1: Research funding grants in rand for 2013-2015**

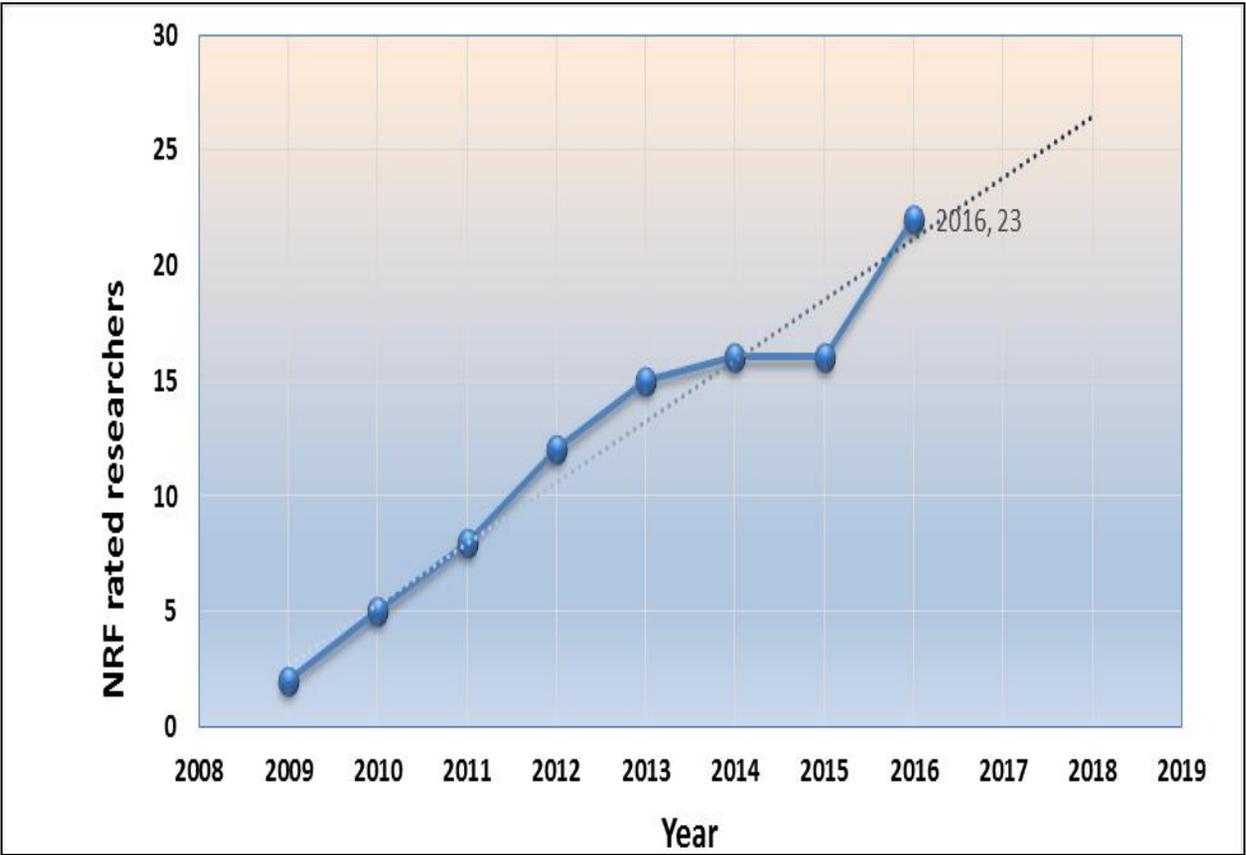
School	2013	2014	2015
Admin	R 553 678.54	R 720 000.00	R2 968 123.21
SAGR	R 1 231 338.60	R 2 478 239.58	R2 356 470.15
SE	R 564 930.00	R 692 200.00	R 645 900.00
SES	R 1 243 600.00	R 2 351 340.00	R 1 296 260.00
SHS	R 894 559.57	R 242 500.00	R 390 000.00
SHSS	R 300 000.00	R 539 000.00	R 60 000.00
SL	R 0.00	R 200 000.00	R 0.00
SMNS	R 10 600 385.37	R 10 877 865.57	R11 481 638.75
SMS	R 0.00	R 0.00	R 0.00
<b>Total</b>	<b>R 15 388 492.08</b>	<b>R 17 858 645.15</b>	<b>R19 198 392.11</b>

Figure 3.5 shows research publications output for the period 2012-2014. UNIVEN was allocated a total of 227.51 units. This is an increase of 78.74 units from the 148.77 units awarded for 2013 publications. The institutional publication trend for all publications (books, conference proceedings, and journal articles) over the past three years (2012-2014) is shown in Figure 3.5. There was an increase of 52.93% in research publications outputs.



**Figure 3.5: UNIVEN Research output units by type of publications for 2012-2014 (Figure from DHET Research Output Report submitted to UNIVEN)**

Figure 3.6 depicts NRF rated researchers at UNIVEN. There has been a steady increase in number of NRF rated researchers per year. Annual numbers of rated researchers are as follows: 2008 = 1, 2009 =2, 2010 =5, 2011 = 8, 2012 = 13, 2013 = 15, 2014 = 16 and 2015 = 17, and in 2016, there are 23.



**Figure 3.6: National Research Foundation Rated Researchers from 2009-2015**

**SECTION FOUR**  
**2015 RESEARCH AWARDS**



**Professor Peter Mbatia**  
**Vice Chancellor and Principal**  
**Making His Opening Remarks at the 2015 Vice Chancellor's Awards Ceremony**

## **INTRODUCTION**

All active researchers are recognised, and colleagues who excel in research receive awards. The categories are as follows:

### **Active in Research in 2015**

- Active Researchers
- Best Overall Researcher
- School with the highest number of active researchers

### **Postgraduate Students Outputs**

- Supervisor with the highest number of Research Masters Students that graduated during May and September 2015
- School with the highest number of research masters Students that graduated during May and September 2015
- Promoter with the highest number of doctoral Students that graduated during May and September 2015
- School with the highest number of doctoral students that graduated during May and September 2015

### **Research Grants**

- Researcher with most external funds received in 2015
- Researchers that attracted more than R500 000.00 external funds in 2015
- School with most external funds received in 2015

### **Research Publication Outputs - 2014**

- Researchers with the most research output in DHET accredited lists of journals for 2014
- Researchers whose Research Publications Output were equal or more than 1.25 units in 2014
- School with the most research output in DHET accredited lists of journals for 2014

### **UNIVEN National Research Foundation Rated Researchers – 2016**

- Award to UNIVEN B rated Researcher

- Awards to UNIVEN C rated Researchers
- Awards to UNIVEN Y rated Researchers

## 4.1 Active Researchers - 2015

All active researchers receive a Merit certificate for acknowledgement for being an active researcher as per definition below.

### Definition of an active researcher

To be considered as an active researcher at UNIVEN, the individual should have achieved at least one of the following eight categories in the period under consideration:

1. Received a grant from RPC for research purposes under niche or non-niche areas in 2015.
2. Received funding for a national or an international conference in 2015.
3. Received funding to submit an article for publication during 2015
4. Received publication funds from RPC for DHET 2014 research incentive.
5. Received external funding for research purposes in 2015.
6. Supervised research masters and doctoral students in May and September 2015.
7. Graduated masters and doctoral students in May and September 2015.
8. Has been an NRF rated researcher or become a newly NRF rated researcher in 2016.

This year, **285** researchers are awarded 2015 Research Merit certificates. The summary details per School, and Administration and Management are given as follows:

### Category 4.1.1: Active researchers

**PRIZE:** Certificate

No:	Title	Surname	Initials	School/Administration and Management
1	Dr	Takalani	TK	Administration and Management
2	Prof	Makondo*	L	Administration and Management
3	Dr	Malatji	KS	Administration and Management
4	Mr	Marhaya	L	Administration and Management
5	Dr	Maphosa*	C	Administration and Management
6	Dr	Masehela	LM	Administration and Management

7	Dr	Mbuvha	TR	Administration and Management
8	Ms	Muhandji	K	Administration and Management
9	Dr	Mutshaeni	HN	Administration and Management
10	Dr	Ndawonde	BG	Administration and Management
11	Dr	Ndebele*	C	Administration and Management
12	Dr	Sikhwari	TD	Administration and Management
13	Mr	Xazela	MWH	Administration and Management
14	Prof	Netshandama	VO	Administration and Management
15	Prof	Crafford	JE	Administration and Management
16	Mr	Netshifhefhe	LP	Administration and Management
17	Mr	Hagenmeier	C	Administration and Management
18	Dr	Obadire	OS	Administration and Management
19	Ms	Mahwasane	NP	Administration and Management
20	Ms	Malima	MB	Administration and Management
21	Dr	Tshitereke	C	Administration and Management
22	Prof	Mbati	P	Administration and Management
23	Prof	Nesamvuni	AE	Administration and Management
24	Prof	Ekosse	GE	Administration and Management
25	Dr	Mavhandu	LG	Administration and Management
26	Ms	Sekgota	WM	Administration and Management
27	Dr	Sekhula	KS	Administration and Management
28	Dr	Zaaiman	JJ	Administration and Management
<b>Total= 28</b>				
1	Prof	Anim	FDK	Agriculture
2	Dr	Baloyi	JJ	Agriculture
3	Prof	Barry	DM	Agriculture
4	Prof	Benyi	K	Agriculture
5	Dr	Beswa	D	Agriculture
6	Prof	Chauke	P.K	Agriculture
7	Dr	Fushai	F	Agriculture
8	Prof	Francis	J	Agriculture
9	Prof	Gwata	ET	Agriculture
10	Prof	Jideani	AIO	Agriculture
11	Dr	Kapila	PF	Agriculture
12	Dr	Kilonzo	BM	Agriculture
13	Prof	Kunjeku	EC	Agriculture
14	Prof	Maliwichi	LL	Agriculture
15	Dr	Manjoro (Mwale)	M	Agriculture
16	Dr	Masipa*	MP	Agriculture
17	Mr	Mashau	ME	Agriculture
18	Dr	Mudau	J	Agriculture
19	Prof	Mchau	GRA	Agriculture
20	Ms	Mongwai	MB	Agriculture
21	Dr	Mzezewa	J	Agriculture
22	Dr	Obiero	JPO	Agriculture
23	Prof	Odhiambo	JJO	Agriculture
24	Prof	Ogola	JBO	Agriculture
25	Ms	Oloo	G	Agriculture
26	Mr	Pfumayaramba	TK	Agriculture
27	Dr	Raidimi	EN	Agriculture
28	Ms	Raseona	AM	Agriculture

29	Mr	Silungwe	H	Agriculture
30	Dr	Tshitangoni	M	Agriculture
<b>Total= 30</b>				
1	Mr	Kaheru	SJM	Education
2	Prof	Kutame	AP	Education
3	Dr	Litshani	NF	Education
4	Ms	Makhwathana	M.R	Education
5	Dr	Marishane*	RN	Education
6	Dr	Mashau	TS	Education
7	Dr	Monobe	RJ	Education
8	Dr	Mpeta	M	Education
9	Prof	Mudzielwana	NP	Education
10	Dr	Mulaudzi	MP	Education
11	Ms	Mulaudzi	O	Education
12	Ms	Mulovhedzi	SA	Education
13	Ms	Muthambi	SK	Education
14	Mr	Ramabulana	LP	Education
15	Dr	Runhare	T	Education
<b>Total = 15</b>				
1	Mr	Chakwizira	J	Environmental Sciences
2	Dr	Amponsah-Dacosta	FA	Environmental Sciences
3	Prof	Anyumba	G	Environmental Sciences
4	Mr	Baxter	RM	Environmental Sciences
5	Prof	Bikam	PB	Environmental Sciences
6	Mr	Binala	J	Environmental Sciences
7	Mr	Chikoore	H	Environmental Sciences
8	Mr	Dondofema	F	Environmental Sciences
9	Prof	Gitari	WM	Environmental Sciences
10	Mr	Gondo	T	Environmental Sciences
11	Dr	Ingwani	E	Environmental Sciences
12	Mr	Kori	E	Environmental Sciences
13	Ms	Makungo	R	Environmental Sciences
14	Mr	Mhlongo	SE	Environmental Sciences
15	Mr	Mokgoebo	MJ	Environmental Sciences
16	Dr	Mudau	NV	Environmental Sciences
17	Prof	Musyoki	A	Environmental Sciences
18	Mr	Muzerengi	C	Environmental Sciences
19	Mr	Nemapate	N	Environmental Sciences
20	Dr	Nembudani	ME	Environmental Sciences
21	Dr	Nethengwe	NS	Environmental Sciences
22	Mr	Nkuna	TR	Environmental Sciences
23	Prof	Odiyo	JO	Environmental Sciences
24	Prof	Ogola	JS	Environmental Sciences
25	Dr	Sinthumule	NI	Environmental Sciences
26	Ms	Sonqishe*	TM	Environmental Sciences
27	Dr	Stam	EM	Environmental Sciences
28	Mr	Steyn	JN	Environmental Sciences
29	Dr	Gumbo	JR	Environmental Sciences
30	Dr	Kataka	MO	Environmental Sciences
31	Dr	Kundu	PM	Environmental Sciences

32	Prof	Odhiambo	BDO	Environmental Sciences
<b>Total= 32</b>				
1	Prof	Akinsola	H.A	Health Sciences
2	Prof	Amusa	LO	Health sciences
4	Dr	Goon*	DT	Health Sciences
6	Prof	Khoza	L.B	Health Sciences
7	Prof	Lebese	RT	Health Sciences
8	Mr	Mabapa	NS	Health Sciences
9	Ms	Mabunda	JT	Health Sciences
10	Mr	Mahopo	TC	Health sciences
11	Dr	Makatu	M	Health Sciences
12	Dr	Maluleke	M	Health Sciences
13	Dr	Mamabolo*	RL	Health Sciences
14	Ms	Mandiwana	TC	Health Sciences
15	Mr	Manganye	BS	Health Sciences
16	Mr	Manganye	L	Health Sciences
17	Prof	Maputle	MS	Health Sciences
18	Prof	Mashamba	T	Health Sciences
19	Dr	Mashau	NS	Health Sciences
21	Ms	Masia	AT	Health Sciences
20	Ms	Matshovhana	K	Health Sciences
21	Ms	Mbhatsani	VH	Health Sciences
22	Ms	Mohlala	M	Health Sciences
23	Mr	Motadi	SA	Health Sciences
24	Ms	Mphephu	KE	Health Sciences
25	Ms	Maphula	A	Health Sciences
26	Dr	Mudhovozi	P	Health Sciences
27	Mr	Mugwedi	NP	Health Sciences
28	Ms	Mulondo	AS	Health Sciences
29	Mr	Muluvhu	TC	Health Sciences
30	Dr	Mushaphi	LF	Health sciences
31	Ms	Mushwana	MD	Health Sciences
32	Ms	Muyahalo	JS	Health Sciences
33	Dr	Ndou	ND	Health Sciences
34	Dr	Nemathaga	LH	Health Sciences
35	Dr	Nesamvuni	CN	Health Sciences
36	Prof	Netshikweta	ML	Health Sciences
37	Ms	Netshisaulu	KG	Health Sciences
38	Prof	Olukoga*	IA	Health Sciences
39	Ms	Raliphaswa	NS	Health Sciences
40	Dr	Ramakuela	NJ	Health Sciences
41	Dr	Ramathuba	DU	Health Sciences
42	Ms	Rasifudi	AD	Health sciences
43	Dr	Shilubane	NH	Health Sciences
44	Dr	Takalani	J	Health Sciences
45	Ms	Tshililo	AR	Health Sciences
46	Dr	Tshitangano	TG	Health Sciences
47	Ms	Tsweleng*	LM	Health Sciences
48	Dr	Tugli	A.K	Health Sciences
<b>Total = 48</b>				

1	Dr	Babane	MT	Human and Social Sciences
2	Ms	Baker	SL	Human and Social Sciences
3	Mr	Chari	TJ	Human and Social Sciences
4	Dr	Chauke	MT	Human and Social Sciences
5	Dr	Dube	B	Human and Social Sciences
6	Dr	Dzimiri	P	Human and Social Sciences
7	Dr	Hlungwani	MC	Human and Social Sciences
8	Dr	Kaburise	P	Human and Social Sciences
9	Dr	Klu	EK	Human and Social Sciences
10	Dr	Lambani	MN	Human and Social Sciences
11	Ms	Mabale	D	Human and Social Sciences
12	Prof	Makgopa	MA	Human and Social Sciences
13	Ms	Malele	NM	Human and Social Sciences
14	Dr	Maluleke	MJ	Human and Social Sciences
15	Ms	Maluleke	MG	Human and Social Sciences
16	Dr	Manase*	I	Human and Social Sciences
17	Prof	Mapaya	MG	Human and Social Sciences
18	Mr	Maphiri -Makananise	FO	Human and Social Sciences
19	Dr	Maqubela	LN	Human and Social Sciences
20	Dr	Mashau	GS	Human and Social Sciences
21	Mr	Masilela	PJ	Human and Social Sciences
22	Mr	Masipa	MJ	Human and Social Sciences
23	Prof	Masoga	MA	Human and Social Sciences
24	Ms	Mathabi	M	Human and Social Sciences
25	Dr	Matshidze	P	Human and Social Sciences
26	Dr	Mogorosi	LD	Human and Social Sciences
27	Prof	Molapo	RR	Human and Social Sciences
28	Ms	Morwe	K.G	Human and Social Sciences
29	Mr	Motlhaka	HA	Human and Social Sciences
30	Dr	Mphasha	LE	Human and Social Sciences
31	Dr	Mudau	TJ	Human and Social Sciences
32	Dr	Mulaudzi	LMP	Human and Social Sciences
33	Ms	Mukwevho	MH	Human and Social Sciences
34	Ms	Mutele	C	Human and Social Sciences
35	Prof	Musehane	NM	Human and Social Sciences
36	Dr	Ndlovu	I	Human and Social Sciences
37	Dr	Neeta	N	Human and Social Sciences
38	Mr	Nengome	AZ	Human and Social Sciences
39	Ms	Nthambeleni	M	Human and Social Sciences
40	Dr	Netshisaulu	NC	Human and Social Sciences
41	Dr	Phaswana	NE	Human and Social Sciences
42	Ms	Phiri	CM	Human and Social Sciences
43	Mr	Radzilani	ET	Human and Social Sciences
44	Prof	Rafapa	LJ	Human and Social Sciences
45	Dr	Ramaite-Mafadza	PE	Human and Social Sciences
46	Dr	Raphalalani	MR	Human and Social Sciences
47	Dr	Raphalalani	TD	Human and Social Sciences
48	Dr	Raselekoane	NR	Human and Social Sciences
49	Prof	Sewlall	H	Human and Social Sciences
50	Ms	Shokane	AL	Human and Social Sciences
51	Ms	Sibawu	N	Human and Social Sciences

52	Dr	Thobejane	TD	Human and Social Sciences
53	Dr	Tshifhumulo	R	Human and Social Sciences
54	Mr	Tshithuke	SA	Human and Social Sciences
55	Dr	Zikhali*	PTS	Human and Social Sciences
<b>Total = 55</b>				
1	Dr	Jegede	AO	Law
2	Ms	Lansink	A	Law
3	Ms	Letuka	PP	Law
4	Mr	Manganyi	FM	Law
5	Ms	Mokoena	UCA	Law
6	Prof	Nwafor	AO	Law
7	Adv	Selala	KJ	Law
8	Prof	Vukor-Quarshie	GNK	Law
<b>Total = 8</b>				
1	Prof	Babalola	SS	Management Sciences
2	Mr	Chobonda	T	Management Sciences
3	Mr	Dafuleya	G	Management Sciences
4	Mr	Dagume	MA	Management Sciences
5	Prof	Gyekye	AB	Management Sciences
6	Prof	Kadyamatimba	A	Management Sciences
7	Mr	Khashane	KE	Management Sciences
8	Prof	Khwashaba	MP	Management Sciences
9	Prof	Mafunisa	JM	Management Sciences
10	Mr	Madzvamuse	SE	Management Sciences
11	Mr	Mahole	E	Management Sciences
12	Mr	Manzira	FM	Management Sciences
13	Mr	Munyoka	W	Management Sciences
14	Mr	Ndlovu	S	Management Sciences
15	Mr	Nekhavhambe	MM	Management Sciences
16	Ms	Nkondo	LG	Management Sciences
17	Ms	Nemushungwa	A	Management Sciences
18	Mr	Nenzhelele	MA	Management Sciences
19	Ms	Nethengwe	T	Management Sciences
20	Prof	Oseifuah	EK	Management Sciences
21	Dr	Setati	TS	Management Sciences
22	Mr	Sumbana	F	Management Sciences
23	Mr	Tshithavhani	ND	Management Sciences
24	Mr	Tutani	D	Management Sciences
25	Prof	Vermaak	NJ	Management Sciences
26	Mr	Zindiye	A	Management Sciences
<b>Total=26</b>				
1	Prof	Bhat*	RB	Mathematical and Natural Science
2	Prof	Taylor	PJ	Mathematical and Natural Science
3	Ms	Maphiri	AD	Mathematical and Natural Sciences
4	Prof	Barnhoorn	IEJ	Mathematical and Natural Sciences
5	Dr	Bere	A	Mathematical and Natural Sciences
6	Prof	Bessong	P	Mathematical and Natural Sciences
7	Mr	Dzawo	G	Mathematical and Natural Sciences
8	Prof	Foord	SH	Mathematical and Natural Sciences
9	Prof	Fouche	PSO	Mathematical and Natural Sciences

10	Prof	Hahn	N	Mathematical and Natural Sciences
11	Prof	Garira	W	Mathematical and Natural Sciences
12	Mr	Isong*	B	Mathematical and Natural Sciences
13	Dr	Kirui	JK	Mathematical and Natural Sciences
14	Dr	Kyei	KA	Mathematical and Natural Sciences
15	Dr	Legodi	MA	Mathematical and Natural Sciences
16	Mr	Ligavha-Mbelengwa	MH	Mathematical and Natural Sciences
17	Mr	Madzima	K	Mathematical and Natural Sciences
18	Mr	Magwede	K	Mathematical and Natural Sciences
19	Dr	Maluta	NE	Mathematical and Natural Sciences
20	Prof	Mammino	L	Mathematical and Natural Sciences
21	Ms	Masebe	T	Mathematical and Natural Sciences
22	Mr	Masevhe	NA	Mathematical and Natural Sciences
23	Ms	Mathebula	D	Mathematical and Natural Sciences
24	Mr	Mbodila	M	Mathematical and Natural Sciences
25	Mr	Mojapelo	PEL	Mathematical and Natural Sciences
26	Ms	Mokganya	MG	Mathematical and Natural Sciences
27	Prof	Moodley	YM	Mathematical and Natural Sciences
28	Dr	Moyo	S	Mathematical and Natural Sciences
29	Ms	Mulaudzi	TS	Mathematical and Natural Sciences
30	Dr	Ndogmo	JC	Mathematical and Natural Sciences
31	Ms	Netshiozwi	NJ	Mathematical and Natural Sciences
32	Prof	Potgieter	N	Mathematical and Natural Sciences
33	Prof	Ramaite	IDI	Mathematical and Natural Sciences
34	Prof	Samie	A	Mathematical and Natural Sciences
35	Prof	Sankaran	V	Mathematical and Natural Sciences
36	Mr	Schoeman	CS	Mathematical and Natural Sciences
37	Prof	Shateyi	S	Mathematical and Natural Sciences
38	Mr	Soganile	N	Mathematical and Natural Sciences
39	Dr	Tinarwo	D	Mathematical and Natural Sciences
40	Dr	Traore	AN	Mathematical and Natural Sciences
41	Prof	Tshisikhawe	MP	Mathematical and Natural Sciences
42	Prof	Van Ree	T	Mathematical and Natural Sciences
43	Prof	Shonhai	A	Mathematics and Natural Science

**Total=43**

**Total Number of Active Researchers = 285**

**\* No more in service at UNIVEN**

#### **Category 4.1.2: Best overall researcher**

##### **PRIZE:**

- R10 000.00 Honorarium,
- Framed Certificate, and

- Trophy

The award for best overall researcher is awarded to:

- Professor MS Maputle

Seven other researchers (Professors Ekosse, Samie, Khoza, Jideani, Shonhai, Shateyi and Foord) are commended.

No	Nominee	Criteria	School/Administration and Management
1	<b>Prof MS Maputle</b>	<b>8/8</b>	<b>Health Sciences</b>
2	Prof GIE Ekosse	7/8	Research and Innovation
3	Prof A Samie	7/8	Mathematical and Natural Sciences
4	Prof LB Khoza	7/8	Health Sciences
5	Prof AIO Jideani	7/8	Agriculture
6	Prof A Shonhai	7/8	Mathematical and Natural Sciences
7	Prof S Shateyi	7/8	Mathematical and Natural Sciences
8	Prof SH Foord	7/8	Mathematical and Natural Sciences

- **Category 4.1.3: School with the highest number of active researchers**

**PRIZE:**

- Certificate, and
- Trophy

The award for School with the highest number of active researchers

- School of Human and Social Sciences

The Schools of Health Sciences, and Mathematical and Natural Sciences are commended.

No	Number of Active Researchers	Schools/Administration and Management
1	<b>55</b>	<b>Human and Social Sciences</b>
2	48	Health Sciences
3	43	Mathematical and Natural Sciences

4	32	Environmental Sciences
5	30	Agriculture
6	28	Administration and Management
7	26	Management Sciences
8	15	Education
9	8	Law

## 4.2 Post Graduate Outputs - 2015

### Category 4.2.1 - Supervisor with the highest number of research Masters Students that graduated during May and September 2015

#### PRIZE:

- R 5000.00 Honorarium,
- Framed Certificate,
- Trophy, and
- R60 000.00 towards an International Conference

The award for Supervisor with the highest number of research Masters Students that graduated during May and September 2015 is given to the following four colleagues:

- Prof JO Odiyo
- Prof DM Barry
- Prof GNK Vukor-Quarshie
- Mr SA Tshithuke

Professor Bessong and Dr Nethengwe are commended.

No	Nominee	Number of Students	School
1	Prof JO Odiyo	4	Environmental Sciences
2	Prof DM Barry	4	Agriculture
3	Prof GNK Vukor-Quarshie	4	Law
4	Mr SA Tshithuke	4	Human and Social Sciences
5	Prof PO Bessong	3	Mathematical and Natural Sciences
6	Dr NS Nethengwe	3	Environmental Sciences

**Category 4.2.2 - School with the highest number of research Masters Students that graduated during May and September 2015**

**PRIZE:**

- Certificate, and
- Trophy

The award for the School with the highest number of research Masters Students that graduated during May and September 2015 is as follows:

- School of Human and Social Sciences

The Schools of Environmental Sciences, Mathematics and Natural Sciences, and Agriculture are commended.

<b>No</b>	<b>Most Masters Graduates</b>	<b>Schools/Administration and Management</b>
<b>1</b>	<b>23</b>	<b>Human and Social Sciences</b>
2	15	Environmental Sciences
3	15	Mathematical and Natural Sciences
4	14	Agriculture
5	8	Education
6	7	Health Sciences
7	4	Law
8	1	Management Sciences
<b>Total</b>	<b>87</b>	

**Category 4.2.3 - Promoter with the highest number of Doctoral Students that graduated during May and September 2015**

**PRIZE:**

- R5000.00 Honorarium,
- Certificate,
- Trophy, and
- R60 000.00 towards an International Conference

The award for the Promoter with the highest number of research Doctoral students that graduated during May and September 2015 is as follows:

- Prof AIO Jideani

- Dr MP Mulaudzi
- Dr HN Mutshaeni
- Dr I Manase

No	Nominee	Number of Students	School
1	Prof AIO Jideani	2	Agriculture
2	Dr MP Mulaudzi	2	Education
3	Dr HN Mutshaeni	2	Education
4	Dr I Manase	2	Human and Social Sciences

**Category 4.2.4 - School with the highest number of Doctoral students that graduated during May and September 2015**

**PRIZE:**

- Certificate, and
- Trophy

The award for the School with the highest number of Doctoral students that graduated during May and September 2015 is as follows:

- School of Human and Social Sciences

The Schools of Agriculture and Education are commended

No	Most Doctoral Graduates	School/Administration and Management
<b>1</b>	<b>10</b>	<b>Human and Social Sciences</b>
2	5	Agriculture
3	5	Education
4	1	Environmental Sciences
5	1	Health Sciences
6	1	Mathematical and Natural Sciences
7	-	Law
8	-	Management Sciences
<b>Total</b>	<b>23</b>	

## 4.3 Research Grants - 2015

### Category 4.3.1 - Researcher with most external funds received in 2015

#### PRIZE:

- R5000.00 Honorarium,
- Certificate,
- Trophy, and
- R60 000.00 towards an International Conference

The award for Researcher with most external funds received in 2015 is as follows:

- Professor P Bessong

No	Nominee	Amount	Schools/Administration and Management
1	Professor P Bessong	R 7 437 483.94	Mathematical and Natural Sciences

### Category 4.3.2 - Researchers that attracted more than R500 000.00 external funds in 2015

#### PRIZE:

- Framed Certificate

The award for Researchers that attracted more than R500 000.00 external funds in 2015 is as follows:

- Professor GIE Ekosse
- Professor N Potgieter
- Professor PJ Taylor
- Professor DM Barry
- Professor A Shonhai

No	Nominee	Amount	Schools/Administration and Management
1	Professor GIE Ekosse	R2 546 000.00	Administration and Management
2	Professor N Potgieter	R1 662 361.36	Mathematical and Natural Sciences
3	Professor PJ Taylor	R997 024.00	Mathematical and Natural Sciences
4	Professor DM Barry	R665 281.83	Agriculture
5	Professor A Shonhai	R606 302.35	Mathematical and Natural Sciences

### Category 4.3.3 – School with most external funds received in 2015

#### PRIZE:

- Certificate, and
- Trophy

The award for the School with the most external fund received is as follows:

- School of Mathematical and Natural Sciences

Administration and Management and School of Agriculture are commended

No	External Funds	Schools/Administration and Management
<b>1</b>	<b>R11 481 638.75</b>	<b>Mathematical and Natural Sciences</b>
2	R2 968 123.21	Administration and Management
3	R2 356 470.15	Agriculture
4	R1 296 260.00	Environmental Sciences
5	R645 900.00	Education
6	R390 000.00	Health Sciences
7	R60 000.00	Human and Social Sciences
8	R0.00	Law
9	R0.00	Management Sciences
<b>Total</b>	<b>R19 198 392.11</b>	

## 4.4 Research Publication Outputs - 2014

**Category 4.4.1** – Researchers with the most research output in DHET accredited lists of journals for 2014.

**PRIZE:**

- R5000.00 Honorarium,
- Certificate,
- Trophy, and
- R60 000.00 towards an International Conference.

The award for Researchers with the most research output in DHET accredited lists of journals for 2014:

- Prof S Shateyi

Professor Khoza, Dr Klu, Professor Mafunisa, and Dr Tshitangano are commended.

No	Nominee	Unit	School
1	Prof S Shateyi	9.01	Mathematical and Natural Sciences
2	Prof LB Khoza	4.78	Health Sciences
3	Dr EK Klu	4.08	Human and Social Sciences
4	Prof ML Mafunisa	4.00	Management Sciences
5	Dr TG Tshitangano	3.80	Health Sciences

**Category 4.4.2** – Researchers whose Research Publications Output were equal or more than 1.25 units in 2014

**PRIZE:**

- R60 000 towards an International Conference and certificate

No	Nominee	Unit	Schools/Administration and Management
1	Prof S Shateyi *	9.01	Mathematical and Natural Sciences
2	Prof LB Khoza	4.78	Health Sciences

3	Dr EK Klu	4.08	Human and Social Sciences
4	Prof ML Mafunisa	4.00	Management Sciences
5	Dr TG Tshitangano	3.80	Health Sciences
6	Prof MS Maputle	3.61	Health Sciences
7	Prof AO Nwafor	3.50	Law
8	Dr AK Tugli	3.42	Health Sciences
9	Prof LO Amusa	3.22	Health Sciences
10	Prof TD Thobejane	3.12	Human and Social Sciences
11	Prof RT Lebese	3.07	Health Sciences
12	Dr DU Ramathuba	3.02	Health Sciences
13	Prof MG Mapaya	3.00	Human and Social Sciences
14	Dr TS Mashau	3.00	Education
15	Prof ML Netshikweta	2.95	Health Sciences
16	Dr M Makatu	2.83	Health Sciences
17	Mr T Chari	2.37	Human and Social Sciences
18	Prof A Samie	2.34	Mathematical and Natural Sciences
19	Dr TD Sikhwari	2.25	CHETL
20	Prof FDK Anim	2.08	Agriculture
21	Prof L Mammino	2.07	Mathematical and Natural Sciences
22	Dr NS Mashau	2.02	Health Sciences
23	Dr HN Mutshaeni	2.00	CHETL
24	Prof PJ Taylor	1.99	Mathematical and Natural Sciences
25	Prof E Oseifuah	1.9	Management Science
26	Prof HA Akinsola	1.92	Health Sciences
27	Dr NH Shilubane	1.90	Health Sciences
28	Dr WM Gitari	1.89	Environmental Sciences
29	Dr P Kaburise	1.83	Human and Social Sciences
30	Dr P Dzimiri	1.75	Human and Social Sciences
31	Dr NCK Neeta	1.67	Human and Social Sciences
32	Prof GIE Ekosse	1.66	Research and Innovation
33	Prof VO Netshandama	1.56	Community Engagement
34	Dr NJ Ramakuela	1.40	Health Sciences
35	Prof LL Maliwichi	1.37	Agriculture
36	Mr W Munyoka	1.33	Management Sciences
37	Prof T Van Ree	1.33	Mathematical and Natural Sciences
38	Prof PO Bessong	1.30	Mathematical and Natural Sciences
39	Dr J Chakwizira	1.29	Environmental Sciences
40	Dr M Masehela	1.25	CHETL

\*Is receiving award for Researchers with the most research output in DHET accredited lists of journals for 2014

**Category 4.4.3** – School with the most research output in DHET accredited lists of journals for 2014

**PRIZE:**

- Certificate, and
- Trophy

The award for School with the most research output in DHET accredited lists of journals for 2014 is as follows:

- School of Health Sciences is awarded the prize

Administration and Management, and School of Human and Social Sciences are commended.

No	Research Output	Schools/Administration and Management
1	52.34	Health Sciences
2	33.66	Administration and Management
3	30.07	Human and Social Sciences
4	29.02	Mathematical and Natural Sciences
5	14.92	Management Sciences
6	12.50	Education
7	9.96	Agriculture
8	8.58	Environmental Sciences
9	4.83	Law

## 4.5 UNIVEN NATIONAL RESEARCH FOUNDATION RATED RESEARCHERS - 2016

### Category 4.5.1 UNIVEN B Rated Researcher

**Prize**

- R70 000 for which 10% is cash and the rest used for research

- Certificate

No	Name	Race	Gender	Rating	Incentive	10%
1	Professor PJ Taylor	White	Male	<b>B3</b>	R 70 000	R 7 000

#### Category 4.5.2 UNIVEN C Rated Researcher

##### Prize

- R50 000 for which 10% is cash and the rest used for research
- Certificate

No	Name	Race	Gender	Rating	Incentive	10%
1	Professor YM Moodley	Indian	Male	<b>C1</b>	R 50 000	R 5 000
2	Professor GE Ekosse	Black	Male	<b>C2</b>	R 50 000	R 5 000
3	Professor H Sewlall	Indian	Male	<b>C2</b>	R50 000	R 5 000
4	Dr JC Ndogmo	Black	Male	<b>C2</b>	R 50 000	R 5 000
5	Professor A Samie	Black	Male	<b>C2</b>	R 50 000	R 5 000
6	Professor PA Mbatl	Black	Male	<b>C3</b>	R 50 000	R 5 000
7	Professor PO Bessong	Black	Male	<b>C3</b>	R 50 000	R 5 000
8	Professor W Garira	Black	Male	<b>C3</b>	R 50 000	R 5 000
9	Professor ET Gwata	Black	Male	<b>C3</b>	R 50 000	R 5 000
10	Professor AIO Jideani	Black	Male	<b>C3</b>	R 50 000	R 5 000
11	Professor LB Khoza	Black	Female	<b>C3</b>	R 50 000	R 5 000
12	Professor N Potgieter	White	Female	<b>C3</b>	R 50 000	R 5 000
13	Professor A Shonhai	Black	Male	<b>C3</b>	R 50 000	R 5 000

14	Professor S Maputle	Black	Female	<b>C3</b>	R 50 000	R 5 000
15	Professor G Mapaya	Black	Male	<b>C3</b>	R 50 000	R 5 000
16	Professor WM Gitari	Black	Male	<b>C3</b>	R 50 000	R 5 000
17	Professor S Babalola	Black	Male	<b>C3</b>	R 50 000	R 5 000
18	Professor MA Makgopa	Black	Male	<b>C3</b>	R 50 000	R 5 000

### Category 4.5.3 UNIVEN Y Rated Researcher

#### Prize

- R30 000 for which 10% is cash and the rest used for research
- Certificate

No	Name	Race	Gender	Rating	Incentive	10%
1	Professor S Shateyi	Black	Male	<b>Y2</b>	R 30 000	R 3 000
2	Professor SH Foord	White	Male	<b>Y2</b>	R 30 000	R 3 000
3	Dr I Ndlovu	Black	Male	<b>Y2</b>	R 30 000	R 3 000
4	Dr M Mwale	Black	Female	<b>Y2</b>	R 30 000	R 3 000

## SECTION FIVE

### PROFILES OF NRF RATED RESEARCHERS AT UNIVEN



**Professor Peter John Taylor**

I am a mammalogist and evolutionary biologist specialising in the systematics, ecology, conservation and ecosystem services and disservices of small mammals, in particular rodents, shrews, bats and carnivores. I obtained my PHD degree from UKZN in 1991 on the infraspecific systematics of the yellow mongoose and was employed as Curator of Mammals and Acting Director at the Durban Natural Science Museum (DNSM) from 1989 to 2010. Since February 2010, I have been employed as Associate Professor (2010-2012), Professor (2012-present) and South African Research Chair on “Biodiversity Value & Change in the Vhembe Biosphere Reserve” (2013 to present) at the University of Venda.

During my phase at the Museum (1989-2010), I built up the DNSM mammal collection from 770 to over 12,000 specimens and this formed the basis of four scientific books authored or co-authored by me on African small mammals (1998), bats (2000 and 2010) and rodents (2015). I also co-founded (in 1994) and developed a public bat interest group (Bats KZN) to further bat conservation in South Africa that continues successfully today. Since moving to the University of Venda in 2010, I developed new research interests in applied aspects of biodiversity science including ecologically-based rodent management (EBRM), biological control of macadamia pests by bats and the impacts of climate change on Afromontane small mammals. I have been actively involved in three successful international EBRM projects led by the Natural Resources Institution in Greenwich (UK), RatZooMan ([www.nri.org/ratzooman](http://www.nri.org/ratzooman)), Ecorat ([www.nri.org/ecorat](http://www.nri.org/ecorat)) and Stoprats ([www.nri.org/stoprats](http://www.nri.org/stoprats)). This change in my research direction from predominantly pure to predominantly applied biodiversity science culminated in my appointment to the SARChI Chair on Biodiversity Value & Change in the Vhembe Biosphere Reserve in September 2013. The Chair appointment coincided with the inception of a large international German-funded agroecological project under the SPACES (Science Partnerships for the

Assessment of Complex Earth System Processes) consortium, entitled “Limpopo Living Landscapes”. I provided critical input into the original conception and drafting of the application for this project, and I am currently leading the sub-project entitled “Functional Biodiversity”.

I serve on the editorial board of four international scientific journals and have been elected to the boards of several scientific societies including the International Federation of Mammalogists (Board of Directors: 2008-2013), IUCN Species Survival Group Specialist Groups on Chiroptera (2001-2003) and Non Volant Small Mammals (2009-present), the Southern African Society of Systematic Biology (Founder Member and Executive Council: 2005-present), the Zoological Society of Southern Africa (President: 2010-2012), the Bat Interest Group of KwaZulu-Natal (Founder and Life Member) and the South African Council for Natural Scientific Professions, SACNASP. Based on my work on biological control of insect pests of macadamia, I was awarded the Limpopo Agriculturalist of the Year Award in 2012. I have authored four scientific books and over 130 peer-reviewed journal articles, book chapters and conference proceedings. I have successfully supervised or co-supervised 12 MSc and 8 PHD degrees. I have reviewed papers for 30 scientific journals, almost all of them international and I have examined postgraduate theses for 11 universities in South Africa, France and Madagascar. My H-index is currently 18 based on ISI and 23 based on Google Scholar.

### **Selected research outputs**

1. **Taylor, P. J.**, Munyai, A., Gaigher, I., Baxter, R. 2015. Afromontane small mammals do not follow the hump-shaped rule: elevational variation in a tropical biodiversity hotspot (Soutpansberg Mountains, South Africa). *Journal of Tropical Ecology* 31 (1): 37-48. <http://dx.doi.org/10.1017/S0266467414000613>
2. Dalton, D. L., Linden, B., Wimberger, K., Nupen, L., Tordiffe, A. S. W., **Taylor, P. J.**, Madisha, M. T. & Kotze, A. 2015. New insights into samango monkey speciation in South Africa. *PLoS ONE*. 10(3): e0117003. doi:10.1371/journal.pone.0117003
3. **Taylor, P. J.**, Nengovhela, A., Linden, J. & Baxter, R. M. 2015. Past, present and future distribution of Afromontane rodents (Muridae: *Otomys*) reflect climate-change predicted biome changes. *Mammalia*. DOI 10.1515/mammalia-2015-0033.
4. Maas, B., Karp, D. S., Bumrungsri, S., Darras, K., Gonthier, D., Huang, J. C.-C., Lindell, C. A., Maine, J., Mestre, L., Michel, N. L., Morrison, E. B., Perfecto, I., Philpott, S. M., Sekercioglu, C. H., Silva, R. M., **Taylor, P. J.**, Tschardtke, T., Van Bael, S. A.,

- Whelan, C. J., Williams-Guillén, K. 2015. Bird and bat predation services in tropical forests and agroforestry landscapes. *Biological Reviews*. doi: 10.1111/brv.12211.
5. Cotterill, F. P. D.; **Taylor P. J.**, Gippoliti, S., Bishop, J. M., Groves, C. P. 2014. Why one century of phenetics is enough: response to 'Are there really twice as many bovid species as we thought?' *Systematic Biology* 63: 819-832; doi: 10.1093/sysbio/syu003
  6. Pio, D. V.,Engler, R.Linder, P., Monadjem, A.,Cotterill, F. P. D.,**Taylor, P.**,Price, B.,Villet, M., Salamin, N.& Guisan, A. 2014. Climate change effects on animal and plant phylogenetic diversity in southern Africa. *Global Change Biology* 20: 1538-1549, doi:10.1111/gcb.12524.
  7. **Taylor, P. J.**, Maree, S., Cotterill,F. P. D.,Missoup, A. D.,Nicolas, V. Denys, C. 2014. Molecular and morphological evidence for a Pleistocene radiation of laminate-toothed rats (*Otomys*: Rodentia) across a volcanic archipelago in equatorial Africa. *Biological Journal of the Linnean Society* 113: 320-344.
  8. **Taylor, P. J.**, Monadjem, A. and Steyn, J. N. 2013. Seasonal patterns of habitat use by insectivorous bats in a subtropical African agro-ecosystem dominated by macadamia orchards. *African Journal of Ecology* 51: 552-561.
  9. **Taylor , P. J.**, Downs, S., Monadjem, A., Eiseb, S. J., Mulungu, L. S., Massawe, A. W., Mahlaba, T. A., Kirsten, F., Von Maltitz, E., Malebane, P., Makundi, R. H, Lamb, J.,Belmain, S. R. 2012. Experimental treatment-control studies of ecologically-based rodent management in Africa: balancing conservation and pest management. *Wildlife Research* 39: 51-61.
  10. **Taylor, P. J.**, Stoffberg, S,Monadjem, A,Schoeman, M. C. Bayliss, J. and Cotterill, F. P. D. 2012. Four new bat species (*Rhinolophus hildebrandtii* complex) reflect Plio-Pleistocene divergence of dwarfs and giants across an Afromontane Archipelago. PLoS ONE 7(9): e41744. doi:10.1371/journal.pone.0041744
  11. Bastos, A. D. S, Nair, D.,**Taylor, P. J.**, Brettschneider, H.,Kirsten, F., Mostert, M. E., von Maltitz, E., Lamb, J. M., van Hooft, P., Belmain, S. R., Contrafatto, G., Downs, S.& Chimimba, C. T. 2011. Genetic monitoring detects an overlooked cryptic species and reveals the diversity and distribution of three invasive *Rattus* congeners in south Africa. *BMC Genetics*12:26 doi:10.1186/1471-2156-12-26.
  12. **Taylor, P. J.**, Maree, S., van Sandwyk, J. Kerbis Peterhans, J. C. Stanley, W. T., Verheyen, E., Kaliba, P. Verheyen, W. Kaleme, P. & N. C. Bennett. 2009. Speciation mirrors geomorphology and palaeoclimatic history in African laminate-toothed rats

- (Muridae: Otomyini) of the *Otomys denti* and *O. lacustris* species-complexes in the “Montane Circle” of East Africa. *Biological Journal of the Linnean Society* 96: 913-941.
13. **Taylor, P. J.**, Arntzen, L., Hayter, M. Iles, M., Frean, J., & Belmain, S. R. 2008. Understanding and managing sanitary risks due to rodent zoonoses in an African city: beyond the Boston Model. *Integrative Zoology* 3: 38-50.
  14. Veron, G., Colyn, M., Dunham, A. E., **Taylor, P.** & Gaubert, P. 2004. Molecular systematics and origin of sociality in mongooses (Herpestidae, Carnivora). *Molecular Phylogenetics and Evolution* 30: 582-698
  15. Mullin, S. K. and **Taylor, P. J.** 2002. The effects of parallax on geometric morphometric data. *Computers in Biology and Medicine* 32(6):455-464.
  16. **Taylor, P. J.** 2000. Patterns of chromosomal variation in southern African rodents. *Journal of Mammalogy* 81 (2): 317-331.

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### **Professor Yoshan Moodley**

Prof Yoshan Moodley is a South African scientist. He was educated in South Africa and New Zealand, and obtained his PhD in Molecular Ecology in 2003 from the University of Cape Town. For the next 12 years, Moodley undertook a successful research career in Europe, first as an NRF postdoctoral researcher in Cardiff (UK), thereafter as a senior postdoc at the Max Planck Institute in Berlin (Germany), and more recently as a group leader at the University of Veterinary Medicine in Vienna (Austria). His research focus is on evolutionary genetics - particularly in inferring population history and structure. Since all life forms have evolved through changes in the DNA sequences, Moodley's work continues to include a broad range of species, including bacteria, insects, fish, birds and mammals. Apart from his seminal work on the evolutionary history of *Helicobacter pylori*, Moodley is also well known for his expertise in conservation genetics and speciation. Therefore, his current work also focuses on the genomics of African rhinoceros species as well as the genomic mechanisms underpinning adaptive radiations, particularly the radiation of the spiral-horned antelopes (*Tragelaphus* spp.). Moodley recently moved back to South Africa to take up a professorship at the University of Venda, where he continues to publish high impact research in the field evolutionary genetics, while also contributing the skills and

experiences he gained abroad towards the development of students from historically disadvantaged backgrounds.

### **Selected research outputs**

- 1.Linz, B., Balloux, B., Moodley, Y. *et al.* (2007) *Nature* 445: 915-918.
- 2.Moodley, Y. & Bruford, M. W. (2007) *PLoS ONE* 2: e454. doi: 10.1371/journal.pone.0000454
- 3.Moodley, Y., Linz, B., Yamaoka, Y. *et al.* (2009) *Science*. 323: 527-530. doi: 10.1126/science.1166083.
- 4.Moodley, Y., Linz, B., Bond, R. P., Nieuwoudt, et al. (2012) *PLoS Pathogens* 8(5): doi 10.1371/journal.ppat.1002693.
- 5.Nell, S., Eibach, D., Montano, V., et al. (2013) *PLoS Genetics* 9(9):e1003775
- 6.Tobler, M., Plath, M., Riesch, R., et al. (2014) *Journal of Evolutionary Biology*. doi: 10.1111/jeb.12370
- 7.Montano, V., Didelot, X., Foll, M., et al. (2015) *Genetics* 115. doi: 10.1534/genetics.115.176404
- 8.Maixner, F., Krause-Kyora, B., Turaev, T., et al. (2016) *Science*. doi: 10.1126/science.aad2545

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### **Professor Georges-Ivo Ekosse**

Georges-Ivo Ekosse Ekosse has been Professor of Applied Clay Mineralogy and Environmental Geology since 2008, and NRF C2 rated Researcher 2007-2012, 2013-2018. His research expertise embodies Chemistry, Geochemistry and Mineralogy of Clay Minerals, Extraction Metallurgy, Soil Mineralogy, Environmental Health, Environmental Geology, and Environmental Geochemistry. His Academic

Credentials include Doctor of Philosophy (PhD) in Soil Mineralogy; Doctor of Technology (DTech) & Master of Technology (MTech) in Environmental Health; Master of Technology (MTech) in Extraction Metallurgy; Postgraduate Diploma (PGD) in Geological Sciences; and Certificates in Strategic Management, Project Management, Governance, Risks & Ethics, and Higher Education Management. He is the Secretary General and Fellow of the African Academy of Sciences & Member of its Advisory Committee on Space, Earth and Environmental Sciences; Life Member: Association of Geoscientists for International

Development (AGID) and Geological Society of Africa (GSAf); Member of Soil Science Society of Southern Africa (SSSSA), and International Association for the Study of Clays (AIPEA), He has worked in Cameroon, Nigeria, Senegal, USA, Botswana and South Africa and some positions held include: Director: Research and Innovation, University of Venda; Director: Research Development, Walter Sisulu University; Professor and Coordinator of Geology, Mining and Minerals Programs, University of Limpopo; Scientist in charge of the X-Ray Diffraction Unit, University of Botswana and Chief Resource Person of its Faculty of Science for initiating new laboratories, acquisition and installation of new high tech equipment; Visiting Research Associate, Clay Minerals Research Laboratory, and Academic Tutor, Afro-American Tutorial Program, Indiana University, USA. He has also worked at the Institute of Zootechnical Research and taught in High Schools in Cameroon and Senegal. Professor Ekosse serves on the Editorial Board of the Journal of Applied Sciences and Environmental Management (JASEM); reviewed several manuscripts for publication in more than 17 scientific journals. He received the Best Poster Prize at the 2010 International Network of Research Management Societies (INORMS) Conference; shared the Wirsam Tescan Prize of Microscopy Society of Southern Africa (MSSA) in 2003; received the Ron Jenkins Awards on Fundamentals of, and Advanced Methods in, X-Ray Powder Diffraction, International Center for Diffraction Data, USA, 2003; granted ESKOM Development Foundation Award for 15<sup>th</sup> International Congress on Electron Microscopy (ICEM), Durban, South Africa, 2002; won the 1996/1997 Briscoe Scientific Award (UK) Institute of Science Technology, England; and won the 1992 Indiana Black Expo (IBE) Award for Academic Excellence, USA. He has been the Principal convener of several international short courses and conferences including Laboratory Management Techniques for Senior and Middle Levels Personnel of Teaching and Research Laboratories in SADC Countries; UNESCO-ANSTI/ROSTA Workshop on Maintenance of Science Laboratory Equipment in Developing Countries; Commonwealth Regional Courses on Pollution Control and Environmental Management; and Waste Management in Developing Countries; Pollution Control Awareness Course under National Environmental Planning Program for Botswana; 1<sup>st</sup> and 2<sup>nd</sup> International Conference on Human and Enzootic Geophagia in Southern Africa; and 1<sup>st</sup> International Conference of Clays and Clay Minerals in Africa.

Georges remains the Leader of UNESCO/IUGS/IGCP545 Project on Clays and Clay Minerals in Africa; and African Clays and Clay Minerals Research Group. He collaborates with researchers in several African, American, Asian and European Countries, has

successfully managed over 30 research grants, and is currently also Leader of the following research projects:

- Inclusive innovation of indigenous usage and management of soils and clays within traditional Africa. NRF, IKS, UID 90361
- Cretaceous-Tertiary clay deposits and argillaceous sediments. NRF, Competitive Programme for Rated Researchers (CPRR), UID 91559
- Trends of recent transformations of landscape based on rocks and soils data: mineralogy, geochemistry and geography. Russia/South Africa Research Cooperation Programme, NRF, International Science and Technology Agreements, South Africa UID 92199
- Prevalent paleoclimate on mineralisation of Duthuni and Zebediela kaolins. RPC, UNIVEN RI/14/RI/01
- Clays and clay minerals in South Africa: scientific knowledge in the usage of geophagic, cosmetic and medicinal clays. CPRR, NRF

Professor Ekosse has assisted, trained, supervised, promoted over 40 postgraduate/masters/doctoral students, and continues to supervise and promote postgraduate students projects. He is also very passionately committed to the mentoring of postgraduates and emerging researchers. He has initiated research embodying aspects of mineralogy, mining and the biophysical environment publishing on soils, clays and clay minerals, ore bodies, rocks and minerals, tailings dump, flora and fauna, and human health covering Botswana, Cameroon, Lesotho, Kenya, Mozambique, Nigeria, Pakistan, Senegal, South Africa, Swaziland and USA. He has authored/co-authored 4 books; 10 book chapters; 7 dissertations and theses; 136 refereed journal articles; 55 refereed articles in conference/workshop proceedings; 6 technical reports; 42 conference/workshop/seminar papers; 1 article in popular magazine; 5 edited works; 2 published book reviews; 5 articles in non-refereed journals; and 10 posters.

### **Selected recent publications**

- Diko M, **Ekosse G**, Ogola J (2016) Fourier transform infrared spectroscopy and thermal analyses of kaolinitic clays from South Africa and Cameroon. *Acta Geodyn. Geomater* 13 (2) (182) DOI: 10.13168/AGG.2015.0052
- Duruwoju O, Odiyo J, **Ekosse G** (2016) Variations of heavy metals from geothermal spring to surrounding soil and *Mangifera Indica* – Siloam Village, Limpopo Province. *Sustainability* 8, 60, doi:10.3390/su8010060

- Ngole-Jeme VM, **Ekosse GE** (2015) A comparative analyses of granulometry, mineral composition and major and trace element concentrations in soils commonly ingested by humans. *International Journal of Environmental Research and Public Health*, DOI: 10.3390/ijerph120808933, 12, 8933-8955
- **Ekosse GE**, Mwitondi KS (2015) Principal component analysis to evaluate the spatial variation in major elements in kaolin deposit. *Bulletin of the Chemical Society of Ethiopia* 29 (1), 41-51
- Sumbele I, Ngole VM, **Ekosse G.** (2014) Influence of physicochemistry and mineralogy on the occurrence of geohelminths in geophagic soils from Eastern Cape, South Africa, and their possible implication on human health. *International Journal of Environmental Health Research*, DOI:10.1080/09603123.2013.782600, 24 (1), 18-30
- Jumbam ND, **Ekosse G-IE**, Steele J. (2013) Chemical characterisation of argillaceous sediments used for traditional pottery around Port St Johns, Eastern Cape Province, South Africa. *Transactions of the Royal Society of South Africa*, <http://dx.doi.org/10.1080/0035919X.2013.822437>, 68 (3), 147-153
- **Ekosse G**, Anyangwe S (2012) Mineralogical and particle morphological characterization of geophagic clayey soils from Botswana. *Bulletin of the Chemical Society of Ethiopia* DOI: <http://dx.doi.org/10.4314/bcse.v26i3.6>, 26(3), 373-382
- Ngole V, **Ekosse G** (2012) Copper, nickel and zinc contamination within the precincts of a mining and landfilling environments. *International Journal of Environmental Science and Technology* DOI: 10.1007/s13762-012-0055-5, 9 (3) 485-494
- **Ekosse GE**, Ngole VM (2012) Mineralogy, geochemistry and provenance of geophagic soils from Swaziland. *Applied Clay Science* <http://www.sciencedirect.com/science/article/pii/S0169131711003991>, DOI: <http://dx.doi.org/10.1016/j.clay.2011.12.00357>, 57, 25-31
- **Ekosse G-IE**, Ngole,V, de Jager L (Editors) (2011) An Innovative Perspective on the Role of Clays and Clay Minerals and Geophagia on Economic Development. Book on Conference Proceedings of the 1<sup>st</sup> International Conference on Clays and Clay Minerals in Africa and 2nd International Conference on Geophagia In Southern Africa Bloemfontein, South Africa, ISBN: 978-0-629-51541-2, 417 pages
- Diko ML, **Ekosse G**, Ayonghe S, Ntasin E (2011) Physical characterization of clayey materials from Tertiary volcanic cone in Limbe (Cameroon) for ceramic applications. *Applied Clay Science*,

<http://www.sciencedirect.com/science/article/pii/S0169131710004187>,

(<http://dx.doi.org/10.1016/j.clay.2010.11.034>), **51**(3) 380-384

- **Ekosse G** (2010) Kaolin Deposits and Occurrences in Africa: Geology, Mineralogy and Utilization. *Applied Clay Science* <http://www.sciencedirect.com/science/article/pii/S0169131710002437>, (doi:10.1016/j.clay.2010.08.003), 50 (2) 212-236

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### **Professor Haripersad (Harry) Sewlall**

Harry Sewlall, a C2-rated researcher, joined the University of Venda in September 2014. Having matriculated in Durban, he completed the BA, BEd, Hons English and MA (cum laude) at Unisa. He holds a PhD from North-West University (Potchefstroom Campus). His master's dissertation was on the British poet Philip Larkin and his doctoral thesis focused on the early fiction of Joseph Conrad from a postcolonial perspective.

Prior to joining academia in 1998, he was a school teacher who reached the acme of his profession when he was promoted to superintendent of English in 1991. He has taught at Vista University, Unisa, Fort Hare, and prior to joining Univen, North-West University (Mafikeng Campus). He has published on a wide range of subjects, including Conrad, Mda, Orwell, Ngugi and Dostoevsky. He has also published in the fields of Ecocriticism and Popular Culture, to wit, Elvis Presley and early Rock 'n' Roll. He is a regular presenter at the Popular Culture Association/American Culture Association conference in the USA. His current research focuses on Joseph Conrad, Zakes Mda and Elvis Presley (Popular Culture). His hobbies include the cinema, oil painting, swimming and the guitar.

### **Selected research outputs**

1. Chapter 11, in ***Ways of Writing: Critical Essays on Zakes Mda***, edited by David Bell (Sweden) & J.U. Jacobs (SA). Title of chapter: 'The Ecocritical Imperative in *The Heart of Redness*.' Durban: UKZN Press, **2009**, pages 207-227 [Total number of pages in book: 408]
2. 'Contested Epistemological and Ethical Spaces: The Place of Non-Humans in Milan

Kundera's *The Unbearable Lightness of Being* and J.M. Coetzee's *Disgrace*', **English Academy Review: Southern African Journal of English Studies**, 30 (1) 2013, pp. 76-91.

3. 'Joseph Conrad in the Popular Imaginary: The Case of *Heart of Darkness*', **Journal of Literary Studies**, Vol. 30 (2), June 2014, 17-34.

4. 'The Grain of the Voice": Elvis Presley's 1968 NBC-TV Special', **Journal of Literary Studies**, Vol. 31 (4) December 2015, 56-70.

5. 'Elvis Presley in the South African Musical Imaginary', 2015 **Acta Academica** 47 (2): 55-73.

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**Dr Jean-Claude Ndogmo**

It is in Cameroon that Jean-Claude Ndogmo did his studies up to a Master's degree in Mathematics obtained from the University of Yaoundé. He subsequently obtained a DEA of Mathematics from Université Louis Pasteur of Strasbourg in France and a PhD degree in Mathematics from the University of Montreal in Canada.

Dr Ndogmo's main research areas are centered around the study of the invariant functions of Lie algebras, and the applications of Lie groups to differential equations (DEs). In the investigation of the invariant functions of the adjoint or the co-adjoint representation of Lie algebras he is usually interested amongst others in the characterization of Lie algebras possessing a complete set of invariants consisting of Casimir Operators. Some of his recent research interests related to the Lie group analysis of DEs include the determination of methods for finding the infinitesimal generators of the equivalence group, the characterization of systems of linear equations of maximal symmetry algebras, including the characterization of Lie point and variational symmetry algebras, and the first integrals or conservation laws associated with such systems. He has also been working recently on contact symmetry classification of certain families of evolution equations.

Through the supervision of postgraduate students, the external examination of postgraduate degrees, publication of papers in peer-reviewed journals and so on, Dr Ndogmo also has some expertise in Financial Mathematics. Moreover, he has supervised several other postgraduate students in his main research area in Lie algebras and Lie

group analysis of DEs, as well as served as external examiner for postgraduate degrees in South Africa.

He has published over 35 research papers including more than 25 papers in peer-reviewed journals and several others as conference proceedings papers. On an ad hoc basis, Dr Ndogmo serves as a referee for several journals of Mathematics, algebra, and mathematical physics, and as a regular reviewer for Mathematical Reviews where he has authored the review of several papers in three different fields of mathematics and in different languages. He has also served as academic reviewer of research project proposals for the NRF and for similar international organizations such as the Czech science foundation, GAČR. He is also an editor for ISRN algebra. Some of the research funding that Dr Ndogmo recently obtained include The NRF CSUR grant, the Carnegie Transformation Large Research grant, and the NRF Incentive Support for Rated Researchers.

### **Selected research outputs**

1. **J.C. Ndogmo**, A note on nonlinear iterative equations, *Nonlinear Dyn.* (2015), (In Press).
2. **J.C. Ndogmo** and F.M. Mahomed, On certain properties of linear iterative equations, *Cent. Eur. J. Math.* 12 no. 4, (2014) 648-657.
3. **J.C. Ndogmo**, Coefficient characterization of linear equations with maximal symmetries, *Commun. Nonlinear Sci. Numer. Simul.* 19 no. 5, (2014) 1270-1278.
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20. **J.C. Ndogmo**, Properties of the invariants of solvable Lie algebras. *Canad. Math. Bull.* 43 (2000) 459-471.

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**Associate Professor Amidou Samie**

Prof. Amidou Samie has received graduate training from the University of Yaoundé 1 in Cameroon, University of Zimbabwe, University of Venda, South Africa and University of Virginia, USA. He holds a BSc and an MSc degree in Biochemistry and a PhD degree in Microbiology. Following his PhD qualification in 2008 he was appointed as Lecturer in the Department of Microbiology at the University of Venda where he subsequently served as Senior Lecturer and currently Associate Professor.

He was the first Y rated researcher at the University of Venda in 2009 immediately after his PhD graduation and his rating has recently been re-evaluated and updated to the C2

category. He has authored or co-authored 91 publications in peer reviewed International Journals on topics covering Genetics, Clinical Microbiology, Parasitology, Biotechnology, Water quality and Tropical Medicine. He has also published 5 book chapters and has served as Editor for 2 Books on Tropical diseases and *E. coli*. He has given more than 60 Lectures at both national and international conferences and has received the Vice chancellor award for the best overall researcher at the University of Venda for 4 consecutive years. He has graduated over 15 MSc and PhD students. He has established collaborative projects with researchers from South Africa, USA, Japan, Kenya, Zimbabwe, Cameroon, Nigeria and Zambia and received research grants from several organizations including the WRC, NIH, NRF, ISID, Gates Foundation and UNESCO. He has served as an executive board member of the International Committee on Systematics of Prokaryotes, the Limpopo Health research committee, the Research Advisory forum of the University of Venda. He also serve as external examiner for PhD, MSc and BSc honours projects from different institutions in South Africa and abroad. Professor Samie's research has for the first time provided information on the molecular epidemiology and pathogenicity of emerging intestinal pathogens such as *Cryptosporidium*, microsporidia, *E. histolytica*, *Campylobacter jejuni*, *Arcobacter butzlerii*, Enteroaggregative *E. coli* and *Clostridium difficile*. Of particular interest to him is the study of *E. histolytica* which is a common cause of diarrhoea among hospital attendees and HIV positive individuals. Professor Samie's most recent research interest covers issues of pharmacogenomics and genetic susceptibility and is actively involved in the role of the Immune system's genes on the occurrence of STIs and opportunistic infections among HIV patients. He is also interested in understanding the occurrence of steroid hormones in the environment and their potential impact on microbial diversity and Human health.

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1. **Samie A**, Ntekele P, Yagi AI, ElBakri AK (2016). Occurrence and elimination of helminth eggs at different stages in the sewage treatment plants in the Vhembe district, South Africa. *Asian J Microbiol Biotech Env Sci*, 3:225 – 228.
2. Kahler M, Koermer NT, Reichl AR, **Samie A** and Smith JA (2016). Performance and Acceptance of Novel Silver-Impregnated Ceramic Cubes for Drinking Water Treatment in Two Field Sites: Limpopo Province, South Africa and Dodoma Region, Tanzania. *Water* 2016, 8, 95; doi:10.3390/w8030095.

3. Mafokwane TM, **Samie A** (2016). Prevalence of chlamydia among HIV positive and HIV negative patients in the Vhembe District as detected by real time PCR from urine samples. BMC Res Notes. 2016 Feb 16; 9(1):102.
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11. **Samie A**, Barrett LJ, Bessong PO, Ramalivhana JN, Mavhandu LG, Njajou M, Guerrant RL (2010). Seroprevalence of *Entamoeba histolytica* in the context of HIV and AIDS: Case of the Vhembe district, Limpopo Province, South Africa. Annals of Tropical Medicine & Parasitology, 104 (1): 55–63.

12. **Samie A**, Housein A, Lall N, Meyer JJ (2009). Crude extracts of, and purified compounds from, *Pterocarpus angolensis*, and the essential oil of *Lippia javanica*: their in-vitro cytotoxicities and activities against selected bacteria and *Entamoeba histolytica*. *Annals of Tropical Medicine and Parasitology* 103(5):427-39.
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15. **Samie A.**, Obi CL, Barrett LJ, Powell SM, Guerrant RL (2007). Prevalence of *Campylobacter* species, *Helicobacter pylori* and *Arcobacter* species in stool samples from the Venda region, Limpopo, South Africa: Studies using molecular diagnostic methods, *Journal of Infection.* 54(6): 558-66.
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**Professor Peter Amunga Mbatia**

Professor Peter Amunga Mbatia is a C2 rated researcher by the National Research Foundation. He obtained his PhD in Parasitology from Kenyatta University in 1994 and did a post-doctoral training in advanced studies in protozoan diseases from the Research Centre for Protozoan Molecular Immunology, Obihiro University of Agriculture and Veterinary Medicine, Japan in 1996/97. Peter belongs to a variety of professional bodies including the World Association for the Advancement of Veterinary Parasitology, Parasitological Society of Southern Africa and the Kenya Society for Immunology. He serves in various committees and portfolios and was recently appointed to serve on the Limpopo Premier's Employment Growth and

Development Advisory Council. Between 2002 – 2003. He served as an Expert Review Panel member that evaluated the Amoebiasis Research Unit and, the Malaria Lead Research Programmes of the South African Medical Research Council. Mbatl also served as a Temporary Advisor to the World Health Organization in 1996 when he conducted specialist diagnostic assays for human leishmaniasis in Asmara, Eritrea. Some of the studies he has conducted include •Molecular diagnosis of Babesiosis •Sero-epidemiological studies and immuno-diagnosis of parasites of medical and veterinary importance in the north eastern Free State, South Africa •Evaluation of *Leishmania-donovani*-derived Lipophospho- glycan as a candidate vaccine against visceral leishmaniasis in murine models •Development of live vaccines against the leishmaniasis •Use of PCR for diagnosis and treatment follow-up of experimental *Trypanosoma brucei* infections •Identification and characterization of target antigens for transmission blocking vaccines in leishmaniasis •Field Evaluation of a Direct Agglutination Test (DAT) prototype test kit for routine diagnosis of visceral leishmaniasis.

### **Selected research outputs**

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  22. Thekiso, O.M., Rambritch, N.E., Nakao, R., Bazie, R.S., **Mbati, P.**, Namangala, B., Malele, Skilton, R.A., Jongejan, F., Sugimoto, C., Kawazu, S.I. and Inoue, N. (2010). Loop-mediated isothermal amplification (LAMP) assays for detection of *Theileria parva* infections targeting the P1M and p150 gene. *International Journal of Parasitology*, **40**: 55 – 61

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## **Professor Pascal Obong Bessong**

Professor Bessong did his graduate training in South Africa, Nigeria, France and the United States. In 2012, he established the HIV/AIDS and Global Health Research Programme at the University of Venda, with capabilities for molecular and cell biology, graduate training, community-based research, and data management. His research focuses on microbiological investigations impacting on translational science and global health. Specifically, he is interested in host and viral determinants of HIV drug resistance and the sustainability of highly active antiretroviral therapy (HAART); the impact of HAART on the pathogenesis of malignancy associated viruses; and the interaction of enteric viruses, vaccine response, gut integrity, growth and development in young children, particularly in populations of low socio-economic status. He is the principal investigator of *Transmitted and acquired HIV drug resistance in Limpopo*, *Bioprospecting platform*, and *MAL-ED South Africa* research projects. Professor Bessong is the director of the national annual training workshop on gene expression and biotechnology, and the South Africa director of a Global Infectious Diseases Research Training Program.

He is a technical adviser to the International Science Foundation; and frequently reviews research grant proposals for Infectious Diseases Control Programme of the Government of Hong Kong; Medical Research Council, National Health Laboratory Services, National Research Foundation of South Africa; and on adhoc basis for UK Medical Research Council and Canadian Institutes for Health Research. He has successfully trained 36 MSc/PhD students, and authored/co-authored more than 100 peer reviewed scientific publications. He is on the editorial advisory board of several journals.

Professor Bessong's research and human capacity development initiatives are supported by the South Africa Medical Research Council, Department of Science and Technology, Technology Innovation Agency, National Research Foundation; Fogarty International Center/NIH (USA), and the Bill and Melinda Gates Foundation through the FNIH/University of Virginia, USA.

## Selected research outputs

Pascal Bessong, Benson Iweriebor. A putative HIV-1 subtype C/CRF11\_cpx recombinant from South Africa. SpringerPlus 2016, 5:285, doi: 10.1186/s40064-016-1924-z.

1. Soo-Yon Rhee, Jose Luis Blanco, Michael R. Jordan, Jonathan Taylor, Philippe Lemey, Vici Varghese, Raph L. Hamers, Silvia Bertagnolio, Tobias F. Rinke de Wit, Avelin F. Aghokeng, Jan Albert, Radko Avi, Santiago Avila-Rios, Pascal O. Bessong, James I. Brooks, Zabrina L. Brumme et al. Geographic and Temporal Trends in the Molecular Epidemiology and Genetic Mechanisms of Transmitted HIV-1 Drug Resistance: an Individual Patient and Sequence-level Meta-Analysis. PLoS Medicine 2015 Apr 7; 12(4):e1001810. doi: 10.1371/journal.pmed.1001810.
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3. Tracy M. Masebe, Pascal O. Bessong, Roland N. Ndip, Debra Meyer (2014). Genetic variants of APOC3 promoter and HLA-B genes in an HIV infected cohort in northern South Africa-A pilot study. International Journal of Molecular Sciences, 15, 11403-1415:doi:10.3390/ijms.
4. Pascal Obong Bessong, Emanuel Nyathi, Tjale Cloupas Mahopo, and Vhonani Netshandama, MAL-ED South Africa. Development of the Dzimauli Community in Vhembe District, Limpopo Province of South Africa, for the MAL-ED Cohort Study. Clinical Infectious Diseases 2014, 59 (suppl 4): S317-S324 doi:10.1093/cid/ciu418.
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**Prof. W. Garira, C3-Rated**  
Specializes in Biomathematics

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**Professor Eastonce Tendayi Gwata**

Prof. Eastonce Tendayi Gwata is a specialist in Plant Genetics and Breeding. His research emphasizes the genetic improvement of tropical legumes with special emphasis on tolerance to moisture stress and biological nitrogen fixation. He has research experience at both national and international level having worked at both the Crop Breeding Institute (Harare, Zimbabwe) and the International

Crops Research Institute for the Semi-Arid Tropics (Nairobi, Kenya). He is recognized as a leading scientist in legume genetic improvement particularly in Africa and has received

awards / recognition from the Rockefeller Foundation (USA), the University of Florida (USA), Gamma Sigma Delta Honor Society of Agriculture (Florida Chapter, USA), Who'sWho in Science and Engineering (Marquis), American Society of Plant Biologists and NRF (South Africa) among others. Prof. Gwata is presently developing new legume cultivars adapted to the arid belt of the greater Limpopo River Basin in southern Africa.

### **Selected research outputs**

1. **Gwata E. T.**, H. Shimelis and P. M. Matova. (2016). "Potential of Improving Agronomic Attributes in Tropical Legumes Using Two Mutation Breeding Techniques in Southern Africa." (2016). *In: (ed). P. Konvalina Alternative Crops and Cropping Systems*, ISBN 978-953-51-2279-1. pp. 71-85.
2. Mzezewa J and **Gwata ET**. (2016). Analysis of soil profile water content under sunflower x cowpea intercrop in the Limpopo Province (South Africa). *In: (ed). P. Konvalina. Alternative Crops and Cropping Systems*, ISBN 978-953-51-2279-1. pp. 131-143.
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9. **Gwata ET** (2011). Desirable models for circumventing bottlenecks in cultivar release and dissemination in sub-Saharan Africa. *J. Food Agric. Environ.* 9:332-335.
10. **Gwata ET** (2010). Potential impact of edible tropical legumes on crop productivity in the small-holder sector in Sub-Saharan Africa. *J. Food Agric. Environ.* 8: 939-944.
11. **Gwata ET** and Siambi M. (2009). Genetic enhancement of pigeonpea for high latitude areas in Southern Africa. *Afr. J. Biotech.* 8: 4413-4417.

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**Professor Afam I. O. Jideani**

Afam is a professor and head of Food Science and Technology at the University of Venda, South Africa. He obtained his PhD from the University of Leeds, UK in 1994. He became a full professor (1999) in Nigeria before becoming the Director of Research and Development at the National Food Technology Research Centre (NFTRC) Botswana (2006) – a position that enabled him to mentor scientists at NFTRC, revitalise research activities leading to increase in research output, number of researchers

having doctoral degree, motivated and received a doubling of the Centre’s recurrent budget.

Professor Jideani has supervised and mentored a number of postgraduate students three of whom are now professors in Food Science and Technology. He is recognized for his research on cereal science especially on the grains of *Digitaria* species (*acha* and *iburu*). His research has brought these two cereal grains to the international scene. He has 120 publications to his credit in scientific journals, book and book chapters. He has made presentations in many national and international scientific meetings. He is currently the leader of the Plant Food Processing for Bio-economy (PFPB) research group. The group’s research focuses on processing and technology of plant foods in the following but not exhaustive areas: survey of plant-based indigenous foods and knowledge systems, value addition to indigenous plant based foods for food security, functional food ingredients in food systems and food biotechnology and fermentation. He is a fellow of the Nigerian Institute of Food Science and Technology (NIFST). A professional member of the following scientific bodies: (i) South African Association of Food Technologists (SAAFoST), (ii) American Association of Cereal Chemists International (AACCI), (iii) Institute of Food

Technologists (IFT) and (iv) the ISEKI Food Association (IFA). In 2010 he became the South African country representative of IFA.

### **Selected research outputs**

1. Omolola AO, **Jideani AIO** & Kapila PF (2015) Quality properties of fruits as affected by drying operation. *Critical Reviews in Food Science and Nutrition*. <http://dx.doi.org/10.1080/10408398.2013.859563>.
2. Anyasi, TA. **Jideani AIO** & Mchau GRA. (2015) Effect of organic acid pretreatment on some physical, functional and antioxidant properties of flour obtained from three unripe banana cultivars. *Food Chemistry* 172:515-522. <http://dx.doi.org/10.1016/j.foodchem.2014.09.120>.
3. Omolola AO, **Jideani AIO** & Kapila PF (2015) Modeling of thin layer drying characteristics of banana cv. Luvhele. *Bulgarian Journal of Agricultural Sciences*. 21 (2): 342–348.
4. Anyasi, TA. **Jideani AIO** & Mchau GRA. (2015) Morphological, physicochemical and antioxidant profile of non-commercial banana cultivars. *Food Science and Nutrition*. 3(3):221-232. doi:10.1002/fsn3.208.
5. Omolola AO, **Jideani AIO** & Kapila PF (2015) Drying characteristics and kinetics of banana (*Musa* spp., AAA group, cv. 'Mabonde'). *Trop. Agric. (Trinidad)* 92(3): 2017-219.
6. Omolola AO, **Jideani AIO** & Kapila PF (2015) Drying kinetics of banana (*Musa* spp.), *Interciencia* 40(6): 374-380. Available in: <http://www.redalyc.org/articulo.oa?id=33938675003>
7. **Jideani AIO**, Kyei KA, Takalani T, Silungwe H, Beswa D, Kgatla TE and Mashau ME (2015) Assessing differences in the perception and awareness of Food Science and Technology amongst high school learners in the five districts in the Limpopo province of South Africa. *Journal of Human Ecology* 50(1):83-92.
8. Omolola AO, **Jideani AIO** & Kapila PF Jideani VA (2015) Optimization of microwave drying conditions of two banana varieties using response surface methodology. *Food Science and Technology, Campinas*, 35(3): 438-444. DOI: <http://dx.doi.org/10.1590/1678-457X.6700>
9. Onipe OO, **Jideani AIO** and Beswa D (2015) Composition and functionality of wheat bran and its application in some cereal food products. *International Journal of Food Science and Technology* 50:2509-2518. doi:10.1111/ijfs.12935.

10. Agu HO, Ayo JA and **Jideani AIO** (2015). Quality evaluation of malted acha-soy breakfast cereal flour. *African Journal of Food, Agriculture, Nutrition and Development*, 15(5): 10542-10558.

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### **Senior Professor Base Khoza**

Professor Khoza is UNIVEN's first Senior Professor. She holds a NRF C3 rating as an established researcher with specialties in Nursing Education, Health Promotion and Disease Prevention. For two years in a row (2012 and 2013), she emerged as UNIVEN's best overall active researcher. Professor Khoza is a widely published scholar and reviewer of manuscripts for both national and international journals of high scientific repute. She has led several research projects funded both nationally and internationally and produced a number of PhDs and Masters Graduates. Prof Base Khoza is currently elected to serve in the International Council of Nurses (ICN), Rural and Remote Nurses Network (RRNN) Core Steering Committee, which is represented by other eight members from international countries. On 03 September 2015, she has been inaugurated into the Forum of University Nursing Deans in South Africa (FUNDISA) Hall of Fame for Research Excellence in Nursing in South Africa. This inauguration into FUNDISA's Hall of Fame for Research Excellence in Nursing attests to the fact that UNIVEN is making gigantic strides in knowledge generation and dissemination.

### **Selected research outputs**

1. Ramarumo, M., Peltzer, K & **Khoza, LB**. 2016. Screening and brief intervention of alcohol problems in primary care in South Africa: A brief report. *Journal of Psychology in Africa*, 2016:1-3. ISSN: 1433-0237.
2. **Khoza, LB**. 2015. Nursing students' perception of clinical learning experiences. *International Journal of Human Ecology*, 51(1, 2): 103-110.
3. Lavhelani, RN., **Khoza, LB.**, & Shilubane, NH. 2015. Challenges affecting the implementation of the integrated approach to mental healthcare at PHC clinics. *Ethno Med*, 9(3): 435-441.
4. **Khoza, LB**. 2015. The influence of emotional behaviour on teacher-student

- relationship in the classroom setting: Nurse teacher-student nurse perspective. *International Journal of Educational Sciences*, 10(1): 81-87.
5. Maputle, MS., **Khoza, LB** & Lebese RT. 2015. Knowledge towards pregnancy-induced hypertension among pregnant women in Vhembe District, Limpopo Province. *International Journal of Human Ecology*, 51(1, 2): 47-54.
  6. Mulondo, SA., **Khoza, LB.** & Maputle, MS. 2015. Risk factors and complications associated with tuberculosis in pregnancy and neonates in Limpopo Province, South Africa. *International Journal of Human Ecology*, 51(1, 2): 128-137.
  7. Ramalepe, JM, **Khoza LB.** & Maputle, MS. 2015. Self-perceived challenges of lay counsellors implementing voluntary counselling and testing in Mopani District, Limpopo Province, South Africa. *International Journal of Human Ecology*, 51(1, 2): 138-145.
  8. Maputle, MS., Lebese, RT. & **Khoza, LB.** 2015. Perceived challenges faced by mothers of pregnant teenagers who are attending a particular school in Mopani District, Limpopo Province, South Africa. *International Journal of Educational Sciences*, 10(1):142-148.
  9. **Khoza, LB** & Mathevula, F. 2014. Nurse educators and first year student nurses' perceptions of poor interaction in the classroom environment. **AJPHRD**, Supplement 2 (December), 2014
  10. Shilubane, HN & **Khoza, LB.** 2014. Perceptions of primary health care workers in providing care to mental health care users in Vhembe District, Limpopo Province, South Africa. **AJPHRD**, Supplement 2 (December), 2014
  11. Finnie, R., **Khoza, L.B.**, van den Borne, B., Mabunda, T., Abotchie, P., Mullen, P.D. (2010, December 22). Factors assessed for associations with patient and healthcare system delay in diagnosis and treatment for TB in sub-Saharan African countries with high burdens of TB and HIV: A systematic review. ***Tropical Medicine and International Health***. Published on line 22 DEC 2010. DOI: 10.1111/j.1365-3156.2010.02708.
  12. **Khoza, L.B.** (2011). Factors that affect academic performance of rural student nurse-neophytes in the classroom setting. **African Journal of Physical Health Education, Recreation and Dance, supplement 2(2): 114-115**
  13. **Khoza, LB** & Shilubane DR. (2011). The lived experience of street children in BaPhalaborwa Municipality of Limpopo Province in South Africa. **African Journal of Physical Health Education, Recreation and Dance, supplement 2(1): 147-160**

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### **Professor Natasha Potgieter**

Prof Natasha Potgieter is the Dean of the School of Mathematical and Natural Sciences. She joined the University of Venda in 1997 as a lecturer where she has started the Department of Microbiology. She obtained her PhD in Medical Virology from the University of Pretoria in 2007. She has more than 25 years of teaching and training experience in the Higher Education section. She is actively engaged in research on water and health related microbiology and have established a very successful research group which caters for undergraduate students to PhD level. She is part of several national and international research groups and has led several research projects nationally and internationally. She is also very keen on mentoring female scientists – both students and female staff members. She holds a C3 NRF rating as an established researcher. She has produced several Masters and PhD graduates nationally and internationally. In addition she is a widely published scholar and reviewer of manuscripts for both national and international journals of high scientific repute. She has been appointed by the University of Johannesburg as a visiting Professor at the Water and Health Research Unit for the past 6 years and has actively assisted in research and post graduate output in the Research Unit.

#### **Selected research output:**

1. Kabue JP, Meader E, Hunter PR and Potgieter N. (2015). Human Norovirus prevalence in Africa: a review of studies from 1990 to 2013. Trop Med Int Health. 2016 Jan;21(1):2-17.
  
2. I Cranston, N Potgieter, S Mathebula and JHJ Ensink. (2015). Transmission of Enterobius vermicularis eggs through hands of school children in rural South Africa. Acta Tropica 150: 94-96

3. Hunter PR, Abdelrahman SH, Antwi-Agyei P, Awuah E, Cairncross S, Chappell E, Dalsgaard A, Ensink JH, Potgieter N, Mokgobu I, Muchiri EW, Mulogo E, van der Es M, Odai SN. (2015). Needs assessment to strengthen capacity in water and sanitation research in Africa: experiences of the African SNOWS consortium. *Health Res Policy Syst.* 2014 Dec 15;12:68. doi: 10.1186/1478-4505-12-68.
4. Mans J<sup>1</sup>, van Zyl WB, Taylor MB, Page NA, Sobsey MD, Barnard TG, Potgieter N. (2014). Applicability of Bio-wipes for the collection of human faecal specimens for detection and characterisation of enteric viruses. *Trop Med Int Health.* 2014 Mar;19(3):293-300. doi: 10.1111/tmi.12251. Epub 2013 Dec 24.
5. Potgieter N, De Beer M, Taylor MB and Steele AD. (2010). The prevalence and diversity of rotavirus strains in children with acute diarrhoea from rural communities in the Limpopo Province, South Africa. *J Infectious Diseases* Sep 1(202) Suppl:S148-155
6. Natasha Potgieter, Tendayi B. Mpofu and Tobias G. Barnard. (2011). The Impact Water, Sanitation and Hygiene Infrastructures Have on People Living with HIV and AIDS in Zimbabwe. *Microbes, Viruses and Parasites in AIDS Process*, Vladimir Zajac (Ed.). ISBN: 978-953-307-601-0. Intech Open Access Publishers, Inc. Croatia. Available from: <http://www.intechopen.com/articles/show/title/the-impact-water-sanitation-and-hygiene-infrastructures-have-on-people-living-with-hiv-and-aids-in-zimbabwe>



### **Professor Addmore Shonhai**

Prof. Shonhai is an Associate Professor and head of Biochemistry at the University of Venda in South Africa. He received his BSc Honours degree in Applied Biology & Biochemistry from the National University of Science & Technology (NUST) in Zimbabwe. He subsequently worked in the pharmaceutical and biotechnology industries before studying for a PhD in

Biochemistry at Rhodes University in South Africa. His PhD was supervised by Professor Gregory Blatch who is currently the Dean, College of Health and Biomedicine Victoria University, Australia. Subsequently, he conducted postdoctoral studies in Greg Blatch's laboratory before his appointment as lecturer in the department of Biochemistry & Microbiology at Zululand University in South Africa. Prof. Shonhai's area of research involves understanding the role of heat shock proteins in the development malaria parasites. Another area of interest involves using heat shock proteins as biotechnological tools to enhance recombinant protein production in *E. coli*. He is also interested in the prospects of using synthetic gold nanoparticles as artificial molecular chaperones. Prof. Shonhai has been serving as a council member of the South African Society of Biochemistry & Molecular Biology (SASBMB) since 2011. In 2015, he was appointed to sit on the panel of the National Research Foundation (NRF) of South Africa rating committee for the Biochemistry, Molecular and Cell Biology section. Prof. Shonhai is a recipient of a prestigious Georg Foster Fellowship, awarded to him by the Alexander von Humboldt Foundation of Germany. The research award honours the academic achievements of the award winner's lifetime.

### **Selected research outputs**

- 1.Zininga T., Achilonu I., Hoppe H., Prinsloo E., Dirr H., Shonhai A (2015) Overexpression, purification and characterisation of the Plasmodium falciparum Hsp70-z (PfHsp70-z) protein. *Plos ONE*, DOI:10.1371/journal.pone.0129445
- 2.Makumire S, Revaprasadu N, Shonhai A (2015) DnaK protein alleviates toxicity induced by citrate-coated gold nanoparticles in Escherichia coli. *PLoS ONE*, 10: e0121243. doi:10.1371/journal.pone.0121243
- 3.Gitau, G. W., Mandal, P., Blatch, G. L., Przyborski, J., Shonhai, A. (2012) Characterisation of the Plasmodium falciparum Hsp70-Hsp90 organising protein (PfHop). *Cell Stress & Chaperones*, 17:191-202
- 4.Shonhai, A., Boshoff, A., & Blatch, G. L. (2007). The structural and functional diversity of Hsp70 proteins from Plasmodium falciparum. *Protein Science*, 16: 180 – 1818
- 5.Shonhai, A., Boshoff, A., & Blatch, G.L. (2005) Plasmodium falciparum heat shock protein 70 is able to suppress the thermosensitivity of an Escherichia coli DnaK mutant strain. *Molecular Genetics & Genomics*, 274: 70 – 78

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### **Professor Sonto Maputle**

Professor Maputle holds a NRF C3 rating as an established researcher with specialties in Maternal, Child Health, Reproductive Health and HIV/AIDS. Professor Maputle is a scholar and reviewer of manuscripts for both national and international journals of high scientific repute. She is/ has been a project leader of research projects funded by UNIVEN RPC and has produced a number of PhDs and Masters Graduates. Prof Maputle received an award for the researcher who produced more Masters students in 2013. She received the award for the

Researcher with the most research output in South African Post-Secondary Education Accredited Journals 2013 at the Vice Chancellor's Award on the 31 July 2015. In 2011 and 2013 she successfully coordinated the publications of 38 and 41 articles respectively in the special edition of the African Journal for Physical, Health Education, Recreation and Dance (AJPHERD).

Prof Maputle was awarded the EUROSAs grant by the Erasmus Mundus Action 2 mobility programme supported and funded by the European Commission in September – October 2012 which was spent at Lund University in Sweden. This resulted in research collaboration. The focus was on research in Midwifery and Neonatal Nursing. This international collaboration was then expanded with the Faculty of Health and Life Sciences, Linnaeus University, Sweden for mutual benefit that derived from scholarly interaction, cultural interchange, co-operative research and other forms of academic collaboration. This also involved the student exchange with Linnaeus University, where in two 4<sup>th</sup> year students (Steven Mamavhi -11622607 and Tshepho Mohale - 11629648) visited Sweden on the 24<sup>th</sup> August 27<sup>th</sup> Nov 2015.

### **Selected research outputs**

1. Malwela T, **Maputle MS** & Lebesse RT (2016). Factors affecting integration of midwifery nursing science theory with clinical practice in Vhembe district Limpopo province as perceived by professional nurses. Published in *African Journal of Primary Health Care & Family Medicine*.
2. Nesane K., **Maputle MS** & Shilubane HN (2016). Male partners' involvement in maternal healthcare services at Makhado clinics in Limpopo Province. Published in *African Journal of Primary Health Care & Family Medicine*.

3. **Maputle MS**, Mothiba TM & Maliwichi L (2015), Traditional Medicine and Pregnancy Management: Perceptions of Traditional Health Practitioners in Capricorn District, Limpopo Province. *Ethno Med*, 9(1): 67-75 (2015).
4. Mothapo KE, **Maputle MS** & Shilubane HN (2014). Self-perceived competence of student midwives on plotting of partogram in labour units of Limpopo Province. *Ethno Medicine*. 8 (3): 285-291.
5. **Maputle MS** & Hiss DC (2013). Criteria to facilitate the implementation of woman-centred care in childbirth units of Limpopo Province, South Africa (Part 2), Art. #50, 7 pages. <http://dx.doi.org/10.4102/curationis.v36i1.50>
6. **Maputle MS** & Hiss DC (2013). Woman centred care in Childbirth: A concept analysis (Part 1). Art. #49, 8 pages. <http://dx.doi.org/10.4102/curationis.v36i1.49>
7. **Maputle MS**, Nakoepa K, Mothiba MT - Sexual and Reproductive health choices and needs of HIV positive women in the North West Province. *African Journal for Physical, Health Education, Recreation and Dance (AJPHERD)* September 2011 (Supplement 2:1), pp. 67-82.
8. Mothiba MT & **Maputle MS** - Registered midwives' lived experiences of assisting teenagers who present for repeat termination of pregnancy (TOP) in Capricorn district of Limpopo Province, South Africa. *African Journal for Physical, Health Education, Recreation and Dance (AJPHERD)* September 2011 (Supplement 2:1), pp. 55-66.
9. **MS Maputle** – A Woman-centered Childbirth Model. *Health SA Gesondheid* (Vol 15 no 1) 2010.
10. SN Ramara, **MS Maputle** & ME Lekhuleni – Infant feeding and HIV positive mothers in the Capricorn District of Limpopo Province. Published in *CURATIONIS* Vol. 33 (1) March 2010.
11. **Maputle MS** & Hiss DC – Midwives' experiences of managing women in labour in Limpopo Province, South Africa. *Curationis* Vol. 33 (3) September 2010.
12. **Maputle MS**, Mothiba TM, Gaorekwe KK & Mokgothu MS - Factors influencing uptake of PMTCT interventions in South Africa. Published in *African Journal of Midwifery and Women's Health* Vol. 4 (4), 193-200 (Oct – Dec 2010).
13. **MS Maputle** & AGW Nolte. (2008). Mothers' experiences of labour in a tertiary care hospital. Published in *HEALTH SA GESONDHEID* Vol. 13 No.1- 2008, p55-62.

14. **MS Maputle** & NM Jali - Pregnant Women's knowledge about Mother-to-Child-Transmission (MTCT) of HIV infection through breastfeeding. Published in *CURATIONIS* Vol. 31(1) March 2008, p45-51.

#### **MY RECENT PUBLISHED ARTICLES BELOW:**

- Malwela T, **Maputle MS** & Lebese RT (2016). Factors affecting integration of midwifery nursing science theory with clinical practice in Vhembe district Limpopo province as perceived by professional nurses. Published in *African Journal of Primary Health Care & Family Medicine*.
- Nesane K., **Maputle MS** & Shilubane HN (2016). Male partners' involvement in maternal healthcare services at Makhado clinics in Limpopo Province. Published in *African Journal of Primary Health Care & Family Medicine*.
- Lebese RT., **Maputle MS** & Shihundla RC. (2016) Effects of increased Professional nurses' workload on quality documentation of patient information at selected PHC facilities in Vhembe district, Limpopo Province. Published in *Curationis Journal*.
- Ndou TV., **Maputle SM.**, & Risenga PR (2016). HIV-positive patients' perceptions of care received at a selected antiretroviral therapy clinic in Vhembe district, South Africa. *African Journal of Primary Health Care & Family Medicine*; Vol 8, No 2. doi: 10.4102/phcfm.v8i2.926
- TM. Mothiba & **SM. Maputle**. (2015). Programmes, Interventions and Services Provided by Community Based Organisations for Sexual and Gender-Based Violence in Vhembe and Capricorn Districts of Limpopo Province *Journal of Human Ecology*. 51(1,2): 175-180.
- TM Mothiba & **SM. Maputle**. (2015). Knowledge and Practices of Infection Control Interventions amongst Hospital Cleaners at Health Care Units of Capricorn District, Limpopo Province. *Journal of Human Ecology*. 51(1,2): 25-32.
- TG. Tshitangano, **SM. Maputle**, ML. Netshikweta, NJ. Ramakuella & KG. Netshisaulu. (2015). Guidelines to Enhance the Implementation of Effective Tuberculosis Control Measures in Rural Public Hospitals of Vhembe District, South Africa. *Journal of Human Ecology*. 51(1,2):1-8.
- TG. Tshitangano, **SM. Maputle**, ML. Netshikweta, NJ. Ramakuella & KG. Netshisaulu (2015). Implementation of Tuberculosis Control Measures in Rural Public Hospitals of Vhembe District, South Africa: A Thematic Analysis. *Journal of Human Ecology*. 51(1,2):166-174.

- S Malatji, **SM. Maputle** & L Netshikweta (2015). Knowledge and Attitudes of Youth in Relation to Provider Initiated Counselling and Testing at the Primary Health Care Services of the Capricorn District, Limpopo Province. *Journal of Human Ecology*. 51(1,2): 40-46.
- **SM. Maputle**, LB Khoza & RT Lebese. (2015). Knowledge towards Pregnancy-induced Hypertension among Pregnant Women in Vhembe District, Limpopo Province. *Journal of Human Ecology*. 51(1,2): 47-54.
- SA. Mulondo, LB. Khoza & **SM. Maputle** (2015). Risk Factors and Complications Associated with Tuberculosis in Pregnancy and Neonates in Limpopo Province, South Africa. *Journal of Human Ecology*. 51(1,2): 128-137.
- ND. Ndou, **MS. Maputle**, RT. Lebese & LB Khoza. (2015). Support of Professional Nurses Caring for HIV/AIDS Patients, Tshwane District of Gauteng Province, South Africa. *Journal of Human Ecology*. 51(1,2): 187-192.
- RT. Lebese, **MS. Maputle**, JT. Mabunda & PK. Chauke. (2015). Knowledge, Attitudes and Perception of Students on Teenage Pregnancy: A Case Study of Rural Based University Students in South Africa. *Journal of Human Ecology*. 51(1,2): 55-65.
- EE Radithalo, **SM Maputle** & TM. Mothiba. (2015). Vaginal Bleeding as a Pregnancy Problem during First Trimester at Polokwane Municipality, Limpopo Province. *Journal of Human Ecology*. 51(1,2): 73-79.
- MJ. Ramalepe, LB. Khoza & **SM Maputle**. (2015). Self-perceived Challenges of Lay Counselors Implementing Voluntary Counseling and Testing in Mopani District, Limpopo Province and South Africa. *Journal of Human Ecology*. 51(1,2): 138 -145.
- TI. Ramavhoya, **SM Maputle** & RT. Lebese. (2015). Knowledge of Mothers with Regard to Immunisation of Children in Vhembe District, Limpopo Province. *Journal of Human Ecology*. 51(1,2): 19-15.
- N. Ravele, **SM. Maputle** & NJ. Ramakuela. (2015). Contributory Factors to Antenatal Depression as Perceived by Pregnant Women in Vhembe District, Limpopo Province. *Journal of Human Ecology*. 51(1,2): 33-39.
- TG. Tshitangano, **SM. Maputle** & ML. Netshikweta. (2015). Validation of the Guidelines to Enhance Health Care Workers' Implementation of Effective Tuberculosis Control Measures in Rural Public Hospitals of Vhembe District, South Africa. *Journal of Human Ecology*. 51(1,2): 96-102.
- **SM. Maputle**, RT. Lebese & LB. Khoza (2015). Perceived Challenges Faced by Mothers of Pregnant Teenagers who are attending a Particular School in Mopani District, Limpopo Province, South Africa. *Int J Edu Sci*, 10(1):142- 148.

- **Maputle MS**, Mothiba TM & Maliwichi L (2015), Traditional Medicine and Pregnancy Management: Perceptions of Traditional Health Practitioners in Capricorn District, Limpopo Province. *Ethno Med*, 9(1): 67-75 (2015).

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**Professor Geoffrey Madimabe Mapaya**

Prof Madimabe Geoff Mapaya is a professor in African Studies at the University of Venda. His study interests lie primarily in mmino wa setšo (Indigenous African music) and its implications on 21st century African Musicology ideas. Professor Mapaya is a member of the School of Human and Social Sciences Executive Board and heads the Music Department. He is a founding member of the Indigenous Music and Oral History Project (IMOHP)

housed at the University of Venda. Apart from his university duties, Professor Mapaya is a nationally acclaimed performing and recording Afro-jazz musician with several albums to his name.

In addition to authoring the monograph entitled the Music of Bahananwa, he served as a scientific editor for the Cultures of Limpopo publication in which he authored a chapter on dipela tša harepa. He is currently co-editing a compendium entitled John Blacking and the current African Musicology: Reflections, reviews, analyses and prospects (A companion to African Musicology) to be published later this year by African Books Collective Publishers. Professor Mapaya has guest-edited several Department of Higher Education and Training (DHET) accredited journals, the Talking Drum Newsletter, and continues to contribute research articles to both national and international peer-reviewed journals. Some of his research findings and embryonic ideas have been tested in national and international conferences.

Professor Mapaya served in the South African Qualifications Authority (SAQA) standard generating bodies for the Music Industry, ran several arts and culture related workshops and learnerships. Apart from being the lead author of the country's Curriculum Assessment Policy Statement (MUSIC), he served as the Chair of the Limpopo Arts and Culture Council (LACC) and as an ordinary member of the National Arts and Culture Council of South Africa (NAC).

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### **Professor Mugeru Gitari**

Prof. Gitari WM was born in Kenya, where he completed Bachelor of Educ Sci (Chem and Maths) and MSc (App Chem). In 2003, Prof. Gitari was awarded a NRF-WRC bursary for doctoral studies in Chemistry at the University of the Western Cape (UWC) completing in 2006. His thesis focused on the chemistry and geochemistry of utilization of coal fly ash (CFA) for treatment of Acid Mine Drainage (AMD). The work was rated the best among projects sponsored by ESKOM power utility and CoalTech 2020 with huge potential for solving disposal and environmental challenges associated with CFA and AMD. Six papers from the work were published in high impact journals. Prof Mugeru continued as a postdoctoral research associate at UWC for 3 years (2006-2009) specializing on beneficial application of CFA and its interaction with mine and industrial effluents in addition to conversion of CFA into Zeolitic materials.

In 2010 Prof Mugeru was appointed Senior Lecturer at University of Venda, School of Environmental Sciences where he is currently undertaking his research activities. Prof Mugeru current research activities include: AMD Treatment with magnesite and Chemistry thereof. Coal fly ash chemistry and beneficiation, Synthesis of novel metal oxide modified clay minerals for defluoridation of groundwater, Synthesis of novel metal oxide modified diatomaceous earth for defluoridation of groundwater, Mine tailings chemistry/geochemistry, their remediation and beneficiation, Geopolymerization of Silica and Alumina rich mine tailings into construction materials. Nano metal oxide modified biopolymer composites for water treatment, Development of adsorbents for water treatment in point of use devices, Detection and quantification of emerging organic pollutants in surface waters, Biogas generation from food wastes, slaughter house slurry and cow dung in rural communities. Current/ongoing project involves development of metal oxide based adsorbents for defluoridation of groundwater and biogas generation in rural communities funded by WRC, ESKOM, NRF and THRIP, AMD treatment using magnesite, bioremediation of algae and microcystins in surface water using indigenous macrophytes, Chemical and mineralogy appraisal of Alumina-Silica rich mine tailings and their potential for geopolymerization. Diatomaceous earth based water filters. Conversion of coal fly ash into mesoporous materials using low temperature sonochemical processes. Prof Mugeru Gitari has published over 63 peer reviewed articles in journals and over 101 articles in

conference proceedings, abstracts, presentations and Technical reports to Industries. Prof Mugeru Gitari also holds 3 patents in Acid Mine Drainage treatment using coal fly ash and magnesite. He has graduated 34 postgraduate students at Postdoc fellows, PhDs, MSc and Honors level.

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### **Professor Sunday Samson Babalola**

Prof Sunday Samson Babalola started his research career at the University of Ibadan, Nigeria in 1995 and moved to the University of Namibia (UNAM) in 2012. In UNAM, he was the Coordinator of Psychology Unit, Department of Human Sciences before he joined the Department of Human Resources Management, University of Venda, South Africa in 2014.

All through his research history, his emphasis has been geared towards investigating the psychological processes that are central to individual diverse behaviors and motivations in the workplace. His research has been focused on a systematic application of psychology to the world of work, resulting in multiple lines of research with major contributions to theory building and methodology in three areas: (a) Work attitudes and human capital management; (b) Entrepreneurial studies; (c) Work related gender issues and health issues.

(a) Work attitudes and human capital management: His research work project cultural environment as a prime factor in employees' attitude with work attitudes and workplace deviance being part of the major workplace challenges in emerging economy countries. While identification of positive leadership serves as psychological guide in controlling fraudulent behaviors in organizations.

(b) Entrepreneurial studies: These aspect explore the factors which foster entrepreneurial growth such as disposition and contextual factors which not only significantly influence performance but also helps in understanding business success.

(c) Work related gender issues: Researches on the application of psychology principles to gender and health issues, add to the debate on gender issues and development with the outcomes showing that the amount and quality of power held; has critical issues for

working women effectiveness. Finally, his research has contributed to the use of both quantitative and qualitative approaches in socio-psychological studies of issues.

Prof Sunday Samson Babalola's current research is on work attitude, resilience, motivation and the meaning attached to work as employers and employees. It aims to assess the tenacity and commitment to be successful in the face of challenging competitiveness and scarce resources in the sub-urban and rural communities. Babalola SS intends to explore both the qualitative and quantitative methods in design and analysis to gain more useful insight into work related issues.

**Selected research outputs:**

1. Babalola, SS & Oladipo, SE, & Chovwen, CO. (2015). *Inkanyiso: J. Hum. & Soc. Sci*, 7(1), 29-37.
2. Owolabi, AB & Babalola, SS. (2014). *Inter J. Hum & Soc.Sci. Inv*, 3(4), 31-38.
3. Babalola, SS, Dosumu, EB & Shino, E. (2014). *The Anthro*, 17(2), 501-507.
4. Babalola, SS & Marques, L. (2013). *J. Soc. & Develop. Sci*, 4(9), 435-445.
5. Babalola, SS. (2013). *Afri J. Bus. Manage*, 7(3), 206-212.
6. Babalola, SS & Omobowale, AO. (2012). *Inkanyiso: J. Hum. & Soc. Sci*, 4(2), 128-136
7. Akintayo, ID & Babalola, SS. (2012). *Inkanyiso: J Hum. & Soc.Sci*, 4(2), 83-90
8. Owolabi, AB & Babalola, SS. (2011). *Europe's J. Psych*, 1/2011, 99-111
9. Babalola, SS. (2010). *Ife Psychologia: An Inter J*, 18(2), 108 - 126.
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11. Babalola, SS. (2009). *Inter. J. Bus & Manag*, 4(11), 184-192.
12. Babalola, SS. (2009). *Inter. J. Bus & Manag*, 4(10), 81-88.
13. Babalola, SS. (2009). *J. of Human Values*, 15(1), 61-75.
14. Akintayo, D & Babalola, SS. (2008). *Inter. Bus & Econ. Res J*, 7, 39- 45.

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### **Professor Mokgale A. Mappoga**

Professor Mokgale Makgopa is a teacher by profession and taught at high schools and a college of education that focused on the training of teachers. Professor joined the University of Venda in 1996 and went through all the ranks until appointed as Full Professor in May 2010. Currently, Prof Makgopa serves as the Dean of School for Human and Social Sciences, the position he occupied as from 01 June 2010. The School of Human and Social Sciences is made up of six departments, two centres and one institute. The current staff component is 76 with a total enrolment of 2300 under-graduate and post graduate students. The School of Human and Social Sciences is the second biggest school out of eight schools within the University of Venda in terms of staff component and student population. Through, teaching, learning and research, the school addresses the needs and challenges of the disciplines in the Humanities and Social Sciences within the SADC. Professor Makgopa is an alumina of UNISA and Stellenbosch and he holds a Doctor of Philosophy and Literature from UNISA. Prof Makgopa is seasoned and renowned international scholar in African Literature (all the genres), Indigenous Knowledge Systems (IKS), Sociolinguistics, Onomastics and Folklore. Prof Makgopa is a C3 NRF rated researcher and has researched, published in peer reviewed and accredited journals, books and book chapters. One of his folklore books with the title” Todi ya Batlogolo” is currently prescribed for Grade 12 learners. For the past five Years, Prof Makgopa presented 60 papers to Regional and International Conferences. This made him to travel extensively and he has visited the following African countries; Lesotho, Botswana, Mozambique, Zimbabwe, Malawi, Kenya, Senegal and Gambia. Prof Makgopa also visited the following countries on work related and conferencing matters; Brazil, Venuezela, US, France, Italy, Singapore, Japan, UK, Germany, Thailand, Trinidad and Tobago, Spain, Portugal, and Australia. For the past five years Prof Makgopa supervised 50 Honours students, promoted 22 Masters Students and supervised 15 PhDs in the following areas of his specialization: African Studies, Literature, Indigenous Knowledge Systems (IKS) Onomastics and folklore. Prof Makgopa as an external examiner for the following universities at MA and PhD level; University of Limpopo, University of South Africa, Rhodes University, Stellenbosch University, University of KwaZulu Natal and the

University of Botswana. Prof Makgopa is a member of the following academic associations, SAFOS, ALASA, ISOLA, WOCAL and IATIS.

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### **Professor Stanford Shateyi**

Prof Stanford Shateyi obtained his Bsc Honours (1997) degree in Applied Mathematics from the National University of Science and Technology (Zimbabwe). In 1999, Prof Shateyi received a NUFU scholarship to do a Masters degree at the University of Zimbabwe. He then graduated with a Master of Science degree in 2001, specialized in fluid flows over compliant surfaces. His Masters thesis was published in Australian & New Zealand Industrial and Applied Mathematics Journal in 2002. In 2008 he graduated with PhD degree from the University of Zimbabwe. His PhD focused on natural convection in boundary layer flows in the presence of a chemical reaction. He managed to publish five papers in peer-reviewed journals from his PhD thesis.

Prof Shateyi's research area of interest is Fluid Mechanics and Numerical Analysis. He has been involved in research on topics such as magneto hydrodynamics, steady and unsteady flows, stretching and shrinking surfaces, among others. He has analyzed the effects of different significant parameters affecting fluid flows in both Newtonian and Non-Newtonian fluids, both Darcy and Non-Darcy flows. Prof Shateyi is a member of a research group in Fluid Mechanics which is involved in developing new analytical and numerical techniques. This research group has even managed to improve well known analytical techniques such as the well celebrated Homotopy analysis method. This research group has managed to breed methods like Spectral analysis and Homotopy analysis together to produce more accurate results.

Prof Shateyi has so far published eighteen papers in peer-reviewed journals and two book chapters and has four articles in press. Prof Shateyi has mentored more than twenty post graduate students both in Zimbabwe and at the University of Venda. Currently he is supervising masters students both based at the University of Venda. He also serves as a reviewer for several international journals such as Acta Physica Polonica A, South African Journal of Science, Advanced Research in Applied Mathematics, Journal of Chemical Engineering and others.

Prof Shateyi has recently obtained a Y2 Rating from NRF. A researcher in this group is recognized by all or the overriding majority of reviewers as having the potential to establish him/herself as a researcher (demonstrated by recent research products).

Prof Shateyi is currently working on a number of research problems in Computational Fluid Dynamics and have more than ten articles under review in different peer-reviewed journals and is also working on a proposal for a PhD student.

### **Selected research outputs**

1. **S. Shateyi**, and S. S Motsa, Boundary layer flow and double diffusion over an unsteady stretching surface with Hall effect, **Chemical Engineering Communications, (In Press)**
2. S.S Motsa, P. Sibanda, G. Marewo and **S. Shateyi**, A note on improved in homotopy analysis method for solving the Jeffery-Hamel flow, **Mathematical Problems in Engineering, (In Press)**
3. S.S Motsa, and **S. Shateyi**, A new approach for the solution of three-dimensional magnetohydrodynamic rotating flow over a shrinking, **Mathematical Problems in Engineering, (In Press)**
4. **S. Shateyi**, and S. S Motsa, Hydrodynamic non-Darcy flow, heat and mass transfer over a stretching sheet in the presence of thermal radiation and Ohmic dissipation, **The Canadian Journal of Chemical Engineering, (In Press)**
5. S. S Motsa, **S Shateyi** and Z Macula, Homotopy analysis of free convection boundary layer flow with heat and mass transfer, **Chemical Engineering Communications, (In Press)**
6. **S. Shateyi** and S. S. Motsa, "Variable Viscosity on Magnetohydrodynamic Fluid Flow and Heat Transfer over an Unsteady Stretching Surface with Effect". Volume 2010, Article ID 257568, 20 pages, doi:10.1155/2010/257568, **Boundary Value Problems.**
7. S.S. Motsa, P. Sibanda, F.G. Awad, **S. Shateyi**, "A new spectral-homotopy analysis method for the MHD Jeffery-Hamel problem," **Computers and Fluids**, 15 (2010), 2293–2302.
8. **S. Shateyi**, S.S Motsa and Sibanda, "The effects of thermal radiation, Hall currents, Soret and Dufour on MHD flow by mixed convection over a vertical surface in porous media," **Volume 2010, Article ID 627475, 20 pages**, Journal of **Mathematical Problems in Engineering.**
9. S.S Motsa, and **S. Shateyi** "*Analytical solution of nonlinear Batch reaction*

- kinetics equations,” ANIZIAM J, 51, E, E37-E56, 2010.*
10. S.S Motsa, **S. Shateyi** and P. Sibanda, “A model of steady viscous flow of a micropolar fluid Profiven by injection or suction between a porous disk and a non-porous disk using a novel numerical technique Published Online: Aug 4 5:15PM DOI: 10.1002/cjce.20366 **Canadian Journal of Chemical Engineering.**
  11. S.S Motsa, **S. Shateyi** and P. Sibanda, “Homotopy analysis of heat and mass transfer boundary layer flow through a non-porous channel with chemical reaction and heat generation,” Published Online: Aug 4 2010 DOI: 10.1002/cjce.20368 **Canadian Journal of Chemical Engineering.**
  12. S.S Motsa, P. Sibanda and **S. Shateyi**, “A new spectral-homotopy analysis method for solving a nonlinear second order BVP, **Communications. In Nonlinear Science and Numerical Simulation, Volume 15**, (2010), 2293-2302.
  13. S. S Motsa and **S. Shateyi** **Approximate** Series Solution of Natural Convection Flow in the presence of radiation, **Journal of Advanced Research in Applied Mathematics, 2010, Volume 2, Issue1, pp 17-29.**
  14. **S. Shateyi** and S. S Motsa “Thermal radiation effects on heat and mass transfer over an unsteady stretching surface,” **Volume 2009: Mathematical Problems in Engineering.** doi.10.1155/2009/965603.
  15. **S. Shateyi**, P. Sibanda and S S. Motsa, “Convection from a stretching surface with suction and power-law variation in species” **Journal of Heat and Mass Transfer**, Volume 45, Number8/June 2009.
  16. **S. Shateyi**, “Thermal radiation and buoyancy effects on heat and mass transfer over a semi-infinite stretching surface with suction and blowing”, **Journal of Applied Mathematics** Volume 2008, doi.10.1155/2008/ 414830.
  17. **S Shateyi**, P. Sibanda and S S. Motsa, “On the asymptotic approach to thermosolutal convection in heated slow reactive boundary layer flows”, **Journal of Applied Mathematics**, Volume 2008, doi.10.1155/2008/835380.
  18. **S Shateyi**, P. Sibanda and S S. Motsa, “Inviscid instability analysis of a reactive boundary-layer flow,” **JP Journal of Heat and Mass Transfer** Vol. 2 No. 2 pp 117 – 133, 2008
  19. **S Shateyi**, P. Sibanda and S S. Motsa, “MagnetohyProfodynamic flow past a vertical plate with radiative heat transfer”. **Journal of Heat transfer**, Volume 129, pp 1708 – 1713, 2007.
  20. **S Shateyi**, P. Sibanda and S S. Motsa, “An asymptotic analysis of convection in boundary layer flow in the presence of a chemical reaction,” **Archives**

*of Mechanics*. Volume 57, Issue 1, pp 25-41, 2005.

21. S S. Motsa, P. Sibanda and **S Shateyi**, "Linear stability of two dimensional flow subject to three dimensional perturbations in a channel with a flexible wall. *Archives of Mechanics*," Volume 56, Issue 4, pp 293-311, 2004.

22. **S Shateyi**, P. Sibanda and S S. Motsa, "Three dimensional stability of heated or cooled accelerating boundary layer flows over a compliant boundary. *ANZIAM J.* 44(E) PPE55-E

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### **Professor Stefan H. Foord**

Professor SH Foord is Y2 rated. He obtained his BSc (Zoology and Mathematics, 1992) and BSc Honours (1993) from University of Pretoria. He was appointed as a lecturer at the University of Venda in 1997 and received his PhD in the Systematics of the Afrotropical representatives of the spider family Hersiliidae in 2005 at the University of Pretoria. He was promoted to senior lecturer in 2008 and is currently the HOD of the

Department of Zoology. In this same year he was also appointed as a Core Team Member of the Centre of Excellence for Invasion Biology (C.I.B).

He has an inordinate fascination with invertebrate diversity patterns (spiders in particular) and the drivers of these patterns at local and regional scales. These drivers include human induced climate change and biological invasions. As insects and spiders comprise the bulk of terrestrial diversity, provide essential ecosystem services and are sensitive to the environment at point localities, they are appropriate model organisms to study environmental change. He has 15 years field experience in invertebrate inventories, both aquatic and terrestrial, has undertaken several collecting trips throughout the provinces of Limpopo and Mpumalanga in South Africa, curates a growing collection of > 3000 spider specimens at UniVen and has contributed several specimens to the largest arachnid collection in Africa at the Plant Protection Research Institute in Pretoria as part of the South African National Survey of Arachnida of which he was a team leader.

He has attended and presented papers at six international conferences, organized one national conference, reviewed manuscripts for eight journals, both international and national. He teaches evolution and conservation ecology at under and postgraduate levels.

He has an ongoing collaborative initiative with professional South African arachnologists with a large-scale focus on spider diversity in South Africa. He has also submitted a funding proposal to the NRF on Afrotropical salticid (jumping spider) systematics in collaboration with a Russian counterpart, Galina Azarkina and is currently revising the Afrotropical representatives of pirate spiders, family Mimetidae. His postgraduate collaborations include the long term monitoring of ants, spiders and beetles across an elevational gradient. The initial focus is to identify the drivers of diversity across the western part of the Soutpansberg Mountain, while the impact of ENSO and climate change forms medium to longer term objectives respectively. His honours level students have several projects where aquatic macroinvertebrates and adult Odonata are used as indicators of the effectiveness of invasive alien clearing in the eastern parts of the Soutpansberg and prospective PhD students will investigate beetle and ant beta diversity patterns in the Soutpansberg mountains while the distribution and conservation status of Samango monkeys will form the focus of another thesis. Proposals have also been submitted for an outreach project at the Vuwani Outreach Programme that will see selected schools monitor ant assemblages across an elevational transect across the eastern Soutpansberg complementing the transect in the western Soutpansberg mountains.

### **Selected research outputs**

1. Muelelwa, M.I., **Foord, S.H.**, Dippenaar-Schoeman, A.S., Stam, E.M. 2010. Towards a standardized and optimized protocol for rapid biodiversity assessments: spider species richness and assemblage composition in two savanna vegetation types. *African Zoology* 45 (2): 273 - 290.
1. Javed, S.M.M., **Foord, S.H.**, Tampal, F. 2010. A new species of *Hersilia* Audouin, 1826 (Araneae: Hersiliidae) from India, with notes on its natural history. *Zootaxa* 2010: 40-50.
2. **Foord, S.H.**, Mafadza, M., Dippenaar-Schoeman, A.S., Van Rensburg, B.J. 2008. Micro-scale heterogeneity of spiders (Arachnida: Araneae) in the Soutpansberg, South Africa: a comparative survey and inventory in representative habitats. *African Zoology* 43: 156-174.
3. **Foord, S.H.** 2008. Cladistic analysis of the family Hersiliidae (Arachnida, Araneae) of the Afrotropical Region with the first records of *Murrícia*, and the description of a new genus, *Prima*, from Madagascar. *Journal of Afrotropical Zoology* 4: 111-141.

4. **Foord, S.H.**, Dippenaar-Schoeman, A.S. 2006. A revision of the Afrotropical species of *Hersilia* Audouin (Araneae: Hersiliidae). *Zootaxa* 1347: 1-92.
5. Dippenaar-Schoeman, A.S., Van den Berg, A.M., Van den Berg, M.A. & **Foord, S.H.** 2005. Spiders in avocado orchards in the Mpumalanga Lowveld of South Africa: species diversity and abundance (Arachnida: Araneae). *African Plant Protection* 11: 8-16.
6. **Foord, S.H.**, Dippenaar-Schoeman, A.S. 2005. First records of the genus Neotama Baehr & Baehr (Araneae: Hersiliidae) from the Afrotropical Region. *African Invertebrates* 45: 125-132.
7. **Foord, S.H.**, Dippenaar-Schoeman, A.S. 2005. A revision of the Afrotropical species of Hersiliola Thorell and Tama Simon with description of a new genus Tyrotama (Araneae: Hersiliidae) *African Entomology* 13: 255-279.
8. **Foord, S.H.**, Ferguson, J.W.H. & Van Jaarsveld, A.S. 2003. Coleopteran assemblages in Afromontane grasslands reflect fine-scale variation in vegetation. *Environmental Entomology* 32:797-807.
9. Ferguson, J.W.H., Van Jaarsveld, A.S., Johnson, R., Bredenkamp, G.J., **Foord, S.H.**, Britz, M. 2003. Rodent-induced damage to pine plantations: a South African case study. *Agriculture, Ecosystems, and Environment* 95: 379-386.
10. **Foord, S.H.**, Dippenaar-Schoeman, A.S., Van der Merwe, M. 2002. A check list of the spider fauna of the Western Soutpansberg, South Africa (Arachnida: Araneae). *Koedoe* 45: 35-43.
11. **Foord, S.H.**, Ferguson, J.W.H. & Van Jaarsveld, A.S. 2002. Endemicity of Afromontane grasshopper assemblages and its implications for grassland conservation. *African Journal of Ecology* 40: 318-327.
12. Bredenkamp, G.J., Ferguson, J.W.H., **Foord, S.H.**, De Frey, W.H. 1999. Floristic assessment of an Afromontane fragmentation experiment in a pine plantation. *African Journal of Ecology* 37: 49-60.
13. **Foord, S.H.**, Van Aarde, R.J., Ferreira, S.M. 1994. Seed dispersal by vervet monkeys in rehabilitating coastal dune forests at Richards Bay. *South African Journal of Wildlife Research* 24: 56-59.

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**Dr Isaac Ndlovu**

Dr Isaac Ndlovu obtained his PhD in English at Stellenbosch University and subsequently joined the University of Cape Town as a postdoctoral fellow. Dr Ndlovu joined the University of Venda, English Department (Literature Section) on 1 June 2012. Some of his latest publications in Accredited Journals are:

**Selected research outputs**

1. “Autobiography, History, Memory and Nostalgia in Beckett’s *Radical Middle* and Lewin’s *Stones against the Mirror*”. *Journal of Southern African Studies* (Accepted)
- 2.Ndlovu, Isaac & Dube, Bevelyn “Response to Maurice T. Vambe’s ‘Zimbabwe genocide: voices and perceptions from ordinary people in Matabeleland and the Midlands provinces, 30 years on’”. *African Identities* 2013. (Forthcoming)
- 3.“Of Shorelines, Borderlines and Shipwrecks in Justin Fox’s *The Marginal Safari: Scouting the Edge of South Africa*”. *Alternation*. (2013) Special Edition No. 6
- 4.“Gender, the subaltern and the ‘construction of silence’ in M.G. Vassanji’s *The Gunny Sack* and *The Book of Secrets*.” *English Studies in Africa*, October (2013) 56: 2
- 5.“Prison and Solitary Confinement: Conditions and Limits of the Autobiographical Self”. *English Studies in Africa*, (2012) 55:1, 16-34.

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**Dr. Marizvikuru Mwale-Manjoro**

Dr. Marizvikuru Mwale-Manjoro is a Senior Lecturer in the Institute for Rural Development, School of Agriculture. She has more than 10 years of teaching and training experience at institutions of Higher Education in and outside South Africa. Upon completing her doctoral studies with the University of Fort Hare, South Africa, in May 2010, Dr Mwale-Manjoro joined the then Centre for Rural Development and Poverty Alleviation at UNIVEN in October 2010 on a two year postdoctoral fellowship.

During the period at UNIVEN she actively participated in community engagement, postgraduate supervision, research and publication, and she received Excellence in

Research award for 2012. She then joined North-West University, Mafikeng campus in April 2013 as a postdoctoral research fellow in the Indigenous Knowledge Systems (IKS) Centre.

At North-West University Dr. Manjoro was actively involved in research and publication, teaching and mentorship of postgraduate students some of which have graduated already. She was a coordinator of the Department of Agriculture Forestry and Fisheries (DAFF) project on indigenous foods, and medicinal plants in North West Province. While with the IKS Centre Dr Manjoro was nominated to attend the 16<sup>th</sup> International Summer School in Biosphere Science at Hiroshima University, Japan in September 2013. Dr Manjoro was also awarded the best postdoctoral research fellow in 2013 by the Faculty of Agriculture Science and Technology at North West University, Mafikeng campus. She then joined the University of Venda as a Senior Lecturer in 2014.

It is worth noting that apart from being an author/co-author of 39 peer-reviewed papers in various journals and two (2) conference proceedings, Dr. Mwale-Manjoro has a remarkable record of successful supervision/co-supervision of postgraduate research. Dr Manjoro's research work is mainly on animal production, animal nutrition and ethno-veterinary medicine for improved food security and nutrition in rural communities. On-going work encompasses a baseline study in Vhembe district of Limpopo province with the objective of gathering and documenting information on ethno-veterinary medicine for treating and controlling livestock diseases and parasites in village chickens. The work is done in collaboration with Vhembe District Municipality LED Agriculture Manager, Department of Agriculture and Rural Development official together with extension officers, knowledge holders and knowledge holders in communities, as well as staff members and postgraduate students at the University of Venda. The work is funded by the University of Venda Research and Publication Committee.

## SECTION SIX

### PROFILES OF RESEARCH PROFESSORS AT UNIVEN



**Professor Pascal O. Bessong (Research Professor School of Mathematical and Natural Sciences)**

Professor Bessong holds a BSc (Hons) degree in Microbiology, MSc in Medical Microbiology and Parasitology, and PhD in Microbiology. From 2008 to 2012, he headed the Department of Microbiology at the University of Venda. In 2012, he was appointed research professor, to foster institutional drives for quality research and postgraduate student training, mentoring of junior faculty, and laboratory equipment infrastructural development.

He is the founder and head of the HIV/AIDS and Global Health Research Programme at the University of Venda, comprising investigators and field workers from the biologic, medical, mathematical, and social aspects of human infectious agents. His research focuses on microbiological investigations impacting on global health, and translational science; with specific emphasis on how HIV genetic diversity impacts the efficacy and sustainability of first line highly active antiretroviral therapy (HAART); how viral enteric pathogens impact vaccine response, gut integrity, growth and cognitive development in young children; and the impact of HAART on the pathogenesis of malignancy associated viruses.

In the last five years, he has authored/co-authored more than 50 articles in peer reviewed journals, including articles in PLOS Medicine, Lancet Global Health, Clinical Infectious Diseases, Population Health Metrics, International Journal of Molecular Sciences, AIDS Research and Human Retroviruses, Archives of Virology, and Journal of Medical Virology. He has given several plenary and oral presentations at international conferences and to professional societies. His google scholar H-index stands at 25, with over 1600 citations. He is currently the principal investigator (PI) or country PI of research grants supported by the South Africa Medical Research Council; Technology Innovation Agency; National

Research Foundation; Bill and Melinda Gates Foundation through the Foundation of the National Institutes of Health/University of Virginia; and the International Centre for Diarrhea Diseases Research. Previous research support included grant awards from International Society for Infectious Diseases, South African AIDS Vaccine Initiative, and Department of Health.

His passion for human capacity development has led to the establishment of three student training grants:

1. Gene expression and biotechnology course: a national annual 2-week training course for postgraduate students in the life sciences is supported by the Department of Science and Technology. So far, about 120 students selected from 13 different South African universities have benefited from this initiative.
2. A Global Infectious Diseases Research Training grant awarded by Fogarty International Center of the National Institutes of Health (USA), for which he serves as the South Africa co-director (with Prof Richard Guerrant, and Rebecca Dillingham of University of Virginia, USA as co-directors). Under this award, year 3-4 UNIVEN doctoral students with research interest in infectious diseases are selected through a competitive process to travel to the US for additional training and mentoring for a year. Since its inception in 2014, students in the fields of public health, mathematical modeling, psychology, bacteriology, parasitology and virology have been selected.
3. Water and Health in Limpopo Innovation Postdoctoral Fellowship Program, also supported by Fogarty International Center. This programme provides opportunities in multidisciplinary research and mentoring for junior faculty with doctoral degrees.

Professor Bessong has received several honours, including nomination for election into the governing council of the International AIDS Society; four times recipient of the Vice Chancellor's Research Excellence Award as overall best researcher, host for the Carnegie African Diaspora and the National Science Foundation/USAID research fellowship awards on HIV drug resistance, and Global Health in 2014 and 2015 respectively. He is a professional natural scientist, a member of the South African Cytochrome Researchers Network, South African Prostate Cancer Society, and Diarrhea Innovations Group, and board member of the HIV/AIDS Prevention Group. On invitation, he has facilitated workshops in Botswana, Kenya and South Africa on grantsmanship and graduate student training. He has research and human capacity development collaborators in Australia,

Brazil, Bangladesh, Cameroon, Egypt, Kenya, Nigeria, South Africa, and USA. Institutionally, Professor Bessong is a member of Senate, and of the Higher Degrees, Research and Publication, and Research Ethic Committees.

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**Professor Mogomme A. Masoga (Research Professor, School of Human and Social Sciences)**

An *alumni* of the University of the Free State (UFS). 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 currently the Research Manager at the Indigenous Knowledge Systems, having headed the Historical Sciences School at the University of the North, founded the African Renaissance Center at the 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. Currently, appointed the Research Professor in the School of Human and Social Sciences at the University of Venda.

**Recent published works:**

1. *Poverty and inequality in perspective: A faith-based dialogue on the perpetual social marginalization, exclusion and vulnerability in South Africa*, **Theologia Viatorum: Journal of Theology and Religion in Africa**, Vol. 39 (2), 2015, 1-23.

2. *Music knows no boundaries: The case of Mme Rangwato Magoro*, Southern **African Journal for Folklore Studies**, Vol. 25 (1), 2015, 80-100.
3. *Constructing 'national' sacred space(s) – notes, queries and positions: The case of the South African Freedom Park monument*, In: Post P, Nel P & Beek WA, **Sacred spaces and contested identities: Space and ritual dynamics in Europe and Africa**, 2014, Africa World Press: Trenton, 267-278.
4. *Sacred space and the ritual of the anthill: Southern African reflections*, In: Post P, Nel P & Beek WA, **Sacred spaces and contested identities: Space and ritual dynamics in Europe and Africa**, 2014, Africa World Press: Trenton, 71-87.
5. *African indigenous ecology control and sustainable community livelihood in southern African history*, **International Journal of African Renaissance Studies**, Vol. 9 (2), 6-19.

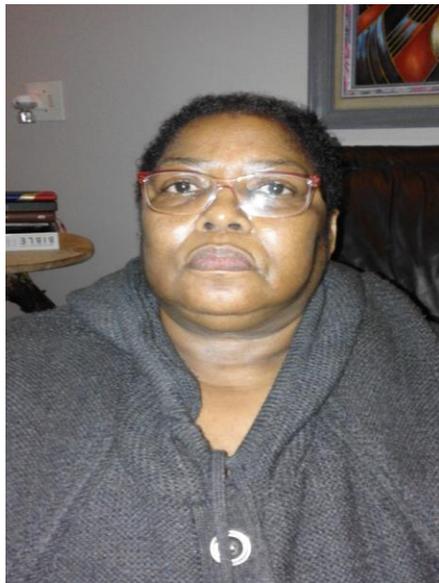
#### **Upcoming publications (2016):**

1. *Climate Change Adaptation and Indigenous Knowledge: Prospecting African Union Channels for Influencing National Policy – Indilinga: Africa Journal of Indigenous Knowledge Systems*, Vol. 15 (1), 2016.
2. *Critical reflections on selected local narratives of contextual South African Indigenous Knowledge*, Chap. 14, In: **Handbook on Indigenous Knowledge Systems in Developing Countries**, Editor: Ngulube P, Publisher: **International Publisher of Progressive Information Science and Technology Research**.
3. *Chasing the wind amidst roaring lions! Problematization of religiosity in the current South African socio-political and economic landscape - Theologia Viatorum: Journal of Theology and Religion in Africa*.
4. *Folklorisation and reoralisation in context: Some narratives on the current challenges facing South Africa's migrant labourers – Journal of Africa Public Service and Performance Review*.
5. *Some perspectives on the impacts of ritual murders in the Vhembe district of South Africa: An interpretative phenomenological approach – International Journal of Social Sciences*.

#### **Current research collaborations:**

- Centre for the Advancement of African Societies (CASAS) – International Association

- The 2016 SAFOS International Conference Convener to be co-hosted by the University of Venda School of Human and Social Sciences and the University of Limpopo Faculty of Humanities.
- The Univen School of Human and Social Sciences Research Development Programme with the Human Sciences Research Council – Dr Maphosa. Organising research writing retreats for staff.



**Professor RT Lebese (Research Professor, School of Health Sciences)**

Doctor Curationis and Masters degree in Nursing Science from University of Venda

**Conference Presentations**

- Attended and presented a poster, “ Mapping process in Musekwa by student nurses using participatory rural appraisal method” Nursing odyssey international conference University of Free State.
- Attended and presented a paper, “Vatsonga cultural care of children with measles at home. UNISA international conference. 2005
- Attended and presented a paper, ‘teenager’s experiences of sexual health dialogue in the rural villages of Vhembe District in Limpopo Province’ International nurses’ congress. Durban South Africa. 2010
- Presented a paper, “the use of participatory rural appraisal method in implementing community based education for student’s nurses at the University of Venda. A.P.P.A.C. Greece.
- Presented a Paper at the SASE international conference held in Tshipise hosted by the University of Venda. 2010
- Presented a paper at the **EPS Hohhot International Medical Development Forum 2011** held from August 3<sup>rd</sup>-5<sup>th</sup>, 2011 in Hohhot, Inner Mongolia, China.
- Presented a paper at the National Health Conference in Karibu Lodge Hosted by School of Health Sciences University of Venda. October, 2011.

- Presented a paper at the 7<sup>th</sup> International Nurse practitioner network conference held at Royal College of Nursing, London from 20<sup>th</sup> to 23<sup>rd</sup> August 2012.
- Presented a paper at the Southern African Society for Education International Conference, Great Zimbabwe University, Masvingo, Zimbabwe, 4-6 October 2012
- Attended and presented a poster, 'perceptions of teenage boys on teenage fatherhood at Tshino village of Vhembe District, Thulamela Municipality, Limpopo Province" International nurses' congress. Melbourne, Australia. 16-24 May 2013

### **RESEARCH ACTIVITIES:**

- A researcher in a collaborative project on "Assessment of knowledge, attitudes, health believes and risk factor practices related to tuberculosis in the rural communities of Limpopo Province. SANPAD project 2007-201
- Leader in a project on 'Breast self examination education campaign in Vhembe District. CANSA Limpopo and University of Venda Project.
- Leader in the project 'knowledge, attitudes and perception of Univen students towards teenage pregnancy' commissioned by the University of Venda.

### **RESEARCH SUPERVISION**

#### **Graduated students supervised**

- A supervisor for a M.Cur student: Mrs Sukumani J.O "Experiences of family members in caring for TB patient at home in Vhembe District, Limpopo Province of SA. **Completed.**
- A co-supervisor for a MPH student: MR Manganye B. S Attitudes and perceptions of professional nurses towards caring for HIV positive patients in Vhembe district of Limpopo province (SA) **Completed.**
- A supervisor for a MPH student: Singo V.J The views of aged people in Vhembe district about the spread of HIV and AIDS. **Completed.**
- A supervisor for a MPH student: Ms. Maswanganyi N.V 'Views of nurses concerning low TB cure rate at Greater Giyani municipality in Mopani district. **Completed.**
- A supervisor for MCur student: Malindi F.C Knowledge and attitudes of pregnant women towards prevention of mother-to-child transmission at Capricorn District: Limpopo province, South Africa. **Completed.**

- A supervisor for MCur student: Ramavhoya Thifhelimbilu Irene Knowledge of mothers with regard to immunization of children from 0 – 6 years in the Tshino- Mutsha local area (Vhembe District) **Completed.**
- A supervisor for MCur student Mabunda Nkhensani Florance ‘Evaluation of the implementation of Batho Pele principles at Evuxakeni Hospital in Mopani district, Limpopo Province’ **Completed.**
- A co-supervisor for a MCur student: Ramarope J ‘Factors contributing to migration of nurses in Vhembe district’.
- A supervisor for MPH student: Chueng M.J. ‘Perception of teachers about substance abuse by learners at Moshubaba High School in Capricorn District of Limpopo Province. **Completed.**
- A co-promoter for a PhD student: Ndou (Mpeiwa) ND’ Support model for professional nurses caring for AIDS patients in Gauteng Province’ **Completed..**
- A supervisor for MCur student: Salim Z.. ‘Perception of teenagers about sexual and reproductive services in Mopani District of Limpopo Province. **Completed.**
- A supervisor for MPH student: Mafune V.Rt “challenges experienced by primary and secondary caregivers caring for children on antiretroviral therapy at Mutale Municipality in Vhembe District of Limpopo Province. **Completed.**
- A promoter for Mcur student: R.C Shihundla ‘Factors affecting quality nursing documentation of patient information at selected PHC facilities in Vhembe District, Limpopo Province. **Completed.**

## **PUBLICATIONS:**

### **Publications in SAPSE accredited Journals:**

**R.T Lebese**, Mahoko, N.S, Netshandama, V.O – (2004). Vatsonga cultural care of children with measles at home. Unisa international conference. *Curationis*, 27(1):52-64

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R. T. Lebese<sup>1</sup>\*, M. S. Maputle<sup>2</sup>, J. T. Mabunda<sup>3</sup> and P. K. Chauke<sup>4</sup>. (2015). Knowledge, Attitudes and Perception of Students on Teenage Pregnancy: A Case Study of Rural Based University Students in South Africa. *J Hum Ecol*, 51(1,2): 47-54

J. T. Mabunda<sup>3</sup> R. T. Lebese<sup>1</sup>\*, M. S. Maputle<sup>2</sup>, and P. K. Chauke<sup>4</sup>. (2015). Perceived risk behaviour related to teenage pregnancy among university students in Limpopo Province, South Africa. *J Hum Ecol*, 51(1,2): 66-72

## **SECTION SEVEN**

### **FROM THE DIRECTORATE OF RESEARCH AND INNOVATION**

#### **7.1 Committees and Forum**

##### **7.1.1 Research and Publications**

The Research and Publications Committee (RPC) is a committee of Senate, which foster research and Innovation at the University of Venda. The overall management and promotion of research and innovation at the University of Venda is the responsibility of the Deputy Vice-Chancellor Academic, who discharges this responsibility through the Directorate of Research and Innovation.

RPC Composition:

- DVC Academic
- Director: Research and Innovation
- Deans or Representatives of School RPC and Secundus at the level of Senior Lecture or Professor
- Secretariat Services from the Directorate of Research and Innovation

The committee approves the following applications for financial support:

- Student Postgraduate Support
- Funding in Niche and Non-Niche Areas
- Publication Costs
- National and International Scientific Conference
- National and International Scientific Visits

The committee meets quarterly throughout the year.

##### **7.1.2 University Higher Degrees**

The University Higher Degrees Committee (UHDC) is a standing committee of senate and shall report to Senex and/or Senate. The purpose of this committee is to co-ordinate,

monitor, and promote the quality of postgraduate studies, and to ensure consistency in the application of postgraduate rules across the schools.

UHDC Composition:

- Vice-Chancellor (ex-officio)
- Deputy Vice Chancellor, Academic (ex-officio)
- Registrar (ex-officio)
- Dean or School representative at a Professor level
- Director :Research and Innovation
- Postgraduate Coordinator
- Manager: Quality Assurance
- A maximum of two co-opted members
- Deputy Registrar
- Secretariat Services from the Directorate of Research and Innovation

The committee approves:

- Research proposals for mini-dissertations, dissertations and thesis (Masters and Doctoral),
- The appointment of supervisors/promoters, examiners for dissertations, and thesis,

The committee meets twice a month throughout the year.

### **7.1.3 University Research Ethics**

The University Research Ethics Committee is committed to upholding the highest ethical standards in a research community that is committed to the principles of quality and excellence, accountability, transparency, integrity, respect, diversity and social responsibility, community engagement and Ubuntu. The Research Ethics Committee uses Guidelines and implements the policy which is designed to support ethical standards for research projects seeking approval in the University of Venda. The University Research Ethics Committee is a subcommittee of the Research and Publications Committee.

Ethics Composition:

- DVC Academic
- Director Research & Innovation)

- Researchers elected by Senate and experts in human research, animal research, human and social sciences research: biosafety, legal and human rights, community responsibility, diversity and environmental issues.
- Two members will be external, one professional from health research and another from the community.
- Secretariat Services from the Directorate of Research and Innovation

The Director Research and Innovation and Chairperson have the powers to appoint the sub panels or ad hoc members to deal with a particular protocol as listed below. The four subpanels are as follows:

- Research Ethics Human and Clinical trials
- Research Ethics Social Research
- Research Ethics Animal Research
- Research Ethics Environment and Biosafety

The committee meets quarterly throughout the year.

#### **7.1.4 Research Advisory Forum**

The Research Advisory Forum (RAF) Initiative aims to promote academic success, increased postgraduate and research outputs. The forum targets and creates advisory ways of enhancing conducive environments for the promotion of research, and the growth and development of researchers internationally. RAF is a non-statutory forum; its resolutions are advisory and non-binding.

RAF Composition:

- The Vice Chancellor and Principal (Ex Officio)
- The Deputy Vice Chancellor (Academic)
- The Registrar
- The Director Research and Innovation
- All Professor Emeriti
- All National Research Foundation (NRF) rated Researchers
- All NRF South African Research Chairs Initiative (SARChI) Professors
- One Full Professor from each School
- Secretariat Services from the Directorate of Research and Innovation

The committee meets quarterly throughout the year.

### 7.1.5 Academic Liaison

ALC Composition:

- Deputy Vice Chancellor: Academic – Chairperson
- Director: Research & Innovation
- Director: Community Engagement
- Director: Centre for Higher Education, Teaching and Learning
- Director: Communications and Marketing
- Registrar
- Dean: School of Agriculture
- Director: International Relations

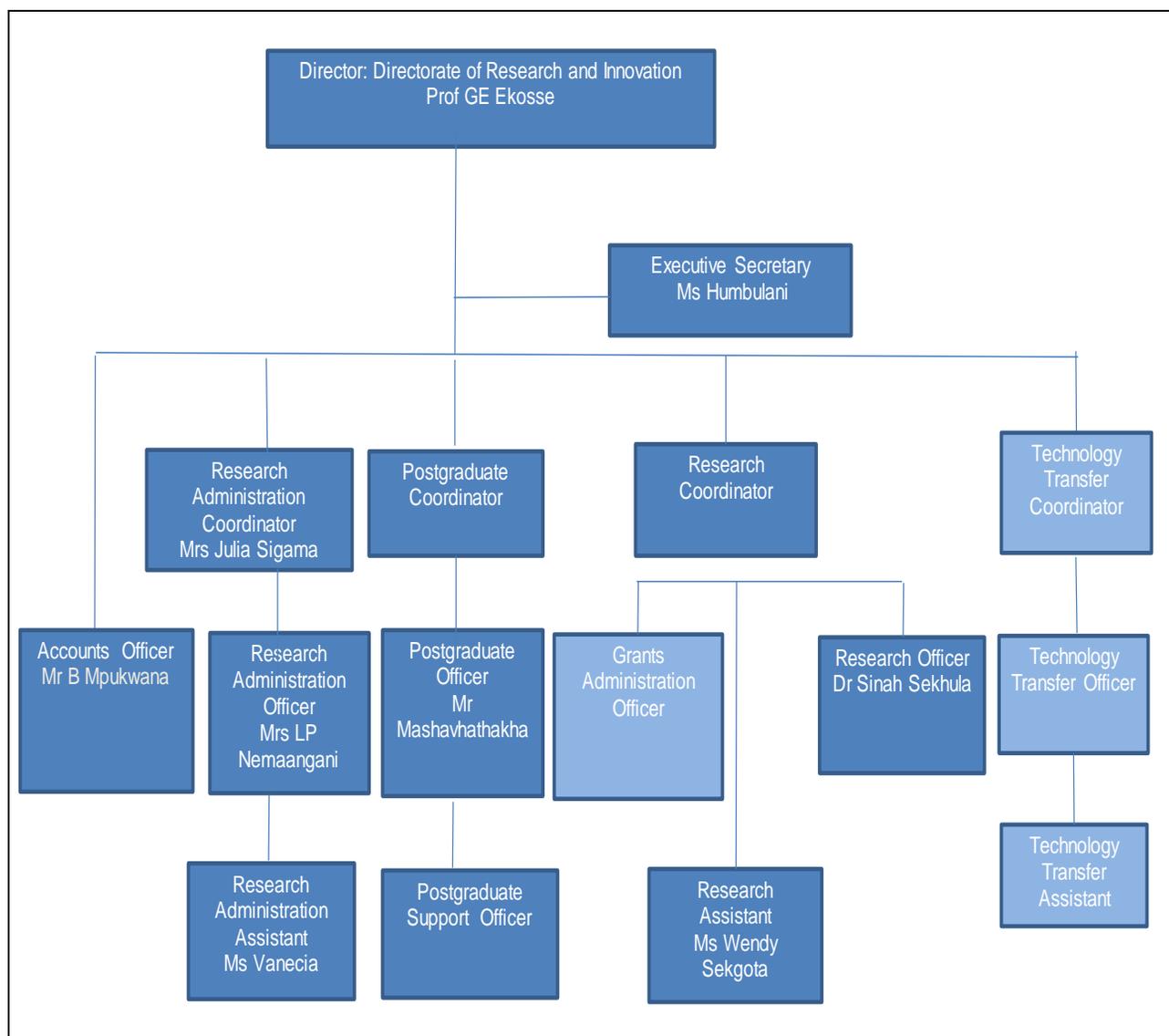
The committee meets quarterly throughout the year

### COMMITTEES AND FORUM

<b>Committees and forum</b>	<b>Chairperson</b>	<b>Secretarial Officer</b>
Research and Publication	DVC Academic – Professor JE Crafford	Research Administration Officer – Mrs P Nemaangani
University Higher Degrees	DVC Academic – Professor JE Crafford	Postgraduate Officer – Mr K Mashavhathakha
University Research Ethics	Director Research and Innovation – Professor GE Ekosse	Research Administration Assistant – Ms V Khoza
Research Advisory Forum	Director Research and Innovation – Professor GE Ekosse	Research Administration Officer – Mrs P Nemaangani
Academic Liaison	DVC Academic – Professor JE Crafford	

## 7.2 Organogram and Staffing

### 7.2.1 Organogram



The positions of the Technology Transfer Coordinator, Technology Transfer Officer, and Technology Transfer Assistant are supported from a NIPMO Grant; Grants Administration Officer funded from NRF Block Grant Interest; and Accounts Officer, Administrative Officer, and Research Development Grant (RDG) Intern not reflected in the organogram are supported by RDG from DHET.

## 7.2.2 Staffing



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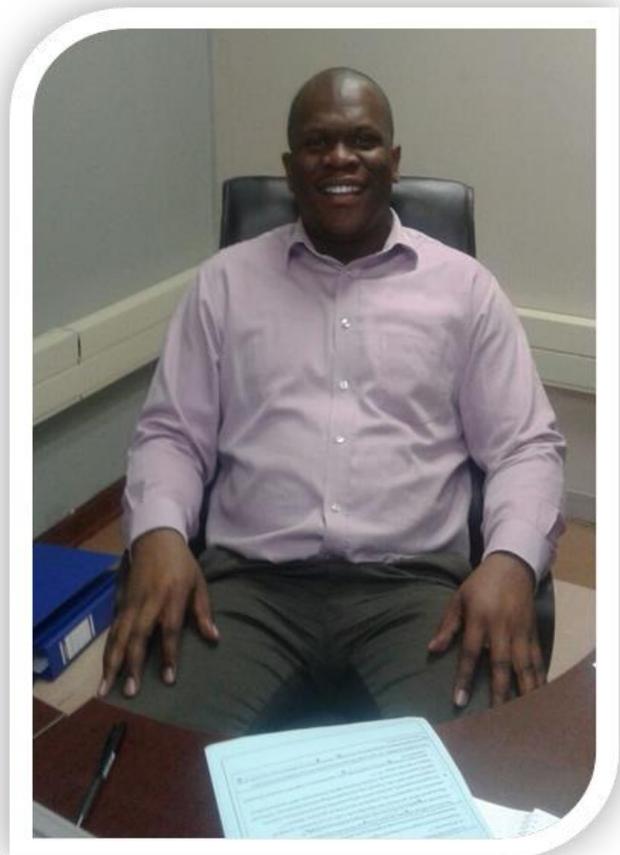


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### **7.3 Special Gratitude from the Director – Professor GE Ekosse**

Special gratitude and thanks is extended from the Director of Research and Innovation to the members of the University Council, Senate and its Research and Research related Committees (Senate Executive, Research and Publications, University Higher Degree, and University Research Ethics Committees), Senior Management Committee, Research Advisory Forum, and Academic Division, for their continuous support in enhancing the research and innovation mandate of UNIVEN. Perpetual and sacrificial services rendered by staff of the Directorate of Research and Innovation during the year enabled us experience very significant growth in the following spheres:

- Advancing the Research and Innovation Mandate;
- Establishing Research Administration and Data Management;
- Promoting the Postgraduate Education Enterprise;
- Fostering Academic Linkages, Partnership, Internationalization and Community Engagement; and
- Ensuring Healthy Financial Sustainability.

Of particular mention are the Vice Chancellor, Professor Mbatii; and DVC Academic, Professor Crafford who provided strategic leadership and were always readily available for consultation. The tireless services of the Deans of the eight Schools (Professor GA Mchau, Dr MP Mulaudzi, Professor J Odiyo, Professor LB Khoza, Professor MA Makgopa, Ms A Lansink, Professor A Kadyamatimba and Professor N Potgieter) in ensuring that staff in their Schools engage in various research undertakings are embraced with a grateful heart. The supporting role of Deputy Deans, and Heads of Departments in fostering research is also sincerely appreciated. We are also grateful to the members of our various research committees and forum who guided us on matters related to strategy and wise operation of UNIVEN research activities. Equally important are the researchers who laboured to ensure that they can generate knowledge which is beneficial to mankind. Our postgraduate students who continually toil day and night to achieve higher qualifications are recognised.

The unflinching supporting role of the Library Services, Community Engagement, Institutional Planning and Quality Assurance, and Centre for Higher Education and Learning provided to the Directorate of Research and Innovation, researchers and postgraduate students is acknowledged. Support from the Operations Division led by the

DVC Operations, Dr J Zaaiman, and the Registrar's Division under the leadership of Professor EA Nesamvuni is much appreciated. Most frankly are staff in the Directorate of Research and Innovation who always go the extra mile to ensure that there is customer satisfaction. These are: the Research Administration Coordinator (Mrs J Sigama), Executive Secretary (Ms H Nemadzudzanyi), Research Officer (Dr S Sekhula), Research Administration Assistant (Ms V Khoza), Research Assistant (Ms W Sekgota), Research administration Officer (Mrs P Nemaangani), Postgraduate Officer (Mr K Mashavhathakha), and the Accounts Officer (Mr B Mpukwana)

## **UNDERSTANDING RESEARCH FROM ITS LETTERS**

### **(Develped by Ekosse)**

R – Reach out yearningly to hidden knowledge;

E – Examine thoughts and ideas with systematic scrutiny and scholarly rigor;

S – Scientifically interrogate elementary findings;

E – Engage committedly with the relevant knowledge bodies in the process;

A – Analyse birthed knowledge for application and further growth of new knowledge;

R – Recognise new knowledge and integrate findings within acceptable precepts;

C – Consolidate knowledge bases to benefit mankind; and

H – Honour those engaged in research endeavours.



***Ndo livhuwa tshumisano ya vhathu vhothe!!***







## **VISION**

To be at the centre of tertiary education for rural and regional development in Southern Africa.

## **MISSION**

The University of Venda anchored on the pillars of excellence in teaching, learning, research and community engagement, produces graduates imbued with knowledge, skills and qualifications which are locally relevant and globally competitive.

## **RESEARCH AND INNOVATION**

### **Vision**

“Elevating basic and applied research to excellence at the University of Venda”

### **Mission**

To be the engine that drives critical, innovative and relevant research for the pursuit of knowledge and for development of local, national and regional communities.



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