Introduction

Mission & Vision

The mission for the Department of Biological Sciences is to train and produce high quality biological scientists, both at undergraduate and postgraduate levels who will play crucial roles in the national development, especially in areas of education, health, agriculture, environment, natural resources and industries. Recognizing that learning is a lifelong endeavor, the Department of Biological Sciences admits both young and mature students. Our Vision is to become a department of high international repute and centre for excellence in training biological scientists in the region, at both undergraduate and postgraduate levels.

Activities

During the academic year 2010, activities undertaken in the Department of Biological Sciences included teaching of undergraduate and postgraduate students. The first group of students completed the new four year NQL level 8 curriculum. The Department also reviewed the MSC Biodiversity Management and Research Programme in preparation for the third intake. Members have been active in research and publications as summarized below.
Staff matters

Mr. V.M. Haakuria continued to be on SDF leave doing a PhD in the UK. Mr. T. Akawa, a Technologist, resigned to take up a similar position in the Department of Fisheries and Marine Resources in the Faculty of Agriculture and Natural Resources. Two new Technologists were appointed: Ms M. Johnson and Mr. A. Mbangu. Both are former students and graduates of the Department. Mr. JD. Uzabakiriho was promoted to the rank of Senior Technologist. There were 13 full time lecturing staff (9 males and 4 females) and 6 full-time full time staff (3 males and 3 females) in the Department in 2010. Dr. Maass continued with her additional duties as Director of the Teaching and Learning Improvement Unit, and so did Prof. Mapaure as UNAM’s Research Coordinator. Dr. Chimwamurombe also continued as Acting Manager if ZERI in addition to his responsibilities in the Department.

Staff names, positions and gender

Full-time academic staff:

<table>
<thead>
<tr>
<th>NAME</th>
<th>POSITION</th>
<th>GENDER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr R. Böck</td>
<td>Lecturer &amp; Head of Department</td>
<td>Male</td>
</tr>
<tr>
<td>Dr E. Maass</td>
<td>Senior Lecturer</td>
<td>Female</td>
</tr>
<tr>
<td>Dr J.K.E. Mfune</td>
<td>Senior Lecturer</td>
<td>Male</td>
</tr>
<tr>
<td>Prof. I. Mapaure</td>
<td>Associate Professor</td>
<td>Male</td>
</tr>
<tr>
<td>Dr P.M. Chimwamurombe</td>
<td>Senior Lecturer</td>
<td>Male</td>
</tr>
<tr>
<td>Dr E.M. Julies</td>
<td>Lecturer</td>
<td>Female</td>
</tr>
<tr>
<td>NAME</td>
<td>POSITION</td>
<td>GENDER</td>
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<tr>
<td>-----------------------------</td>
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</tr>
<tr>
<td>Mr J-D. Uzabakiriho</td>
<td>Technologist</td>
<td>Male</td>
</tr>
<tr>
<td>Mrs M. Morkel</td>
<td>Technologist</td>
<td>Female</td>
</tr>
<tr>
<td>Mr A. Hijarunguru</td>
<td>Technologist</td>
<td>Male</td>
</tr>
<tr>
<td>Ms. M. Johnson</td>
<td>Technologist</td>
<td>Female</td>
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<tr>
<td>Mr A. Mbangu</td>
<td>Technologist</td>
<td>Male</td>
</tr>
<tr>
<td>Mrs R. Shimwooshili</td>
<td>Assistant Laboratory Technician</td>
<td>Female</td>
</tr>
</tbody>
</table>

**Full-time technical staff:**

<table>
<thead>
<tr>
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<th>POSITION</th>
<th>GENDER</th>
</tr>
</thead>
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<tr>
<td>Mr J-D. Uzabakiriho</td>
<td>Technologist</td>
<td>Male</td>
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<tr>
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<td>Mr A. Hijarunguru</td>
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<tr>
<td>Ms. M. Johnson</td>
<td>Technologist</td>
<td>Female</td>
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</tr>
<tr>
<td>Mrs R. Shimwooshili</td>
<td>Assistant Laboratory Technician</td>
<td>Female</td>
</tr>
</tbody>
</table>

**Detailed staff statistics**

i. Total number of full-time staff = 20
ii. Ratio of female to male staff = 7:13
iii. Number of Namibians = 15; Number of Non-Namibians = 5; % Namibians = 75%
iv. Number of Resignations: 1
v. Number of new Appointments = 2
vi. Number of Promotions = 1
vii. Number on study leave = 1

**Research and Consultancies**

Prof. Mapaure

- Assessment of the environmental impacts of acid mine drainage (AMD) from mine dumps on flora, soils, ground water and surface water in central Namibia. Project is funded by the UNAM Research & Publications Office. Field work continued to assess impacts on invertebrates. Work focused on writing up papers (field activities ended).

- Studies of the feeding ecology of Kudu in relation to range condition in Gondwana Canyon Park, southern Namibia. Project is funded by the UNAM Research & Publications Office. Work focused on writing up papers (field activities ended).

- Building Capacity to Assess and Increase the Climate Change Mitigation and Adaptation Capacities of Vulnerable Communities in Southern Africa. Project is headed by the University of Florida and Rhodes University, funded by the US Higher Education Development initiative. This funding is a Planning Grant to the tune of US$50 000 and was obtained through a highly competitive process. Work focused on developing a 10-year Strategic Plan for a Proposal to look for more funding to do the actual research.

- Impact of Tourism on natural resources in Etosha National Park and Human-Wildlife conflict along the boundaries of the park. Research Project is funded by the Government of the Republic of Namibia (NDP III funds) and implemented by UNAM through the MRC. First phase of data collection was conducted during the year and draft papers prepared.

Dr. Shiponeni

- Moringa ovalifolia for health – A survey on the indigenous knowledge and uses of Moringa tree in Namibia. Project funded through the Joint Economic AIDS & Poverty Programme of the Australian Government Aid Program.
- Fire effects on grass and woody plants in savanna.
Dr. Chimwamurombe

- Indigenous Ganoderma value addition through cultivation, harvesting and processing: Empowering society through innovative science and technology (IGC-ESTIST) CPP/UNEP/GEF
- Cultivation of Marama Bean: A new crop for Cash and Sustainable Land Management (COMB-CSLM), CPP/UNEP/GEF
- Domestication of Marama bean: Agronomy and molecular genetic characterization for its improvement Kirkhouse Trust

Mr. Chinsembu

- Validation of traditional medicines for treatment of HIV/AIDS in Namibia 2008 to date UNAM, NEPAD SANBio. In collaboration with Mr. Hedimbi, Dr. Hans and others.

Dr. Maass

- Floral Biology of Hydnora. Funded through Unam RPC. In collaboration with Mr. Faul

Dr. Julies

- Water quality. Funded through UNAM’s RPC. In collaboration with Prof. Pool (University of Western Cape), Mr. J. Menge (Municipality of Windhoek) and Mr. A. Faul (UNAM)
- Presence of endocrine disrupting chemicals in surface water of Namibia. Joint funding from Ministry of Education and NRF, South Africa. In collaboration with Prof. Pool (University of Western Cape), Prof. Van Wyk (University of Stellenbosch) and Mr. A. Faul (UNAM)
- Formation of a Regional Centre of Expertise (RCE) in Environmental Education/Education for Sustainable Development. Funding partly through UNESCO and other partners. Leading in the establishment of RCE are Dr. E. Julies and Dr. C. Shim. All stakeholders in ESD are involved in the RCE
- Training of Fisheries Inspectors on Marine Protected Areas. Proposal completed and funding is still being sought. Dr. E. Julies, Mr. S. Mafwila and Mr. F. Nashima.
Dr. Mfune

- Emerging viruses in western and southern Africa: Molecular identification and characterization of rodent- and shrew-borne Hantaviruses and assessment of their public health potential. Funded through German Government under German-Africa Cooperation Projects in Infectology. In collaboration with Prof. D. Kruger, Dr L. Koivogui, Dr S. Matthee, Prof. W. Preiseir and Dr J. Meulen
- Impact of Tourism on Natural Resources in Etosha National Park and Human Wildlife Conflict along the Boundaries of the Park. Funded through MET (NDP3 funding) in collaboration with Ms M. Angula, Dr M. Hipondoka, Prof. I. Mapaure, Dr Graaz, and Ms Selma Lendelvo
- Eco-physiological responses of ungulates towards heat and drought in Namibian desert. In collaboration with Leibniz Institute for Zoo and Wildlife Research, Berlin, Germany: Dr C. Voigt and David Lehmann.
- The effects of grazing by large herbivores on family diversity and family composition of ground-dwelling invertebrates at selected sites in Etosha National Park.
- Comparison of family diversity and composition of ground dwelling invertebrates in a grassland habitat, mixed woodland habitat and intervening ecotone at a selected site in Etosha National Park.

Mr. Faul

- Water Quality Assessment of Important Water Sources in Namibia. Funded through UNAM’s RPC. In collaboration with Dr. E Julies.
- The development and implementation of biomarker assays to monitor environmental water. Funded through South Africa / Namibia Joint Science and Technology Research Agreement. In collaboration with Prof E. Pool (University of Western Cape/South Africa) and Dr. E Julies (UNAM)
- Environmental impact assessment study on Invertebrates of Inca, Tibas and Shiyela. Reptile Uranium Namibia (Run)

Mr. Hedimbi

- A survey of indigenous plants that are used to treat malaria and ailments with symptoms similar to those of malaria in Otjikoto and Ohangwena region, Namibia. Funded through UNAM’s Multidisciplinary Research Center. In collaboration with Dr. Renate Hans, Dr. Davis Mumbengegwi and Dr. Ronnie Bock
- Evaluation of Namibian plants as sources of potential anti-malaria products. Funded through UNAM’s RPC. In collaboration with Dr. Renate Hans, Dr. Davis Mumbengegwi and Dr. Ronnie Bock
Dr. Bock

- MRC Pharmaceuticals programme. Funded through UNAM’s RPC, MRC and Ministry of Education. Further funding to be solicited. In collaboration with Dr. D. Mumbengegwi, Prof. E. Kiremire and Dr. H. MuAshekele
- MRC IKS Programme lead by Dr. A. Cheikhyousef. Funded through UNAM’s RPC, MRC and Ministry of Education. Further funding to be solicited. Also in collaboration with Dr. E. Naomab and others
- A study on the relationship between nutritional status and clinical outcomes of malaria in order to strengthen interventions for the elimination of the disease in Namibia. Project Concept accepted by IAEA NAM2010003 IAEA. In collaboration with Dr. D. Mumbengegwi, Mr. S. Katokele, Dr. P. Uusiku and Ms. M. van Wyk (MoHSS), Ms. C. Keyter (UNAM) and others.
- Southern African Research Network for Roll Back Malaria (SARN): Malaria Operational Research. Funded through WHO, SADC, MoHSS. In collaboration with Dr. D. Mumbengegwi, Dr. P. Uusiku, Mr. H. Angula, Mr. S. Katokele, Ms. C. Narib, Dr. B. Noden, WHO and others.
Papers published, submitted or presented at workshops/conferences

Refereed journal articles


mini-transposon5 lacZ1 mutants. *International Journal of Genetics and Molecular Biology* 2(7), 140-146.

- Du Preez, C.I., Bock, R. and Mumbengegwi, D.R. (2010); Validation of ethnomedicinal plant knowledge in the Oshikoto region through botanical identification and biological assessment of its value as complementary medicine for malaria. Accepted for publication in 2011.
• Shiponeni, N.N., Allsopp, N., Carrick, P.J, and Hoffman, MT. In press. Competitive interactions between grass and succulent shrubs at the ecotone between an arid grassland and succulent shrubland in the Karoo. *Plant Ecology.*

Published conference proceedings and Conference papers delivered
• Bolin, J.F., Maass E. and Musselman L.J. Recent advances in the biology of Hydnora (Hydnoraceae). Submitted in 2010 and accepted for publication in 2011 in Haustorium.


Paper presented at the 2nd SAEON Summit, Kirstenbosch National Botanical Garden, South Africa

Study Guides and Training Manuals


Research Reports


Popular publications

## Undergraduate teaching, student statistics and pass rates

<table>
<thead>
<tr>
<th>YEAR</th>
<th>MODULE</th>
<th>TOTAL NUMBER OF STUDENTS</th>
<th>PASS RATE (%)</th>
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<td>I</td>
<td>BLG3411 Introduction to Biology</td>
<td>442</td>
<td>72</td>
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<td>BLG3512 Diversity of Life</td>
<td>387</td>
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<td><strong>Mean pass rate 1st Year</strong></td>
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<tr>
<td>II</td>
<td>BLG3611 Animal Form &amp; Function</td>
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<td>EBL3631 Introduction to Ecology</td>
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<td>EBL3632 Ecological Field Techniques</td>
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<td>MBL3632 Introduction to Microbiology</td>
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<td>MBL3652 Human Biology</td>
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<td>EBL3731 Population Ecology</td>
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<td>EBL3700</td>
<td>Field Ecology I</td>
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<td>MBE3771</td>
<td>Cell Molecular Biology, Microbiology and Genetics for Educators</td>
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<td>EBL3732</td>
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<td>MBL3732</td>
<td>Genetics</td>
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**Mean pass rate 3rd Year**

87.3

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<th>Course Code</th>
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<th>Credits</th>
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<td>BLG3810</td>
<td>Research Project</td>
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<td>EBL3831</td>
<td>Biosystematics</td>
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<td>EBL3851</td>
<td>Biogeography</td>
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<td>100</td>
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<td>MBL3811</td>
<td>Immunology</td>
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<td>MBL3831</td>
<td>Applied Molecular Biology</td>
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<td>MIC3811</td>
<td>Mycology</td>
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<td>MOL3811</td>
<td>Bioinformatics</td>
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<tr>
<td>MIC3802</td>
<td>Parasitology</td>
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<td>95</td>
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<td>EBL3802</td>
<td>Disturbance and Restoration Ecology</td>
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<td>100</td>
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<td>EBL3832</td>
<td>Management of Natural Resources</td>
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<tr>
<td>MOL3852</td>
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*Mean pass rate 4th Year* 97.9

*OVERALL MEAN FOR DEPARTMENT* 88.2

**Postgraduate Supervision**

**PhD Students**

- **Andre Faul**: Endocrine Disrupting chemicals in surface water sources in Namiiba. [Dr. Julies: Co-Supervisor]

- **Catherine Amoo**: A study of the apparent immunity to malaria of the San people in the Oshikoto Region of Namibia. [Dr. Bock: Co-supervisor]

- **Devota Kavishe**: An ecological study of selected Porphyra capensis populations from the Namibian coast. [Prof. Mapaure: Main supervisor]
• **Sydney Chikukwa**: Developing a guide for baseline Salmonella agglutinin titres according to age, gender and HIV status in patients attending at hospitals in northern Namibia. [Dr. Chimwamurombe: Co-supervisor]. Proposal accepted.

• **Renatus Peter Shilangale**: Prevalence, Serotype And Antimicrobial Resistance Pattern Of Salmonella Spp. nn Namibia’s Abattoirs. [Dr. Chimwamurombe: Main-supervisor]. Proposal accepted.

• **Emmanuel Nepolo**: Molecular characterization of Tylosema esculentum starch biosynthesis and related aspects. [Dr. Chimwamurombe: Main-supervisor]. Proposal accepted.

• **Mutsa Takundwa**: Breeding for reduction of reproductive life cycle in Tylosema esculentum. [Dr. Chimwamurombe: Main-supervisor]. Proposal accepted.

• **Charline Kamburona**: Phylogenetic characterization of devil’s claw (Harpagophytm procumbens and Harpagophytm zeyheri) in Namibia. [Dr. Chimwamurombe: Co-supervisor].

• **Jean-Damascene Uzabakiriho**: Analysis of microbial community structures and their nifh gene expression in Tylosema esculentum (marama bean) endophytic diazotroph bacteria. [Dr. Chimwamurombe: Main-supervisor]. Proposal accepted.

MSc Students
- **Ndina-Tate Imasiku**: Seasonal variation in species diversity and composition of small mammals in selected vegetation types of Etosha National Park. [Dr. Mfune: Main supervisor]

- **Nanguei Karuaera**: Assessing effects of bush encroachment on the species abundance, diversity and composition of small mammals in Khomas Region. [Dr. Mfune: Main supervisor; Dr. Shiponeni: co-supervisor]

- **Zepee Havarua**: Seasonal foraging behavior of the plain zebra (Equus quagga) and the african elephant (Loxodonta africana) and occurrence of anthrax in Etosha National Park.[Dr. Mfune: Main supervisor]

- **Julia Hoveka**: Molecular identification and characterization of rodent- and shrew-borne hantaviruses and other viruses and the prevalence of ecto- and endo-parasites on small mammals in selected areas in Namibia. [Dr. Mfune: Main supervisor and Dr. Chimwamurombe: co-supervisor]

- **Claudine Cloete**: How soil type affects the distribution of infectious sites and the incidence of elephant (loxodonta africana) mortalities due to anthrax in etosha national park. [Dr. Mfune: Main supervisor]

- **Josephine Iipinge**: Waste Management in Etosha National Park, the case of Okaukuejo. [Dr. Mfune: Main Supervisor]. This student is registered with the University of Free State, South Africa.

- **Absalom Kahumba**: Rehabilitative effect of various methods of bush control on degraded savanna rangelands. [Dr. Shiponeni: Main supervisor]. Thesis passed.

- **Gottlieb Aikukutu**: Application of Nucleic Acid Diagnostics in clinical Chemistry for early Detection of Bovine Campylobacteriosis in Namibia. [Dr. Bock: Main supervisor]

- **Iwanette du Preez**: In vitro assessment of antimalarial activity of medicinal plants used by traditional healers for the potential treatment of malaria. [Dr. Bock: Co-supervisor]. Proposal accepted.
• **Josefina N. Nelongo**: Evaluation of the usefulness of the quantiferon TB gold in-tube test in the diagnosis of tuberculosis disease and as a tool for evaluating the response to tuberculosis chemotherapy in Namibian patients. [Dr. Bock: Co-supervisor]

• **Isak Kaholongo**: Environmental determinants of floristic diversity, composition and structure of the vegetation of Uukolonkadhi Community Forest, north central Namibia. [Prof. Mapaure: Main supervisor]. Student to graduate in April 2010.

• **Celine Mukakalisa**: Molecular, environmental and nutritional evaluation of bambara groundnut (Vigna subterranea (L.) Verdc.) for food production in Namibia. [Prof. Mapaure: Co-supervisor]

• **Laimy Shikongo**: Analysis Of The Biologically Active Compounds In The Namibian Ganoderma isolates. [Dr. Chimwamurombe: Main supervisor]. Proposal accepted.

• **Lempie Ekandjo**: Genetic diversity of Ganoderma lucidum in North Eastern Namibia. [Dr. Chimwamurombe: Main supervisor]. Proposal accepted.

• **Pauline Kadhila-Muandingi**: Distribution, uses and Genetic diversity of Ganoderma lucidum in Northern Namibia. [Dr. Chimwamurombe: Main supervisor]. Proposal accepted.

• **Rauna Hamukwaya**: Investigations on type of humoral immunity against anthrax in predators and scavengers in Namibia. [Dr. Chimwamurombe: Main supervisor]. Proposal accepted.

**Community service**

**Prof. I. Mapaure**

UNAM Service
  • Active member of the PVC Academic Forum.
• Active member of Academic Planning Committee.
• Active member of the Research & Publications Committee.
• Active member of the UNAM Senate.
• Active member of Faculty of Science Board.
• Active member of Biological Sciences Board.
• Chief Editor of the Namibia Development Journal. Also Chairperson of the Editorial Board of the Journal.
• Member of a UNAM Audit Task Force mandated to audit Centres and Units at the university.
• A member of the Committee of Admission & Examinations for the MSc Biodiversity Management & Research.
• Research Coordinator for the University of Namibia.
• Member of the UNAM Book Store Task Group.
• Member of the Teaching & Learning Improvement Unit Advisory Committee.
• Chairperson of the UNAM Task Force on Research Ethics.
• Member of the UNAM Institutional review Board (IRB).
• Board Member of the Multidisciplinary Research Centre (MRC).

External Service

• Evaluated an application by a Senior Lecturer (Dr Wilson Parawira) at Kigali Institute of Technology (Rwanda) for promotion to Associate Professor (October 2010).
• External examiner for D. Phil. Thesis (Mr Cuthbert A.T. Katsvanga), Faculty of Agriculture and Environmental Science, Bindura University of Science Education, Zimbabwe (March 2010).
• External examiner for Doctor of Philosophy Thesis (Mr Bethwell Moyo), Faculty of Agriculture, University of Fort Hare, South Africa (February 2010).
• External examiner for the Department of Nature Conservation, Polytechnic of Namibia.
• Member of a number of Professional bodies including the Degradation Network, AFRIFIRENET (African Fire Research Network), Southern African Mopane Research Association (SAMRA), Biodiversity Foundation for Africa (BFA), Association for the Taxonomic Study of the Flora of Tropical Africa (AETFAT), Grassland Society of Southern Africa, Namibia Environment & Wildlife Society (NEWS) and the Botanical Society of Namibia (BOTSOC).
• I represented the University on the Southern African Universities Association (SARUA).

**Dr. Chimwamurombe**

UNAM Service

• Faculty Rep to CES Board.

External Service

• Member of the Interim Bioprospecting Council of Namibia.
• Kirkhouse Trust Marama Bean Project coordinator.
• External examiner for PhD thesis at University of Cape Town.
• Reviewer for African Journal of Agricultural Research.
• Executive secretary: African Society for Edible and Medicinal Mushrooms.
• Treasurer of the Agricultural Scientific Society of Namibia.

**Dr. Maass**

UNAM Service

• Senate representative on Council
• Member: Executive Committee of Council
• Member: Senate
• Member: APC
• Member: PVC Academic Forum
• Member: Calendar & Timetable Committee
• Member: Staff Appointments Committee
• Member: Staff Development Committee
• Member: Meritorious Awards Committee
• Chairperson of APC Curriculum Task Force
• Chairperson of Timetable Task Force
• Member: Physical Facilities Task Force
• Member: Income Generating Task Force
• Coordinator: Relocation (Khomasdal)

External Service

• Member: Main Merger Committee (Colleges)
• Adjunct Research Faculty member: ODU, Virginia, USA
• Chairperson: Namibia Academy of Sciences Steering Committee
Dr. Mfune

UNAM Service

- Coordinator, MSc Biodiversity Management and Research Program, joint UNAM and Humboldt University Postgraduate training Programme.
- Member of the MSc Biodiversity management and Research Admissions and Examinations Committee
- Leader. MSc Biodiversity Management and Research Programme, curriculum Review.
- Seminar Coordinator, Department of Biological Sciences.
- Acting HOD, Department of Biological Sciences, 20th August 2010 and 18-19 November 2010

External Service

- Executive Committee Member of the Windhoek Adventist Clinic Committee. Instrumental in the establishment of the now running Windhoek Adventist health Clinic, the first and only SDA health Clinic in Namibia
- Vice Chairperson, Namibia Wildlife and Environment Society (NEWS).
- Reviewer appointed by the Country Pilot Partnership Program. Reviewed research proposals for Young Professional Research
- Member, INSAKA CONSORTIUM (University of Montana, USA, UNAM (MRC), University of Kwazulu Natal, RSA, University of Copperbelt, Zambia and Monash University).

Mr. Hedimbi

UNAM Service

- Active member of the Faculty of Science committee for Fund Raising

Mr. Kaonjua

UNAM Service

- Represented the Faculty of Science at the Faculty of Agriculture Board Meetings

External Service

- Seminar presentation about the life cycle of HIV at the National Institute of Pathology (NIP)
- Acted as a judge for science students projects presented at Augustineum High School
Mr. Chinsembu

UNAM service

- Chairperson, UNAM/NEPAD steering committee on validation of traditional medicines for HIV/AIDS treatment

External service

- Reviewer, BMC Public Health
- Reviewer, African Journal of Food Science and Technology

Mr. Faul

UNAM Service

- Student registration
- Website Content Committee Member, Faculty of Science Representative and Contribute Manager

External Service

- Judge, St. Georges School Science Fair
- Reviewer for Namibia development Journal
- Organiser for and attendance of joint MET/UNAM Scientific Symposium on Biodiversity 21 May 2010
- Active participant of Knowledge Management/ Environmental Information Working Group Workshop 11 February 2010

Dr. Julies

UNAM Service

- Active member of Faculty RPC committee
- Active member of Bursary and Award Committee
- Organizing Biodiversity workshop

External Service

- Executive member (treasurer) of the Namibian Environmental Education Network
- Active member of the National task force for the year International Year of Biodiversity
- External Examiner of Phd thesis
- External Examiner of MSc thesis
- Judge at regional National Youth Symposium on Biodiversity and development
• Judge at Science fair – St Georges (24 June 2010) and the Windhoek International Schools (April 2010)
• Charity work: I provided lectures at the Windhoek International School to learners about Pollution and Waste Management. I was not paid for this work.

Dr. Shiponeni

External Service

• Reviewed a journal articles, for the Journal of Arid Environment (JAE),
• Reviewed a journal articles, for the Journal of African Range and Forage
• External examiner for Ecology 1 and 2 modules for Polytechnic of Namibia

Ms. Mukaru

UNAM Service

• Assisted with organising the launch of the International Year of Biodiversity and the Scientific Symposium on Biodiversity Conservation and Development, 21 May 2010
• Represented the Department of Biological Sciences at the National Historical Museum in Berlin from 4-21 October 2010.
• Together with Dr. E. Julies and other colleagues from Humboldt University, worked on preliminary logistics (dates, program, guest list, etc.) for a summer school to be hosted by UNAM in October 2011.
• Drafted an application for an equipment grant, for the MSc. Biodiversity Conservation and Research, during our time in Berlin.

Dr. Bock

UNAM Service

• Faculty of Science Committee of Facilities
• Chair of Department of Biological Sciences Committee on space
• Chairperson of Department Board
• Member Faculty of Science Management
• Member Faculty of Science Board
• Deputy Chair: Examination and Admissions Committee: MSc Biodiversity Management and Research Programme
• Member MRC Board
• Member of the University of Namibia Senate
• Member: UNAM PRESS
• Member UNAM Task Force for the Development of the PreVet Programme

External Service
Conclusions

Despite the challenges of resources and equipment, a very high workload on staff members and ever increasing numbers of students, the Department continued to deliver a high quality service to both our students and the community at large as well as improved on research and publications output. The slight decrease in pass rates should be evidence for the Department’s call for: (i) more tutors in the Department, (ii) improvement of facilities and (iii) increased support for research and publication.