



MZUZU UNIVERSITY

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Directory of Research and Publications

Volume 1

Aubrey Harvey Chaputula
editor



2018



MZUZU UNIVERSITY

DIRECTORY OF RESEARCH AND PUBLICATIONS
VOLUME 1

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DEDICATION

To all Mzuzu University tireless and selfless researchers.

INTRODUCTION

This publication captures the profiles and publication records of Mzuzu University academic members of staff. Staff that fall within the academic staff cadre at Mzuzu University include those holding the ranks of staff associates (associate lecturers), assistant lecturers, lecturers, senior lecturers, associate professors and full professors working in the various academic departments, faculties and research centres. Much as this is the case, only records of academic staff from the rank of lecturer and above are included in this directory. This decision was made on the premise that individuals might only engage in serious research work after attaining a master's degree, and most of the academic staff below the rank of lecturer may not have acquired this qualification yet. Senior staff from the Library and Learning Resources Centre (LLRC) from the rank of assistant librarian and above, also fall within the academic staff cadre hence their profiles have equally been included.

The idea to come up with this publication was mooted after realising that there are a lot of research, consultancy and publication activities being undertaken by Mzuzu University academic members of staff within and without the University. However, there was no credible outlet of publicising or showcasing such type of activities. This may have in part contributed to the relatively low rankings of the University over the years as very little is known about the University in this area. It has also been realised that most of the times, both governmental and non-governmental organisations tend to go outside the country whenever they want to procure the services of experts in various fields. This could be attributed to the fact that they may not be aware that the country, or Mzuzu University in particular, may have such type of experts. This publication is, therefore, aimed at solving some of the aforementioned challenges. It is anticipated that academic departments and centres would use this publication to showcase the various expertise and skills available not only within their respective departments and centres but the entire University. The University may use this publication to market itself, a development that may lead to increased cash flow through initiation of more collaborative projects with other organisations, and greater visibility leading to higher rankings.

The profiles included in this publication include academic credentials of the staff members concerned. In certain instances, professional certificates and ORCID IDs are also included. The ORCID IDs could be used to get more up to date academic staff profiles as this publication will only come out once in a year. The publication records include titles of PhD theses, titles of master's dissertations, books and book chapter publications, journal article publications, and conference papers.

Mzuzu University was established by an Act of Parliament in 1997 as Malawi's second public university in Malawi. However, the University only became fully operational in January 1999 when it admitted its first students. Education was the pioneering faculty at the opening of the University. Since its first intake in 1999, the University has steadily grown from a single Faculty of Education to five faculties (Education, Environmental Sciences, Health Sciences, Tourism and Hospitality Management, and Information and Communications) and six centres (Centre for Open and Distance Learning, Centre for Security Studies, Centre for Inclusive Education, Testing Centre for Renewable Energy Technologies (TCRET), Water and Sanitation (WATSAN), and Centre for Environmental Management).

The Faculty of Education is by far the largest comprising nine departments. Departments falling under this Faculty include Biological Sciences; Chemistry; Education and Teaching Studies; Geography; History; Languages and Literature; Mathematics; Physics; and Theology and Religious Studies. The Faculty of Environmental Sciences is the second largest faculty with five departments. Departments falling under this Faculty are Energy Studies; Fisheries; Forestry; Land Management; and Water Resources Management and Development. The Faculty of Health Sciences is the third largest faculty with three academic departments namely Biomedical Sciences; Nursing and Midwifery; and Optometry. The Faculty of Tourism and Hospitality Management has two departments which include Hospitality Management and Tourism. Similarly, the Faculty of Information and Communications has two departments. They include Library and Information Science (LIS); and Information and Communications Technology (ICT).

The existing five faculties will soon evolve into six namely: Education; Environmental Sciences; Health Sciences; Tourism, Hospitality and Management; Humanities and Social Sciences; and Science, Technology and Innovation. Entries included in this Volume are based on the existing faculties and centres.

FOREWORD

Welcome to the first volume of the Directory of Research and Publications of Mzuzu University. This Directory is published with the aim of capturing and disseminating research and publication activities undertaken by academic staff of Mzuzu University. As a University, we believe that sharing this information will assist our stakeholders, partners and the community at large to easily identify the skills and expertise that are readily available at the University thereby leading to their full utilisation.

The importance of research and publications cannot be overemphasised. To the University, research and publication contributes to the fulfilment of our mission which is to provide high quality education, training, research and complementary services to meet the technological, social and economic needs of individuals and communities in Malawi and the world. In addition, it helps to improve the scholarly reputation of the University. For individual members, research and publication improves their personal profile leading to career advancement.

Mzuzu University fulfils the definition of a university in that it comprises a number of faculties and disciplines ranging from the natural sciences, technology, engineering, mathematics, education, humanities, social sciences, to health sciences. The University has grown over the years from an academic staff population of only 6 in January, 1999 to over 180 in 2017. Most of these are senior academicians who are actively involved in development-oriented research. This Directory presents some of the works produced by these members of staff. We hope that this Directory, along with future Directories, provide adequate and useful information to our stakeholders about the existing skills and expertise that they may wish to tap from.

Victor Kasulo, PhD
DIRECTOR OF RESEARCH

ACKNOWLEDGEMENTS

This project would not have succeeded without the moral and financial support of the Mzuzu University Directorate of Research and Publications. I am, therefore, grateful to Associate Professor Dr Victor Kasulo, Director of Research, who not only gave the green light for this project to go ahead but also coordinated with various deans of faculty to solicit some of the material that has been included in this Directory. The Directorate also played a critical role in soliciting the necessary approvals from relevant offices including funding the printing of this publication.

Various individuals and colleagues also played an important role in facilitating the production of this publication. Professor Klaus Fiedler, the Postgraduate Course Coordinator in the Department of Theology and Religious Studies, is singled out for special praise for taking keen interest in the project. The encouragement and advice he gave helped to propel this project forward. During the compilation and editing of this directory, I received support from heads of academic departments and deans of faculty. In particular, Dr Khumbo Kumwenda, Head of the Department of Mathematics, Mr Masambuko Baluwa, former Head of the Department of Nursing and Midwifery, Associate Professor Dr Victor M Gomezulu, Dean of the Faculty of Education, and Associate Professor Dr Wales Singini, Dean of the Faculty of Environmental Sciences, are singled out for special praise for playing an even bigger role in helping solicit entries that were included in this publication.

I am also extremely grateful to all fellow academics who contributed entries to this directory. It is my hope that they will always contribute to this publication on an annual basis. I know that some academics failed to contribute because of several reasons such as communication breakdown, busy schedules and being away on study leave. In the next issue efforts will be made to rectify all the shortcomings observed in the production of the present publication to ensure that it is even bigger, better and more inclusive.

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FACULTY OF EDUCATION

The Faculty of Education is by far the largest faculty comprising nine departments and two centres. The departments include Biological Sciences, Chemistry, Education and Teaching Studies, Geography, History, Languages and Literature, Mathematics, Physics, and Theology and Religious Studies. The Faculty has two centres namely Centre for Security Studies, and Centre for Inclusive Education.

DEPARTMENT OF BIOLOGICAL SCIENCES

The Department of Biological Sciences offers courses mainly to students pursuing degree programmes in education.

RESEARCH ACTIVITIES

Staff within the department conduct research related to science education, biology teaching methods, molecular breeding for biotic and abiotic stresses, plant pathology, molecular genetics, and pest management.

MARGARET MDOLO, PhD; MSc; BSc

RESEARCH INTERESTS

- Science education
- Biology teaching methods

Title of Master's Dissertation:

Factors That Affect the Use of Constructivist Approaches When Teaching the New Biology Curriculum in Malawi

JOURNAL PUBLICATIONS

Mdolo, M.M. and Mundalamo, F.J. (2014), "Teacher knowledge shaping the teaching of genetics: A case study of two underqualified teachers in Malawi", *African Journal of Research in Mathematics, Science and Technology Education*, Vol. 19 No. 1, pp. 1-11.

CONFERENCE PAPERS/PROCEEDINGS

Mdolo, M. Teaching as a product of SMK instructional resources and instructional strategies' interactions: the case of three teachers teaching genetics in Malawi. Paper presented at the Southern Africa Research in Science, Mathematics and Technology Education (SAARMSTE) Annual conference held at Tshwane University of Technology in Pretoria, South Africa, 12 to 15 January, 2016.

Mdolo, M. How teachers handle learners' questions and responses during lessons on genetics: A case study of two secondary school biology classrooms in Malawi. Paper presented at the Annual Meeting of The Southern African Association for Research in Mathematics, Science and Technology Education, organized by the SAARMSTE held in Maputo, Mozambique, 13 to 16 January, 2015.

Mdolo, M. Teaching genetics for the first time: A case study of an under-qualified teacher at a poorly resourced school. Paper presented at the Southern Africa Research in Science, Mathematics and Technology Education (SAARMSTE) Annual conference held at the Nelson Mandela Metropolitan University, Port Elizabeth, South Africa, 13 to 16 January, 2014.

Mdolo, M.M. and Doige, M. Factors that affect the implementation of a new Biology curriculum in Malawi. Paper presented at the Eighteenth Annual Meeting of the Southern African Association for Research in Mathematics, Science and Technology Education (SAARMSTE), held at the University of KwaZulu-Natal, 18 to 21 January, 2010.

SAUL ERIC MWALE, MSc; BSc

RESEARCH INTERESTS

- Molecular breeding for biotic and abiotic stresses
- Plant Pathology
- Molecular genetics
- Pharmacognosy

Title of Master's Dissertation:

Genetics of Drought Tolerance in Cowpea Genotypes in Uganda

JOURNAL PUBLICATIONS

Valentor, A.O., Ochwo-Ssemakula, M., Kaweesi, T., Ozimati, A., Mrema, E., **Mwale, E.S.**, Gibson, P., Achola, E., Edema, R., Baguma, Y. and Kawuki, R. (2018), "Plot based heritability estimates and categorization of cassava genotype response to cassava brown streak disease", *Crop Protection*, Vol. 108, pp. 39 – 46.

Achola, E., Tukamuhabwa, P., Adriko, A.J., Edema, R., **Mwale, S.E.**, Gibson, P., Naveen, P., Okul, V., Michael, D. And Okello, D.K. (2017), "Composition and variation of fatty acids among groundnut cultivars in Uganda", *African Crop Science Journal*, Vol. 25 No. 3, pp. 291 – 299.

Mwale, S.E., Ochwo-Ssemakula, M., Sadik, K., Achola, E., Okul, V., Gibson, P., Edema, R. and Rubaihayo, P. (2017), "Response of cowpea genotypes to drought stress in Uganda", *American Journal of Plant Sciences*, Vol. 8 No. 4, pp. 720-733.

Mwale, S.E., Ochwo-Ssemakula, M.O., Sadik, K., Alladassi, B., Rubaihayo, P., Gibson, P. and Edema, R. (2017), "Estimates of combining ability and heritability in cowpea genotypes under drought stress and non-stress conditions in Uganda", *Journal of Plant Breeding and Crop Science*, Vol. 9 No. 2, pp. 10-18.

Mwendo, M.M., Ochwo-Ssemakula, M., **Mwale, S.E.**, Lamo, J., Gibson, P. and Edema, R. (2017), "Inheritance of resistance to brown spot disease in upland rice in Uganda", *Journal of Plant Breeding and Crop Science*, Vol. 9 No. 4, pp. 37-44.

CONFERENCE PAPER

Mwale, S.E., Ochwo-Ssemakula, M.O. and Sadik, K. Response of Cowpea Genotypes to Water Stress Induced at Flowering Stage. Paper presented at the International Year of Pulses: Pan-African Grain Legume and World Cowpea Conference held in Livingstone, Zambia, 28 February to 4 March, 2016.

DYLO PEMBA, PhD; MSc; BSc

RESEARCH INTERESTS

- Pest Management
- Malaria control management

BOOK CHAPTER

Pemba, D. and Kadangwe, C. (2012), “Mosquito control aerosols’ efficacy based on pyrethroids constituents”, in Perveen, F. (Ed.), *Insecticides - Advances in Integrated Pest Management*, Rijeka, Croatia: Intech.

JOURNAL PUBLICATIONS

Petrova, N.A., Cornette, R., Shimura, S., Gusev, O.A., **Pemba, D.**, Kikawada, T., Zhirov, S.V. and Okuda, T. (2015), “Karyotypical characteristics of two allopatric African populations of anhydrobiotic *Polypedilum Kieffer, 1912* (Diptera, Chironomidae) originating from Nigeria and Malawi”, *Comparative Cytogenetics*, Vol. 9 No. 2, pp. 173-188.

Mbewe, R.B., **Pemba, D.** and Mzilahowa, T. (2015), “Variation in the performance of larvae capturing traps/substrate during larviciding on Domasi River in Zomba, Malawi”, *International Journal of Sciences: Basic and Applied*, Vol. 24 No. 4, pp. 268-276.

Mbewe, R., **Pemba, D.**, Kazembe, L., Mhango, C. and Chiotha, S. (2014), “The impact of *Bacillus Thuringiensis Israelensis* (BTI) on adult and larvae black fly populations”, *Malawi Journal of Science and Technology*, Vol. 10 No. 1, pp. 86-92.

Pemba, D., Martin, C. and Mhango, C. (2014), “Efficacy of *Bacillus Thuringiensis* var *Israelensis* (BTI) on *Culex* and *Anopheline* mosquito larvae in Zomba”, *Malawi Journal of Science and Technology*, Vol. 10 No. 1, pp. 40-52.

Pemba, D., Kaluwa, N. and Nyasulu, P. (2014), “Malaria laboratory diagnostic performance: Case studies of two health centers in Zomba, Malawi”, *Malawi Journal of Science and Technology*, Vol. 10 No. 1, pp. 80-85.

Bandason, E., **Pemba, D.**, Chiotha, S., Dudley, C. and Mzilahowa, T. (2014), “Hydro-physicochemical changes in Domasi River associated with outbreak of blackflies (Diptera; Simuliidae) in Zomba, Malawi”, *Malawi Journal of Science and Technology*, Vol. 10 No. 1, pp. 1-7.

Pemba, D., Martin, C. and Mhango, C. (2014), “Efficacy of *Bacillus Thuringiensis* var *Israelensis* (BTI) on *Culex* and *Anopheline* mosquito larvae in Zomba”, *Malawi Journal of Science and Technology*, Vol. 10 No. 1, pp. 40-52.

Hoshi, T., Martin, B.P., **Pemba, D.**, Sunahara, T. and Minakawa, N. (2013), “Beyond buzzing: mosquito watching stimulates malaria bednet use - a household-based cluster-randomized controlled assessor blind educational trial”, *Emerging Microbes & Infections*, Vol. 2 No. 10, pp. e67-e67.

Kalinga-Chirwa, R., Ngongondo, C., Kalanda-Joshua, M., Kazembe, L., **Pemba, D.** and Kululanga, E. (2011), "Linking rainfall and irrigation to clinically reported malaria cases in some villages in Chikhwawa District, Malawi", *Physics and Chemistry of the Earth, Parts A/B/C*, Vol. 36 No. 14, pp. 887-894.

Pemba, D. and Namangale, J. (2009), "Influence on sensitivity to insecticides: A case study of a settled area and a game park in Liwonde", *Malawi Medical Journal*, Vol. 21 No. 2, pp. 81-84.

Pemba, D., Bandason, E. and Namangale, J. (2008), "Comparison of deltamethrin as indoor residual spray or on insecticide treated nets for mosquito control in Lake Chilwa", *Malawi Medical Journal*, Vol. 20 No. 3, pp. 86-89.

CONFERENCE PAPERS/ PROCEEDINGS

Kalinga-Chirwa, R., Ngongondo, C., Kalanda-Joshua, M., Kazembe, L., **Pemba, D.** and Kululanga, E. Linking rainfall and irrigation to malaria incidences in some villages in Chikhwawa District, Malawi. Paper presented at the 11th WaterNet/WARFSA/GWP-SA Symposium held at Victoria Falls, Zimbabwe, October, 2010.

Pemba, D., Kanyerere, T. and Dulanya, Z. The impact of increased forest clearing on Onchocerciasis vector on Zomba Plateau, Malawi. Paper presented at the International Congress of Entomology held at the Durban International Convention Centre, South Africa, from 6 to 12 July, 2008.

Pemba, D. The challenges of malaria vector control in Malawi - dilemma over re-introducing DDT. Paper presented at the Scientist National Institute of Agro-biological Sciences- Tsukuba- Japan, on 26 August, 2007.

Pemba, D. Development of *Anopheles gambiae* in relation to inorganic farm inputs. Paper presented at the Michigan Mosquito Control association 15th annual Conference, 2001.

DEPARTMENT OF CHEMISTRY

VISION

To prepare students for a diverse and changing world, and in the process, contribute to a chemically literate society through teaching, research and service.

MISSION

The Department strives to create a collaborative and supportive environment that enrich teaching and learning, develop and encourage professional service.

RESEARCH ACTIVITIES

Members of staff in the Chemistry Department are engaged in a wide range of research activities. The main thrust of departmental research activities are in the areas of medicinal plants, water quality, and environmental conservation and management.

LEWIS GULULA, MSc; BSc (Hons); BSc

RESEARCH INTERESTS

- Water quality
- Energy sources

Title of Master's Dissertation:

A Preliminary Phytochemical Study of Diplorhynchus Condyllocarpon, Guajava Psidium, Holarrhena Pubescens, Sclerocarya Birrea, Steganotaenia Aralicea, Trichilia Emetica, and Vernonia Glabra' Used for Treatment of Diarrhoea by Traditional Healers in Malawi

JOURNAL PUBLICATIONS

Wanda, E.M., **Gulula, L.C.** and Kushe, J. (2014), "An assessment of effectiveness of the Lunyangwa River catchment co-management model in Mzuzu City, Northern Malawi", *Physics and Chemistry of the Earth, Parts A/B/C*, Vol. 72, pp. 96-103.

Wanda, E.M., **Gulula, L.C.** and Phiri, A. (2013), "Hydrochemical assessment of groundwater used for irrigation in Rumphu and Karonga districts, Northern Malawi", *Physics and Chemistry of the Earth, Parts A/B/C*, Vol. 66, pp. 51-59.

Wanda, E.M., **Gulula, L.C.** and Phiri, G. (2012), "Determination of characteristics and drinking water quality index in Mzuzu City, Northern Malawi", *Physics and Chemistry of the Earth, Parts A/B/C*, Vol. 50, pp. 92-97.

Wanda, E.M., **Gulula, L.C.** and Phiri, G. (2012), "An appraisal of public water supply and coverage in Mzuzu City, northern Malawi", *Physics and Chemistry of the Earth, Parts A/B/C*, Vol. 50, pp. 175-178.

CONFERENCE PAPERS/PROCEEDINGS

Wanda, E.M., **Gulula, L.C.** and Kushe, J. An assessment of the Co-Management Approach used to manage upper Lunyangwa River catchment and Lunyangwa Dam in Mzuzu City, Northern Malawi. Paper presented at the 14th Waternet/Water Research Fund for Southern Africa (WARFSA) / Globe Water Partnership – Southern Africa (GWP – SA) held in Dar es Salaam, Tanzania from 30 October to 1 November, 2013.

Wanda, E.M., **Gulula, L.C.** and Phiri, A. Assessment of the suitability of groundwater for irrigation purposes in Rumphu and Karonga districts, Northern Malawi. Paper presented at National Water Congress organised by the Water Services Association of Malawi in March, 2012.

Gulula, L.C., Wanda, E.M.M. and Zavison, A. Hydrochemical study of quality of irrigation water from Lunyangwa River, Mzuzu, Northern Malawi. Paper presented at the 12th Waternet/Water Research Fund for Southern Africa (WARFSA)/Globe Water Partnership – Southern Africa (GWP – SA) held in Maputo Mozambique from 26 to 28 October, 2011.

Wanda, E.M., **Gulula, L.C.** and Phiri, G. Determination of characteristics and drinking water quality index in Mzuzu City, Northern Malawi'. Paper presented at 12th Waternet/Water Research Fund for Southern Africa (WARFSA)/Globe Water Partnership – Southern Africa (GWP – SA) held in Maputo Mozambique from 26 to 28 October, 2011.

Wanda, E.M., **Gulula, L.C.** and Phiri, G. An appraisal of public water supply and coverage in Mzuzu City, Northern Malawi'. Paper presented at 12th Waternet/Water Research Fund for Southern Africa (WARFSA)/Globe Water Partnership – Southern Africa (GWP – SA) held in Maputo Mozambique from 26 to 28 October, 2011.

Gulula, L.C., Saka, J.D.K. and Chokotho, N. Antibacterial activity of some medicinal plants used locally in treatment of diarrhea. Paper presented at the First International Chemistry Conference - Chemistry for social economic development held in Blantyre, Malawi in June, 2006.

ELIJAH MALINGA MENARD WANDA, PhD; MSc; BSc

ORCID ID: 0000-0001-6897-0984

RESEARCH INTERESTS

- Environmental and Analytical Chemistry
- Chemical/bioremediation of emerging micropollutants
- Material science and membrane research
- Nanotechnology and nanoscience
- Green chemistry and chemical technology/innovations
- Hydrogeochemical modelling and citizen science

Title of PhD Thesis:

Hydrochemical Modelling and Removal of Emerging Micropollutants from Water

Title of Master's Dissertation:

Hydrochemical Characteristics of Groundwater in Mzimba District, Northern Malawi

BOOK CHAPTER

Wanda, E.M., Mapunda, E.C., Maiga, D.T., Sivasankar, V., Mamba, B.B., Msagati, T.A. and Omine, K. (2017), "Green analytical techniques: Novel and aboriginal perspectives on sustainable development", in Singh, R. and Kumar, S. (Eds.), *Green Technologies and Environmental Sustainability*, Gewerbestrasse, Switzerland: Springer International Publishing, pp. 365-394.

JOURNAL PUBLICATIONS

Wanda, E.M., Mamba, B.B. and Msagati, T.A. (2017), "Hydrochemical modelling of water quality in terms of emerging micropollutants in Mpumalanga, Gauteng and North-West Provinces", *Physics and Chemistry of the Earth, Parts A/B/C*, doi.org/10.1016/j.pce.2016.12.004.

Wanda, E.M., Nyoni, H., Mamba, B.B. and Msagati, T.A. (2017), "Occurrence of Emerging Micropollutants in Water Systems in Gauteng, Mpumalanga, and North-West Provinces, South Africa", *International journal of environmental research and public health*, Vol. 14 No. 1, p. 79.

Wanda, E.M., Mamba, B.B. and Msagati, T.A. (2017), "Nitrogen Doped Carbon Nanotubes/ Polyethersulfone Blend Membranes for Removing Emerging Micropollutants", *CLEAN–Soil, Air, Water*, Vol. 45 No. 4, pp. 1-12.

Wanda, E.M., Manda, M., Kamlomo, D., Kushe, J., Mphande, C., Kaunda, J. and Msiska, O. (2017), "Governing WASH for disaster risk reduction in Karonga Town, Malawi", *International Journal of Disaster Risk Reduction*, Vol 26, pp. 69-77.

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Manda, M. and **Wanda, E.** (2017), "Understanding the nature and scale of risks in Karonga, Malawi", *Environment and Urbanization*, Vol. 29 No. 1, pp. 15-32.

Wanda, E.M., Manda, M., Kushe, J., Msiska, O., Mphande, C., Kamlomo, D. and Kaunda, J. (2017), "Using Citizen Science Approach to monitor water, sanitation and hygiene Related Risks in Karonga Town, Malawi", *African Journal of Environmental Science and Technology*, Vol. 11 No. 6, pp. 304-323.

Mkwate, R.C., Chidya, R.C. and **Wanda, E.M.** (2016), "Assessment of drinking water quality and rural household water treatment in Balaka District, Malawi", *Physics and Chemistry of the Earth, Parts A/B/C*.

Wanda, E.M., Mamba, B.B. and Msagati, T.A. (2016), "Hydrochemical modelling of water quality in terms of emerging micropollutants in Mpumalanga, Gauteng and North-West Provinces", *Physics and Chemistry of the Earth, Parts A/B/C*.

Wanda, E.M., Mamba, B.B. and Msagati, T.A. (2016), "Determination of the water quality index ratings of water in the Mpumalanga and North-West provinces, South Africa", *Physics and Chemistry of the Earth, Parts A/B/C*, Vol. 92, pp. 70-78.

Wanda, E.M., Mamba, B.B., Msagati, T.A. and Msilimba, G. (2016), "Determination of the health of Lunyangwa wetland using Wetland Classification and Risk Assessment Index", *Physics and Chemistry of the Earth, Parts A/B/C*, Vol. 92, pp. 52-60.

Holm, R., Kasulo, V. and **Wanda, E.** (2015), "Why financial lending institutions are not willing to provide services to the private sector for rural sanitation and hygiene (Malawi)", *Sustainable Sanitation Practice*, Vol. 24 No. 10, pp. 9-15.

Holm, R., **Wanda, E.M.**, Kasulo, V. and Gwayi, S. (2014), "Identification of the potential opportunities, barriers, and threats within the sector in taking up sanitation as a business: rural sanitation in Nkhata Bay District (Malawi)", *Waterlines*, Vol. 33 No. 3, pp. 269-274.

Wanda, E.M., Gulula, L.C. and Kushe, J. (2014), "An assessment of effectiveness of the Lunyangwa River catchment co-management model in Mzuzu City, Northern Malawi", *Physics and Chemistry of the Earth, Parts A/B/C*, Vol. 72, pp. 96-103.

Holm, R., Kasulo, V. and **Wanda, E.** (2014), "Identification of funding mechanisms for private sector participation in the provision of rural household sanitation facilities, in Nkhata Bay District (Malawi)", *Sustainable Sanitation Practice*, No. 20, pp. 20-31.

Wanda, E. (2014), "Irrigation Water Quality Monitoring for Climate Change Adaptation in Mzimba District, Northern Malawi", *Malawi Journal of Science and Technology*, Vol. 10 No. 1, pp. 93-101.

Wanda, E.M., Gulula, L.C. and Phiri, A. (2013), "Hydrochemical assessment of groundwater used for irrigation in Rumphi and Karonga districts, Northern Malawi", *Physics and Chemistry of the Earth, Parts A/B/C*, Vol. 66, pp. 51-59.

Msilimba, G. and **Wanda, E.M.** (2013), "Microbial and geochemical quality of shallow well water in high-density areas in Mzuzu City in Malawi", *Physics and Chemistry of the Earth, Parts A/B/C*, Vol. 66, pp. 173-180.

Wanda, E.M., Gulula, L.C. and Phiri, G. (2012), "Determination of characteristics and drinking water quality index in Mzuzu City, Northern Malawi", *Physics and Chemistry of the Earth, Parts A/B/C*, Vol. 50, pp. 92-97.

Wanda, E.M., Gulula, L.C. and Phiri, G. (2012), "An appraisal of public water supply and coverage in Mzuzu City, northern Malawi", *Physics and Chemistry of the Earth, Parts A/B/C*, Vol. 50, pp. 175-178.

Wanda, E., Monjerezi, M., Mwatseteza, J.F. and Kazembe, L.N. (2011), "Hydro-geochemical appraisal of groundwater quality from weathered basement aquifers in Northern Malawi", *Physics and Chemistry of the Earth, Parts A/B/C*, Vol. 36 No. 14, pp. 1197-1207.

CONFERENCE PAPERS

Wanda, E.M.M., Manda, M., Kushe, J., Msiska, O., Mphande, C., Kamlomo, D. and Kaunda, J. Using Citizen Science Approach to monitor water, sanitation and hygiene Related Risks in Karonga Town, Malawi. Paper presented at the Royal Geographical Society (with the Institute of British Geographers) conference held in London, 29 August to 1 September, 2017.

Wanda, E., Nyoni, H., Mamba, B.B. and Msagati, T.A.M. Preparation of SiO₂ and GeO₂ embedded polyethersulfone nanocomposite membranes for removal of emerging micropollutants from water. Paper presented at the 17th WaterNet/WARFSA/GWPSA Symposium: Integrated Water Resources Management: Water Security, Sustainability and Development conference held at the Gaborone International Convention Centre, Gaborone, Botswana, 26 to 28 October, 2016.

Holm, R., Kasulo, V. and **Wanda, E.** Private Sector Participation in the delivery of Sanitation and Hygiene Services in Nkhata Bay district, Malawi. Paper presented at the World Water Week: Water for Development conference held in Stockholm, Sweden, 23 to 28 August, 2015.

Wanda, E., Nyoni, H., Mamba, B.B. and Msagati, T.A.M. Profiling of emerging micropollutants in aquatic systems in South Africa. Paper presented at the 16 WaterNet/WARFSA/GWP-SA Symposium: Infrastructural Planning for Water Security in Eastern and Southern Africa held the Le Meridien Ile Maurice Hotel, Mauritius, 28 to 30 October, 2015.

Holm, R., McGill, J. and **Wanda, E.** Functional Water Sources That Don't Work: A case for household self-supply through the Mzuzu Smart Centre, Malawi. Paper presented at the 37th WEDC International Conference on Sustainable water and sanitation for all in the fast-changing world held in Hanoi, Vietnam, 15 to 19th September, 2014.

Holm, R. and **Wanda, E.** The Case for More Water Quality Data: Improving Decision Making in Malawi. Paper presented at the 2012 IEEE Global Humanitarian Technology Conference held at the Renaissance Hotel - Seattle, WA, USA, 21 to 24 October, 2012.

DEPARTMENT OF EDUCATION AND TEACHING STUDIES

The department of Education and Teaching Studies (ETS) was established in 1997. It offers relevant education courses to faculties where the need and necessity arise.

VISION

The department will not only prepare secondary school teachers professionally but also those for the primary Teacher Training College (graduates in primary education) as well as Technical College Tutors.

MISSION

To implement both pre-and in-service quality training sessions that are aimed at preparing and/or equipping teachers with teaching and professional skills that are necessary for effective school management and producing students that are hardworking, trustworthy and patriotic to the Malawian populace.

RESEARCH ACTIVITIES

Departmental research activities fall within the following thematic areas: Classroom assessment, HIV/AIDS and Behavioural Change, Guidance and Counselling, Teacher education, Curriculum issues, Higher education policies, Open and Distance Learning, and Continuous Assessment.

MARISEN MWALE, MEd; B Ed

RESEARCH INTERESTS

- Adolescent health and psychology
- Public health, associations/links
- Population, Health and Environment
- Education - Child and Adolescent development
- Cognitive development
- Psychosocial development

BOOK PUBLICATIONS

Mwale, M. (2012) *Prevention Models, Cure research, and Epidemiological studies: HIV/AIDS and other Communicable Disease in Sub-Saharan Africa*, Berlin, Germany: Lap publishers.

Mwale, M. (2011) *Adolescent Psychology: The African Perspective*, 2nd edition, Berlin, Germany: Lap Publishers.

Mwale, M. (2011) *Adolescent Risk Perception, Cognition and Self-Assessment: A study performed among adolescents in Zomba- Malawi*, Berlin, Germany: Lap publishers.

JOURNAL PUBLICATIONS

Rashid, S. and **Mwale, M.** (2016), "The Effects of sex education on the risky sexual behaviour of school going adolescents: case study of Mbenjere secondary, Ntaja and Nsanama Community Day secondary school", *Psychology and Developing societies*, Vol. 28 No. 1, pp. 126-138.

Likupe, G. and **Mwale, M.** (2016), "The study of attributions of low achievers and high achievers about the perceived causes of their success and failure: the case of adolescent students in secondary schools-Malawi", *Journal of Child and Adolescent Behaviour*, Vol. 4 No. 5, pp. 1-4.

Kanchiputu, P. and **Mwale, M.** (2016), "Effects of domestic violence on children's education: the case study of Mpemba in Blantyre District [Malawi]", *Journal of Psychological Abnormalities*, Vol. 5 No. 2, p. 2.

Nkhata, M.J. and **Mwale, M.** (2016), "An Investigation of the Contributing Factors to Adolescent Deviant Behaviours in Rural Community Day Secondary Schools with Respect to the Social and Environmental Aspects", *Journal of Child and Adolescent behavior*, Vol. 4 No. 6, pp. 1-6.

Mwale, M. (2014), "Factors determining Voluntary Counseling and Testing [VCT] among low income women: Focus Group findings from rural, urban, and peri-urban women groups in Lilongwe District - Malawi", *Journal of Basic and Applied Sciences*, Vol. 10, pp. 306-316.

Mwale, M. (2014), "Condom use in relation to the HIV/AIDS pandemic among adolescents: the case of some selected schools in Zomba -Malawi", *Educational Research*, Vol. 5 No. 7, pp. 251-256.

Mwale, M. (2009), "Behavioural change vis-a-vis HIV/AIDS knowledge mismatch among adolescents: The case of some selected schools in Zomba", *South African Journal of Psychology*, Vol. 39 No. 4, pp. 460-467.

Mwale, M. (2008), "Adolescent risk-perception, cognition and self-assessment in relation to the HIV/AIDS pandemic: The case of some selected schools in Zomba", *Psychology and Developing Societies*, Vol. 20 No. 2, pp. 229-240.

Mwale, M. (2008), "Behavioural change vis-a-vis HIV/AIDS knowledge mismatch among adolescents: The case of some selected schools in Zomba", *Nordic Journal of African studies*, Vol. 17 No. 4, pp. 288-299.

CONFERENCE PROCEEDINGS

Mwale, M. and Muula, A. Adolescent psychosocial Behaviour Change Interventions [BCI] and their effectiveness vis-a-vis the HIV and AIDS pandemic among adolescents in sub-Saharan Africa: Systematic evidence from literature. Paper presented at the National AIDS Commission Research and Best Practices Dissemination Conference held at the Bingu International Conference centre in Lilongwe – Malawi, 12 to 13 November, 2015.

Mwale, M. and Muula, A. Adolescent psychosocial Behaviour Change Interventions [BCI] and their effectiveness vis-a-vis the HIV and AIDS pandemic among adolescents in sub-Saharan Africa: Systematic evidence from literature. Paper presented at The College of Medicine 19th Research Dissemination Conference held at the College of Medicine in Blantyre -Malawi on 21 November, 2015.

Mwale, M., Muula, A., Chirwa, M., Malewezi, M. and Nanthulu, B. Factors determining Voluntary Counseling and Testing [VCT] for HIV among low income women: Focus group findings from rural, urban, and peri-urban women groups in Lilongwe District- Malawi. Paper presented at the The College of Medicine 15th Research Dissemination Conference held at the College of Medicine in Blantyre - Malawi on 9 November, 2011.

DEPARTMENT OF GEOGRAPHY AND EARTH SCIENCES

The department seeks to provide the nexus between the environment and development by analysing the complex relationship that exists between the society and the earth's surface. The department offers both Human and Physical Geography programmes to secondary school teachers, urban and rural planners, community developers, and others.

RESEARCH ACTIVITIES

The department seeks to conduct research and consultancy in emerging issues that are impacting on Malawi's environment and society. Specific areas of research for staff within the department are urban informality, urban disaster management, urban sustainability, educational leadership and management, and teaching methods.

JAMES GONDWE, MSc; BA (Ed)

RESEARCH INTERESTS

- Urban informality
- Urban disaster management
- Urban sustainability
- Informality and the middle class in cities of Malawi and the global South

Title of Master's Dissertation:

Urban informality in Mzuzu City, Malawi: Informal settlements as sources of informal livelihoods and social networks

JOURNAL PUBLICATIONS

Kretzer, M.M., Engler, S., **Gondwe, J.** and Trost, E. (2016), "Fighting resource scarcity–sustainability in the education system of Malawi–case study of Karonga, Mzimba and Nkhata Bay district", *South African Geographical Journal*, pp. 1-17.

Wei, Q., Tong, L., **Gondwe, J.**, Lv, X., Tong, W. and Liu, Y. (2015), "Non-use value trends analysis of wetland ecosystem in the Sanjiang Plain, Northeast China", *Wetlands ecology and management*, Vol. 23 No. 3, pp. 347-355.

Gondwe, J. and Ayenagbo, K. (2013), "Negotiating for livelihoods beyond the formal Mzuzu City, Malawi, by the urban poor: Informal settlements as spaces of income generating activities", *International Journal of Human Sciences*, Vol. 10 No. 1, pp. 356-375.

Gondwe, J., Feng, G.G. and Ayenagbo, K. (2011), "Planning for sustainability in Malawian cities: A conceptual analysis of the missing links", *Journal of Human Sciences*, Vol. 8 No. 2, pp. 699-715.

Ayenagbo, K., Kimatu, J. N., **Gondwe, J.** and Rongcheng, W. (2011), "The transportation and marketing implications of sand and gravel and its environmental impact in Lome-Togo", *Journal of economics and International Finance*, Vol. 3 No. 3, pp. 125-138.

JAMES KUSHE, MSc; BA (Ed)

RESEARCH INTERESTS

- Chemical quality of groundwater
- Water quality management
- Water and sanitation

Title of Master's Dissertation:

Assessment of the Chemical Quality of Groundwater for Drinking in Dedza, Malawi

BOOK PUBLICATIONS

Gauti, H., Jimu, I. and **Kushe, J.** (2014) *Practice Geography Student Book 1*, Blantyre, Malawi: Dzuka Publishing Company Limited.

Kushe, J., and Hoko, Z. (2013) *Assessment of the chemical quality of groundwater for drinking in Dedza, Malawi*, Saarbrücken, Germany: Lambert Academic Publishing.

JOURNAL PUBLICATIONS

Kushe, J., Manda, M., Mdala, H. and Wanda, E. (2017), "The earthquake/seismic risk, vulnerability and capacity profile for Karonga town." *African Journal of Environmental Science and Technology*, Vol. 11 No. 1, pp. 19-32.

Wanda, E.M., Manda, M., **Kushe, J.**, Msiska, O., Mphande, C., Kamlomo, D. and Kaunda, J. (2017), "Using Citizen Science Approach to monitor water, sanitation and hygiene Related Risks in Karonga Town, Malawi." *African Journal of Environmental Science and Technology*, Vol. 11 No. 6, pp. 304-323.

Wanda, E.M., Gulula, L.C. and **Kushe, J.** (2014), "An assessment of effectiveness of the Lunyangwa River catchment co-management model in Mzuzu City, Northern Malawi." *Physics and Chemistry of the Earth, Parts A/B/C*, Vol. 72, pp. 96-103.

VICTOR MGOMEZULU, PhD; MEd; B Ed; Dip. Ed; Dip. Mgt

RESEARCH INTERESTS

- Educational Leadership and Management
- Teaching methods
- Teacher education
- Critical thinking

Title of PhD thesis:

Stakeholder Involvement in Strategic Planning: A Strategy to Mitigate the Effects of HIV and AIDS on Secondary Education in Botswana

Title of Master's Dissertation:

Learner Involvement in Management Aspects of Senior Secondary Schools in the North-Central District of Botswana

BOOK PUBLICATION

Mgomezulu, V.Y. and Kalua, F.A. (2013) *A guide to academic writing for beginners*, Mzuzu: MZUNI Press.

BOOK CHAPTER

Mgomezulu, V.Y. (2015), "Promoting research in a resource challenged environment: the case of Mzuzu University", in Halvorsen, T. and Ibsen, H. (Eds.), *Knowledge for a sustainable world*, Cape Town: African Minds and the Southern African –Nordic Centre, pp. 93-104.

JOURNAL PUBLICATIONS

Shawa, L.B. and **Mgomezulu, V.Y.** (2016), "Challenges of Implementing Contract Policies for University Academics in Malawi: A Case of Mzuzu University", *Africa Education Review*, Vol. 13 No. 3-4, pp. 17-31.

Mgomezulu, V.Y. (2016), "Integrating the rights of the child with the local cultural values: a precursor for meaningful discipline in Malawi schools", *Journal for Development and Leadership*, Vol. 5 No. 2, pp. 52-66.

Mgomezulu, V. (2016), "Does Experience of Hardship Deter Potential Candidates from Joining Teaching Profession? Case of Primary School Volunteer Teachers in Mzuzu Diocese in Malawi", *Turkish Journal of Teacher Education*, Vol. 5 No. 2, pp. 74-83.

Kambewa, B.C. and **Mgomezulu, V.Y.** (2015), "Using Definition of Modern Method to Train Teachers: The Case of Dowa DAPP Teacher Training College in Malawi", *Education and Society in Southern Africa*, Vol. 2 No. 1, pp. 28-49.

Wamba, N. and **Mgomezulu, V.** (2014), "The crisis in public education in Malawi", *International Journal of Advanced Research*, Vol. 2 No. 4, pp. 323-332.

Mgomezulu, V.Y., Shawa, L.B. and Wamba, N.G. (2014), "Blending critical thinking skills with the teaching of subject matter: Case of a geography lesson in a Malawi School", *AFRREV STECH: An International Journal of Science and Technology*, Vol. 3 No. 2, pp. 66-85.

Mgomezulu, V.Y., Wamba, N.G. and Shawa, L.B. (2013), "Training Learner-Leaders in School Management Aspects: A Strategy to Improving School Discipline in Botswana", *African Journal of Teacher Education*, Vol. 3 No. 1, pp. 1-17.

Mgomezulu, V.Y. and Wamba, N.G. (2013), "Mzuzu university student teachers' experiences and lessons: a case study", *Education and Society in Southern Africa*, Vol. 1 No. 1, pp. 33-46.

Mgomezulu, V.Y. and Kruger, A.G. (2011), "Enhancing school HIV and AIDS strategic plan through expanded stakeholder involvement", *Africa Education Review*, Vol. 8 No. 2, pp. 247-266.

Mgomezulu, V.Y. (2004), "Considerations for learner participation in managing indiscipline in senior secondary schools in Botswana", *Mosenodi*, Vol. 12 No. 1-2, pp. 48-68.

CONFERENCE PROCEEDINGS

Mgomezulu, V.Y. Performance of vulnerable learners in a surrogate family: Case of Mzuzu Save Our Souls (SOS) Children's Village. Paper presented at the International Conference of Education and Access: opening spaces for the marginalized held in Lilongwe, Malawi from 20 to 22 August, 2014.

Mgomezulu, V.Y. Promoting research in a resource challenged environment: The case of Mzuzu University. Paper presented at the Southern African-Nordic Centre (SANORD) International Conference held in Lilongwe, Malawi from 1 to 4 December, 2013.

Mgomezulu, V.Y. The effect of inducement on parent participation in school activities: A case of parent-teacher associations in some selected schools in Malawi. Paper presented at the Twelfth Biennial Conference of the International Association of Special Education held in Windhoek, Namibia from 10 to 14 July, 2011.

CALLINGS NGWIRA, MSc; BSc (Hons); BSc

RESEARCH INTERESTS

- Urban Political Geography (malgovernance)
- Urban Political Geography (spatialisation of injustices)
- The Just City Framework (struggle for spatial justice)

Title of PhD Thesis (Ongoing):

Governance in Post-Apartheid South Africa: An Urban-Political Geographical Study of the Buffalo City Metropolitan Municipality (1994-2013)

Title of Master's Dissertation:

Human Trafficking in Eastern Cape Province, South Africa

DEPARTMENT OF HISTORY**VISION**

To promote awareness of the significance of history in the development of social, political and economic needs of individuals and communities in Malawi through research and training.

MISSION

To provide high quality education to history students studying to become teachers at secondary and tertiary institutions, and mould patriotic citizens planning to work in the private and public sectors.

BACKGROUND

The department of History was officially established in 2007 having existed before as a section under the then department of Humanities for seven years since 2001.

RESEARCH ACTIVITIES

Members of staff within the History Department carry out research in fields of international relations, African politics, international relations theory, political and agrarian transformations, refugees and migration, and cultural and political history.

JUDITH MWANDUMBA, MSocSc; BA(Hons); BA (Ed)

RESEARCH INTERESTS

- Humanitarian Intervention
- African Politics
- International Relations Theory
- African Conflicts

Title of Master's Dissertation:

African Solutions to African Problems: Learning from ECOMOG'S Experiences in Liberia and Sierra Leone

JOURNAL PUBLICATIONS

Mwandumba, J.V. (2015), "Church state relations in Malawi. The Roman Catholic Church as an agent of political reform (From 1992 Until Present)", *Danubius Suppliment*, Vol. 33, pp. 77-92.

Mwandumba, J.V. (2013), "Children on the battlefield: A look into the use of child soldiers in the DRC conflict", *Southern Africa Peace and Security Studies*, Vol. 2 No. 2, pp. 59-71.

CONFERENCE PAPERS

Mwandumba, J.V. When Albinism threatens right to life: the plight of people living with Albinism in Malawi. Paper presented at the Humanities and Social Science Conference held at the University of Ghana, Ghana from 15 to 17 June, 2016.

BRYSON NKHOMA, MA; B Ed**RESEARCH INTERESTS**

- Ecology, Climate Change and Food Security
- Irrigation Farming
- Political and Agrarian Transformations
- Refugees and Migration

Title of PhD Thesis (On going):

Peasants, Ecology and the State: Food Security in the Lake Chilwa Basin of Southern Malawi, 1891-2015

Title of Master's Dissertation:

The State and irrigation Farming in Malawi, 1946 – 2002

BOOK CHAPTER

Nkhoma, B.G. (2012), “The Politics of the 1959 State of Emergency Commemorations in Malawi, 1960 – 2009”, in McCracken, J., Phiri, K.M. and Mulwafu, W.O. (Eds.), *Malawi in Crisis: The 1959 Nyasaland (Malawi) State of Emergency and its Legacy*, Zomba: Kachere, pp. 379-399.

JOURNAL PUBLICATIONS

Nkhoma, B. and Kayira, G. (2016), “Gender and power contestations over water use in irrigation schemes: Lessons from the lake Chilwa basin”, *Physics and Chemistry of the Earth, Parts A/B/C*, Vol. 92, pp. 79-84.

Nkhoma, B. (2013), “Competition for Malawian Labour: ‘Wenela’ and ‘Mthandizi’ in Ntcheu District, 1935-1956”, *Malawi Journal of Social Sciences*, Vol. 21, pp. 28-46.

Nkhoma, B. (2012), “Transnational Threats: The Problem of Illegal Immigration in Northern Malawi”, *Journal of Southern African Peace and Security Studies*, Vol. 1 No. 2, pp. 29-43.

Gwiyani-Nkhoma, B. (2011), “Irrigation development and its socioeconomic impact on rural communities in Malawi”, *Development Southern Africa*, Vol. 28 No. 2, pp. 209-223.

Nkhoma, B. (2011), “The politics, development and problems of small irrigation dams in Malawi: Experiences from Mzuzu ADD”, *Water Alternatives*, Vol. 4 No. 3, pp. 383-398.

Nkhoma, B.G. (2006), “Towards an African Historical Thought: Cheikh Anta Diop’s Contribution”, *Journal of Humanities*, Vol. 20 No. 1, pp. 107-123.

Nkhoma, B.G. and Mulwafu, W.O. (2004), “The experience of irrigation management transfer in two irrigation schemes in Malawi, 1960s–2002”, *Physics and Chemistry of the Earth, Parts A/B/C*, Vol. 29 No. 15, pp. 1327-1333.

Mulwafu, W., Chipeta, C., Chavula, G., Ferguson, A., **Nkhoma, B.G.** and Chilima, G. (2003), “Water Demand Management and Problems for Its Promotion”, *Physics and Chemistry of the Earth*, Vol. 28 No. 20, pp. 787-796.

Mulwafu, W.O. and **Nkhoma, B.G.** (2002), “The use and management of water in the Likangala Irrigation Scheme Complex in Southern Malawi”, *Physics and Chemistry of the Earth, Parts A/B/C*, Vol. 27 No. 11, pp. 839-844.

CONFERENCE PAPER

Nkhoma, B.G. Ethnicity and Regional Identities in Malawi: The Case of Friends from the South in Mzuzu, 1993-2010. Paper presented at the Histories and National Identities in the Global South: Rethinking the Past and Present conference held at Chancellor College, Zomba, Malawi, 13 to 15 July, 2011.

JAMU NYIRENDA, MA; B Ed

RESEARCH INTERESTS

Cultural and political history

Title of Master's Dissertation:

Ngoni Culture, Missionary Christianity and the Modern State: The Case of Mpherembe in Mzimba

CONFERENCE PAPERS

Nyirenda, J. Ngoni Cultural Resilience in Post-Independence Time: The case of Mpherembe Ngoni from 1964 to 1994. Paper presented at the Setting Forth at Dawn: A workshop on Geopolitics and Practices of Writing and Publicity conference held at Jimma University, Jimma, Ethiopia, 16 to 20 May, 2016.

Nyirenda, J. Ngoni culture, missionary Christianity and the modern state: The case of Inkosi Mpherembe Area, Mzimba, Malawi 1899 - 1994. Paper presented at the 23rd Biennial Conference held at the University of KwaZulu-Natal (Howard College Campus), South Africa, 27 to 30 June, 2011.

DEPARTMENT OF LANGUAGES AND LITERATURE

The Department of Languages and Literature is one of the earliest and largest academic departments at Mzuzu University. Members of staff within the department have attained various specialties within the broad disciplines of linguistics, literature, communication and French.

Research Activities

Members of staff within the Department of Languages and Literature undertake research activities in the fields of bilingualism, multilingualism, sociolinguistics, theatre and development, culture, phonetics of Malawian languages, forensic linguistics, functional linguistics, health communication, morpho-syntax, and language variation. Profiles of staff and their research output are listed below.

AGNESS CHALIWA HARA, PhD; MA; BA

RESEARCH INTERESTS

- Text comprehension
- Language acquisition and learning
- Bilingualism
- Multilingualism
- Sociolinguistics-related topics

Title of PhD Thesis:

Text Comprehension in Multilingual Children: Mental Representation and Narrative Text Structure

Title of Master's Dissertation:

Code-Mixing in Simultaneous Language Acquisition

JOURNAL PUBLICATIONS

Hara, A. and Tappe, H. (2016), "Inference generation and text comprehension in bilingual children: A case study", *Literator - Journal of Literary Criticism, Comparative Linguistics and Literary Studies*, Vol. 37 No. 2, pp. 1-12.

Tappe, H. and **Hara, A.** (2013), "Language specific narrative text structure elements in multilingual children", *Stellenbosch Papers in Linguistics Plus*, Vol. 42, pp. 297-331.

CONFERENCE PAPERS

Hara, A. and Tappe, H. Of coherence and cohesion in stories told by African children. Paper presented at 14th Linguistic Association of SADC Universities (LASU) Conference, Chancellor College, Zomba, Malawi, 14 to 15 September, 2017.

Hara, A. Experiences of English teachers when teaching learners with hearing impairment reading comprehension. Paper presented at National Research Dissemination Conference, Mangochi, Malawi, 28 to 29 September, 2017.

Hara, A. and Tappe, H. Implicit information and text comprehension in multilingual children: A case study. Paper presented at a Conference held at the Potchefstroom Campus, North-West University, South Africa, 24 to 26 June, 2015.

Tappe, H. and **Hara, A.** Language specific narrative text structure elements in multilingual children. Paper presented at the Language: policy, planning, practice and principles conference held at Stellenbosch, Western Cape, South Africa, 1 to 4 July, 2013.

WELLMAN KONDOWE, MA; B Ed**RESEARCH INTERESTS**

- Political Discourse Analysis
- Text Linguistics
- Forensic Linguistics
- Functional Linguistics
- Bantu Linguistics

Title of Master's Dissertation:

Political Discourse Analysis: Systemic Functional Study of Bingu wa Mutharika Inauguration Addresses

JOURNAL PUBLICATIONS

Kizito, E. and Kondowe, W. (2017), "Examining the Impact of Questions and Questioning Techniques in Malawian Magistrate Courts: A Critical Discourse Analysis Approach", *Journal of Arts, Science & Commerce*, Vol. 8 No. 4, pp. 133-141.

Chibambo, M.I. and **Kondowe, W.** (2017), "Are peerless e-resources any better tools for supporting students in open and distance learning environments than the more traditional tools? The case of Mzuzu University, Malawi", *Researchers World Journal of Arts, Science and Commerce*, Vol. 8 No. 3, pp. 126-138.

Ngwira, F.F., Gu, C., Mapoma, H.W.T. and **Kondowe, W.** (2017), "The role of academic emotions on medical and allied health students' motivated self-regulated learning strategies", *Journal of Contemporary Medical Education*, Vol. 5 No. 1, pp. 23 – 29.

Manda, M., **Kondowe, W.**, Ngwira, F.F. and Kishindo, L. (2016), "An Analysis of Verbal Extensions in Malawian Tonga: Towards Mirror Principle and Templatic Morphology", *International Journal of Linguistics*, Vol. 8 No. 4, pp. 66-82.

Ngwira, F.F., Mapoma, H.W.T., Jianzhong, H.O.N.G., Sariyo, S. and **Kondowe, W.** (2015), "Intercultural Communication Competence and Acculturation among International Students in Central China", *Intercultural Communication Studies*, Vol. 24 No. 2, pp. 61-83.

Kondowe, W. (2014), "Hedging and Boosting as Interactional Metadiscourse in Literature Doctoral Dissertation Abstracts", *International Journal of Language Learning and Applied Linguistics World*, Vol. 5 No. 3, pp. 214-221.

Kondowe, W. (2014), "Presidents and Ideologies: A Transitivity analysis of Bingu wa Mutharika's Inaugural Address", *International Journal of Language and Linguistics*, Vol. 2 No. 3, pp. 174-180.

Kondowe, W. (2014), "Interpersonal Metafunctions in Bingu wa Mutharika's Second-Term Political Discourse: A Systemic Functional Grammatical Approach", *International Journal of Linguistics*, Vol. 6 No. 3, pp. 70-84.

Kondowe, W., Ngwira, F.F. and Madula, P. (2014), “Linguistic Analysis of Malawi Political Newspaper Cartoons on President Joyce Banda: Towards Grice’s Conversational Implicature”, *International Journal of Humanities and Social Sciences*, Vol. 47 No. 1, pp.40-51.

WESLEY MACHESO, MA; BA**RESEARCH INTERESTS**

- Disability studies and illness
- Post-colonial theory and literature
- Gender identity and sexuality

Title of Master's Dissertation:

The Obscure Object? Gender Identity and the Intersex Anatomy in Kathleen Winter's Annabel, Abigail Tarttelin's Golden Boy and Jeffrey Eugenides' Middlesex

BOOK PUBLICATION

Macheso, W. (2017), *Akuzike and the Gods*, Blantyre: Malawi Writers Union.

BOOK CHAPTER

Macheso, W. (2015), "This Land is mine", in Mulgrew, N. and Szczurek, K. (Eds.), *Water: New Short Fiction from Africa*, Cape Town: Short Story Day Africa.

JOURNAL PUBLICATIONS

Macheso, W. (2017), "The problem with the traveller's gaze: Images of the Dark Continent in Paul Theroux's The Lower River", *Journal of Humanities*, Vol. 25 No. 2, pp. 45-61.

Macheso, W. (2016), "Stigma, compulsory able-bodiedness, and queer existence in Villant Jana's Alufeyo: A crip theory analysis", *Journal of Development and Communication Studies*, Vol. 4 No. 2, pp. 469-476.

Macheso, W. (2015), "Dystopia and the Irony of Exile: Narrating Post-Independence Disillusionment in Teju Cole's Every Day is for the Thief", *GNOSIS*, Vol. 1, No. 4, pp. 107-114.

CONFERENCE PAPER

Macheso, W. The abnormal as a fallacy of medicine in Kathleen Winter's Annabel, Abigail Tarttelin's Golden Boy and Jeffrey Eugenides' Middlesex and Villant Jana's Alufeyo. Paper presented at the Medical Humanities in an African Context Conference hosted by the Faculty of Humanities, University of Malawi, Zomba in August, 2017.

Macheso, W. Beyond Translation: The Employment of Oral Narratives in Selected Malawian Plays. Paper presented at the Orature and its Place in Malawian Literature conference co-hosted by the Department of Languages and Literature, Mzuzu University, and the Department of English and Humanities, Birbeck College, University of London in Mzuzu, 29 to 31 July, 2014.

PRECIOUS MADULA, MA; BA (Ed)

ORCID ID: <http://orcid.org/0000-0002-4525-873X>

RESEARCH INTERESTS

- Health Communication
- Media Effects
- Cross-Cultural Communication.

PhD Thesis (on going):

Assessment of Interpersonal Communication between Healthcare Providers and Patients in Malawi

Title of Master's Dissertation:

Bridging the Information Gap: How to Improve Communication between Healthcare Providers and Patients in Malawi

JOURNAL PUBLICATIONS

Madula, P., Hong, Y., Kondowe, W. (2017), "Facing the Enemy Head on: The Role of Pasimba Radio Program in Promoting the Fight against HIV and AIDS in Malawi", *Advances in Journalism and Communication*, Vol. 5 No. 4, pp. 278-292.

Kondowe, W., Ngwira, F.F. and **Madula, P.** (2014), "Linguistic analysis of Malawi newspaper cartoons on President Joyce Banda: Towards Grice's Conversational Implicature", *International Journal of Humanities and Social Sciences*, Vol. 4 No. 7.1, pp. 40-51.

Madula, P. (2013), "Nursing education and its impact on patient healthcare provider communication in Malawian hospitals", *Journal of Media and Communication Studies*, Vol. 5 No. 8, pp. 123-131.

CONFERENCE PAPERS

Madula, P. Internet penetration in Malawi. Paper presented at the Media effects in Asian and African Countries conference held at Huazhong University of Science and Technology, People's Republic of China, 9 to 10 October, 2016.

Madula, P. Cultural shock amongst African students in China. Paper presented at the Intercultural Communication Symposium held at the Shanghai International Studies University, 2 to 5 February, 2013.

Madula, P. Prospects and challenges of mobile learning at Mzuzu University. Paper presented at the Mobile Learning in Africa conference held at the University of Cape Town, 26 to 28 June, 2008.

ATIKONDA MTENJE, PhD; MA; BA (Hons); BA

RESEARCH INTERESTS

- African linguistics
- Phonology
- Morpho-syntax
- Language variation
- Language and development

Title of PhD Thesis:

A Comparative Analysis of the Phonology and Morpho-Syntax of Cisukwa, Cindali and Cilambya

Title of Master's Dissertation:

Aspects of the Phonology of Sukwa: An Optimality Theoretic Analysis

BOOK PUBLICATIONS

Mtenje, A. (2012) *Aspects of the Phonology of Sukwa: An Optimality Theoretic Analysis*, Cape Town: Centre for Advanced Studies of African Society (CASAS).

BOOK CHAPTER

Mtenje, A. (2013), "The Malawian experience in language planning", in Akumbu, P. and Chiatoh, B. (Eds.), *Language Policy in Africa: Perspectives for Cameroon*, Kansas: Miraclaire Academic Publishers.

JOURNAL PUBLICATIONS

Mtenje, A. A. (2013), "Arguments for a Cluster Analysis of Nasal Consonant Sequences of Sukwa", *Marang: Journal of Language and Literature*, Vol. 23 No. 1, pp. 1-9.

CONFERENCE PAPERS

Mtenje, A. Noun class system micro-variation: A case study of Cisukwa, Cindali and Cilambya. Paper presented at the International workshop on Bantu languages: Studies in East African Bantu and micro-variation conference held in London, United Kingdom on 1 March, 2014.

Mtenje, A. A comparison of selected phonological properties of Venda and Chewa. Paper presented at the Ernst Westphal, a truly South African pioneer linguist conference held in Cape Town, South Africa on 3 November, 2013.

Mtenje, A. and Mtenje, A. An optimality theoretic reanalysis of hiatus resolution in Chichewa. Paper presented at the Linguistic Association of SADC Universities (LASU) conference held in Swaziland in July, 2013.

Mtenje, A. Arguments for a cluster analysis of NC sequences in Sukwa. Paper presented at the World Congress of African Linguistics conference held at the Buea, Cameroon in July, 2012.

Mtenje, A. Patterns of language use and choice and linguistic barriers at Zomba Central Hospital. Paper presented at the National research dissemination conference held in Lilongwe, Malawi, 2012.

Mtenje, A. The language in education policy in Malawi: An analysis of the strides and setbacks in the implementation process. Paper presented at the African renaissance, integration, unity and development conference held in Pretoria, South Africa in September, 2011.

Mtenje, A. Nasal consonant or prenasalised stop. Paper presented at the African Linguistics School conference held in Porto-Novo, Benin in July, 2011.

Mtenje, A. Phrasing in focused constructions and relative clauses in Chichewa. Paper presented at the African Linguistics School conference held in Porto-Novo, Benin in July, 2011.

Mtenje, A. Selected phonological processes of Sukwa. Paper presented at the SARCHI sociolinguistics workshop held in Cape Town, South Africa from 25 to 26 November, 2010.

Mtenje, A. Aspects of the phonology of Sukwa. Paper presented at the Postgraduate conference of University of Stellenbosch held in Cape Town, South Africa, 2010.

Mtenje, A. The noun class system of Sukwa. Paper presented at the Postgraduate conference of the University of Cape Town held in Cape Town, South Africa, 2010.

Mtenje, A. The loan words of monolingual and bilingual speakers of Chichewa. Paper presented at the Postgraduate research seminar of University of Cape Town held in Cape Town, South Africa, 2009.

Mtenje, A. An overview of Chichewa phonetics and phonology. Paper presented at the African Linguistics School conference held in Accra, Ghana, 2009.

Mtenje, A. Phrasing and intonation in Chichewa. Paper presented at the African Linguistics School conference held in Accra, Ghana, 2009.

Mtenje, A. Phonological processes of a Chichewa speaking child. Paper presented at the Research dissemination seminar held in Zomba, Malawi, 2009.

DEPARTMENT OF MATHEMATICS

The Department of Mathematics is one of the oldest departments at Mzuzu University. It was founded in 1999, the year Mzuzu University was officially opened. It serves students in all the five faculties of the University.

REASEARCH

The Mathematics Department is engaged in research in various areas of Mathematics. Particular focus has so far been on Error Correcting Codes, Cryptography, Applied statistics and Probability, Data science, and Mathematics Education.

ATIPATSA CHIWANDA KAMINGA, MSc (ITCC); BSc (Ed)

RESEARCH INTERESTS

- Statistics and Probability
- Theory applications to Medical Sciences
- Number Theory
- Geometry applications to Cryptography
- Coding Theory

Title of PhD Thesis (on going):

Post-Traumatic Stress Disorder after Flood: Prevalence, Risk factors, and Survival analysis of Time to Recovery

Title of Master's Dissertation:

Thesis Part-1: Improved Bound on the Determinant of a Lattice with short vectors in the Cryptanalysis of RSA with Private Key d less Than $N^{0.292}$.

Thesis Part-2: Subsets of Goppa codes whose Dimension and Minimum Distance equal the Minimum Bounds.

BOOK PUBLICATIONS

Kaminga, A., C., Kubwalo, P. and Kumwenda, K. (2017) *Practice Mathematics Book 3*, Blantyre: Dzuka Publishing Company.

Kaminga, A., C., Kubwalo, P. and Kumwenda, K. (2017) *Practice Mathematics Book 4*, Blantyre: Dzuka Publishing Company.

Kaminga, A., C., Kubwalo, P. and Kumwenda, K. (2017) *Practice Mathematics Teacher's Guide*, Blantyre: Dzuka Publishing Company.

JOURNAL PUBLICATIONS

Dai, W., **Kaminga, A.C.**, Wu, X., Wen, S.W., Tan, H., Yan, J., Deng, J., Lai, Z. and Liu, A. (2017), "Brain-derived neurotrophic factor val66met polymorphism and posttraumatic stress disorder among survivors of the 1998 Dongting Lake Flood in China", *BioMed Research International*, Vol. 2017, pp. 1-10.

Dai, W., **Kaminga, A.C.**, Tan, H., Wang, J., Lai, Z. and Wu, X. (2017), "Long-term psychological outcomes of flood survivors of hard-hit areas of the 1998 Dongting Lake flood in China: Prevalence and risk factors", *PLoS ONE*, Vol. 12 No. 2, p. e0171557.

Xin, W.U., Jieru, W.A.N.G., Cofie, R., **Kaminga, A.C.** and Aizhong, L.I.U. (2016), "Prevalence of posttraumatic stress disorder among breast cancer patients: A meta-analysis", *Iranian Journal of Public Health*, Vol. 45 No. 12, pp.1533-1544.

Xu, R., Dai, W., Zhao, G., Tu, D., Yang, L., Wang, F., Cai, Y., Lan, L., Tan, H., Liu, A., Feng, T., and **Kaminga, A.C.** (2016), “Early sexual debut and HIV infection among men who have sex with men in Shenzhen, China”, *BioMed Research International*, Vol. 2016, pp. 1-9.

Dai, W., Wang, J., **Kaminga, A.C.**, Chen, L., Tan, H., Lai, Z., Deng, J. and Liu, A. (2016), “Predictors of recovery from posttraumatic stress disorder after the Dongting Lake Flood in China: a 13-14 year follow-up study”, *BMC Psychiatry*, Vol. 16, pp. 1-9.

Dai, W., Chen, L., Tan, H., Wang, J., Lai, Z., **Kaminga, A.C.**, Li, Y. and Liu, A. (2015), “Association between social support and recovery from post-traumatic stress disorder after flood: a 13-14-year follow-up study in Hunan, China”, *BMC public health*, Vol. 16 No. 1, pp.194-194.

Chilale, H.K., Banda, R., Muyawa, J. and **Kaminga, A.C.** (2014), “Duration of untreated psychosis and associated factors in first episode psychosis in Mzuzu in Northern Malawi”, *African Journal of Psychiatry*, Vol. 17, pp.503-507.

Kaminga, A. C. (2007), “Determining the entries of a Boneh and Durfee lattice basis”, *Southern African Mathematical Sciences Association Journal*, Vol. 2, pp 15-20.

CONFERENCE PAPERS

Kaminga, A. C. Determining the Entries of a Boneh and Durfee lattice basis. Paper presented at the Southern African Mathematical Sciences Association Conference held at the University of Namibia in Windhoek, Namibia, November, 2007.

Kaminga, A. C. A subset of Goppa Codes whose Dimension and Minimum Distance equal the Minimum Bounds. Paper presented at the SAMSA Industrial and Financial Mathematics Conference organized by the University of Malawi held in Blantyre, Malawi, 2005.

PAUL KUBWALO, MSc (ITCC); BSc (Ed)

RESEARCH INTERESTS

- Cryptography
- Error correcting codes
- Data science
- Mathematics Education

Title of Master's Dissertation

Low Density Parity Check (LDPC) Irreducible Goppa Codes

BOOK PUBLICATIONS

Kaminga, A., **Kubwalo, P.** and Kumwenda, K. (2017) *Practice Mathematics Book 3*, Blantyre: Dzuka Publishing Company.

Kaminga, A., **Kubwalo, P.** and Kumwenda, K. (2017) *Practice Mathematics Book 4*, Blantyre: Dzuka Publishing Company.

Kaminga, A., **Kubwalo, P.** and Kumwenda, K. (2017) *Practice Mathematics Teacher's Guide*, Blantyre: Dzuka Publishing Company.

JOURNAL PUBLICATIONS

Kaunda, A., **Kubwalo, P.**, Lafayette, H., Magamba, K., McInnis, B., Musukwa, A., and Ryan, J.A. (2016), "Enumeration of extended irreducible Goppa codes degree 7 and length 65", *MAYFEB Journal of Mathematics*, Vol 4, pp. 29 – 37.

KHUMBO KUMWENDA, PhD; MSc (ITCC); BSc (Ed)

ORCID id: 0000-0003-0833-9933

RESEARCH INTERESTS

- Error Correcting Codes
- Codes from graphs
- Mathematics Education

Title of PhD Thesis:

Codes, Graphs and Designs Related to Iterated Line Graphs of Complete Graphs

Title of Master's Dissertation:

Quasicyclic Irreducible Goppa Codes of Length $q^n - 1$

BOOK PUBLICATIONS

Kaminga, A., Kubwalo, P. and **Kumwenda, K.** (2017) *Practice Mathematics Book 3*, Blantyre: Dzuka Publishing Company.

Kaminga, A., Kubwalo, P. and **Kumwenda, K.** (2017) *Practice Mathematics Book 4*, Blantyre: Dzuka Publishing Company.

Kaminga, A., Kubwalo, P. and **Kumwenda, K.** (2017) *Practice Mathematics Teacher's Guide*, Blantyre: Dzuka Publishing Company.

JOURNAL PUBLICATIONS

Kumwenda K. and **Musukwa A.** (2018) "A bipartite graph associated with irreducible elements and group of units in Z_n ", *International Journal of Applied Mathematics*, Vol 31 No. 1, 149-169.

Chamera, F. and **Kumwenda, K.** (2015), "Message passing decoding of codes from complete graphs", *Journal of Mathematics and Statistical Science*, pp. 75-88.

Fish, W., **Kumwenda, K.** and Mwambene, E. (2012), "Codes related to line graphs of triangular graphs and permutation decoding", *Quaestiones Mathematicae*, Vol. 35 No. 4, pp.489-505.

Fish, W., **Kumwenda, K.** and Mwambene, E. (2012), "Codes from embeddings of the strong product of triangular graphs and K_2 and certain induced subgraphs", *ARS COMBINATORIA*, Vol. 106, pp.79-95.

Fish, W., **Kumwenda, K.** and Mwambene, E. (2011), "Codes and designs from triangular graphs and their line graphs", *Central European Journal of Mathematics*, Vol. 6 No. 9, pp. 1411-1423.

CONFERENCE PAPERS/ PROCEEDINGS

Chisala, B.P. and **Kumwenda, K.** (Eds.), Proceedings of the 30th Southern Africa Mathematical Sciences Association (SAMSA) Conference held at the Crossroads Hotel, Lilongwe, Malawi from 26 to 29 November, 2012.

Kumwenda, K. and Mwambene, E. Codes from graphs related to the categorical product of triangular graphs and Kn. Paper presented at the IEEE Information Theory Workshop held in Dublin from 30 August to 3 September, 2010.

GEORGE LUWANDA, PhD; MSc; BSc

RESEARCH INTERESTS

- Statistics and Probability
- Biostatistics

Title of PhD Thesis:

Nonlinear Mixed-Effects Models for Multi-Variate Longitudinal Data with Application to HIV Disease Dynamics

JOURNAL PUBLICATIONS

Luwanda, A.G. and Mwambi, H.G. (2017), “A nonlinear mixed-effects model for multivariate longitudinal data with partially observed outcomes with application to HIV disease dynamics”, *Journal of Applied Statistics*, Vol. 44 No. 3, pp.441-456.

Luwanda, A.G. and Mwambi, H.G. (2016), “Estimation of parameters of the HIV disease dynamical system using routine observation data”, *Africa Journal of Science Research*, Vol. 5 No. 2, pp. 10-13.

Luwanda, A.G. and Mwambi, H.G. (2016), “A Nonlinear Mixed-Effects Model for Multivariate Longitudinal Data with Dropout with Application to HIV Disease Dynamics”, *Journal of Agricultural, Biological, and Environmental Statistics*, Vol. 21 No. 2, pp.277-294.

AUGUSTINE MUSUKWA, MSc (ITCC); BSc

RESEARCH INTERESTS

- Error correcting codes
- Goppa codes
- Cryptography
- Boolean functions and their applications in cryptography

Title of PhD Thesis (ongoing):

APN Boolean functions and their applications in cryptography

Title of Master's Dissertation:

Enumeration of extended irreducible binary hexic Goppa codes of length 2^n+1

JOURNAL ARTICLES

Musukwa A. (2018) "Counting extended irreducible binary Goppa codes of degree $2p$ and length 2^n+1 ", *Journal of Mathematical and Computational Science*, Vol 8 No 1, 1-17.

Kumwenda K. and **Musukwa A.** (2018) "A bipartite graph associated with irreducible elements and group of units in Z_n ", *International Journal of Applied Mathematics*, Vol 31 No. 1, 149-169.

Magamba, K., **Musukwa, A.** and Ryan, J.A. (2017), "Enumeration of extended irreducible binary octic Goppa codes of degree 2^m and length 2^n+1 ," *Journal of Algebra Combinatorics Discrete Structures and Applications*, Vol 4, No. 3, pp. 1-12.

Musukwa, A. (2017), "A special subring associated with irreducible elements in the ring Z_n ", *MAYFEB Journal of Mathematics*, Vol 2, pp. 1-7.

Kaunda, A., Kubwalo, P., Lafayette, H., Magamba, K., McInnis, B., **Musukwa, A.**, and Ryan, J.A. (2016), "Enumeration of extended irreducible Goppa codes degree 7 and length 65," *MAYFEB Journal of Mathematics*, Vol 4, pp. 29 – 37.

DEPARTMENT OF PHYSICS

MISSION

To provide high quality education, training, research, consultancies and outreach services in Physics.

RESEARCH ACTIVITIES

Staff within the department carry out research in the areas of radiation Physics and dosimetry, solid state Physics, telecommunications, nuclear Physics and electronics.

LEONARD CHALEMBA, PhD; MSc; BSc

RESEARCH INTERESTS

- Mobile networks
- E-learning
- Network architecture
- Application of mobile technologies in agriculture

Title of PhD Thesis:

Topology-Aware Multicasting in Phased Mobile adhoc Networks for E-Learning

Title of Master's Dissertation:

Access Network Architecture for the Next Generation Network for Service Provision to Underdeveloped Communities

JOURNAL PUBLICATIONS

Chalembe, L.E. (2017), "Incorporation of telecommunications technologies into agricultural market information systems: a comparative analysis of Ghana and Tanzania." *The Electronic Journal of Information Systems in Developing Countries*, Vol. 79 No. 3, pp. 1-15.

Chalembe, L. (2016), "Application of telecommunications technologies to agricultural market information systems: A comparative analysis of Malawi and Ghana", *International Journal of Agricultural and Environmental Information Systems (IJAEIS)*, Vol. 7 No. 3, pp. 60-70.

Chalembe, L. (2016), "Integration of telecommunication technologies into agricultural market information systems: A comparative analysis of Uganda and Malawi", *Journal of Agricultural Informatics*, Vol. 7 No. 2, pp. 70-79.

Chalembe, L. (2014), "Maximising resource utilisation and load balancing in MANET multicasting with ODMRP over cluster-based topologies", *International Journal of Wireless and Mobile Computing*, Vol. 7 No. 1, pp.1-9.

SIMEON MACKSON GWAYI, PhD; MA; B Ed (Sc.)**RESEARCH INTERESTS**

- Teacher development
- Teaching, learning and assessment
- Innovation diffusion in education
- Science Education
- Distance learning
- Curriculum implementation

Title of PhD Thesis:

Perceptions of innovations as predictors of TALULAR implementation levels among secondary school science teachers in Malawi: A diffusion of innovations perspective

Title of Master's Dissertation:

Establishment of Distance Education for Secondary School Teachers in Malawi, Africa: A National Needs Assessment

BOOK CHAPTERS

Itimu-Phiri, A.N., Gwayi, S.M. and Itimu, A.E. (2017), "The Republic of Malawi", in Wehmeyer, M.L. and Patton, J.R. (Eds.), *Praeger International Handbook of Special Education (Vol. 1)*. California: Praeger, pp. 225-239.

Zozie, P. A., Sanga, M. W., **Gwayi, S. M.**, Nyirongo, N. K., Kanyengambala, J. C., Perkins, R. A. and Lockee, B.B. (2004), "Establishment of Distance Education for Secondary School Teachers in Malawi, Africa: A National Needs Assessment", in Fitzgerald, M.A. Orey, M. and Branch, R.M. (Eds.), *Educational Media and Technology Yearbook. Vol. 29*, Westport, CT: Libraries Unlimited, pp. 51-60.

BOOK EDITED

Kalibwanji.O.B. (1999), *A Junior Certificate Physical Science*, 2nd ed., Zomba: Chancellor College Publications.

JOURNAL ARTICLES

Gwayi, S.M. (2016), "Developing fair and useful assessment tools: Test characteristics and the moderation process", *Education and Society in Southern Africa*, Vol.3 No. 3, pp. 3-30.

Jere, D.R. and **Gwayi, S.** (2016), "Demystifying assessment in higher education: A comparative study of undergraduates' academic performance in Malawi universities with large enrollments in a single class/subject", *Journal of Arts, Science & Commerce*, Vol. 4 No. 1, pp. 108-115.

Holm, R., Singini, W. and **Gwayi, S.** (2016), "Comparative evaluation of the cost of water in northern Malawi: From rural water wells to science education", *Applied Economics*, Vol. 48 No. 47, pp. 1-11.

Holm, R., Stroud, R., Msilimba, G. and **Gwayi, S.** (2015), “Functionality and water quality of elephant pumps: Implications for sustainable drinking water supplies in rural Malawi”, *Groundwater for Sustainable Development*, Vol. 1 No. 1-2, pp. 129–134.

Holm, R., Wanda, E., Kasulo, V. and **Gwayi, S.** (2014), “Identification of the potential opportunities, barriers, and threats within the sector in taking up sanitation as a business: Rural sanitation in Nkhata Bay District”, *Waterlines*, Vol. 33 No. 3, pp. 269-274.

Singini, W., Msilimba, G. and **Gwayi, S.** (2013), “Logit analysis of factors influencing adoption of community led total sanitation in Malawi: A case of GSF target districts”, *Journal of Applied Sciences in Environmental Sanitation*, Vol.8 No. 4, pp. 293-301.

Perkins, R. A., **Gwayi, S. M.**, Zozie, P. A. and Lockee, B. B. (2005), “Distance education in Malawi”, *Educational Technology Research and Development*, Vol. 53 No. 4, pp. 101-108.

CONFERENCE PAPERS

Gwayi, S.M. and Jere, D.R. Pre-service teachers’ feedback on school-based teaching practice: Perspectives on readiness, support and satisfaction. Abstract for paper accepted for presentation at the 2017 National Research Dissemination Conference (NRDC) organized by the National Commission for Science & Technology (NCST) held at Sun and Sand Holiday Resort, Mangochi, 27 to 29 September, 2017.

Gwayi, S.M. Pre-service physics teachers’ views about microteaching: Lesson planning, implementation and analysis. Paper presented at the International Conference on Teaching and Learning of Mathematics and Science, Sagecoa Golden Peacock Hotel, Lilongwe, Malawi, 19 to 22 June, 2017.

Mdolo, M., **Gwayi, S.** and Mpewe, C. Investigating competencies required to effectively assess pre-service teachers on school-based teaching practice. A paper presented at the Southern African Association for Research in Mathematics, Science and Technology Education (SAARMSTE) conference held at Tshwane University of Technology, Arts Campus, Pretoria, RSA, 12 to 15 January, 2016.

Gwayi, S.M. Characteristics of a Good Test and the Moderation Process. Paper presented at the Symposium for Mzuzu University Academic Staff held at St. John of God Conference Hall in 2011.

Gwayi, S.M. The role of perceived innovation characteristics in predicting implementation: The diffusion of TALULAR instructional innovation among secondary school science teachers in Malawi. Paper presented at the Virginia Polytechnic Institute & State University’s School of Education Academic Association (SOEAA) Annual Research Conference in Blacksburg, Virginia, Graduate Life Centre at the Blacksburg campus, 22 to 23 February, 2009.

Gwayi, S.M., Nyirongo, N., Zozie, P., Sanga, M., Lockee, B.B. and Burton, J. Adaptation and distance delivery of instructional technology programs for developing countries: The case of Virginia Tech-Mzuzu University UPIC project in Malawi. Paper presented at the 2008 Association for Educational

Communications and Technology (AECT) International Convention: "On the Horizon... Rays of Change", Orlando, FL, 4 to 8 November, 2008.

Gwayi, S.M. Research on human cognition and design implications for eLearning. Paper presented at the 31st Eastern Educational Research Association (EERA) Annual Conference. Hilton Head, South Carolina, Hilton Head Marriot Beach & Resort, USA, 20 to 23 February, 2008.

Gwayi, S.M. An Instructional Design Model for Distance Education. Paper presented at the 31st Eastern Educational Research Association (EERA) Annual Conference. Hilton Head, South Carolina, Hilton Head Marriot Beach & Resort, USA, 20 to 23 February, 2008.

Gwayi, S.M. Major challenges to the provision of science education in Malawi: A literature review. Paper presented at the Virginia Tech School of Education Student Association (SOESA) Third Annual Research Conference. Blacksburg, Virginia, Graduate Life Centre at the Blacksburg campus, 26 February, 2008.

Lockee, B., **Gwayi, S.M.**, Burton, J., Perkins, R. and Nyirongo, N. International Collaboration for Teacher Professional Development in Malawi, Africa. Paper presented at the Annual Convention of the Association for Educational Communications and Technology (AECT), Dallas, Texas, 10 to 14 October, 2006.

Burton, J., Zozie, P., **Gwayi, S.M.**, Nertha, N., Sanga, M., Lockee, B. and Perkins, R. Adapting an American online ITMA graduate program at Virginia Tech to a print-based distance graduate program in Malawi-Africa. Paper presented at the EERA (Eastern Educational Researchers Association) conference at Hilton Head, South Carolina (SC), USA, 23 February to 1 March, 2003.

FOSTER LUNGU, PhD; MSc; BSc

RESEARCH INTERESTS

- Science teaching and learning difficulties
- Physics teaching methods
- Professional development of physics teachers
- School Science Education in Malawi

Title of PhD Thesis:

Investigating Malawian Physical Science Teachers' Teaching Strategies: A Case Study in Nuclear Physics

Title of Master's Dissertation:

Evaluating the Effectiveness of High School Physical Science In-Service Courses in Katlehong, South Africa

JOURNAL PUBLICATION

Nkhonde, T. A. and **Lungu, F. C.** (2016), "Difficulties associated with the teaching of genetics in Malawian secondary schools: The case of four Biology teachers", *Education and Society in Southern Africa*, Vol 3 No. 3, pp. 25-43.

CONFERENCE PAPERS/PROCEEDINGS

Lungu, F. C. (2017), "Difficulties associated with the development of science, mathematics and computer studies preservice teachers' understanding of pedagogical content knowledge in Malawi", in Nampota, D. and Kazima (Eds.), *Proceedings of the International Conference on Teaching and Learning of Mathematics and Science, Lilongwe, Malawi, 19 – 22 June, 2017*, pp 74-88.

Nkhonde, T. A. and **Lungu, F. C.** (2017) Challenges in the teaching of genetics in Malawian secondary schools: implications for teacher training. In Nampota, D. and Kazima (Eds.), *Proceedings of the International Conference on Teaching and Learning of Mathematics and Science held in Lilongwe, Malawi, 19 – 22 June, 2017*, pp 62-73.

Lungu, F. C., Zietsman-Thomas, A. and Mundalamo, F. J. (2012), "Malawian physical science teachers' instructional strategies in nuclear physics", in Nampota, D. and Kazima, M. (Eds.), *Proceedings of the Annual Conference of the Southern African Association for Research in Mathematics, Science and Technology Education, University of Malawi, Lilongwe*, pp. 332 -346.

Lungu, F. C. Marking and grading: continuous assessment, end of semester examinations, awarding and compiling of marks, and the 101-point scale. Paper presented at the symposium for Mzuzu University academic members of staff held at St. John of God Community Services Conference Centre, Mzuzu, Malawi, 3 to 5 May 2011.

Lungu, F. C., Zietsman-Thomas, A. and Mundalamo, F. J. (2009), “A Malawian secondary school physical science teachers’ strategy for explicating some difficult aspects of nuclear physics”, in Schafer, M. and McNamara, C. (Eds.), *Proceedings of the Annual Meeting of the Southern African Association for Research in Mathematics, Science and Technology Education*, pp. 267-274.

Lungu, F. C., Zietsman-Thomas, A. and Mundalamo, F. J. (2008), “Secondary school physics teacher’s approaches to teaching and learning difficulties associated with radioactivity”, in Mundalamo, F. and Lelliot, A. (Eds.), *Proceedings of the Fourth Biennial Conference of the South African Association of Science and Technology Educators*, pp 29-40.

Lungu, F. C. Investigating Malawian physical science teachers’ teaching strategies: a case study in nuclear physics. Paper presented at the annual conference of the Southern African Association for Research in Mathematics, Science and Technology Education held in Maseru, Lesotho, 14 to 18 January, 2008.

Lungu, F. C. The status of Secondary School Science Education in Malawi: Implications for Science Teacher Training. Paper presented at the National Education Conference organised by the Ministry of Education held at the Malawi Institute of Management in Lilongwe, Malawi, 29 March to 1 April, 2005.

ANGEL NYIRENDA, MSc; BSc

RESEARCH INTERESTS

- Radiation Physics and dosimetry
- Solid State Spectroscopy
- Semiconductor Physics
- Defects in non-metallic solids
- Modeling and Simulations

Title of PhD Thesis (ongoing):

Combined Spectral and Stimulated Luminescence Study of Charge Trapping and Recombination Processes in Single-Crystal Synthetic Corundum

Title of Master's Dissertation:

Mechanisms of Luminescence in α -Al₂O₃:C: Investigations Using Time-Resolved Optical Stimulation and Thermoluminescence Techniques

JOURNAL PUBLICATIONS

Nyirenda, A.N. and Chithambo, M.L. (2017), "The influence of radiation-induced defects on thermoluminescence and optically stimulated luminescence of α -Al₂O₃: C", *Nuclear Instruments and Methods in Physics Research B*, Vol. 397, pp. 92-100.

Nyirenda, A.N. and Chithambo, M.L. and Polymeris, G.S. (2016), "On luminescence stimulated from deep traps using thermally-assisted time-resolved optical stimulation in α -Al₂O₃: C", *Radiation Measurements*, Vol. 90, pp.109-112.

Nyirenda, A.N. and Chithambo, M.L. (2015), "Kinetic analysis of the main glow-peak of α -Al₂O₃:C exposed to high irradiation dose", *Journal of Nuclear Sciences*, Vol.2, pp. 23-30.

Chithambo, M.L., **Nyirenda, A.N.**, Finch, A.A. and Rawat, N.S. (2015), "Time-resolved optically stimulated luminescence and spectral emission features of α -Al₂O₃: C", *Physica B: Condensed Matter*, Vol. 473, pp.62-71.

CONFERENCE PAPER

Nyirenda, A. and Chithambo, M.L. Dependence of the photoionization cross-section of α -Al₂O₃:C on the measurement temperature. Paper presented at the 60th Annual Conference of the SA Institute of Physics hosted by The Nelson Mandela Metropolitan University and Rhodes University in Johannesburg, South Africa, 28 June to 3 July, 2015.

DEPARTMENT OF THEOLOGY AND RELIGIOUS STUDIES

MISSION

To provide high quality education, training, research, consultancies and outreach services in Theology and Religious Studies

RESEARCH ACTIVITIES

Members of staff are actively involved in research, publications and editorial work. Research undertaken by members of staff within the Department of Theology and Religious Studies mainly fall within the areas of New Testament and Early Christianity, Church History, Development and Culture, Church-State relations in Malawi, and gender studies, among others.

RACHEL NYAGONDWE FIEDLER, PhD; MA; B Th; Dip (Agric.); UCE.

RESEARCH INTERESTS

- Gender and Feminist Studies
- Church History

Title of PhD Thesis:

The Circle of Concerned African Women Theologians (1989-2007): History and Theology

Title of Master's Dissertation:

Liberation through Baptist Polity and Doctrine: A Reflection on the Lives of Women in the History of Women in the Baptist Convention of Malawi

BOOK PUBLICATIONS

NyaGondwe-Fiedler, R., Hofmeyr, H. and Fiedler, K. (2016), *African Feminist Hermeneutics of Bible and Culture: An Evangelical Approach*, Mzuzu: Mzuni Press.

NyaGondwe-Fiedler, R. (2006), *Be Careful, AIDS is Real*, Zomba: Lydia Print.

NyaGondwe-Fiedler, R. (2006), *Tichenjere. EdziYirikoNadi*, Zomba: Lydia Print

NyaGondwe-Fiedler, R. (2005), *Chenjerani. Nthenda ya Edzi Ilikodi*, Zomba: Lydia Print.

NyaGondwe-Fiedler, R. (2005), *Women of the Bible and Culture. Baptist Convention Women in Southern Malawi*, Zomba: Kachere.

NyaGondwe-Fiedler, R. (2005), *Coming of Age: A Christianized Initiation among Women of Southern Malawi*, Zomba: Kachere.

BOOK CHAPTERS

NyaGondwe-Fiedler, R. (2005), “‘Pastors’ Wives and Patriarchy: Experiences of Christian Women in Malawi”, in Phiri, I.A. and Nadar, S. (Eds.), *On Being Church. African Women’s Voices and Visions*, Geneva: WCC, pp. 173-183.

NyaGondwe-Fiedler, R. (2005), “Preaching Christ in a Foreign Culture: A Case of Baptist Convention Women in Malawi”, in Schirmacher, T. and Sauer, C. (Eds.), *Mission Verändert – Mission Verändert sich, Nürnberg: Verlag für Religionswissenschaft/Bonn: Verlag für Kultur und Wissenschaft*, pp. 484-488.

NyaGondwe-Fiedler, R. (2002), “Against the Flow: Stories of Women Pastors in Malawi, 1961-2001”, in Phiri, I.A., Govinden, D.B. and Nadar, S. (Eds.), *Her-Stories: Hidden Histories of Women*, Pietermaritzburg: Cluster Publications.

JOURNAL PUBLICATIONS

Lindgren, T., Schell, E., Rankin, S., Phiri, J., **Fiedler, R.** and Chakanza, J. (2013), "A response to Edzi (AIDS): Malawi faith-based organizations' impact on HIV prevention and care", *Journal of the Association of Nurses in AIDS Care*, Vol. 24 No. 3, pp.227-241.

NyaGondwe-Fiedler, R. (2013), "Ringens um Identität: Erfahrungenevangelikaler Frauen mit Initiationsriten für Mädchen in Malawi", *Evangelikale Missiologie*, Vol. No 29, pp. 143-147.

NyaGondwe-Fiedler, R. and Hofmeyr, J.W. (2011), "The Birth and Growth of the Circle of Concerned African Women Theologians in Malawi 1989-2011", *Studia Historiae Ecclesiasticae*, Vol. 37 No. 2, pp.1-9.

NyaGondwe-Fiedler, R. and Hofmeyr, J.W. (2011), "The Conception of the Circle of Concerned African Women Theologians: is it African or Western?" *Acta Theologica*, Vol. 31 No. 1, pp.39-57.

NyaGondwe-Fiedler, R. (2009), "The Challenge of Theological Education for Women in Malawi", *Studia Historiae Ecclesiasticae*, Vol. xxxv, supplement, pp. 119-134.

NyaGondwe-Fiedler, R. (2009), "Conversion in Africa: A Look from the Women's Side", *Journal for Christian Scholarship*, Speciale Uitgave 1, pp. 47-57.

NyaGondwe-Fiedler, R. (2006), "Pastors' Wives and Patriarchy: Experiences of Church Women in Malawi", *Religion in Malawi*, No. 13, pp. 23-27.

NyaGondwe-Fiedler, R. (2003), "The Place of Religion in the Struggle for the Rights of Girl Children: A Case Study of Experiences of Girl Children in Initiation Programmes in the Rural Communities of Southern Malawi", *Religion in Malawi*, No. 10, pp. 37-41.

JONATHAN NKHOMA, MA; BA (Theol.); BA (Biblical Studies)

RESEARCH INTERESTS

- New Testament and Early Christianity
- Gender and Disability Studies
- Missiology
- Malawian Church History
- Theology and Development

BOOK PUBLICATIONS

Nkhoma, J.S. (2013), *Significance of the Dead Sea Scrolls and other Essays, Biblical and Early Christianity Studies from Malawi*, Zomba: Kachere.

Nkhoma, J.S. (2006), *The Use of Fulfilment Quotations in the Gospel according to Matthew*, Mzuzu: Mzuni Press.

BOOK CHAPTER

Nkhoma, J.S. (2016), "Positive Disabled Identity: A Biblical Perspective", in Kabue, S., Amanze, J.N. and Landman, C. (Eds.), *Disability in Africa, Resource Book for Theology and Religious Studies*, Nairobi: Action Publishers, pp. 97-110.

JOURNAL PUBLICATIONS

Nkhoma, J.S. (2015), "'Let the Reader Understand': Mark 13, A Narrative-Critical Study", *Religion and Culture, A Journal of Religious and Cultural Studies*, No. 2, pp. 40-42.

Nkhoma, J.S. (2013), "Discipleship in Matthew: A Redaction-Critical Study", *Religion and Culture: A Journal of Religious and Cultural Studies*, No. 1, pp. 9-12.

Nkhoma, J.S. (2003), "Significance of the Dead Sea Scrolls (Qumran Literature) for the Study of the New Testament: An Overview", *Malawi Journal of Biblical Studies*, No. 1, pp. 49-89.

CONFERENCE PAPERS

Nkhoma, J. S. and Mhango, L. Model for Integrated and Transformative Education in Malawi. Paper presented at the Livingstonia Synod Conference, University of Livingstonia, Grand Palace, Mzuzu, 20th -21st January, 2017.

Nkhoma, J.S. Positive Disabled Identity: A Biblical Perspective. A Paper presented at EDAN/ATISCA Conference, held at Chancellor College, University of Malawi, 20 to 25th July, 2015.

Nkhoma, J.S. Revealed Wisdom and the Broken Christ: A Literary Study of Markan Soteriology. Paper presented at a Public Lecture, Mzuzu University, 17 January, 2012.

Nkhoma, J.S. Wisdom and Apocalyptic Genre Compatibility and the Markan μυστηριον. Paper presented at the Departmental Seminar (Theology and Religious Studies), Mzuzu University, 8 July, 2012.

Nkhoma, J.S. TEEM: Challenges and Opportunities. Paper presented at the Theological Education by Extension in Malawi (TEEM) Conference, 21 May, 2011.

Nkhoma, J.S. New Testament Use of the Old Testament. Paper presented at the Departmental Seminar (Theology and Religious Studies), Mzuzu University, 31 March, 2010.

Nkhoma, J.S. Table Fellowship in Luke. Paper presented at the Advanced New Testament Seminar, Harvard University, 13 January, 2008.

Nkhoma, J.S. Ignatius: Martyrdom or Suicide? A Study in Light of his Letter to the Romans. Paper presented at the Advanced New Testament Seminar, Harvard University, 12 March, 2008.

Nkhoma, J.S. Ritual and Symbolism as a Hermeneutical Approach. Paper presented at the Common Seminar, Harvard University, 27 March, 2008.

Nkhoma, J.S. The Kingdom of God in Current Debate: The Case of Sanders and Crossan. Paper presented at the Advanced New Testament Seminar, Harvard University, 27 May, 2008.

Nkhoma, J.S. Love Your Enemies: A Study of Luke 6:27-35. Paper presented at the Advanced New Testament Seminar, Harvard University, 29 May, 2008.

Nkhoma, J.S. Water as a Revelatory Symbol in John 1-12. Paper presented at the Johannine Christianity Seminar, Harvard University, 10 October, 2008.

Nkhoma, J.S. Acts as History in Ancient Historiography. Paper presented at the Advanced New Testament Seminar, Harvard University, 29 October, 2008.

Nkhoma, J.S. History of the Johannine Community. Paper presented at the Johannine Christianity Seminar, Harvard University, 7 November, 2008.

Nkhoma, J.S. Toward Understanding 'Son of Man' in Mark. Paper presented at the Departmental Seminar (Theology and Religious Studies), Mzuzu University, 24 August, 2007.

Nkhoma, J.S. Nyau Cult in Traditional Chewa Society of Central Malawi. Paper presented at the World Religions Café, Harvard University, 27 November, 2007.

Nkhoma, J.S. Martyrdom of Perpetua: Public Spaces and the Early Christian Martyrs. Paper presented at the Advanced New Testament Seminar, Harvard University, 31 October, 2007.

Nkhoma, J.S. Religion as an Anthropological Category. Paper presented at the Common Seminar, Harvard University, 6 December, 2007.

Nkhoma, J.S. Sonship in Mark: A Literary-Critical Study. Paper presented at the Departmental Seminar (Theology and Religious Studies), Mzuzu University on 7 September, 2006.

Nkhoma, J.S. The Use of Fulfilment Quotations in the Gospel according to Matthew – A Synopsis. Public Lecture paper presented at Mzuzu University on 2 June, 2004.

Nkhoma, J.S. The Use of Fulfilment Quotations in the Gospel according to Matthew. Paper presented at the International Conference on the Bible organized by the Association of Theological Institutions in Southern and Central Africa (ATISCA) held in Zomba, Malawi from 21 to 24 August, 2001.

Nkhoma, J.S. The Use of 'Hallelujah' and the Malawian Context. Paper presented at the Postgraduate Colloquium, University of Malawi, 22 to 25 May, 1997.

RHODIAN MUNYENYEMBE, PhD; MA; BA; Dip. Theol.

RESEARCH INTERESTS

- Socio-cultural influences of the Charismatic Movement on Malawian Christianity
- Church-State relations in Malawi
- Christianity and Education in Malawi
- Traditional Chieftaincy and the Christian Faith in Malawi

Title of PhD Thesis:

A History of the CCAP as a Federative Denomination (1924-2015)

Title of Master's Dissertation:

Christianity and Socio-cultural Issues: An Evaluation of the Charismatic Movement's Contribution towards the Contextualization of the Gospel in Malawi

BOOK PUBLICATIONS

Munyenyebe, R.G. (2012), *Some Effects of Denominational Pluralism on Congregational Discords*, Zomba: Kachere, 2012 (low level publication booklet).

Munyenyebe, R.G. (2011), *Christianity and Socio-Cultural Issues: The Charismatic Movement and Contextualization in Malawi*, Zomba: Kachere/Mzuzu: Mzuni Press.

JOURNAL PUBLICATIONS

Munyenyebe, R.G. (2017), "Revival History as it Affects Malawian Church History, with Special Reference to the CCAP", *Religion in Malawi*, No. 17, pp. 26-55.

Munyenyebe, R.G. (2014), "The Voice of John Chilembwe on some Contemporary Malawian Issues", *Religion & Culture*, No. 2, pp. 42 - 46.

Munyenyebe, R.G. (2007), "Combating HIV/AIDS at Congregational Level: Some Challenges and Suggestions", *Religion in Malawi*, No. 14, pp. 41- 45.

Munyenyebe, R.G. (2005), "African Christian Scholars and the Study of African Traditional Religion (ATR)", *Religion in Malawi*, No. 12, pp. 36-40.

CONFERENCE PAPERS

Munyenyebe, R. The Four Decade Malawian Experience of Hosting Refugees. Paper presented at the 2nd Stott-Bediako Forum on the Refugee Crisis in the World; African Context (INFEMIT), Akropong-Akuapem, Ghana, 28 to 30 June, 2017.

Munyenyebe, R.G. The Bible School Model of Theological Education and Lay Participation in Malawi. Paper presented at the Theological Education by Extension in Malawi (TEEM) Conference under the theme "Towards a Malawian Theology of Laity" held in Zomba, Malawi, on 21 May, 2011.

Munyenyebe, R.G. The Church's Involvement in the Fight against the HIV/AIDS Pandemic: Communication Issues at Congregational Level. Paper presented at the University of Malawi-Centre for Language Studies HIV & AIDS Research Dissemination Conference held at Hippo View Lodge, Liwonde, Malawi, 28 to 31 January, 2008.

Munyenyebe, R.G. An Evaluation of the Role of Traditional Leaders as Stakeholders in the Implementation of the Language in Education Policy. Paper presented at the 7th National Language Symposium held at Sun 'n' Sand Holiday Resort, Mangochi, 12 to 16 November, 2007.

Munyenyebe, R.G. Literacy for Development: The Role of African Languages - Challenges and Prospects. Paper presented at the 6th National Language Symposium held at Sun 'n' Sand Holiday Resort, Mangochi, Malawi, 11 to 13 December, 2006.

CENTRE FOR SECURITY STUDIES

The Centre for Security Studies (CSS) was established in 2007. It offers programmes at certificate, diploma and bachelor's degree levels to personnel mainly employed by the Malawi Defence Forces (MDF), Malawi Police Service (MPS), Immigration Department, and other security organs.

VISION

To be an academic centre of excellence, responsive to addressing knowledge and skills gaps in the defence and security sector in Malawi, the Southern African Development Community (SADC) and beyond.

RESEARCH INTERESTS

Members of staff in the Centre for Security Studies conduct research in the areas of peace and conflict studies, public policy analysis, human security, security and development, and peace studies. Profiles of staff in CSS are presented below.

GEORGE ABEL MHANGO, MA; BA (Pub.)

ORCID ID: 0000-0002-4787-9708

RESEARCH INTERESTS

- Peace and conflict studies
- Public Policy analysis
- Governance and development studies

Title of Master's Dissertation:

The Politics of Decentralized Development Planning in Mulanje and Mwanza Districts

BOOK CHAPTER

Mhango, G.A. (2013), "Contesting the political space of decentralization and development planning in rural Malawi: Insights from project selection in Mulanje and Mwanza districts", in Scott, G.K. and Wallis, M. (Eds.), *Citizen Engagement, Decentralization and Service Delivery in Africa*, Nairobi: Association of African Public Administration and Management (AAPAM), pp. 145-154.

JOURNAL PUBLICATIONS

Mhango, G.A. (2012), "Is quiet diplomacy in consonance with peacemaking in SADC? Lessons from Zimbabwe", *Southern African Peace and Security Studies*, Vol. 1 No. 1, pp. 14-25.

CONFERENCE PAPERS

Mhango, G.A. Conflict prevention, peacebuilding and international security cooperation: Implications for national security priorities in Malawi. Paper presented at the Addressing Contemporary Challenges to Security and Development in Malawi conference held at the Bingu International Conference Centre (BICC), Lilongwe, Malawi, 8 to 9 September, 2015.

Mhango, G.A. Youth, violence and political socialization in southern Africa: Mapping a research agenda. Paper presented at the Youth and Conflict in Africa conference held at the Dag Hammarskjold Institute of Peace and Security, Copperbelt University, Kitwe, Zambia on 8 February, 2014.

Mhango, G.A. Peacebuilding in southern Africa: (Re)framing the agenda. Paper presented at the Peacebuilding in Southern Africa conference held at Chrismar Hotel, Lusaka, Zambia, 21 to 22 September, 2013.

Mhango, G.A. Responding to regional conflicts: How good are SADC's reflexes for peacekeeping? Paper presented at the Peacekeeping and enforcement in Southern Africa conference held Chrismar Hotel, Lusaka, Zambia, 21 to 23 September, 2012.

Mhango, G.A. Security and development in nascent democracies: A critical reflection on Malawi's trajectory. Paper presented at the Security and Development in a Democracy Conference held at Sunbird Capital Hotel, Lilongwe, Malawi, 25 to 26 July, 2012.

EUGENIO NJOLOMA, MSOC; BSOC (Hons); BSOC

ORCID ID: 0000-0002-2241-5835

RESEARCH INTERESTS

- Foreign policy of African States
- Human security
- Security and development
- Governance (Rural and national)

Title of Master's Dissertation:

A Study of Intra-African Relations: An Analysis of the Factors Informing Malawi's Foreign Policy towards Zimbabwe

JOURNAL PUBLICATIONS

Njoloma, E. (2015), "The role of history in Malawi's foreign policy towards Zimbabwe", *The Journal of the Catholic University of Malawi*, Vol. 1 No. 1, pp. 107 - 112.

CONFERENCE PAPER

Njoloma, E. The socio-economic impact of the heavily indebted poor countries initiative on Malawi. Paper presented at the South African Association of Political Studies Regional Colloquium held at Summerstrand Inn, Port Elizabeth, South Africa, 1 to 2 September, 2009.

THEODORA THINDWA, MA; BA

RESEARCH INTERESTS

- Human Security
- Peace Studies
- Security and Development
- Women empowerment
- Debt and poverty in third world countries
- China-Africa Relations

Title of Master's Dissertation:

China-Malawi Relations: An Analysis of Trade Patterns and Development Implications

JOURNAL PUBLICATIONS

Thindwa, T.C. (2015), "China-Malawi relations: an analysis of trade patterns and development implications", *African East-Asian Affairs*, Vol. 7 No. 4, pp. 42-77.

CONFERENCE PAPERS

Thindwa, T. Future contributions of countries in SADC to peace operations and conflict resolution. Paper presented at the New Geopolitics of Peace Operations: A Dialogue with Southern Africa conference held in Maputo, Mozambique, 28 to 29 October, 2015.

Thindwa, T. Parliamentary Committees and their effectiveness in ensuring Horizontal Accountability: A comparative analysis of Public Appointments Committees in Malawi, Ghana, Sierra Leone and Scotland. Paper presented at the Parliamentary Accountability and Local Governance in Malawi: A stock take conference held in Liwonde, Malawi, 4 to 5 March, 2010.

FACULTY OF ENVIRONMENTAL SCIENCES

The Faculty of Environmental Sciences was established in 2001. The Faculty aims at producing high quality graduates in environmental sciences that can spearhead technological knowledge and experience into production; business operations; and investments in the sphere of environment sciences. The Faculty is home to five departments which include Energy Studies, Forestry, Fisheries and Aquatic Sciences, Land Management, and Water Resources Management and Development. The Faculty also houses the Center of Excellence in Water and Sanitation; and the Centre for Environmental Management.

RESEARCH ACTIVITIES

Academic staff within the Faculty of Environmental Sciences carry out interdisciplinary research as well as discipline specific research. Some of the research output emanating from the faculty is in the field of energy systems, environmental management, water and sanitation, property management, disaster risk management, and community development.

DEPARTMENT OF ENERGY STUDIES

The Department of Energy Studies was established in September 2004. The Department offers courses in renewable energy technologies at undergraduate level. It also offers short training courses in the design and installation of renewable energy technologies. Profiles and research interests of staff are listed below.

RESEARCH ACTIVITIES

Members of staff in the Department of Energy Studies are actively involved in research, consultancy and publication activities. The research output of the department is in the areas of bioenergy systems renewable and sustainable energy, diffusion of innovations, and sustainable livelihoods.

MAXON CHITAWO, PhD; MSc; BSc

ORCID id: 0000-0002-0603-9446

RESEARCH INTERESTS

- Bioenergy Systems
- Renewable and Sustainable Energy

Title of PhD Thesis:

Systems approach in developing a model for sustainable production of bioenergy in Malawi

Title of Master's dissertation:

Biomass system design; full chain production for woodchip

JOURNAL PUBLICATIONS

Chitawo, M. L. and Chimphango, A. F. (2017), "A synergetic integration of bioenergy and rice production in rice farms", *Renewable and Sustainable Energy Reviews*, Vol. 75, pp. 58-67.

Zalengera, C., Blanchard, R.E., Eames, P.C., Juma, A.M., **Chitawo, M.L.** and Gondwe, K.T. (2014), "Overview of the Malawi energy situation and A PESTLE analysis for sustainable development of renewable energy", *Renewable and Sustainable Energy Reviews*, Vol. 38, pp.335-347.

CONFERENCE PAPERS

Chitawo, M.L., Chimphango, A.F.A. and Peterson, S.O. Systems approach model for sustainable production of bioenergy from primary forest residues from Viphya plantations in Malawi. Paper presented at the 4th Annual System Dynamics Conference held at Stellenbosch University, South Africa, from 17 to 18 November, 2016.

Chitawo, M.L. and Chimphango, A.F.A. A Systems approach mapping of primary forest residues supply chain for sustainable production of bioenergy in Malawi. Paper presented at the 2nd International Congress and Expo on Biofuels and Bioenergy held in Sao Paulo, Brazil, from 29 to 31 August, 2016.

KONDWANI GONDWE, MEngSc; BSc**RESEARCH INTERESTS**

- Geothermal energy resources
- Energy audit and energy systems modelling
- Energy management systems
- Solar-thermal cooking technologies
- Wind energy

Title of Master's Dissertation:

Performance and economic analysis of the Glucksman Art Gallery geothermal heating and cooling systems

BOOK CHAPTER

Gondwe, K.T. (2015), "Geothermal energy utilization model for Nkhotakota Geothermal Springs in Malawi", in *Geothermal training in Iceland 2015*, UNU-GTP, Iceland, pp. 181-219.

JOURNAL PUBLICATIONS

Zalengera, C., Blanchard, R.E., Eames, P.C., Juma, A.M., Chitawo, M.L. and **Gondwe, K.T.** (2014), "Overview of the Malawi Energy Situation and a PESTLE Analysis for Sustainable Renewable Energy Development", *Renewable and Sustainable Energy Reviews*, Vol. 38, pp. 345-347.

CONFERENCE PAPERS

Gondwe, K.T., Allen, A., Georgsson, L.S., Chakhala, H. and Tsokonombwe, G. Geothermal Development in Malawi – a country update. Paper presented at the World Geothermal Congress held in Melbourne, Australia from 19 – 25 April 2015.

Gondwe, K.T. Geothermal energy utilisation model for Nkhotakota Geothermal Springs in Malawi. Paper presented at the United Nations University Geothermal Training Programme in Reykjavik, Iceland in 2015.

Gondwe, K.T., Allen, A., Burgess, J., Browne, D. and Sikora, P. The Glucksman Art Gallery, University Cork, Ireland: An Innovative Space Heating Development. Paper presented at the World Geothermal Congress held in Bali, Indonesia from 25 to 29 April, 2010.

TIMEYO MKAMANGA MAROYI, MSc; BSc

RESEARCH INTERESTS

- Engineering Design
- Thermal Systems

JOURNAL PUBLICATIONS

Maroyi, T.M., Suriwong, T., Pongtornkulpanich, A., Somkun, S. and Mohammed, Y.G.A. (2016), "Evaluation of Solar Fraction on a Solar Driven Dual Parallel Connected Ejector Cooling System", *Applied Mechanics and Materials*, Vol. 839, pp. 94-99.

Mohammed, Y.G.A., Suriwong, T., Somkun, S. and **Maroyi, T.M.** (2016), "Exergy Analysis of a Solar-driven Dual Parallel-connected Ejector Refrigeration System", *Applied Mechanics and Materials*, Vol. 839, pp 100 – 106.

CONFERENCE PAPERS/ PROCEEDINGS

Maroyi, T.M., Suriwong, T., Pongtornkulpanich, A., Somkun, S. and Mohammed, Y.G.A. Evaluation of solar fraction on a solar driven dual parallel connected ejector cooling system. Paper presented at the International Conference on Energy: World Future Alternatives held at the Naresuan University, Thailand from 30 November to 2 December, 2015.

Mohammed, Y.G.A., Suriwong, T., Somkun, S. and **Maroyi, T.M.** Exergy analysis of a solar-driven dual parallel-connected ejector refrigeration system. Paper presented at the International Conference on Energy: World Future Alternatives held at the Naresuan University, Thailand from 30 November to 2 December, 2015.

COLLEN ZALENGERA, PhD; MSc; BSc**RESEARCH INTERESTS**

- Diffusion of innovations
- Sustainable livelihoods
- Renewable energy development

Title of PhD Thesis:

A Study into the techno-economic feasibility of photovoltaic and wind generated electricity for enhancement of sustainable livelihoods on Likoma Island in Malawi

Title of Master's dissertation:

Role of renewable energy for sustainable livelihood: a case study for developing countries; Malawi in particular

BOOK CHAPTER

Zalengera C., Blanchard R.E., Eames P.C. (2015), "Putting the end-user first: towards addressing contesting values in renewable energy systems deployment for low-income households—a case from Likoma Island, Malawi", in Hostettler, S., Gadgil, A., Hazboun, E. (Eds.), *Sustainable Access to Energy in the Global South*, Heidelberg, Germany: Springer, pp. 101 - 110.

JOURNAL PUBLICATIONS

Zalengera, C., Blanchard, R.E., Eames, P.C., Juma, A.M., Chitawo, M.L. and Gondwe, K.T. (2014), "Overview of the Malawi energy situation and A PESTLE analysis for sustainable development of renewable energy", *Renewable and Sustainable Energy Reviews*, Vol. 38, pp.335-347.

CONFERENCE PAPERS

Zalengera, C., Blanchard R.E., Eames P.C. Investigating the feasibility of solar photovoltaic and wind electricity integration for Likoma Island in Malawi: techno-economic analysis applying the Hybrid Optimization Model for Electric Renewables (HOMER). Paper presented at the World Renewable Energy Congress, Renewable Energy in Service of Mankind held at the University of Kingston, London, 3 to 8 August, 2014.

Zalengera, C., Blanchard R.E. and Eames P.C. Putting the end-user first: Towards addressing the contesting values in renewable energy systems deployment for low-income households: A case of Likoma Island in Malawi. Paper presented at the 2014 UNESCO Tech4Dev International Conference held in Lausanne, Switzerland, 4 to 6 June, 2014.

Zalengera, C., Blanchard R.E. and Eames, P.C. Understanding peoples purchasing power for energy: how important is it for development of renewable energy systems for sustainable livelihoods? The case of Likoma Island. Poster presentation at the 3rd Low Carbon energy development network conference organised by the Wellcome Trust held in London, United Kingdom, 24 to 25 June, 2013.

Zalengera, C. Delivery mechanisms for household-based renewable energy systems: experiences from Zatuba in Malawi. Poster presentation at the 1st Low Carbon Energy Development Network Conference held at Loughborough University, Loughborough, United Kingdom, 4 to 5 April, 2012.

Zalengera, C., Blanchard, R.E., Eames, P.C. Sustainable livelihood approach to renewable energy technology development- experiences from Malawi. Paper presented at the 2012 Tech4Dev, Technologies for Sustainable Development: A Way to Reduce Poverty? Held at EPFL, Lausanne, Switzerland, 29 to 31 May, 2012.

Zalengera, C., Blanchard R.E., Eames, P.C. Leaning the ladder for human socioeconomic development on better walls: sustainability options and opportunities for developing countries. Poster presentation at the 2012 Planet under Pressure Conference: New Knowledge towards Solutions held at the ICC Excel Centre, London, United Kingdom, 26 to 29 March, 2012.

Zalengera, C. (2011). Community energy solutions examples in Malawi: renewable energy as an option for rural electrification. Presentation at the Malawi-Scottish Partnership Energy Conference held at Sunbird Capital Hotel, Malawi, 4 April, 2011.

Leyel, Y., Slukan, V., **Zalengera, C.,** Planner, S. S. Sustainable and energy efficient development for informal settlements in Mozambique. Paper presented at the Young Engineers' Project Conference, 2011 World Engineers' Convention - Engineers Power the world, held in Geneva, Switzerland, 4 to 9 September, 2011.

Zalengera, C. Impact of renewable energy on sustainable livelihood in Malawi. Paper presented at the COMESA/SADC Youth Conference on Climate Change held at Cresta Hotel, Malawi, 17 to 19 November 2010.

Zalengera, C. Sustainable livelihood approach in spearheading science & technology and empowering the youth. Paper presented at the Commonwealth Scholars Science and Technology Network Conference held at Cumberland lodge in London, United Kingdom, 11 to 14 March, 2010.

DEPARTMENT OF FISHERIES AND AQUATIC SCIENCES**MISSION**

To strengthen the fisheries sector by concentrating on capture fisheries in Lake Malawi, other major lakes and rivers by emphasizing hands-on-experience so that its graduands are not only relying on employment but can also set up their own fisheries businesses, with a minor focus on aquaculture.

RESEARCH ACTIVITIES

Members of staff in the Fisheries Department are involved in carrying out research in areas that include bioeconomics, population dynamics and stock assessment, fish processing and quality management, molecular biology, genetics and limnology. Profiles and research interests of staff are listed below.

PETROS CHIGWECHOKHA, PhD; MSc; BSc

RESEARCH INTERESTS

- Molecular biology
- Recombinant technologies
- Fish genetics

Title of PhD Thesis:

Biochemical characterization of Tilapia (Oreochromis niloticus) Sialidases and their significance in Edwardsiella tarda infection

Title of Master's Dissertation:

Parentage analysis and genetic evaluation for growth of oreochromis karongae population in aquaculture in Malawi

JOURNAL PUBLICATIONS

Takumi, S., Shimono, T., Ikema, S., Hotta, Y., **Chigwechokha, P.**, Shiozaki, K., Sugiyama, Y., Hashimoto, M., Furukawa, T. and Komatsu, M. (2017), "Overexpression of carboxylesterase contributes to the attenuation of cyanotoxin microcystin-LR", *Comparative Biochemistry and Physiology - Part C: Toxicology & Pharmacology*, Vol. 194, pp. 22-27.

Ryuzono, S., Takase, R., Kamada, Y., Ikenaga, T., **Chigwechokha, P.**, Komatsu, M. and Shiozaki, K. (2017), "Suppression of Neu1 sialidase delays the absorption of yolk sac in medaka (Oryzias latipes) accompanied with the accumulation of alpha 2-3 sialo-glycoproteins", *Biochimie*, Vol. 135, pp. 63-71.

Shiozaki, K., Yoshikawa, M., Kiguchiya, S., Ikeda, A., Kamada, Y., **Chigwechokha, P.** and Komatsu, M. (2017), "Matrix metalloproteinase-7 inhibitory activity of lipid extract from dwarf gulper shark (Centrophorus atomarginatus) through down-regulation of gene transcription", *Journal of Functional Food*, Vol. 30, pp. 90-96.

Shinyoshi, S., Kamada, Y., Matsusaki, K., **Chigwechokha, P.**, Tepparin, S., Araki, K., Komatsu, M. and Shiozaki, K. (2017), "Naringenin suppresses edwardsiella tarda infection in GAKS cells by NanA sialidase inhibition", *Fish Shellfish Immunology*, Vol. 61, pp. 86-72.

Ryuzono, S., Takase, R., Oishi, K., Ikeda, A., **Chigwechokha, P.**, Funahashi, A., Komatsu, M., Miyagi, T. and Shiozaki, K. (2016), "Lysosomal localization of Japanese medaka (Oryzias latipes) Neu1 sialidase and its highly conserved enzymatic profiles with human", *Gene*, Vol. 575, pp. 513-523.

Yoshinaga, A., Kajiya, M., Oishi, K., Kamada, Y., Ikeda, A., **Chigwechokha, P.**, Kibe, T., Kishida, M., Kishida, S., Komatsu, M. and Shiozaki, K. (2016), "NEU3 inhibitory effect of naringin suppresses cancer cell growth by attenuation of EGFR signaling through GM3 ganglioside accumulation", *European Journal of Pharmacology*, Vol. 782, pp. 21-29.

Shiozaki, K., Harasaki, Y., Fukuda, M., Yoshinaga, A., Ryuzono, S., **Chigwechokha, P.**, Komatsu M. and Miyagi, T. (2016), “Positive regulation of myoblast differentiation by medaka Neu3b sialidase through ganglioside desialylation”, *Biochimie*, Vol. 123, pp. 65-72.

Chigwechokha, P., Tabata, M., Shinyoshi, S., Oishi, K., Araki, K., Komatsu, M., Itakura, T. and Shiozaki, K. (2015), “Recombinant sialidase NanA (rNanA) cleaves alpha 2-3-linked sialic acid of host cell surface N-linked glycoprotein to promote *Edwardsiella tarda* infection”, *Fish and Shellfish Immunology*, Vol. 47 No. pp. 34-45.

Ikeda, A., Ichino, H., Kiguchiya, S., **Chigwechokha, P.**, Komatsu, M. and Shiozaki, K. (2015), “Evaluation and identification of potent angiotensin-I converting enzyme inhibitory peptide derived from dwarf gulper shark (*Centrophorus atromarginatus*)”, *Journal of Food Processing and Preservation*, Vol. 39, pp. 107-115.

Ikema, S., Takumi, S., Maeda, Y., Kurimoto, T., Bohda, S., **Chigwechokha, P.**, Sugiyama, Y., Shiozaki, K., Furukawa, T. and Komatsu M. (2015), “Okadaic acid is taken-up into the cells mediated by human hepatocytes transporter OATP1B3”, *Food and Chemical Toxicology*, Vol. 83, pp. 229-236.

Chigwechokha, P., Komatsu, M., Itakura, T. and Shiozaki, K. (2014), “Nile Tilapia Neu3 sialidases: molecular cloning, functional characterization and expression in *Oreochromis niloticus*”, *Gene*, Vol. 552, pp. 155-64.

Shiozaki, K., Ryuzono, S., Matsushita, N., Ikeda, A., Takeshita, K., **Chigwechokha, P.**, Komatsu, M. and Miyagi, T. (2014), “Molecular cloning and biochemical characterization of medaka (*Oryzias latipes*) lysosomal neu4 sialidase”, *Fish Physiology Biochemistry*, Vol. 40, pp. 1461-1472.

Chigwechokha, P., Maluwa, A.O., Kang'ombe, J.K. and Kassam, D. (2013), “Parentage analysis of mass spawned *Oreochromis Karongae* F1 generation using microsatellite markers”, *Malawi Journal of Aquaculture and Fisheries Sciences*.

Chigwechokha, P., Maluwa A.O., Kang'ombe, J.K. and Kassam, D. (2013), “Parentage analysis of mass spawned *Oreochromis karongae* F1 generation using microsatellite markers”, *Malawi Journal of Aquaculture and Fisheries Sciences*.

ELIAS CHIRWA, MSc; B (Ed)

ORCID ID: orcid.org/0000-0002-2736-5822

RESEARCH INTERESTS

- Fisheries management
- Limnology
- Freshwater biology

Title of PhD Thesis (on going):

Comparative ecological impacts of common carp (Cyprinus carpio Linnaeus, 1758) and the African sharptooth catfish (Clarias gariepinus Burchell, 1822): policy implications for aquaculture development in Malawi

Title of Master's Dissertation

Biodiversity in the coastal zone: morphological characterization of Tilapia guineensis (Bleeker, 1862) populations from Africa (Teleostei: Cichlidae)

JOURNAL PUBLICATIONS

Banda, C., Kapute, F., **Chirwa, E.**, Singini, W., Kondowe, B., Mzengereza, K. and Jere, B. (2017), "Proximate composition of freshly caught tilapia from Chia Lagoon and Lake Malawi", *Malawi Journal of Agriculture, Natural Resources and Development Studies*, Vol. 3 No. 1, pp. 8-11.

CONFERENCE PAPER

Chirwa, E.R., Kassam, D., Jere, W. and Mtethiwa, A. Ecological impacts of common carp (Cyprinus carpio Linnaeus, 1758) and the African sharptooth catfish (clarias gariepinus Burchell, 1822): a comparative review. Paper presented at the Fifth African Higher Education Week and RUFORUM Biennial Conference held at the Century City Conference Centre, Cape Town, Republic of South Africa, 17 to 21 October, 2016.

ROBERT ISRAEL JERE, MSc; BSc; Dip. (Agric.)

RESEARCH INTERESTS

- Aquaculture economics
- Fisheries extension and development

JOURNAL PUBLICATIONS

Banda, C., Kapute, F., Chirwa, E., Singini, W., Kondowe, B., Mzengereza, K. and **Jere, B.** (2017), “Proximate composition of freshly caught tilapia from Chia Lagoon and Lake Malawi”, *Malawi Journal of Agriculture, Natural Resources and Development Studies*, Vol. 3 No. 1, pp. 8-11.

Sanudi, F., **Jere, B.**, Mzengereza, K. and Chirwa, B.B. (2015), “Effect of stocking density and feed on growth of improved (F5) mono-sex oreochromis shiranus reared in tanks”, *Journal of Fisheries and Livestock Production*, Vol. 3 No. 4, pp. 1-5.

FANUEL KAPUTE, PhD; MSc; BSc; Dip.

RESEARCH INTERESTS

- Fish processing
- Quality management

Title of PhD Thesis:

Quality and risk assessment of whole fresh Lake Malawi Chambo (Oreochromis nyasalapia species)

Title of Master's Dissertation:

Comparative reproductive biology, age and growth of Oreochromis (Nyasaland) Karongae (Trewavas) from five ecological zones of Lake Malawi

BOOK PUBLICATIONS

Kapute, F. (2015) *Quality & risk assessment of Whole Fresh Lake Malawi Tilapia (Chambo)*, Saarbrücken, Germany: Lambert Academic Publishing.

Kapute, F. (2011) *Fish quality and processing. Manual for teaching in the Aquaculture and Fisheries Science BSc Programme*, Berlin, Germany: VDM Verlag.

JOURNAL PUBLICATIONS

Mchazime, I. and **Kapute, F.** (2018), "Sensory and nutrient quality of wild captured Oreochromis shiranus (Boulenger, 1897) stored at ambient temperature", *International Food Research Journal*, Vol. 25 No. 1, pp. 127 – 132.

Banda, C., **Kapute, F.**, Chirwa, E., Singini, W., Kondowe, B., Mzengereza, K. and Jere, B. (2017), "Proximate composition of freshly caught tilapia from Chia Lagoon and Lake Malawi", *Malawi Journal of Agriculture, Natural Resources and Development Studies*, Vol. 3 No. 1, pp. 8-11.

Mzuza, M.K., Weiguo, Z., Chapola, L.S., Tembo, M. and **Kapute, F.** (2017), "Determining sources of sediments at Nkula Dam in the middle Shire River, Malawi, using mineral magnetic approach", *Journal of African Earth Sciences*, Vol. 126, pp. 23-32.

Mbamba, D., Mzengereza, K., Singini, W., **Kapute, F.** and Zidana, H. (2016), "Comparison of Spawning Rate between Wild and Improved Strain of Oreochromis shiranus (Boulenger, 1897)", *International Journal of Marine Science*, Vol. 6 No. 31, pp. 1-7.

Sawasawa, W., **Kapute, F.** and Mzengereza, K. (2016), "Role of Women in fish processing at Msaka Beach in Mangochi District, southern Malawi", *International Journal of Marine Science*, Vol. 1.6 No. 18, pp. 1-8.

Mzengereza, K., Singini, W., Msiska, O.V., **Kapute, F.**, Kang'ombe, J. and Kamangira, A. (2016), "Apparent nutrient digestibility of plant-based diets by Tilapia rendalli (Boulenger, 1896)", *Journal of Aquaculture Research and Development*, Vol. 7 1, pp. 396.

Kapute, F. (2016), "Sensory, microbiological, biochemical and physico-chemical assessment of freshness and quality of fresh Lake Malawi Tilapia (*Chambo*) stored in ice", *International Journal of Aquaculture*, Vol. 6 No. 19, pp. 1-10.

Kapute, F., Likongwe, J., Valeta, J., Kang'ombe, J., Nagoli, J., Mbamba, D. and Sikawa, D. (2016), "Growth performance of three tilapia fish species raised at varied pond sizes and water depths", *International Journal of Fisheries and Aquaculture*, Vol. 8 No. 8, pp. 81-86.

Joram, A. and **Kapute, F.** (2016), "Sensory evaluation of wild-captured and pond-raised tilapias in Malawi", *African Journal of Food Science*, Vol. 10 No. 10, pp. 238-242.

Longwe, P. and **Kapute, F.** (2016), "Nutritional composition of smoked and sun-dried pond raised *Oreochromis karongae* (Trewavas, 1941) and *Tilapia rendalli* (Boulenger, 1896)", *American Journal of Food and Nutrition*, Vol. 4 No. 6, pp. 157-160.

Goliat, C., **Kapute, F.** and Valeta, J. (2016), "Effect of prolonged storage in ice on nutrient composition and quality of whole fresh pond raised Tilapia fish (*Oreochromis shiranus*)", *American Journal of Food and Nutrition*, Vol. 4 No. 5, pp. 127-130.

Makwinja, R. and **Kapute, F.** (2016), "Sensory quality analysis of *Tilapia rendalli* (Boulenger, 1896) fed on varied dietary protein levels", *Discourse Journal of Agriculture and Food Sciences*, Vol. 4 No. 1, pp. 1-7.

Msusa N.C.J., **Kapute F.**, Likongwe J.S., Sikawa D.C., and Mtethiwa A.H. (2016), "Effect of sun-drying, smoking and salting on proximate composition of fresh fillets of Mcheni (*Rhamphochromis* species - pisces: cichlidae) from Lake Malawi, Malawi", *International Journal of Aquaculture*, Vol. 6 No. 18, pp. 1-5.

Makwinja, R., **Kapute, F.**, Singini, W. and Zidana, H. (2015), "Effect of dietary protein levels on ammonia concentration and growth of *Tilapia rendalli* (Boulenger, 1896), raised in concrete tanks", *International Journal of Fisheries and Aquaculture*, Vol. 7, pp. 178-184.

Makwinja, R. and **Kapute, F.** (2015), "Bio-economic evaluation of tank raised *Tilapia rendalli* (Boulenger, 1896) fed on varying dietary protein levels", *Net Journal of Agricultural Science*, Vol. 3 No. 3, pp. 62-67.

Makwinja, R., **Kapute, F.**, Singini, W. and Zidana, H. (2015), "Effects of varying dietary protein levels on development of gonads and nutrient reserves of tank raised *Tilapia rendalli* (Boulenger, 1896)", *Journal of Basic and Applied Research International*, Vol. 10 No. 2, pp. 2395-3446.

Mzuza, M.K., Chapola, L., **Kapute, F.**, Chikopa, I. and Gondwe, J. (2015), "Analysis of the impact of aquatic weeds in the Shire River on generation of electricity in Malawi: A case of Nkula Falls Hydro-Electric Power Station in Mwanza District, southern Malawi", *International Journal of Geosciences*, Vol. 6, pp. 636-643.

Zidana H., Phiri, F., **Kapute, F.**, Ajiboye, O. and Singini, W. (2015), “Effect of stocking density and rearing facility on growth and profitability of Tilapia rendalli fry”, *International Journal of Aquaculture*, Vol. 5 No. 22, pp. 1-5.

Mzuza, M.K., Yudong, Y. and **Kapute, F.** (2014), “Analysis of factors causing poor passing rates and high dropout rates among primary school girls in Malawi”, *World Journal of Education*, Vol. 4 No. 1, pp. 48-61.

Mzengereza, K., Msiska, O.V., **Kapute, F.**, Kang’ombe, J., Singini, W. and Kamangira, A. (2014), “Nutritional value of locally available plants with potential for diets of Tilapia rendalli in pond aquaculture in Nkhata Bay, Malawi”, *Journal of Aquatic Research & Development*, Vol. 5 No. 6, pp. 1-6.

Makawa, Z., **Kapute, F.** and Valeta, J. (2014), “Effect of delayed processing on nutrient composition, pH and organoleptic quality of pond raised Tilapia (*Oreochromis shiranus*) stored at ambient temperature”, *African Journal of Food, Agriculture, Nutrition and Development*, Vol. 14 No. 3, pp. 8872-8884.

Makwinja, R., **Kapute, F.** and Kang’ombe, J. (2013), “Effect of different dietary protein levels on growth, carcass composition and shelf life of Tilapia rendalli (Boulenger, 1896)”, *Malawi Journal of Aquaculture and Fisheries*, Vol. 2 No. 1, pp. 32-35.

Nagoli, J., Valeta, J. and **Kapute, F.** (2013), “Analysis of bio-resource utilization in integrated agriculture-aquaculture farming systems in Zomba district, southern Malawi”, *Malawi Journal of Aquaculture and Fisheries*, Vol. 2 No. 1, pp. 15-19.

Haambiya, L., Matiya, G., Msukwa, A., **Kapute, F.** and Sikawa, D. (2013), “Factors that influence effectiveness of local organizations in promoting community participation in artisanal fisheries management in Malawi: a case of Mbenji Island Fishery”, *Malawi Journal of Aquaculture and Fisheries*, Vol. 2 No. 1, pp. 1-7.

Kapute, F., Likongwe, J., Kang’ombe, J. and Kiiyukia, C. (2013), “Shelflife of whole fresh Lake Malawi Tilapia (*Oreochromis* species – *chambo*) stored in ice”, *African Journal of Food, Agriculture, Nutrition and Development*, Vol. 13 No. 1, pp. 7138-7156.

Kapute, F., Likongwe, J., Kang’ombe, J., Kiiyukia, C. and Mpeketula, P. (2012), “Quality assessment of fresh Lake Malawi Tilapia (*Chambo*) Collected from selected local and super markets in Malawi”, *Internet Journal of Food Safety*, Vol. 14, pp. 112-120.

Msekiwa, M. and **Kapute, F.** (2011), “Effect of organic and inorganic fertilizers on the growth of juvenile *Oreochromis shiranus*”, *Malawi Journal of Aquaculture and Fisheries*, Vol. 1 No. 2, pp. 16-20.

Kubiriza, G.K., Madsen, H., Likongwe, J.S., Stauffer Jr. J.R., Kang’ombe, J. and **Kapute, F.** (2010), “Effect of temperature on growth, survival and reproduction of *Bulinus nyassanus* (Smith, 1877) (Mollusca: Gastropoda) from Lake Malawi”, *African Zoology*, Vol. 45 No. 2, pp. 315-320.

Kapute, F., Kaunda, E.K., Banda, M. and Morioka, S. (2008), “Maturity, age and growth of *Oreochromis karongae* (Teleostei: Cichlidae) in lakes Malawi and Malombe, Malawi”, *African Journal of Aquatic Science*, Vol. 33 No. 1, pp. 69–76.

CONFERENCE PAPERS

Kapute, F. Issues of safety and cross border fish trade in Malawi. Paper presented at the World Seafood Congress (WSC) 2015, Up-skilling for a Sustainable Future held in Grimsby, United Kingdom, 5 to 9 September, 2015.

Kapute, F., Likongwe, J.S., Kang’ombe, J., Mfitilodze, B. and Kiiyukia, C. Shelf life of whole Lake Malawi Tilapia (*Chambo*) stored in ice. Paper presented at the Biennial Meeting of the Regional Universities Forum for Capacity Building in Agriculture (RUFORUM) held at the Imperial Beach Hotel, Entebbe, Uganda, 24 to 28 September 2012.

Kapute, F., Likongwe, J.S., Kang’ombe, J., Mfitilodze, B. and Kiiyukia, C. Quality and risk assessment of Chambo in Malawi. Paper presented at the Biennial Meeting of the Regional Universities Forum for Capacity Building in Agriculture (RUFORUM) held at the Imperial Beach Hotel, Entebbe, Uganda, 20 to 24 September 2010.

Kapute, F., Kaunda, E., Banda, M. and Sinshuke, M. Maturity, age and growth of *Oreochromis karongae* (Teleostei: Cichlidae) in lakes Malawi and Malombe, Malawi. Paper presented at the Biennial Meeting of the Regional Universities Forum for Capacity Building in Agriculture (RUFORUM) held at the Imperial Beach Hotel, Entebbe, Uganda, 20 to 24 September, 2010.

Kapute, F. Introduction of new fish species for improved aquaculture production in Malawi: policy implications for fish biodiversity preservation and management. Paper presented at the seventeenth Biennial Conference of the International Institute of Fisheries Economics and Trade, held in Brisbane, Australia, 7 to 11 July 2014.

Kapute, F. The role of the Liwonde National Park in conserving fish species diversity in the Upper Shire River, Malawi. Paper presented at The Great Lakes of the World (GLOW 8) Conference held at the Sun n Sand Hotel, Mangochi, Malawi, 24 to 27 March, 2015.

Kapute, F. Fish kills in Lake Malawi. Paper presented at the great Lakes of the World (GLOW 8) Conference held at the Sun n Sand Hotel, Mangochi, Malawi, 24 to 27 March, 2015.

Kapute, F. and Valeta, J. Status of fish farming in Chingale, Zomba district of southern Malawi. Paper presented at the Agricultural Research and Development (ARDEP) Conference held at Bunda College of Agriculture, Lilongwe, Malawi on 2 November, 2012.

Kapute, F., Nagoli, J. and Valeta, J. Bio-resource utilization among fish farmers in Chingale, Zomba District of southern Malawi. Paper presented at the Agricultural Research and Development (ARDEP) Conference held at Bunda College of Agriculture, Lilongwe, Malawi, 31 December, 2009.

Kapute, F. The re-birth of traditional fisheries management. A case story of the Mbenji Island Community Based Natural Resource Management (CBNRM) on Lake Malawi (MALAWI). Paper presented at the Environment and Sustainability Leadership Workshop held at Howick, Kwazulu Natal, South Africa, 7 to 9 November, 2012.

Kapute, F. and Sikawa D. One-stop information shop for aquaculture and fisheries in Malawi. Paper presented at AFRIAMSLIC Conference held at Riverside Hotel, Lilongwe, Malawi, 10 to 13 September, 2007.

Kapute, F., Valeta, J., Nagoli, J., Likongwe, J., Kang'ombe J., Sikawa, D., Mbamba, D. and Mzanga K. Effect of pond size and water depth on performance of Tilapia in Chingale: The quest for small-scale commercial aquaculture design. Paper presented at the Agricultural Research and Development (ARDEP) Annual Dissemination Seminar held at Capital Hotel, Lilongwe, Malawi, 25 - 27 May, 2011.

Makawa, Z., **Kapute, F.** and Valeta, J. Effect of delayed processing on carcass nutrient composition, pH level and organoleptic taste of *Oreochromis shiranus* (cichlidae). Fisheries and Aquaculture Workshop, Sun 'n' Sand Holiday Resort, Mangochi, Malawi in 2013.

Kang'ombe, J., **Kapute, F.,** and Ntenjera, G. Nutrient analysis of locally available plant-based feed ingredients used by Chingale fish farmers and their potential for fish feed development. Paper presented at the Agricultural Research and Development (ARDEP) Annual Dissemination Seminar held at Capital Hotel, Lilongwe, Malawi, 25 to 27 May, 2011.

Mwadzaangati, G.N., Jere, R.I., **Kapute, F.,** Singini, W., Chirwa, E., Mzengereza, K. and Valeta, J. Factors influencing practice of floating island (chimbowera) fishery on Lake Chilwa, Malawi. Paper presented at the Great Lakes of the World (GLOW 8) Conference held at Sun n Sand Hotel, Mangochi, Malawi, 24 to 27 March, 2015.

Mzengereza K., Msiska O.V., **Kapute F.,** Kang'ombe J., Singini W. and Kamangira A. Nutritional value of locally available plants with potential for diets of Tilapia rendalli in pond aquaculture in Nkhata Bay, Malawi. Paper presented at The Great Lakes of the World (GLOW 8) Conference held at Sun n Sand Hotel, Mangochi, Malawi, 24 to 27 March, 2015.

Makwinja, R., **Kapute., F.,** Kang'ombe, J. and Singini, W. Bio-economic evaluation of tank raised *Tilapia rendalli* (Boulenger, 1896) fed on varying dietary protein levels. Paper presented at the 8th All Africa Conference on Animal Agriculture held in Nairobi, Kenya, 17 to 20 July, 2014.

Singini, W., Msiska, O.V., **Kapute, F.,** Kasulo, V., Kang'ombe, J., Wilson Jere, W., Nyasulu, T., Mzengereza, K. and Kamangira, A. Development of quality and affordable fish feed for small scale fish farmers in Malawi. Paper presented at the Fourth RUFORUM Biennial Regional Conference held in Maputo, Mozambique, 21 to 25 July, 2014.

Kamangira, A., Singini, W., Kasulo, V., Jere, W.L. and **Kapute, F.** Profitability and consumer preference of pond raised fish among fish farmers and consumers in northern Malawi. Paper presented at the Fourth RUFORUM Biennial Regional Conference held in Maputo, Mozambique, 21 to 25 July, 2014.

Mzengereza, K., Singini, W., Msiska, O.V., Kang'ombe, J. and **Kapute, F.** Proximate composition of potential plant feedstuffs for production of *Tilapia rendalli* in northern Malawi. Paper presented at the Fourth RUFORUM Biennial Regional Conference held in Maputo, Mozambique, 21 to 25 July, 2014.

Nalivata, P.C., Uta, J., Wiyo, K. and **Kapute, F.** (2013). UNIID research in Malawi: Patterns of higher education interaction. Paper presented at the Universities, Innovation and Inclusive development (UNIID) in Africa Project Planning Workshop held in Gaborone, Botswana, 29 April to 3 May, 2013.

Nalivata, P.C., Uta, J., Wiyo, K. and **Kapute, F.** UNIID research in Malawi: case studies – selection process. Paper presented at the Universities, Innovation and Inclusive development (UNIID) in Africa Project Planning Workshop held in Gaborone, Botswana, 29 April to 3 May 2013.

Kubiriza G., Likongwe J.S., Madsen H., Stauffer J.R., Kang'ombe J. and **Kapute, F.** Effect of water temperature on survival, growth and reproductive performance of the medically important freshwater snail species of Lake Malawi, *Bulinus nyassanus* (Smith, 1877) (Mollusca: Gastropoda). Paper presented at the bi-annual meetings of the Regional Universities Forum for Capacity Building in Agriculture held in Mangochi, Malawi, 23 to 27 April, 2007.

Ndivaye, E., Kang'ombe, J., Nakhumwa, T., **Kapute F.** and Maguza Tembo F. Growth performance and economic returns of juvenile *Tilapia rendalli* raised in pond cages under different stocking densities: Bunda College Fish Farm, Malawi. Paper presented at the bi-annual meetings of the Regional Universities Forum for Capacity Building in Agriculture held in Mangochi, Malawi, 23 to 27 April, 2007.

KUMBUKANI MZENGEREZA, MSc; BSc.

RESEARCH INTERESTS

- Aquaculture
- Aquatic animal nutrition
- Livestock and aquaculture feed technology

Title of PhD Thesis (on going):

Potential of using spirulina algae as replacement of fishmeal in aquaculture fish feeds

Title of Master's Dissertation:

Nutritional evaluation of plant ingredients for diets of Tilapia rendalli in Nkhatabay, Malawi

JOURNAL PUBLICATIONS

Banda, C., Kapute, F., Chirwa, E., Singini, W., Kondowe, B., **Mzengereza, K.** and Jere, B. (2017), "Proximate composition of freshly caught tilapia from Chia Lagoon and Lake Malawi", *Malawi Journal of Agriculture, Natural Resources and Development Studies*, Vol. 3 No. 1, pp. 8-11.

Zaindi, I., Singini, W. and **Mzengereza, K.** (2016), "Forecasting copadichromis (Utaka) production for Lake Malawi, Nkhatabay Fishery: A Stochastic Model Approach", *Journal of Fisheries & Livestock Production*, Vol. 4 No. 1, pp.1-5.

Mzengereza, K. and Kang'ombe, J. (2016), "Effect of dietary salt (Sodium Chloride) supplementation on growth, survival and feed utilization of Oreochromis shiranus (Trewavas, 1941)", *Journal of Aquaculture Research and Development*, Vol. 7 No. 1, pp. 1-5.

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Singini, W., Msiska, O.V., Kapute, F., Kasulo, V., Kang’ombe, J., Wilson Jere, W., Nyasulu, T., **Mzengereza, K.** and Kamangira, A. Development of quality and affordable fish feed for small scale fish farmers in Malawi. Paper presented at the Fourth RUFORUM Biennial Conference held at the Eduardo Mondlane University, Maputo, Mozambique, 21 to 25 July, 2014.

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WALES SINGINI, PhD; MSc; BSc.

RESEARCH INTERESTS

- Fisheries management (Bioeconomic and Stock Assessment)
- Research methods
- Biostatistics,
- Project management

Title of PhD Thesis:

Bioeconomic analysis of Chambo and Kambuzi fish stocks of Lake Malombe

Title of Master's Dissertation:

Age, growth and reproductive biology of lethrionops gossei in the South-East Arm of Lake Malawi

BOOK CHAPTERS

Jere, W., **Singini, W.**, Mtethiwa, A. and Gumulira, A. (2015), "Effects of rainfall on catches of major food fishes of Mangochi fishery in Malawi", in Edris (Ed.), *Community sustainability development in Malawi, concepts, theories and practice*, Lilongwe: Lilongwe University of Science and Technology, pp. 255-267.

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Singini, W., Kaunda, E., Kasulo, V. and Jere, W. (2013), "Modelling and forecasting *Oreochromis species* (Chambo) Production in Malawi – A stochastic model approach", *Recent Research in Science and Technology*, Vol. 5 No. 3, pp 1-6.

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CONFERENCE PAPERS

Jones, H.E., **Singini, W.**, Holm, R. H. and White, S. CLTS Plus - making CLTS ever more inclusive. Paper presented at 39th WEDC International Conference held in Kumasi, Ghana, 10 to 14 August, 2016.

Holm R., Gwayi, S., **Singini, W.**, Wanda, E., and Kasulo, V. Looking ahead for sanitation initiatives: Community Led Total Sanitation versus Sanitation Marketing in Malawi. Paper presented at the National Water Conference, Water and Sustainable Development organised by Water Services Association of Malawi (WASAMA) held at the Grand Palace Hotel, Mzuzu, 20 to 21 March, 2015.

Holm, R., Brian, A., **Singini, W.**, Phiri, A., Gwayi, S. and Zimba, C. What does standard CLTS look like? Rumph District, Malawi. Paper presented at the 16th Waternet/WARFSA/GWP-SA Symposium held at the University of Mauritius, 28 to 30 October, 2015.

Mwadzaangati, G.N., Jere, R.I., Kapute, F., **Singini, W.**, Chirwa, E., Mzengereza, K. and Valeta, J. Factors influencing practice of floating island (Chimbowera) fishery on Lake Chilwa, Malawi. Paper

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Kamangira, A., **Singini, W.**, Kasulo, V., Jere, W.L. and Kapute, F. Profitability and consumer preference of pond raised fish among fish farmers and consumers in northern Malawi. Paper presented at the Fourth RUFORUM Biennial Conference held at the Eduardo Mondlane University, Maputo, Mozambique, 21 to 25 July, 2014.

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Makwinja. R., Kapute. F., Kang'ombe, J. and **Singini, W.** Bio-economic evaluation of tank raised Tilapia rendalli (Boulenger, 1896) fed on varying dietary protein levels. Paper presented at the 8th All Africa Conference on Animal Agriculture held in Nairobi, Kenya, 17 to 20 July, 2014.

Sawasawa, W., **Singini, W.**, Kapute, F. and Mzengereza, K. Role of women in fish processing along Lake Malawi fishery. Paper presented at the 8th Great Lakes of the World (GLOW) International Conference: Advancing the Ecosystem Health Approach: Good Governance for Adaptation and Rehabilitation Conference held at the Sun N' Sand Holiday Resort, Mangochi, Malawi, 24 to 26 March, 2014.

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Singini, W., Kaunda, E., Kasulo, V. and Jere, W. Bioeconomic approach to rebuilding Oreochromis species of Lake Malombe, Malaŵi. Paper presented at the African Crop Science Society Conference Organised by Makerere University, College of Agricultural and Environmental Sciences, School of Agricultural Sciences, Entebbe, Uganda, 14 to 17 October, 2013.

DEPARTMENT OF FORESTRY**MISSION**

The mission of the Forestry Department is to ensure the application of sound technical and scientific knowledge to forestry development in Malawi through research, teaching and dissemination of knowledge and provision of expert services.

RESEARCH ACTIVITIES

Research activities of academic staff within the Forestry Department falls within the area of forest governance and community forestry, forest ecology and management, non-timber forest products, policy and cross-sectoral issues, biodiversity and conservation, and tree improvement.

DOMINIC GONDWE, MSc; BSc.

RESEARCH INTERESTS

- Seed science
- Silviculture
- Environmental conservation

BOOK PUBLICATIONS

Gondwe, D. and Chanyenga, T.F. (2006), *Germination Response and Adansonia Digitata L. Seed to Five Pre-Sowing Treatments*, Zomba: Forestry Research Institute of Malawi.

Gondwe, D. (2003), *Desiccation and Storability of Syzygium Cordatum (Hochst) Seed*, Zomba: Forestry Research Institute of Malawi.

Gondwe, D. (2000), *Results of the optimum storage conditions and duration for Khaya anthotheca (Welw.) c. dc. seed experiment*, Zomba: Forestry Research Institute of Malawi.

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Gondwe, D.S.B., Berjak, P., Pammenter, N.W. and Varghese, B. (2016), “Effect of priming with cathodic water and subsequent storage on invigoration of Pisum sativum, Cucurbita maxima and Lycopersicon esculentum seeds”, *Seed Science and Technology*, Vol. 44 No. 2, pp. 370-381.

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Munthali, C.R.Y., **Gondwe, D.**, Njera, D. and Chinjati, N. Seed Pretreatment to improve germination of Brachystegia Boehmii seed. Paper presented at the Annual Research Conference, Held at Capital Hotel, Lilongwe, 11 to 13 March 2008.

VICTOR KASULO, PhD; MA; BSoc

ORCID ID: 0000-0003-4534-2162

RESEARCH INTERESTS

- Environmental and ecosystems management
- Bioeconomic management of natural resources
- Resource valuation and accounting
- Biodiversity conservation and management
- Mitigation and adaptation to climate change

Title of PhD Thesis:

Bio-economic management of aquatic ecosystems for the conservation and sustainable utilisation of biodiversity

Title of Master's Dissertation:

Determinants of manufactured exports in Malawi

BOOK CHAPTERS

Kasulo, V. (2000), "The loss of biodiversity in aquatic ecosystems: the case of demersal and gillnet fisheries in Malawi", in Perrings, C. (Ed.), *The Economics of Biodiversity Conservation in Sub-Saharan Africa*, Cheltenham: Edward Elgar, pp. 79-114.

Kasulo, V. (2000), "The impact of invasive species in African lakes", in Perrings, C., Williamson, M. and Dalmazzone, S. (Eds.), *The economics of biological invasions*, Edward Elgar: Cheltenham, pp. 183 - 207.

JOURNAL PUBLICATIONS

Kachaje, O., **Kasulo, V.** and Chavula, G. (2016), "Detection of precipitation and temperature trend patterns for Mulanje District, southern part of Malawi", *Journal of Climatology and Weather Forecasting*, Vol. 4 No. 3, pp. 187.

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Holm, R., Tembo, M., Njera, D., **Kasulo, V.**, Malota, M., Chipeta, W., Singini, W. and Mchenga, J., (2016), "Adopters and non-adopters of low-cost household latrines: a study of corbelled pit latrines in 15 Districts of Malawi", *Sustainability*, Vol 8 No. 917, pp 1-8.

Holm, R., **Kasulo, V.**, Wanda, E. (2015), “Why financial lending institutions are not willing to provide services to the private sector for rural sanitation and hygiene (Malawi)”, *Sustainable Sanitation Practice*, Vol. 24, pp. 8-15.

Holm, R., **Kasulo, V.** and Wanda, E. (2014), “Identification of funding mechanisms for private sector participation in the provision of rural household sanitation facilities in Nkhata Bay District (Malawi)”, *Sustainable Sanitation Practice*, Vol. 20, pp. 27-31.

Holm, R., Wanda, E., **Kasulo, V.** and Gwayi, S. (2014), “Identification of the potential opportunities, barriers, and threats within the sector in taking up sanitation as a business: rural sanitation in Nkhata Bay District (Malawi)”, *Waterlines*, Vol. 33 No. 3, pp. 269-274.

Singini, W., Kaunda, E., **Kasulo, V.** and Jere, W. (2013), “Logit analysis of socio-economic factors influencing intertemporal preference of fisheries resource users of Lake Malombe in Malawi”, *Journal of Applied Social Sciences*, Vol. 3, pp. 120 – 126.

Singini, W., Kaunda, E., **Kasulo, V.** and Jere, W. (2013), “Modelling and forecasting Oreochromis species (Chambo) Production in Malawi – A stochastic model approach”, *Recent Research in Science and Technology*, Vol. 5 No. 3, pp 1-6.

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JOEL LUHANGA, MSc; BSc.

RESEARCH INTERESTS

- Forest economics
- Environmental conservation
- Environmental impact assessment

BOOK PUBLICATIONS

Luhanga J. (2009), "The timber trade in Malawi", in *Resource Insight no. 7.*, Johannesburg: Southern Africa Resource Watch.

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Coote H.C., Lowore, J.D., **Luhanga, J.M.** and Abbot, P.G. (1993), "Community use and management of indigenous forests in Malawi: the case of three villages in the Blantyre City Fuelwood Project Area", Zomba, Malawi: Forestry Research Institute of Malawi.

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BENNET MATAYA, MSc; BSc.

RESEARCH INTERESTS

- Forest mensuration and inventory
- Forest management and planning
- Climate change science

Title of PhD Thesis (on going):

Effectiveness of forest co-management practices in realising REDD+ outcomes

BOOK PUBLICATIONS

Mataya, B.A.F. (2015), "*A Roadmap for developing Malawi's national forest monitoring system*", Lilongwe: UN-REDD/FAO/UNEP/UNDP.

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Kambewa, P., **Mataya, B.F.**, Sichinga, W.K. and Johnson, T. (2007), "*Charcoal: the reality. A study of charcoal consumption, trade and production in Malawi*", London: International Institute for Environment and Development.

Mataya, B.A.F. (2003), "*Action planning for district forestry office staff: forestry extension Handbook*", Lilongwe: Department of Forestry, Government of Malawi.

Mataya, B.A.F. (2002), "*Incorporating forestry in environmental education: environmental education training manual*", Lilongwe: Department of Environmental Affairs.

JARRET MHANGO, MSc; BSc; Dip. (Agric),

RESEARCH INTERESTS

- Domestication of neglected Indigenous fruit trees and vegetables
- Biochemistry
- Biology and apiculture

Title of PhD Thesis (on going):

Ecology of strychnos cocculoides for its sustainable conservation and domestication in Malawi

Title of Master's Dissertation:

Effect of daylength temperature on flowering and leaf production of brassica juncea

JOURNAL PUBLICATIONS

Mng'omba, S. A., Akinnifesi, F.K., Mkonda A., **Mhango J.**, Chilanga T., Weldesemayat, S.G. and Ajayi, C. (2014), "Ethnoecological knowledge for identifying elite phenotypes of the indigenous fruit tree, uapacakirkiana in the miombowoodlands of Southern Africa", *Agroecology and Sustainable Food Systems*, Vol. 39 No. 4, pp. 399-415.

Mng'omba, S. A., Sileshi, G. W., Jamnadass, R., Akinnifesi, F. K. and **Mhango, J.** (2012), "Scion and stock diameter size effect on growth and fruit production of clerocaryabirrea(marula) trees", *Journal of Horticulture and Forestry*, Vol. 4 No. 9, pp. 153-160.

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Mhango, J. L., Munthali, C. R. and Tumeo, T. (2009), "Organoleptic attributes and yield of products from parinari curatellifolia, strychnos cocculoides, mangifera indica, uapaca kirkiana and vitex doniana in Malawi", *Acta Horticulturae*, Vol. 2, pp. 513-518.

Akinnifesi, F. K., Mng'omba, S. A., Sileshi, G., Chilanga, T. G., **Mhango J.**, Ajayi, O. C., Chakeredza, S., Nyoka, B. I. and Gondwe, F. M. T. (2009), "Propagule type affects growth and fruiting of uapacakirkiana, a priority indigenous fruit tree of southern Africa", *Hort. Science*, Vol. 44 No. 6, pp. 1662-1667.

Akinnifesi, F.K., Mng'omba, S.A., Sileshi, G., Ajayi, O.C. and **Mhango, J.** (2009), "First and second-generation research efforts on commoditising indigenous fruit tree crops in southern Africa", *Acta Horticulturae*, Vol. 2, pp. 637-646.

Mhango, J., Akinnifesi, F.K., Mng'omba, S.A. and Sileshi, G. (2008), "Effect of growing medium on early growth and survival of uapacakirkiana Müell Arg. seedlings in Malawi", *African Journal of Biotechnology*, Vol. 7 No. 13, pp. 2197-2202.

Akinnifesi, F. K., **Mhango, J.**, Sileshi, G. and Chilanga, T. (2008), "Early growth and survival of three miombo woodland indigenous fruit tree species under fertilizer, manure and dry-season irrigation in southern Malawi", *Forest Ecology and Management*, Vol. 255 No. 3-4, pp. 546-557.

Saka, J., Rapp, I., Akinnifesi, F., Ndolo, V. and **Mhango, J.** (2007), "Physicochemical and organoleptic characteristics of uapacakirkiana, strychnoscocculoides, adansoniadigitata and mangiferiaindica fruit products (2007)", *International Journal of Food Science and Technology*, Vol. 42 No. 7, pp. 836-841.

Akinnifesi, F.K., Kwesiga, F., **Mhango, J.**, Chilanga, T., Mkonda, A., Kadu, C.A.C., Kadzere, I., Mithofer, D., Saka, J.D.K., Sileshi, G., Dhliwayo, P. and Swai, R. (2006), "Towards developing the miombo indigenous fruit trees as commercial tree crops in Southern Africa", *Forests, Trees and Livelihoods*, Vol. 16, pp. 103-121.

Kadzere, I., Watkins, C.B., Merwin, I.A., Akinnifesi, F.K., Saka, J.D.K. and **Mhango, J.** (2006), "Harvesting and postharvest handling practices and characteristics of uapaca kirkiana (Muell. Arg.) fruits: a survey of roadside markets in Malawi", *Agroforestry Systems*, Vol. 68, pp. 133-142.

Kadzere, I., Watkins, C.B., Merwin, I.A., Akinnifesi, F.K., Saka, J.D.K. and **Mhango, J.** (2006), "Fruit variability and relationships between color at harvest and quality during storage of uapacakirkiana (Muell. Arg.) fruit from natural woodlands", *Horticulture Science*, Vol. 41 No. 2, pp. 352-356.

Mhango, J. and Akinnifesi, F.K. (2001), "The horticultural potential of Masuku (uapacakirkiana) and its propagation by air layering", *Horticulture in Malawi*, Vol 3 No. 3, pp. 16-18.

CONFERENCE PAPERS/PROCEEDINGS

Gondwe, D., Njera, D., Mwabumba, L. and **Mhango, J.** Seed desiccation tolerance of an underutilized indigenous fruit tree species using farmer friendly techniques: the case of *Myrianthusholstii* Engl. Paper presented at IUFRO-FORNESSA Regional Congress & ITTO/AFF Forest Policy Day held in Nairobi, Kenya, 25 to 30 June, 2012.

Akinnifesi, F.K., Kwesiga, F. R., **Mhango, J.**, Mkonda, A., Chilanga, T. and Swai, R. (2004) Domesticating priority miombo indigenous fruit trees as a promising livelihood option for small-holder farmers in Southern Africa. In XXVI International Horticultural Congress: Citrus and Other Subtropical and Tropical Fruit Crops: Issues, Advances and 632 (pp. 15-30).

Schomburg, A., **Mhango, J.** and Akinnifesi, F.K. Marketing of Masuku (*Uapacakirkiana*) and Masawo (*Ziziphus mauritiana*) Fruits and their potential for processing by rural communities in Southern Malawi. Paper presented at the 14th ICRAF Southern Africa Regional Review and Planning Workshop held in Harare Zimbabwe from 1 to 7 September, 2001.

Mhango, J. and Akinnifesi, F.K. On-farm assessment, farmer management and their perceptions of priority indigenous fruit trees in southern Malawi. Paper presented at the 14th ICRAF Southern Africa Regional Review and Planning Workshop held in Harare, Zimbabwe, 1 to 7 September, 2001.

Mhango, J., Akinnifesi, F.K. and Chilanga, T. Vegetative propagation of Uapacakirkiana (Masuku) in Malawi. Paper presented at the first International Workshop on Fruit and Tree crops, production in small farming systems for poverty reduction, food security & income generation: future solutions in Eastern and Southern Africa held in Mangochi, Malawi, 10 to 15 December, 2000.

CHIMULEKE MUNTHALI, PhD; MSc; BSc; Dip.

RESEARCH INTERESTS

- Domestication of neglected indigenous fruit trees and vegetables
- Medicinal plants
- Tree improvement
- Plant biodiversity

Title of PhD Thesis:

*Use, physiology and genetic characterisation of selected natural populations of *adansonia digitata* in Malawi*

Title of Master's Dissertation

*Seed and seedling variation of *pterocarpus Angolensis* DC from selected natural populations of Malawi*

JOURNAL PUBLICATIONS

Gebauer, J., Adam, Y. O., Cuni' Sanchez, A., Darr, D., Munee, E. S. E., Fadl, K. E. M., Fernsebner, G., Frei, M., Habte, T., Hammer, K., Hunsche, M., Johnson, H., Kordofani, M., Krawinkel, M., Kugler, F., Luedeling, E., Mahmoud, T. E., Maina, A., Mithofer, D., **Munthali, C.R. Y.**, Noga, G., North, R., Owino, W. O., Prinz, K., Rimberia, F.K., Saied, A., Schüring, M., Sennhenn, A., Späth, M., ATaha, M. E. N., Triebel, A., Wichern, F., Wiehle, M., Wrage-Mönnig, N., Kehlenbeck, K. (2016), "Africa's wooden elephant: the baobab tree (*Adansonia digitata* L.) in Sudan and Kenya: a review", *Genetic Resources and Crop Evolution*, Vol. 63 No. 3, pp. 377-399.

Msukwa, V., **Munthali, C.R.Y.**, Missanjo, E., Chilima, C.Z., Mng'omba, S.A., Sagona, W. and Mkwezalamba, I. (2016), "Growth performance and fruit production of *Sclerocarya birrea* (A. Rich.) Hochst. Provenances in Malawi", *International Journal of Scientific Research in Agricultural Sciences*, Vol. 3 No. 2, pp. 42-49.

Guta, D., **Munthali, C. R.**, Kamanula, J. F., Missanjo, E., and Jenya, H. (2016), "Socio-economic importance, abundance and phytochemistry of *Jateorhiza palmata* (Lam.) Miers a Medicinal Plant in Nsanje, Malawi", *International Journal of Scientific Research in Agricultural Sciences*, Vol. 3 No. 3, pp. 73-83.

Jenya, H., **Munthali, C. R.**, Missanjo, E., Chirwa, M. F. and Sagona, W. (2016), "Variations in phenology and morphology of *Uapaca kirkiana* Müll. Arg. Provenances at Nauko in Liwonde Forest Reserve, Malawi", *Journal of Scientific Research & Reports*, Vol. 10 No. 3, pp. 1-13.

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Noah, T., **Munthali, C.R.Y.** and Missanjo, E. (2015), "Shoot development of *pterocarpus angolensis* DC plantlets as influenced by propagation time, length and diameter of cuttings", *Journal of Basic and Applied Research International*, Vol. 2 No. 4, pp. 167-173.

Mtambalika, K., **Munthali, C.**, Gondwe, D. and Missanjo, E. (2014), "Effect of seed size of *Afzelia quanzensis* on germination and seedling growth", *International Journal of Forestry Research*, Vol. 14, pp. 1-5.

Munthali, C.R.Y., Chirwa, P.W., Changadeya, W.J. and Akinnifesi, F.K. (2013), "Genetic differentiation and diversity of *Adansonia digitata* L (baobab) in Malawi using microsatellite markers", *Agroforestry systems*, Vol. 87 No. 1, pp.117-130.

Munthali, C.R.Y., Chirwa, P.W. and Akinnifesi, F.K. (2012), "Genetic variation among and within provenances of *Adansonia digitata* L.(Baobab) in seed germination and seedling growth from selected natural populations in Malawi", *Agroforestry systems*, Vol. 86 No. 3, pp. 419-431.

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Kasulo, V., Mwabumba, L. and **Munthali, C.R.Y.** (2009), "A review of edible orchids in Malawi", *Journal of Horticulture and Forestry*, Vol. 1 No. 7, pp. 133-139.

Mhango, J.L., **Munthali, C.R.** and Tumeo, T. (2009), "Organoleptic attributes and yield of products from *Parinari curatellifolia*, *Strychnos cocculoides*, *Mangifera indica*, *Uapaca kirkiana* and *Vitex doniana* in Malawi", *Acta Horticulturae*, Vol. 2, pp.513-518.

Mwitwa, J.P., **Munthali, C.R.Y.** and Van Wyk, G. (2007), "Half-sib family variation in shoot and root traits of seedlings of *Pterocarpus angolensis* (family: Fabaceae; syn. Papilionaceae)", *Southern Hemisphere Forestry Journal*, Vol. 69 No. 2, pp.91-94.

Mwitwa, J.P., **Munthali, C.R.Y.** and Van Wyk, G. (2008), "Heritability of shoot die-back and root biomass in sixteen *pterocarpus angolensis* (Fabaceae) half-sib families from Malawi, Namibia and Zambia", *Southern Forests: A Journal of Forest Science*, Vol. 70 No. 3, pp. 221-226.

CONFERENCE PAPERS

Mahmoud, F, E, A., Yahia, O, A., **Munthali, C.**, Dietrich, D, E., Mukhtar, M, E., Jens, G., Tsige-Yohannes, H., Henry, J., Katja, K., Michael, B. K., Tarig, E. M., Anthony, M., Nyori, J. M., Dahmar, M., Kavoi, M. M., Rabea, N., Willis, O.O., Fredah, K. R., El Amin, S., Martin, S., Muneer, E. S., Mohamed, E.T. and Andreas, T. Promoting the use of Baobab (*Adansonia digitata* L.) in rural communities in Eastern Africa. Paper presented at the International Research on Food Security, Natural Resource Management and Rural Development organised by the Czech University of Life Sciences Prague held in Tropentag, Progue, Czech Republic, 17 to 19 September, 2014.

Munthali, C.R.Y., Gondwe, D, Njera, D and Chinjati, N. Seed Pretreatment to improve germination of *Brachystegia Boehmii* seed. Paper presented at the 2008 Annual Research Conference, Held at Capital Hotel, Lilongwe, 11 to 13 March, 2008.

LUSAYO MWABUMBA, MSc; BSc. (Hons); BSc

RESEARCH INTERESTS

- Environmental forestry
- Natural resource management
- Biodiversity conservation and management

BOOK PUBLICATIONS

Masangano, E.M., Kayambazinthu, D. and **Mwabumba, L.** (2003), “Conflicts over the Miombo woodlands: the cases of Blantyre, Lilongwe and Kasungu in Malawi”, in Kowero, G., Campbell, B.M. and Sumaila, U.R. (Eds.), *Policies and governance structures in woodlands of southern Africa*, Bogor: CIFOR.

Masangano, C. M., Kayambazinthu, D. and **Mwabumba, L.** (1999), “*Management of miombo woodlands: The case of Malawi. A review on institutional arrangements governing the management of miombo woodlands*”, Zomba, Malawi: Forest Research Institute of Malawi.

Mwabumba, L., Masangano, C. M. and Kayambazinthu, D. (1999), “*Communal management and utilisation of miombo woodlands in Malawi: results of a participatory rural appraisal in Blantyre, Lilongwe and Kasungu districts*”, Zomba, Malawi: Forest Research Institute of Malawi.

JOURNAL PUBLICATIONS

Kamangadazi, F., **Mwabumba, L.**, Missanjo, E. and Phiri, F. (2016), “Selective harvesting impact on natural regeneration, tree species richness and diversity in forest co-management block in Liwonde Forest Reserve, Malawi”, *International Journal of Scientific Research in Environmental Sciences*, Vol. 4 No. 2, pp. 47-54.

Kamangadazi, F., **Mwabumba, L.** and Missanjo, E. (2016), “The potential of selective harvesting in mitigating biomass and carbon loss in forest co-management block in Liwonde Forest Reserve, Malawi”, *Scholars Academic Journal of Biosciences*, Vol. 4 No. 9, pp. 716-721.

Chingaipe, B., **Mwabumba, L.**, Missanjo, E and Senganimalunje, T. (2015), “Effectiveness of local institutions in sustainable management of forests in selected communities in Dedza, Malawi”, *Journal of Basic and Applied Research International*, Vol. 12 No. 3, pp. 181-189.

Kasulo, V., **Mwabumba, L.** and Munthali, C.R.Y. (2009), “A review of edible orchids in Malawi”, *Journal of Horticulture and Forestry*, Vol. 1 No. 7, pp. 133-139.

Chirwa, P.W., Bwanali, R.J., Meke, G., Sagona, W., Munthali, C.R.Y. and **Mwabumba, L.** (2007) “Growth and phenology of a three-to four-year-old *Sclerocarya birrea* international provenance trial in Malawi”, *Southern Hemisphere Forestry Journal*, Vol. 69 No. 1, pp.49-54.

Chapola, G.B.J., **Mwabumba, L.** and Kuyama, O.T.B.S. (1995), “Effects of initial spacing and thinning on yield and basic density of *Eucalyptus tereticornis* at Liwonde, southern Malawi”, *Journal of Tropical Forest Science*”, Vol. 8 No. 1, pp. 1-14.

Ngulube, M.R. and **Mwabumba, L.** (1995), "Evaluation of *Gliricidia sepium* provenances for agroforestry in Malawi", *International Tree Crops Journal*, Vol. 8 No. 1, pp.1-11.

Ngulube, M.R., Chapola, G.B.J. and **Mwabumba, L.** (1993), "The potential of Australian dry zone acacias for agroforestry in Malawi", *Forest Ecology and Management*, Vol. 56, pp. 83-97.

CONFERENCE PAPERS

Abdullah, H., Chawinga, W.D. and **Mwabumba, L.** Diffusion of information/knowledge for growing forest herbs amongst traditional healers: a case of traditional healers at Ekwendeni, Malawi. Paper presented at the Digital Transformation and the Changing role of Libraries and Information Centres in the Sustainable Development of Africa Conference organised by the Standing Conference of Eastern Central and Southern African Libraries Association (SCECSAL) held in Swaziland, 25 to 30 April, 2016.

Gondwe, D., Njera, D., **Mwabumba, L.** and Mhango, J. Seed desiccation tolerance of an underutilized indigenous fruit tree species using farmer friendly techniques: the case of *Myrianthusholstii* Engl. Paper presented at the Forests and Trees: Serving the People of Africa and the World. IUFRO-FORNESSA Regional Congress & ITTOAFF Forestry Policy Day held in Nairobi Kenya, 25 to 29 June, 2012.

Mponela, P. and **Mwabumba, L.** Performance of 8-year-old provenance cum families of *Uapaca kirkiana* Muell, Arg (Wild loquat) at Nauko, Machinga, Malawi. Paper presented at ANAFE symposium on Tertiary Agricultural Education held in Lilongwe, Malawi in July, 2008.

Mwabumba, L. Vision and mandate of professional education in forestry: Mzuzu University philosophy and experiences. Paper presented at the first national forestry symposium held at Mzuzu University, Malawi, 30 August to 1 September, 2004.

Mwabumba, L. and Ngulube, M. Research, science and technology for sustainable forest management. Paper presented at the DANCED-DANIDA Workshop on Sustainable Forest Management in Southern Africa held in Windhoek, Namibia, 14 to 16 August, 2001.

Kayambazinthu, D., **Mwabumba, L.** and Masangano, C. Institutional change and factors driving change in the miombo region: case studies in Malawi. A paper presented at the Workshop on Policies Governance and Harvesting Miombo Woodlands held at Arusha International Conference Centre, Tanzania, 7 to 14 October, 2000.

Mwabumba, L., Chirwa, P.W., Lowore, J.D. and Munthali, C.R.Y. Coppice and natural regeneration in some miombo woodlands of Malawi. Paper presented at the National Workshop on Community-based Management of Miombo Woodlands in Malawi organised by the Forestry Research Institute of Malawi at the Sun n Sand Holiday Resort, Mangochi, Malawi, 27 to 29 September, 1999.

Mwabumba, L. Guidelines for community-based management of forestry resources: the case of Chimaliro and Machinga. Paper presented at the National Workshop on Community-based management of Miombo Woodlands in Malawi organised by the Forestry Research Institute of Malawi at the Sun n Sand Holiday Resort, Mangochi, Malawi, 27 to 29 September, 1999.

Ngulube, M.R., **Mwabumba, L.** and Chirwa, P. Community-based management of Miombo Woodlands in Malawi. Paper presented at the National Workshop on Community-based management of Miombo Woodlands in Malawi organised by the Forestry Research Institute of Malawi at the Sun n Sand Holiday Resort, Mangochi, Malawi, 27 to 29 September, 1999.

Mwabumba, L. and Sitaubi, L.A. Seed pretreatment, growth and phenology of some indigenous fruit trees of the miombo ecozone at Naungu Forest Reserve, Malawi. Paper presented at the Improvement of Indigenous Fruit Trees of the Miombo Woodlands of Southern Africa Conference held in Mangochi, Malawi, 23 to 27 January, 1994.

ELISHA STEPHEN NGULUBE, MSc, BSc

ORCID ID: 0000-0001-5394-6690

RESEARCH INTERESTS

- Forest machine – soil interactions
- Timber harvesting productivity and cost analyses
- Natural resources modelling

Title of Master's Dissertation:

Prediction of timber harvesting productivity for semi-mechanised systems in Viphyia forest plantations, Malawi.

JOURNAL PUBLICATIONS

Moloi, T., Brink, M., Chirwa, P. W. and **Ngulube, E.** (2017), "A productivity model for first thinning of *Pinus patula* using a tractor and double-drum winch in South Africa", *Southern Forests: A Journal of Forest Science*, pp. 1-5.

Ngulube, E., Brink, M. and Chirwa, P. W. (2014), "Productivity and cost analysis of semi-mechanised and mechanised systems on the Viphyia forest plantations in Malawi", *Southern Forests: A Journal of Forest Science*, Vol. 76 No. 4, pp. 195-200.

CONFERENCE PAPERS/PROCEEDINGS

Ngulube, E., Brink, M. and Chirwa, P.W. Productivity analysis of a grapple skidder system on the Viphyia forest plantations in Malawi. Paper presented at the 5th Forest Science Symposium held at Hilton College, Pietermaritzburg, South Africa, 24 to 25 July, 2012.

DALO NJERA, MSc; BSc.

RESEARCH INTEREST

- Community based natural resources management
- Social forestry
- Participatory action research

Title of PhD Thesis (ongoing):

Assessing the capacity of farmer organisations in promoting fish farming in Mchinji and Dowa districts in Central Malawi

Title of Master's Dissertation:

Analysis of local institutions on community participation in community participation in forest management: a case of Social Forestry Project in Kanyama Extension Planning Area in Dedza District

BOOK CHAPTER

Njera, D. (2013), "Local communities' efforts to combat deforestation: Sendwe Village Forest Area in Lilongwe, Malawi", in Breen, C. (Ed.), *Community-Based Natural Resource Management in Southern Africa*, Bloomimhton: Center for African Studies, University of Florida.

JOURNAL PUBLICATIONS

Njera, D., Chonde, C., Kambewa, D., Dzanja, J. and Kayambazinthu, D. (2017), "Examining the significance of gender, marital status, landholding size and age of members on capacity of local level fish farmer organisations", *International Journal of Natural Resource Ecology and Management*, Vol. 2, No. 5, pp. 64-72.

Njera, D. and Kafakoma, R. (2017), "Significance and strengthening private sector engagement in the management of public protected areas: experiences from Malawi", *International Journal of Natural Resource Ecology and Management*, Vol. 2, No. 3, pp. 47-52.

Njera, D., Chonde, C., Kambewa, D., Dzanja, J., Kayambazinthu, D. and Kaunda, E. (2017), "Institutional environment affecting capacity of fish farmer organisations in Dowa and Mchinji districts in Central Malawi", *Journal of Agricultural Economics, Extension and Rural Development*, Vol. 5 No. 4, pp. 612-619.

Njera, D., Chonde, C., Kambewa, D., Dzanja J. and Kayambazinthu D. (2016), "What influences capacity of fish farmer organizations? Experiences of CARP fish farmer organizations in Dowa and Mchinji districts in Central Malawi", *Modern Agricultural Science and Technology*, Vol. 2 No. 1, pp. 45-54.

Njera, D., Chonde, C., Kambewa, D., Dzanja, J., Kayambazinthu, D., Kaunda, E., Moyo, L., Matsimbe, M., German, C. and Msandu, P. (2016), "Member-specific characteristics affecting capacity of farmer organisations in promoting fish farming: case of Dowa and Mchinji districts in Malawi", *International Journal of Research in Agriculture and Forestry*, Vol. 3 No. No. 11, pp 6-12.

Njera, D., Chonde, C., Kambewa, D., Dzanja, J., Kayambazinthu, D., Kaunda, E., Moyo, L., Matsimbe, M., German, C. and Msandu, P. (2016), “Implications of the challenges affecting capacity of fish farmer organisations in Dowa and Mchinji districts in Malawi”, *International Journal of Research in Business Studies and Management*, Vol. 3 No. 9, pp. 14-19.

Njera, D., Msiska, V. and Mumba, R. (2016), “Why does policy implementation for community based natural resources management remain a challenge in Malawi and what strategies can improve the situation?” *International Journal of Research in Applied, Natural and Social Sciences*, Vol. 4 No. 9, pp 155-166.

Njera, D., Chonde, C., Kambewa, D., Kaunda, E. and Kayambazinthu, D. (2016), “Local community perspective about challenges affecting farmer organizations: case of selected socioeconomic characteristics of members in fish farmer organizations in Central Malawi”, *International Journal of Research in Agriculture and Forestry*, Vol. 3 No. 12, pp 1-11.

Kanthiti, M. and **Njera, D.** (2016), “What factors influence community participation in afforestation activities? Case of Nathenje Area in Lilongwe District in Malawi”, *International Journal of Research in Agriculture and Forestry*, Vol. 3 No. 12, pp 22-28.

Holm, R., Tembo, M., **Njera, D.**, Kasulo, V., Malota, M., Chipeta, W., Singini, W. and Mchenga, J. (2016), “Adopters and non-adopters of low-cost household latrines: a study of corbelled pit latrines in 15 districts of Malawi”, *Sustainability*, Vol. 8, pp 1-8.

CONFERENCE PAPERS/PROCEEDINGS

Gondwe, D., **Njera, D.**, Mwabumba L. and Mhango J. Seed desiccation tolerance of an underutilised indigenous fruit tree species using farmer friendly techniques: the case of *Myrianthusholstiengl*. Paper presented at IUFRO-FORNESSA Regional Congress & ITTO/AFF Forest Policy Day held in Nairobi, Kenya, 25 to 30 June, 2012.

Munthali, C.R.Y., Gondwe, D., **Njera, D.** and Chinjati, N. Seed Pretreatment to improve germination of *Brachystegia Boehmii* seed. Paper presented at the 2008 Annual Research Conference, held at Capital Hotel, Lilongwe, 11 to 13 March, 2008.

DEPARTMENT OF LAND MANAGEMENT**VISION**

Sustainable land use and management for all.

MISSION

To contribute to global efforts to achieve development that meets the needs of the present without compromising the ability of future generations to meet their own needs through training human resources at undergraduate, masters and PhD degree levels, and undertake research to generate new knowledge that will contribute to resolving problems facing the government, private sector and civil societies dealing with land development and real estates.

RESEARCH ACTIVITIES

Academic staff in the Department of Land Management undertake research in the following areas: Regional and urban planning policy and development control; Property market analysis; Geographical Information System (GIS) and its application in decision-making; Construction supervision; Land tenure studies; Property investments, financing and development advice; and Property market analysis. Profiles of academic staff within the department are listed below:

AMOS KALUA, MSc; BSc

RESEARCH INTERESTS

- Building practices in developing countries
- Building advocacy

JOURNAL PUBLICATIONS

Kalua, A. (2016), “Envelope thermal design optimization for urban residential buildings in Malawi”, *Buildings*, Vol. 6 No. 13, pp. 1-32.

Kalua, A. (2015), “Economic sustainability of green building practices in least developed countries”, *Journal of Civil Engineering and Construction Technology*, Vol. 6 No. 5, pp. 71-79.

CONFERENCE PAPERS

Kalua, A., Zhan, C. and Chang, C. A review of green building advocacy for least developed countries. Paper presented at the CIB W107 International conference held in Lagos, Nigeria, 28 to 30 January, 2014.

Kalua, A. Adaptation of building roof pitches for sustainability in urban poor communities in Malawi: The case of Mzuzu City. Paper presented at the National Symposium on Climate Change & the Environment held in Lilongwe, Malawi in October, 2011.

MTAFU ZELEZA MANDA, MSc; PgD (Housing); PgD (Pop); BSc

RESEARCH INTERESTS

- Urban informality
- Disaster risk management
- Urban food security
- Local governance
- Urban health including WASH

Title of PhD Thesis (ongoing):

Understanding the context of informality: urban planning under contradictory land tenure systems in Mzuzu, Malawi

BOOK PUBLICATIONS

Manda, M. (2016), “Growth centres as a strategy for rural development”, in *discussions on local economic development in Malawi: compendium of Studies*, Lilongwe: LDFTT

Manda, M., Nkhoma, S. and Mitlin, D. (2011), “*Understanding pro-poor housing finance in Malawi*”, London: International Institute for Environment and Development (IIED).

Manda, M. (2009), “*Water and sanitation in urban Malawi: can the Millennium Development Goals be met? A study of informal settlements in three cities*”, London: International Institute for Environment and Development (IIED).

BOOK CHAPTERS

Manda, M. (2015), “Malawi Chapter”, in *international manual of planning practice*, The Hague, The Netherlands: ISOCARP.

Manda, M. (2014), “Bicycle taxis in Mzuzu City: a business venture misunderstood”, in Duminy, J. et al (Eds.), *Planning and the case study method in Africa*, Basingstoke: Palgrave MacMillan, pp. 102-128.

JOURNAL PUBLICATIONS

Kushe, J., **Manda, M.**, Mdala, H. and Wanda, E. (2017), “The earthquake/seismic risk, vulnerability and capacity profile for Karonga town”, *African Journal of Environmental Science and Technology*, Vol. 11 No. 1, pp.19-32.

Manda, M. and Wanda, E. (2017), “Understanding the nature and scale of risks in Karonga, Malawi”, *Environment and Urbanization*, Vol. 29 No. 1, pp.15-32.

Manda, M. and Matidza, I. (2016), “Tracer study of Mzuzu University Land Management Students, 2010-2015”, *Education and Society in Southern Africa*, Vol. 3 No 3, pp.45-67.

Blair, N. and **Manda, M.** (2016), “A partnership-based model for embedding employability in urban planning education”, *Urban, Planning and Transport Research*, Vol. 4 No. 1, pp.46-63.

Adelekan, I., Johnson, C., **Manda, M.**, Matyas, D., Mberu, B., Parnell, S., Pelling, M., Satterthwaite, D. and Vivekananda, J. (2015), “Disaster risk and its reduction: an agenda for urban Africa”, *International Development Planning Review*, Vol. 37 No. 1, pp.33-43.

Manda, M. (2014), “Where there is no local government: addressing disaster risk reduction in a small town: case of Karonga in Malawi”, *Environment & Urbanization*, Vol. 26 No. 2, pp. 1-14.

Manda, M (2013), “Reflections on planning education in Malawi”, *Education and Society in Southern Africa*, Vol. 1 No.1, pp 58-74.

MAVUTO TEMBO, PhD; MSc, BSc**RESEARCH INTERESTS**

- Effects of climate change
- Geographical information systems

Title of PhD Thesis:

A dynamic assessment of adaptive capacity to climate change: a case study of water management in Makondo, Uganda

BOOK CHAPTERS

Tembo, M., Alistair, F. and Sengendo, H. (2015), “How a participatory geographic information system provides voice to demand services from government: A village case study”, in Fagan, H., Linnane, S., McGuigan, K.G. and Rugumayo, A.I. (Eds.), *Water is life: Progress to secure safe water provision in rural Uganda*, Warwickshire, UK: Practical Action Publishing.

Tembo, M. (2015), “Understanding adaptive capacity on the ground: a case of agro-pastoralists in Makondo Parish, Uganda”, in Munck, R., Asingwire, N., Fagan, H. and Kabonesa, C. (Eds.), *Water and Development: Good Governance after Neoliberalism*, London: Zed Books.

JOURNAL PUBLICATIONS

Mzuza, M.K., Weiguo, Z., Chapola, L.S., **Tembo, M.** and Kapute, F. (2017), “Determining sources of sediments at Nkula Dam in the Middle Shire River, Malawi, using mineral magnetic approach”, *Journal of African Earth Sciences*, Vol. 126, pp.23-32.

Holm, R., **Tembo, M.**, Njera, D., Kasulo, V., Malota, M., Chipeta, W., Singini, W. and Mchenga, J., (2016), “Adopters and non-adopters of low-cost household latrines: a study of corbelled pit latrines in 15 districts of Malawi”, *Sustainability*, Vol 8 No. 917, pp 1-8.

Holm, R., Mwangende, J., **Tembo, M.** and Singini, W. (2016), “Bacteriological quality of fresh produce and link to water and sanitation service access from informal markets in Mzuzu, Malawi”, *Environment, Development and Sustainability*, Vol. 18 No. 5, pp. 1-10.

Chidya, R.C.G., Holm, R.H., **Tembo, M.**, Cole, B., Workneh, P. and Kanyama, J. (2016), “Testing methods for new pit latrine designs in rural and peri-urban areas of Malawi where conventional testing is difficult to employ”, *Environmental Science: Water Research & Technology*, Vol. 2 No. 4, pp.726-732.

Murphy, C., **Tembo, M.**, Phiri, A., Yerokun, O. and Grummell, B. (2016), “Adapting to climate change in shifting landscapes of belief”, *Climatic Change*, Vol. 134 No. 1-2, pp.101-114.

Tembo, M. and Chikondi, B. (2015), “Forecasting climate change pattern for Bolero Agriculture Extension Planning Area in Malawi”, *Journal of Climatology & Weather Forecasting*, Vol. 3 No. 3, pp.1-5.

Cassells, G., Woodhouse, I.H., Patenaude, G. and **Tembo, M.** (2011), “Academic and research capacity development in Earth observation for environmental management”, *Environmental Research Letters*, Vol. 6 No. 4, pp. 1-8.

CONFERENCE PAPER

Cassells, G.F., Woodhouse, I.H., Mitchard, E.A. and **Tembo, M.D.** (2009), The use of ALOS PALSAR for supporting sustainable forest use in southern Africa: a case study in Malawi. In Geoscience and Remote Sensing Symposium, 2009 IEEE International, IGARSS 2009 (Vol. 2, pp. II-206). IEEE.

DEPARTMENT OF WATER RESOURCES MANAGEMENT AND DEVELOPMENT

The Department of Water Resources Management and Development was established in 2006. It offers courses in sanitation and water resources management and development at undergraduate and postgraduate levels. The Department has partnered with both public and private sector players such as Northern Region Water Board, Department of Irrigation and Water Resources (in the Ministry of Water Development), World Vision, Water for People, Pump Aid, and Water Aid in the implementation of various strategies that lead to the enhancement of water quality and sanitation.

RESEARCH ACTIVITIES

The Department's research activities are in the field of water and sanitation, water supply, environmental protection, irrigation, water resources planning, water harvesting and agricultural water management. Listed below are the profiles and research publications by members of staff in the department.

RUSSEL C.G. CHIDYA, MSc; BSc

RESEARCH INTERESTS

- Water, Sanitation and Hygiene (WASH);
- Environmental chemistry;
- Environmental dynamics and management;
- Waste Management and Treatment;
- Integrated Water Resources Management (IWRM);
- Water and Soil Quality Assessment and Contamination.

Title of PhD Thesis (ongoing):

Modelling, dynamics and spatio-temporal assessment of pesticide residues and heavy metals in environmental samples from Seto Inland Sea and Kurose River, Japan. (PhD Pending 2018: Hiroshima University, JAPAN)

Title of Master's Dissertation

Assessment of Water Quality in Likangala River and its Catchment Area in Zomba, Malawi. (MSc in Applied Chemistry Thesis: University of Malawi, Chancellor College, MALAWI)

BOOK CHAPTER

Ngongondo, C., Sajidu, S.M., **Chidya, R.C.** and Mulwafu, W.O. (2017), "Promotion of Integrated Water Resources Management Practices in the Context of Climate Change and Variability in Malawi a Case Study of Lake Chilwa Basin", in Kowenje, C., Paré, S, and Asfaw, B., (Eds.), *Proceedings of an Expert Workshop on Water Security held at Mekelle, Ethiopia, from 15-20 May 2017*, Göttingen: Cuvillier Verlag.

JOURNAL PUBLICATIONS

Chiposa, R., Holm, R.H., Munthali, C., **Chidya, R.C.** and Francis, L. (2017), "Characterization of pit latrines to support the design and selection of emptying tools in peri-urban Mzuzu, Malawi", *Journal of Water Sanitation and Hygiene for Development*, Vol. 7 No. 1, pp.151-155.

Chidya, R.C.G., Holm, R.H., Tembo, M., Cole, B., Workneh, P. and Kanyama, J. (2016), "Testing methods for new pit latrine designs in rural and peri-urban areas of Malawi where conventional testing is difficult to employ", *Environmental Science: Water Research & Technology*, Vol. 2 No. 4, pp.726-732.

Chidya, R.C., Mulwafu, W.O. and Banda, S.C. (2016), "Water supply dynamics and quality of alternative water sources in low-income areas of Lilongwe City, Malawi", *Physics and Chemistry of the Earth, Parts A/B/C*, Vol. 93, pp.63-75.

Chidya, R.C., Matamula, S., Nakoma, O. and Chawinga, C.B. (2016), "Evaluation of groundwater quality in rural-areas of northern Malawi: Case of Zombwe Extension Planning Area in Mzimba", *Physics and Chemistry of the Earth, Parts A/B/C*, Vol. 93, pp.55-62.

Mkwate, R.C., **Chidya, R.C.** and Wanda, E.M. (2016), "Assessment of drinking water quality and rural household water treatment in Balaka District, Malawi", *Physics and Chemistry of the Earth, Parts A/B/C*.

Manda, I.K., **Chidya, R.C.**, Saka, J.D. and Biswick, T.T. (2016), "Comparative assessment of water treatment using polymeric and inorganic coagulants", *Physics and Chemistry of the Earth, Parts A/B/C*, Vol. 93, pp.119-129.

Chidya, R.C.G., Sajidu, S.M.I., Mwatseteza, J.F. and Masamba, W.R.L. (2011), "Evaluation and assessment of water quality in Likangala River and its catchment area", *Physics and Chemistry of the Earth, Parts A/B/C*, Vol. 36 No. 14, pp.865-871.

Kaonga, C.C., Kosamu, I.B., Lakudzala, D.D., Mbewe, R., Thole, B., Monjerezi, M., **Chidya, R.C.G.**, Kuyeli, S. and Sajidu, S.M.I. (2017), "A review of heavy metals in soil and aquatic systems of urban and semi-urban areas in Malawi with comparisons to other selected countries", *African Journal of Environmental Science and Technology*, Vol. 11 No. 9, pp. 448-460.

Kaonga, C.C., **Chidya, R.C.G.**, Kosamu, I.B.M., Abdel-dayem, S.M., Mapoma, H.W.T., Thole, B., Mbewe, R. and Sakugawa, H. (2017), "Trends in usage of selected fungicides in Japan between 1962 and 2014: a review", *International Journal of Environmental Science and Technology*, pp.1-14.

Jadoon, W.A., Khpalwak, W., **Chidya, R.C.G.**, Abdel-Dayem, S.M.M.A., Takeda, K., Makhdoom, M.A. and Sakugawa, H. (2018), "Evaluation of Levels, Sources and Health Hazards of Road-Dust Associated Toxic Metals in Jalalabad and Kabul Cities, Afghanistan", *Archives of environmental contamination and toxicology*, Vol. 74 No. 1, pp.32-45.

CONFERENCE PAPERS

Abdel-dayem, S.M., **Chidya, R.C.G.**, Kaonga, C.C., Takeda, K. and Sakugawa, H. Determination of pesticide residues in natural waters using sensitive and selective validated SPE-HPLC-UV Vis method. Paper presented at International Conference on Applied Agricultural Sciences and Prospective Technology (ICASPT) Luxor-Egypt from 23-26 February, 2018.

Chidya, R.C.G., Abdel-dayem, S.M., Takeda, K. and Sakugawa, H. Spatial Studies and Risk Assessment of Selected Pesticide Residues in Marine Samples from the Seto Inland Sea, Japan. Paper presented at the 2018 Ocean Sciences Meeting (OMS) at Oregon Convention Center in Portland City, Oregon State (USA) from 11 to 16th February, 2018.

Chidya, R.C.G., Biswick, T.T., Abdel-dayem, S.M., Takeda, K. and Sakugawa, H. Simultaneous analysis of pesticides in marine samples from Seto Inland Sea, Japan. Paper presented at the Oceanographic Society of Japan Annual Meeting, Sendai International Center, Sendai City – JAPAN from 13-15th October, 2017.

Abdel-dayem, S.M., **Chidya, R.C.G.**, Takeda, K. and Sakugawa, H. Distribution and spatial studies on selected pesticide residues in marine samples from Seto Inland Sea, Japan. Paper presented at the Chemical Society of Japan Annual Meeting held at Keio University, Yokohama Prefecture – Japan from 15-19 March, 2017.

Chidya, R.C.G., Abdel-dayem, S.M., Takeda, K. and Sakugawa, H. Method validation and evaluation of selected pesticide residues (Diazinon, Fenarimol, Cyanazine, Isoprothiolane, Simetryn) in water samples from Kurose River, Japan. Paper presented at the Geochemical Society of Japan Annual Conference held at Osaka City University from 14-16 September, 2016.

Chidya, R.C.G. and Mwepetha, G.B. Impact of Climate Change and Climate Variability on Water Resources in Forest Reserve Catchment Areas of Dzalanyama, Lilongwe. Paper presented at the Waternet/WARFSA/GWP-SA International Symposium held at the GICC, Gaborone, Botswana from 26- 28th October, 2016.

Kaonga, C.C., Kosamu, I.B.M., Lakudzala, D.D., Mbewe, R., Thole, B., Monjerezi, M., **Chidya, R.C.G.**, Kuyeli, S. and Sajidu, S.M.I. Heavy Metals in Soil and Aquatic Systems of Urban and Semi-Urban Areas in Malawi. Paper presented at the Waternet/WARFSA/GWP-SA International Symposium held at the GICC, Gaborone, Botswana from 26- 28th October, 2016.

Mkwate, R.C., **Chidya, R.C.G.** and Wanda, E.M.M. Assessment of Drinking Water Quality and Rural Household Water Treatment in Balaka District, Malawi. Paper presented at the 16th Annual WaterNet/WARFSA/GWP-SA International Symposium held in Mauritius from 28 – 30th October, 2015.

Nangazi, M.J., **Chidya, R.C.G.** and Ngongondo, C. Impacts of Climate Change and Climate Variability on Water Resources in Rural Areas of Mangochi, Malawi. Paper presented at the 16th Annual WaterNet/WARFSA/GWP-SA International Symposium held in Mauritius from 28 – 30th October, 2015.

Kanzunguze, A., **Chidya, R.C.G.**, Chawinga, C. and Nakoma, O. Latent Impact Assessment of Pteridium Aquilinum Invasion on Soil and Water Resources in Mzuzu, Malawi. Paper presented at the 16th Annual WaterNet/WARFSA/GWP-SA International Symposium held in Mauritius from 28 – 30th October, 2015.

Chidya, R.C.G. and Manda, I.K.M. Impact Analysis of Mining Activities in Malawi - Recipe for Development Versus Water Resources Management: Case of Kayerekra Uranium, Mchenga and Eland Coal Mines. Paper presented at the World Water Day -WASAMA National Water Conference held at the Grand Palace Hotel in Mzuzu, Malawi from 20 – 21st March, 2015.

Kanzunguze, A., **Chidya, R.C.G.**, Chawinga, C. and Nakoma, O. Latent Impact Assessment of Pteridium Aquilinum Invasion on Soil and Water Resources in Mzuzu, MALAWI. Paper presented at the World Water Day -WASAMA National Water Conference held at the Grand Palace Hotel in Mzuzu, Malawi from 20 – 21st March, 2015.

Manda, I.K.M., **Chidya, R.C.G.**, Saka, J.D.K. and Biswick, T.T. Comparative assessment of water treatment using polymeric and inorganic coagulants. Paper presented at the World Water Day - WASAMA National Water Conference held at the Grand Palace Hotel in Mzuzu, Malawi from 20 – 21st March, 2015.

Chitawo, C.E., **Chidya, R.C.G.** and Fandika, I.R. Assessment of Water Quality and Soil Salinity Levels in Public Irrigation Schemes: A Case of Nanzolo, Chikwawa, Malawi. Paper presented at the World Water Day -WASAMA National Water Conference held at the Grand Palace Hotel in Mzuzu, Malawi from 20 – 21st March, 2015.

Nakoma, O., **Chidya, R.C.G.**, Matamula, S., and Chawinga, C.B.J. Evaluation of groundwater quality in rural-areas of northern Malawi: Case of Zombwe Extension Planning Area in Mzimba. Paper presented at the International 15th WaterNet/WARFSA/GWP-SA Symposium held in Lilongwe, Malawi from 29th – 31st October, 2014.

Mulwafu, W.O., Ngongondo, C., Sajidu, S.M.I, and **Chidya, R.C.G.** Promotion of Integrated Water resources management practices in response to Climate Change. Paper presented at the Agro-ecosystems Services (AgESS)– Linking Science to Action in Malawi and the region conference held at Ufulu Gardens Hotel & Conference Centre in Lilongwe, Malawi from 6-7 March, 2014.

Chidya, R.C.G., Mulwafu, W.O. and Banda, C.T.S. Water supply dynamics and quality of alternative water sources in low-income areas of Lilongwe City, Malawi. Paper presented at the International 15th WaterNet/WARFSA/GWP-SA Symposium held in Lilongwe, Malawi from 29th – 31st October, 2014.

Chidya, R.C.G., Wapulumuka, M.O., Mulwafu, W.O. and Sjidu, S.M.I. Examining the potential of using spring waters for domestic and irrigation farming activities: Case study of Liwonde, Malawi. Paper presented at the International 13th WaterNet/WARFSA/GWP-SA Symposium held in Johannesburg, South Africa from 30 October – 2 November, 2012.

Chidya, R.C.G. Exploring the effects of waste management practices on the environment and climate change in Zomba. Paper presented at the National Research Dissemination Conference organised by the National Commission for Science and Technology (NCST) held at the Crossroads Hotel, Lilongwe, Malawi from 18th- 20th April, 2012.

Chidya, R.C.G. Examining the role of Science Fairs in Mathematics, Science and Technology Education in Malawi: Lesson from the past and the present. Paper presented at the Southern African Association for Research in Mathematics, Science and Technology Education (SAARMSTE) conference held in Lilongwe, Malawi from 16 - 19th January, 2012.

Chidya, R.C.G. Assessing the impact of availability of laboratory materials on Physical Science Education in Malawi: Case study of South East Education Division. Paper presented at the Southern African Association for Research in Mathematics, Science and Technology Education (SAARMSTE) conference held in Lilongwe, Malawi from 16 - 19th January, 2012.

Maseko, B.E. and **Chidya, R.C.G.** Evaluation of difficult topics in Secondary Physical Science Syllabus of Malawi: Case Study of South East and South West Education Division. Paper presented at the Southern African Association for Research in Mathematics, Science and Technology Education (SAARMSTE) conference held in Lilongwe, Malawi from 16 - 19th January, 2012.

Chidya, R.C.G., Sajidu, S.M.I., Mwatseteza, J.F. and Masamba, W.R.L. Assessment of Surface water Quality in Likangala River: Implications for Irrigation Farming. Paper presented at the National Water Conference organised by the Water Services Association of Malawi (WASAMA) and IWA held at Nkopola Lodge, Mangochi, Malawi from 20 – 23rd March, 2012.

Chidya, R.C.G., Sajidu, S.M.I., Mwatseteza, J.F. and Masamba, W.R.L. Physico-Chemical Characteristics of Surface Water Sources of Likangala River. Paper presented at the International 12th WaterNet WARFSA GWP-SA Symposium held in Maputo, Mozambique from 26 – 28 October, 2011.

Chidya, R.C.G. Effects of waste management practices on climate change: Case of Likangala River catchment area, Zomba. Paper presented at the National Climate Change Symposium held in Lilongwe, Malawi from 19th – 21st October, 2011.

Chidya, R.C.G., Sajidu, S.M.I., Mwatseteza, J.F. and Masamba, W.R.L. Surface water Quality of Likangala River: Implications for Irrigation Farming. Paper presented at the NUFU Water Sciences Project Dissemination Conference held at Kuchawe Inn, Zomba, Malawi from 12th – 15th September, 2011.

Chidya, R.C.G., Sajidu, S.M.I., Mwatseteza, J.F. and Masamba, W.R.L. Evaluation and assessment of water quality in Likangala River and its catchment area. Paper presented at the International 11th WaterNet/WARFSA/GWP-SA Symposium held at Victoria Falls, Zimbabwe in October, 2010.

BRIGHTON AUSTIN CHUNGA, MSc; BSc**RESEARCH INTERESTS**

- Water Resources and Systems Dynamics Modelling
- Hydraulic and Groundwater Engineering
- Catchment Hydrology
- Irrigation Water Management
- Water Permitting and Allocation Systems designs
- Water Governance and Policy Development

Title of PhD Thesis (ongoing):

Improving water resources management through rural stakeholder engagement at catchment level in Malawi

Title of Master's Dissertation:

Modelling of Water Allocation in the Aquaculture Integrated with Small-scale Irrigation in Chinyanja Triangle: Malawi, Mozambique, and Zambia (A Case Study of Malawi)

DIRECTORY ENTRY

Upton, K., Ó Dochartaigh, B.É. & **Chunga, B.** (2016), "Africa Groundwater Atlas: Hydrogeology of Malawi. British Geological Survey", Accessed from: http://earthwise.bgs.ac.uk/index.php/Hydrogeology_of_Malawi.

MPHATSO MALOTA, MSc; BSc

RESEARCH INTERESTS

- Water quality assessment
- Water harvesting
- Agricultural water management

Title of Master's Dissertation:

An Assessment of shallow water tables and the development of appropriate drainage design criteria for sugarcane in Pongola, South Africa

JOURNAL PUBLICATIONS

Malota, M. and Senzanje, A. (2016), "A diagnosis of sub-surface water table dynamics in low hydraulic conductivity soils in the sugar cane fields of Pongola, South Africa", *Physics and Chemistry of the Earth, Parts A/B/C*, Vol. 92, pp. 61-69.

Holm, R., Tembo, M., Njera, D., Kasulo, V., **Malota, M.**, Chipeta, W. and Mchenga, J. (2016), "Adopters and non-adopters of low-cost household latrines: a study of corbelled pit latrines in 15 districts of Malawi", *Sustainability*, Vol. 8 No. 10, p. 1-8.

Malota, M. and Senzanje, A. (2015), "Modelling mid-span water table depth and drainage discharge dynamics using DRAINMOD 6.1 in a sugarcane field in Pongola, South Africa", *Water SA*, Vol. 41 No. 3, pp. 325-334.

CONFERENCE PAPERS

Malota, M., Veldman, R. and Holm, R. A. Evaluation of the low adoption rate of drip irrigation in Malawi. Paper presented at the 23rd ICID CONGRESS and 66th IEC Meeting held in Montpellier, France, 12 to 15 October, 2015.

Chiwaka, T., **Malota, M.**, Ngosi, S.M. and Mandala, R. Balancing irrigation water and soil salinity levels at a communally managed irrigation scheme. Paper presented at the WASAMA Conference held at the Grand Palace Hotel, Mzuzu, Malawi, 20 to 21 March, 2015.

Ngosi, S.M., **Malota, M.**, Chiwaka, T. and Mandala, R. River flooding for gain: making floods worth their occurrence. Paper presented at the WASAMA Conference held at the Grand Palace Hotel, Mzuzu, Malawi, 20 to 21 March, 2015.

Malota, M. and Senzanje, A. Drain it or perish: a look at the performance of drainage approaches in Pongola, South Africa. Paper presented at the 22nd ICID CONGRESS and 65th IEC Meeting held in Gwangju, Republic of Korea, 14 to 20 September, 2014.

Malota, M. and Senzanje, A. Verification of a subsurface drainage design criteria in low hydraulic conductivity soils of Pongola, South Africa. Paper presented at the 15th WaterNet/WARFSA/GWP-SA Symposium held in Lilongwe, Malawi, 29 to 31 October, 2014.

Malota, M. Malawi on the road to irrigation development: a compassionate story of successes, challenges and hope. Paper presented at the 15th WaterNet/WARFSA/GWP-SA Symposium held in Lilongwe, Malawi, 29 to 31 October, 2014.

FACULTY OF HEALTH SCIENCES

The Faculty of Health Sciences is the third largest faculty at Mzuzu University. It has three departments namely Nursing and Midwifery, Biomedical Sciences, and Optometry.

VISION

To be an academic centre of excellence in training health care professionals, research and outreach for quality service and socio-economic transformation of the people of Malawi and beyond.

MISSION

To produce highly qualified health professionals to address the critical shortage of human resource which has resulted from inadequate capacity of training institutions to produce the numbers of health workers required, through training, education, research and outreach in order to improve the health of Malawians.

RESEARCH ACTIVITIES

Academic staff within the Faculty are involved in a wide range of research activities and project works. These have yielded a lot of research output in terms of conference proceedings, journal articles and grey literature. The main thrust of research within the Faculty falls within the areas of public health, nursing education, and eye health.

DEPARTMENT OF NURSING AND MIDWIFERY

The Department of Nursing and Midwifery was established in 2006 with the aim of training high quality nurses and midwifery professionals.

RESEARCH ACTIVITIES

Members of staff are actively involved in research and project works. The main focus of research undertaken by the department falls within the areas of pediatric HIV/AIDS, maternal and child health, learning disability, child morbidity and mortality, intensive care nursing, oncology, and nursing education. Research outputs from members of staff within the Department are outlined below.

THOKOZANI BVUMBWE, PhD; MCur.; BSc

ORCID ID: orcid.org/0000-0003-0531-3199

RESEARCH INTERESTS

- Psychiatric mental health
- Geriatric nursing
- Clinical learning

Title of PhD Thesis:

An analysis of strategies to improve quality and quantity of nursing education in Malawi

Title of Master's Dissertation:

Clients' perceptions of therapeutic interaction with nurses at Escoval House Community Psychiatric Clinic in Durban

JOURNAL PUBLICATIONS

Bvumbwe, T. and Mtshali, N. (2018), "Nursing education challenges and solutions in Sub Saharan Africa: an integrative review", *BMC Nursing*, Vol. 17 No. 3.

Phuma-Ngaiyaye, E., **Bvumbwe, T.** and Chipeta, M.C. (2017), "Using preceptors to improve nursing students' clinical learning outcomes: a Malawian students' perspective", *International Journal of Nursing Sciences*, Vol. 4 No. 2, pp.164-168.

Bvumbwe, T. (2016), "Enhancing nursing education via academic–clinical partnership: an integrative review", *International Journal of Nursing Sciences*, Vol. 3 No. 3, pp.314-322.

Bvumbwe, T. (2016), "Student nurses' preparation for psychiatric nursing practice: Malawian experiences", *The Journal of Mental Health Training, Education and Practice*, Vol. 11 No. 5, pp. 294-304.

Bvumbwe, T., Malema, A. and Chipeta, M. (2015), "Registered nurses' experiences with clinical teaching environment in Malawi", *Open Journal of Nursing*, Vol. 5 No. 10, pp. 927 – 934.

Bvumbwe, T. (2015), "Perceptions of nursing students trained in a new model teaching ward in Malawi", *Journal of Educational Evaluation for Health Professions*, Vol. 12, p.53.

Middleton, L., Howard, A.A., Dohrn, J., Von Zinkernagel, D., Hopson, D.P., Aranda-Naranjo, B., Hall, C., **Bvumbwe, T.**, Chabela, A., Molise, N. and El-Sadr, W.M. (2014), "The Nursing Education Partnership Initiative (NEPI): innovations in nursing and midwifery education", *Academic Medicine*, Vol. 89 No. 8, pp. S24-S28.

Chingatchifwe, B.M., Dodge, E., Chideme-Munodawafa, A., Mwale, C.M. and **Bvumbwe, T.** (2014), "Exploration of adoption of health lifestyles for secondary prevention of non-communicable diseases

(Stroke, Diabetes and Hypertension) among clients at Mzuzu Central Hospital Malawi”, *European Scientific Journal*, Vol. 10 No. 12, pp. 281-290.

Msiska O., Mwale M., **Bvumbwe, T.**, Konyani, A. and Lungu, F. (2014), “Quality assurance assessment to enhance nursing and midwifery education at Mzuzu University, Malawi 2008 – 2013”, *Education for Southern Africa*, Vol. 10.

CONFERENCE PAPERS

Bvumbwe, T. Registered nurses’ experiences with clinical teaching environment in Malawi. Paper presented at the National Education Conference sponsored by Norwegian Church Aid (NCA) Conference held in Lilongwe, Malawi in November, 2015.

Bvumbwe, T. Bridging theory practice gap: insights from clinical preceptors, Mzuzu University Malawi. Paper presented at the Sigma Theta Tau International, Tau Lambda- At- Large Chapter conference held in Bloemfontein, South Africa, 5 to 7 August, 2013.

Bvumbwe, T. Up-scaling of transformative nursing education and midwifery education: Malawian experience (Key Note speaker). Paper presented at the EduNurse Education Conference held in Durban, South Africa, 2012.

Bvumbwe, T. National nursing education conference sponsored by Norwegian Church Aid. Paper presented at the Attending to Mental Health Needs of Students Improve Nursing Education in Malawi Conference held in Lilongwe, Malawi, 2012.

NATHAN CHIMBATATA, PhD; MSc; BSc

ORCID ID: 0000-0003-1591-5230

RESEARCH INTERESTS

- Child health- child morbidity and mortality trends (influencing factors)
- Communicable and non-communicable diseases-determinants
- Reproductive health (prevalence of harmful traditional reproductive health practices)

Title of PhD Thesis:

Barriers to access to tuberculosis medical care and tuberculosis prompt diagnosis - a comparative study between northern Malawi and eastern rural China

Title of Master's Dissertation:

Is there an association between bacterial vaginosis infection and HIV-1 infection acquisition among women aged 18 - 35 years in Soweto?

JOURNAL PUBLICATIONS

Chimbatata, N.B., Zhou, C.M., Chimbatata, C.M. and Xu, B. (2017), "Post-2015, why delay to seek healthcare? Perceptions and field experiences from TB healthcare providers in northern Malawi: A qualitative study", *Infectious Diseases of Poverty*, Vol. 6 No. 1, p.60.

Chimbatata, N.B. and Malimba, C. (2016), "Infertility in Sub-Saharan Africa: a woman's issue for how long? A qualitative review of literature", *Open Journal of Social Sciences*, Vol. 4 No. 08, p. 96-102.

Chimbatata, N.B. and Hu, C. (2016), "Illness narrative: perceptions and lived experiences of kidney recipient illients in Shanghai, China", *Open Journal of Nephrology*, Vol. 6 No. 03, p.67-77.

Chimbatata, N.B. and Chimbatata, C.M. (2016), "Impact evaluation design for community midwife technicians in Malawi", *European Scientific Journal*, Vol. 12 No. 27, pp.349-357.

CONFERENCE PAPERS

Chimbatata, N.B.W., Zhou, C., Chimbatata, C.M. and Xu, B. POST-2015. Why delay to seek health care? Perceptions and lived experiences of TB health providers in the northern region-Malawi. Paper presented at the 6th Conference of International Union against Tuberculosis and Lung Disease Asia Pacific Region held in Tokyo, Japan, 22 to 25 March, 2017.

Chimbatata, N.B.M., Zhou, C., Mhango, L., Chimbatata, C.M., Diwan, V.K. and Xu, B. A comparative study of tuberculosis diagnosis delays in China and Malawi. Paper presented at the 6th Conference of International Union against Tuberculosis and Lung Disease Asia Pacific Region held in Tokyo, Japan, 22 to 25 March, 2017.

ETTAH CHIMBE-PHIRI, MSc; BSc; UCM

RESEARCH INTERESTS

- Pediatric non-communicable diseases (NCDs)
- Preventive and interventions for child health care

Title of Master's Dissertation:

Management and self-care practices among adolescents with type 1 diabetes mellitus

MEP CHIPETA, MSc; BSc; UCM

RESEARCH INTERESTS

- Nursing and midwifery education
- Reproductive health
- HIV/AIDS

Title of Master's Dissertation:

Faculty caring: Perspectives from Mzuzu University nursing and midwifery students

JOURNAL PUBLICATIONS

Phuma- Ngaiyaye, E., Bvumbwe, T.M., **Chipeta, M.** (2017), "Using preceptors to improve nursing students' clinical learning outcomes: a Malawian students' perspective", *International Journal of Nursing Sciences*, Vol. 4 No. 2, pp. 164-168.

Bvumbwe, T., Malema, A. and **Chipeta, M.** (2015), "Registered nurses' experiences with clinical teaching environment in Malawi", *Open Journal of Nursing*, Vol. 5 No. 10, pp. 927 – 935.

FATCH KALEMBO, MSc; BSc; UCM

ORCID ID: 0000-0003-3032-3495

RESEARCH INTERESTS

- Psychosocial factors associated with HIV disclosure among children living with HIV
- Factors associated with maternal and child health outcomes in Malawi
- Epidemiology
- Adolescent health

Title of PhD Thesis (on going):

Disclosure of HIV among children living with HIV in Malawi

Title of Master's Dissertation:

The impact of male partner involvement in the prevention of mother to child transmission of HIV in Mwanza District, Malawi

JOURNAL PUBLICATIONS

Zgambo, M., Mbakaya, B. C. and **Kalembo, F. W.** (2017), "Prevalence and factors associated with malaria parasitaemia in children under the age of five years in Malawi: a comparison study of the 2012 and 2014 Malaria Indicator Surveys (MISs)", *PLoS One*, Vol. 12 No. 4, e0175537.

Tembo, C., Burns, S., and **Kalembo, F.** (2017), "The association between levels of alcohol consumption and mental health problems and academic performance among young university students", *PLoS ONE*, Vol. 12 No. 5, p. e0178142.

Phuma-Ngaiyaye, E. and **Kalembo, F. W.** (2016), "Supporting mothers to bond with their newborn babies: strategies used in a neonatal intensive care unit at a tertiary hospital in Malawi", *International Journal of Nursing Sciences*, Vol. 3 No. 4, pp. 362-366.

Zgambo, M., **Kalembo, F. W.**, Wang, H., He, G. and Chen, S. (2015), "Prevalence and predictors of clinically significant depressive symptoms among Chinese and Malawian children: a cross-cultural comparative cross-sectional study", *Global Journal of Health Science*, Vol. 7 No. 1, pp. 59 - 68.

Kalembo, F.W., Zgambo, M. and Du, Y. K. (2013), "Progress of mother-to-child transmission of HIV programs in China: successes, challenges and way forward", *Chinese medical journal*, Vol. 126 No. 16, pp. 3172-3176.

Kalembo, F. W., Zgambo, M., Mulaga, A. N., Yukai, D. and Ahmed, N. I (2013), "Association between male partner involvement and the uptake of prevention of mother-to-child transmission of HIV (PMTCT) interventions in Mwanza district, Malawi: a retrospective cohort study", *PLoS One*, Vol. 8 No. 6, p. e66517.

Kalembo, F. W., Zgambo, M. and Yukai, D. (2013), "Effective adolescent sexual and reproductive health education programs in sub-Saharan Africa", *Californian Journal of Health Promotion*, Vol. 11 No. 2, pp. 32-42.

Soatiana, J. E., Kpoghoumou, M. A., **Kalembo, F. W.** and Zhen, H. H. (2013), “Outcomes of trabeculectomy Africa”, *Open Journal of Ophthalmology*, Vol. 3 No. 03, pp. 76-86.

Kpoghomou, M.-A., **Kalembo, F. W.** and Soatiana, J. E. (2013), “No association between the GSTM1 and GSTT1 polymorphism and endometrial cancer risk: a meta-analysis”, *Open Journal of Obstetrics and Gynecology*, Vol. 3 No. 4, p.p. 386-394.

Kpoghomou, M.-A., Soatiana, J. E., **Kalembo, F. W.**, Bishwajit, G. and Sheng, W. (2013), “UGT2B17 polymorphism and risk of prostate cancer: a meta-analysis”, *ISRN oncology*, Vol. 2013, pp. 1-7.

Zgambo, M., **Kalembo, F.**, Guoping, H. and Honghong, W. (2012), “Depression among Chinese children and adolescents: a review of the literature”, *International Journal of Child, Youth and Family Studies*, Vol. 3 No. 4.1, pp. 442-457.

Qiu, J., Yang, R., Rao, Y., Du, Y. and **Kalembo, F. W.** (2012), “Risk factors for breast cancer and expression of insulin-like growth factor-2 (IGF-2) in women with breast cancer in Wuhan City, China”, *PLoS One*, Vol. 7 No. 5, p. e36497.

Kalembo, F. W., Yukai, D., Zgambo, M. and Jun, Q. (2012), “Male partner involvement in prevention of mother to child transmission of HIV in sub-Saharan Africa: successes, challenges and way forward”, *Open Journal of Preventive Medicine*, Vol. 2 No. 1, 35-42.

Kalembo, F. W. and Zgambo, M. (2012), “Loss to follow-up: a major challenge to successful implementation of prevention of mother-to-child transmission of HIV-1 programs in sub-Saharan Africa”, *Isrn Aids*, Vol. 2012, pp. 1 – 10.

FERESTAS MPASA, PhD; MSc; BSc

RESEARCH INTERESTS

- Intensive care nursing
- Nursing education

Title of PhD Thesis:

Management of endotracheal tube cuff pressure in mechanically ventilated adult patients in intensive care units in Malawi

Title of Master's Dissertation:

Strategies for the implementation of clinical practice guidelines in intensive care units: a systematic review

JOURNAL PUBLICATION

Jordan, P., **Mpasa, F.**, ten Ham-Baloyi, W. and Bowers, C. (2017), "Implementation strategies for guidelines at ICUs: a systematic review," *International Journal of Health Care Quality Assurance*, Vol. 30 No. 4, pp. 358-372.

CONFERENCE PAPERS

Mpasa, F. Strategies for the implementation of guidelines in the ICU: a systematic review. Paper presented at the Nursing Education Conference in Malawi held at the Capital Hotel in Lilongwe, Malawi, 2014.

Chalanda, M. and **Mpasa, F.** Problem-based learning: a pedagogical strategy for teaching in nursing colleges in Malawi. Paper presented at the innovations in higher learning institutions conference held at the University of Western Cape, RSA in December, 2009.

ELWIN SHAWA, MSc; BSc; UCM

RESEARCH INTERESTS

- Herbal medicine
- Non-communicable diseases (NCD)
- Clinical nursing
- Cardiovascular nursing
- HIV/AIDS, TB, and Malaria

Title of Master's Dissertation:

Patients' perceptions regarding nursing care in the general surgical wards at Kenyatta National Hospital, Nairobi

JOURNAL PUBLICATION

Chiaravalli, J., Lufesi, N., **Shawa, E.**, Nkhoma, V., Sigalet, E. and Dubrowski, A. (2017), "Management of an obstructed tracheostomy in a limited-resource setting", *Cureus*, Vol. 9 No. 5, p. e1246.

FACULTY OF INFORMATION SCIENCES AND COMMUNICATION

The Faculty of Information Sciences and Communication was established with the aim of training information professionals in different areas of specialization to meet the human resource needs of the country. The Faculty has two departments. These are Information and Communication Technologies, and Library and Information Sciences.

VISION

Centre of excellence in education and research in the information sector.

MISSION

To produce high quality information professionals, undertake research, and provide complementary services to meet the information and technological needs of Malawi and beyond.

RESEARCH ACTIVITIES

The Faculty of Information Sciences and Communication is committed to undertaking research in areas of need. It is envisaged that research activities will create and disseminate knowledge needed to support the country's sustainable development. The main focus of research by staff within the faculty is on information communication technologies' (ICTs) application in libraries and information centres, knowledge sharing, information literacy, cloud and mobile computing, information security, and programming.

GERTRUDE MUNTHALI, MSc; BSc; UCM

RESEARCH INTERESTS

- HIV and AIDS
- Non-communicable chronic diseases (Diabetes and Hypertension)
- Nursing Education

Title of Master's Dissertation:

Adherence to standard precautions guidelines among nurses working at Mbagathi District Hospital, Nairobi, Kenya

ELLEMES PHUMA-NGAIYAYE, PhD; MSc; BSc; UCM**RESEARCH INTERESTS**

- Maternal, newborn and child health
- Clinical teaching
- HIV and AIDS
- Reproductive health
- Professional nursing practice

Title of PhD Thesis:

Development of neonatal nursing clinical competency-based assessment tool for nurse-midwife technicians in CHAM Colleges, Malawi

Title of Master's Dissertation:

Experiences of children living with HIV following disclosure of their diagnosis in Mzuzu

JOURNAL PUBLICATIONS

Dartey, A.F., **Phuma-Ngaiyaye, E.** and Phethu, D.R. (2018), "Midwives' Emotional Distress over Maternal Death: The Case of Ashanti Region", *NUMID Horizon International Journal of Nursing*, Vol. 1 No. 2, pp. 68-76.

Dartey, A.F., **Phuma-Ngaiyaye, E.** and Phethu, D.R. (2017), "Effects of Death as a Unique Experience among Midwives in the Ashanti Region of Ghana", *International Journal of Health Sciences & Research*, Vol. 7 No. 12, pp. 158-167.

Phuma-Ngaiyaye, E. E., Adejumo, O. and Dartey, A. F. (2017), "Challenges in neonatal nursing clinical teaching to nurse-midwife technicians in Malawi", *Journal of Nursing Education*, Vol. 56 No. 4, pp. 215-221

Phuma-Ngaiyaye, E., Bvumbwe, T. and Chipeta, M. C. (2017), "Using preceptors to improve nursing students' clinical learning outcomes: a Malawian students' perspective", *International Journal of Nursing Sciences*, Vol. 4 No. 2, p.p. 164-168.

Dartey, A.F., Phethu, D.R. and **Phuma-Ngaiyaye, E.** (2017), "Fears associated with maternal death: selected midwives lived experiences in the Ashanti Region of Ghana", *NUMID Horizon: An International Journal of Nursing and Midwifery*, Vol. 1 No. 1, p.p. 79-86.

Phuma-Ngaiyaye, E. and Kalembo, F.W. (2016), "Supporting mothers to bond with their newborn babies: strategies used in a neonatal intensive care unit at a tertiary hospital in Malawi", *International Journal of Nursing Sciences*, Vol. 3 No. 4, p.p. 362-366.

Phuma-Ngaiyaye, E. and Dartey, A.F. (2015), "Experiences of children living with HIV and AIDS following their diagnosis disclosure in Mzuzu, Malawi", *Vulnerable Children and Youth Studies*, Vol. 10 No. 4, pp.357-365.

Phuma E.E. (2010), "Epilogue: The International Ethics Conference; an eye opener", *Research Administration*, Vol. 41 No. 2, p.p. 97-98.

DEPARTMENT OF INFORMATION AND COMMUNICATION TECHNOLOGIES

The Department of Information and Communication Technologies offers programmes that equip graduates with requisite skills and knowledge to deliver services on the job market that transforms the ICT sector of the country and beyond. Besides teaching, the Department also offers consultancy services on demand to the public and ICT sector. The Department also runs some projects that benefit the community in which it operates.

RESEARCH ACTIVITIES

The main focus of research by staff within the Department is in the areas of use of ICT for development, end user computing, information security, cloud computing, programming and use of mobile technologies.

HOPE MAUWA, MSc; BSc (Hons); BSc

RESEARCH INTERESTS

- Information and Communication Technology for Development (ICT4D)
- Internet of Things (IoT)
- Cloud and Mobile Computing
- Information Security: End-user
- Programming Languages

Title of PhD Thesis (ongoing):

White Space Network Management: Spectrum Quantification, Spectrum Allocation and Network Design

Title of Master's Dissertation:

Information Security Awareness: Generic Content, Tools and Techniques

JOURNAL PUBLICATIONS

Mauwa, H., Bagula, B.A., Zennaro, M., Pietrosemoli, E., Lysko, A., and Brown, T.X. (2016), "Systematic analysis of Geo-Location and Spectrum Sensing as access methods to TV White Space", *Journal of ICT Standardization*, Vol. 4 No. 2, pp. 147-176.

Mauwa, H., Bagula, B.A., and Zennaro, M., (2016), "Improving spectrum sensing as a method for White Space identification through Design Principles", *Journal of ICT Standardization*, Vol. 3 No. 3, pp. 177-200.

CONFERENCE PROCEEDINGS

Mauwa, H., Bagula, B.A., Zennaro, M., Pietrocemoli, E., Lysko, A. and Brown, T. (2016), "Systematic analysis of Geo-location and Spectrum Sensing as access methods to TV White Space" in *International Telecommunications Union (ITU) Kaleidoscope 2016 conference held in Bangkok, Thailand from 14–16 November 2016*, pp. 1-8.

Mauwa, H., Bagula, B.A. and Zennaro, M. (2015), "Exploring TV White Spaces for use in Campus Network" in *International Conference on e-Infrastructure and e-Services for developing countries (AFRICOMM 2015) conference held in Cotonou, Benin from 15-16 December 2015*, pp. 13-25.

Mauwa, H., Bagula, B.A. and Zennaro, M. (2015), "WhiteNet: A White Space Network for campus connectivity using Spectrum Sensing Design Principles" in *International Telecommunications Union (ITU) Kaleidoscope conference held in Barcelona, Spain from 9-11 December 2015*, pp. 1-8.

Mauwa, H., Bagula, B.A., Zennaro, M. and Zodi, G.L. (2015), "On the impact of propagation models on TV White Space measurements in Africa" in *International Conference on Emerging Trends in Networks and Computer Communications 2015 (ETNCC 2015) held in Windhoek, Namibia from 17-20 May 2015*, pp.148-154.

Brown, T.X., Pietrosemoli, E., Zennaro, M., Bagula, B.A., **Mauwa, H.**, and Nleya, S.M. (2014), “A survey of TV White Space measurements”, in *International Conference on e-Infrastructure and e-Services for Developing Countries (AFRICOMM 2014) conference held in Kampala, Uganda from 24-26 November 2014*, pp. 164-172.

Mauwa, H. and Tucker, W.D. (2013), “Security of a Mesh Potato in Ad Hoc Mode” in *South African Telecommunication Networks and Applications Conference (SATNAC 2013) conference was held in Stellenbosch, South Africa from 1-4 September 2013*, pp. 431-432.

Mauwa, H. and von Solms, R. (2007), “Information Security Awareness: Towards a Generic”, in *International Symposium on Human Aspects of Information Security & Assurance (HAISA) conference held in Plymouth, United Kingdom (UK) from 10-12 July 2007*, pp. 37-43.

DEPARTMENT OF LIBRARY AND INFORMATION SCIENCE

The Department of Library and Information Science offers courses at both graduate and undergraduate levels. The course offering is tailor-made to meet the human resource needs of information centres, libraries, archives and records centres.

RESEARCH ACTIVITIES

Members of staff within the Department are involved in research that focusses on the following areas: Social media and ICT use in information centres, information literacy, knowledge management, library and information science education, telecentre management and use, ICT4D and e-Commerce.

WINNER DOMINIC CHAWINGA, MLIS; BLIS

ORCID ID: <http://orcid.org/0000-0002-3865-4777>

RESEARCH INTERESTS

- Digital curation
- Social media and ICT in higher education pedagogy
- ICT4D
- Open and distance learning
- Information and competitive intelligence

Title of PhD Thesis (ongoing):

Research Data Management and Digital Preservation in Universities: An Interdisciplinary Study of Medical Sciences and Humanities

Title of Master's Dissertation:

The Use of Web 2.0 by Students and Lecturers at Mzuzu University, Malawi: The Case of the Faculty of Information Science and Communications

BOOK CHAPTERS

Chipeta, G.T. and **Chawinga, W.D.** (2017), "Knowledge management capability in higher education: The case of lecturers at Mzuzu University, Malawi", in Gunjal, B. (Ed.), *Managing knowledge and scholarly assets in academic libraries*, Hershey, Pennsylvania, USA: IGI Global, pp. 302-333.

JOURNAL PUBLICATIONS

Phiri, A., Chipeta, G.T. and **Chawinga, W.D.** (2018). 'Information needs and barriers of rural smallholder farmers in developing countries: A case study of rural smallholder farmers in Malawi', *Information Development*, pp.1-14.

Chawinga, W.D. (2017), "Taking social media to a university classroom: teaching and learning using Twitter and blogs", *International Journal of Educational Technology in Higher Education*, Vol. 14 No. 3, pp. 1-19.

Chawinga, W. D. and Chipeta, G. (2017), "A synergy of knowledge management and competitive intelligence: A key for competitive advantage in small and medium business", *Business Information Review*, Vol. 4 No. 1, pp. 25-36.

Chawinga, W. D. (2016), "Teaching and learning 24/7 using Twitter in a university classroom: Experiences from a developing country", *Learning and Digital Media*, Vol, 13 No. 11-2, pp. 45-61.

Chawinga, W.D. and Zinn, S. (2016), "Use of Web 2.0 by students in the Faculty of Information Sciences and Communication at Mzuzu University", *South African Journal of Information Management*, Vol. 18 No. 1, pp. 1-12.

Chawinga, W.D. and Zozie, P. (2016), "Information needs and barriers to information sources by open and distance learners: a case of Mzuzu University, Malawi", *South African Journal of Information Management*, Vol. 18 No. 1, pp. 1-12.

Chawinga, W.D. and Zozie, P. (2016), "Increasing access to higher education through open and distance learning: empirical findings from Mzuzu University, Malawi", *The International Review of Research in Open and Distributed Learning*, Vol. 17 No. 4, pp. 1-20.

Chawinga, W.D. and Zinn, S. (2015), "Lecturers' use of Web 2.0 in the Faculty of Information Sciences and Communication at Mzuzu University, Malawi", *Mousaion: South African Journal of Information Studies*, Vol. 33 No. 4, pp. 62-85.

Chawinga, W.D. and Ngwira, F. (2015), "The role of the Mzuzu American Corner Information Technology and Communication Centre, Malawi", *Innovation: journal of appropriate librarianship and information work in Southern Africa*, Vol. 50 No. 1, pp. 20-43.

Chipeta, G. and **Chawinga, W.D.** (2012), "An investigation on the strategies for developing and sustaining strong library associations: A case of the Malawi Library Association (MALA)", *Malawi Journal of Library and Information Science*, Vol. 1 No. 1, pp. 59-71.

CONFERENCE PAPERS

Chawinga, W.D. and Zozie, P. Using the Theory of Transactional Distance to Assess Open and Distance Education: Empirical Findings from Mzuzu University. Paper presented at Research and Innovation: A Catalyst for Sustainable Development organized by the National Commission for Science Technology in Mangochi (Malawi), 28 to 29 September, 2017.

Chawinga, W., Kanyundo, A., Dube, G. and Abdullah, H. Thriving on the power of a record: experiences from Mzuzu University. Paper presented at the Public-Sector Reforms: Transparency and Accountability Conference organized by the National Archives of Malawi in Lilongwe (Malawi), 7 to 11 August, 2017.

Chawinga, W., Lihoma, P. and Mkuwira, M. Withstanding the test of time: long-term stewardship of digital archives in Malawi. Paper presented at the Public-Sector Reforms: Transparency and Accountability Conference organized by the National Archives of Malawi in Lilongwe (Malawi), 7 to 11 August, 2017.

Malanga, D and **Chawinga, W.** E-records Readiness in Malawi Local Government Councils: The Case Study of Karonga Town Council. Paper presented at the Public-Sector Reforms: Transparency and Accountability Conference organized by the National Archives of Malawi in Lilongwe (Malawi), 7 to 11 August, 2017.

Mkuwira, M. and **Chawinga, W.** Blending ICT into Knowledge Management at National Archives of Malawi". Paper presented at the Public-Sector Reforms: Transparency and Accountability Conference organized by the National Archives of Malawi in Lilongwe (Malawi), 7 to 11 August, 2017.

Dube, G., **Chawinga, W.** and Kanyundo, A. Can a university library manage an archive and record centre? Weighing possibilities and impossibilities at Mzuzu University, Malawi. Paper presented at the Public-Sector Reforms: Transparency and Accountability Conference organized by the National Archives of Malawi in Lilongwe (Malawi), 7 to 11 August, 2017.

Dube, G., **Chawinga, W.** and Kanyundo, A. The media frenzy in Malawi: an opportunity or a challenge for the Anti-Corruption Bureau? Paper presented at the Public-Sector Reforms: Transparency and Accountability Conference organized by the National Archives of Malawi in Lilongwe (Malawi), 7 to 11 August, 2017.

Chawinga, W. D. and Majawa, F. Innovativeness amidst the burning of a multimillion USD Library at Mzuzu University: mayhem, interventions and lessons learned. Paper presented at the Libraries in Action: Transformation and Development Towards 2030 conference organized by the Library and Information Association of South Africa (LIASA) in Durban (South Africa), 10 to 14 October, 2016.

Chawinga, W.D. Unmasking the potential of web 2.0 in academic libraries in Malawi: empirical findings. Paper presented at the Digital Transformation and the Changing Role of Libraries and Information Centres in the Sustainable Development of Africa conference organized by Standing Conference of Eastern Central and Southern African Libraries Association (SCECSAL) held in Swaziland, 25 to 30 April, 2016.

Kapasule, A. and **Chawinga, W.D.** Revolutionizing scholarly communications through institutional repositories: Empirical findings from a university (college) in Malawi. Paper presented at the Digital Transformation and the Changing Role of Libraries and Information Centres in the Sustainable Development of Africa conference organized by the Standing Conference of Eastern Central and Southern African Libraries Association (SCECSAL) in Swaziland, 25 to 30 April, 2016.

Abdullah, H., **Chawinga, W.D.** and Mwabumba, L. Diffusion of information/knowledge for growing forest herbs amongst traditional healers: A case of traditional healers at Ekwendeni, Malawi. Paper presented at the Digital Transformation and the Changing Role of Libraries and Information Centres in the Sustainable Development of Africa conference organized by the Standing Conference of Eastern Central and Southern African Libraries Association (SCECSAL) held in Swaziland, 25 to 30 April, 2016.

Selemani, A. and **Chawinga, W. D.** Awareness of digital rights management in academic libraries: a survey of three selected Malawian university/college libraries. Paper presented at the Digital Transformation and the Changing Role of Libraries and Information Centres in the Sustainable Development of Africa conference organized by the Standing Conference of Eastern Central and Southern African Libraries Association (SCECSAL) held in Swaziland, 25 to 30 April, 2016.

Zozie, P. and **Chawinga, W.D.** Using real-time response systems to enhance participative learning in higher education: Experiences from Mzuzu University, Malawi. Paper presented at the ICT for Development, Education and Training conference organized by the e-Learning African in Cairo, Egypt, 24 to 26 May, 2016.

Chawinga, W.D. A Decade of Formal Library and Information Science Education in Malawi: The Case of Mzuzu University. Paper presented at the Digital Transformation and the Changing Role of Libraries and Information Centres in the Sustainable Development of Africa conference organized by the International Federation of Library Associations and Institutions (IFLA) held in Cape Town South Africa, 15 to 21 August, 2015.

GEORGE CHIPETA, PhD; MLIS; BA (Hons) LIS; BA, LIS

RESEARCH INTERESTS

- Information literacy
- Information behaviour
- Knowledge Management
- Library and information Science education

Title of PhD Thesis (ongoing):

Knowledge Sharing Strategies in University Libraries in Malawi

Title of Master's Dissertation:

Teaching and Learning of Information Literacy in Universities of KwaZulu-Natal, in South Africa and Malawi

BOOK PUBLICATION

Chipeta, G.T. (2011) *Teaching and learning of Information Literacy in Universities of KwaZulu-Natal, in South Africa and Malawi*, Saarbrücken, Germany: Lambert Academic Publishing.

BOOK CHAPTERS

Chipeta, G.T. and Chawinga, W.D. (2017), "Knowledge management capability in higher education: The case of lecturers at Mzuzu University, Malawi", in Gunjal, B. (Ed.), *Managing Knowledge and Scholarly Assets in Academic Libraries*, Hershey, Pennsylvania, USA: IGI Global, pp. 302-333.

Chipeta, G.T., Mostert, J. and Jacobs, D. (2011), "Information literacy education in universities: Some southern African perspectives", in Ocholla, D.N. and Brits, J. (Eds.), *Research issues in information studies in a changing local and global environment: Some African perspectives*, Saarbrücken, Germany: Lambert Academic Publishing.

JOURNAL PUBLICATIONS

Phiri, A., **Chipeta, G.T.** and Chawinga, W.D. (2018), "Information needs and barriers of rural smallholder farmers in developing countries: A case study of rural smallholder farmers in Malawi", *Information Development*, 1-14.

Chawinga, W.D. and **Chipeta, G.T.** (2017), "A synergy of knowledge management and competitive intelligence: A key for competitive advantage in small and medium business enterprises", *Business Information Review*, Vol. 34 No. 1, pp. 25-36.

Chipeta, G. and Chawinga, W.D. (2012), "An investigation on the strategies for developing and sustaining strong library associations: a case of the Malawi Library Association (MALA)", *Malawi Journal of Library and Information Science*, Vol. 1 No. 1, pp. 59-71.

Chipeta, G.T. (2010), "Information Literacy (IL) teaching and learning: a literature review", *Inkanyiso: Journal of Humanities and Social Sciences*, Vol. 2 No. 1, pp.21-31.

Chipeta, G., Jacobs, D. and Mostert, J. (2009), “Teaching and learning of information literacy in some selected institutions of higher learning in KwaZulu-Natal and Malawi”, *South African Journal of Libraries and Information Science*, Vol. 75 No. 1, pp.46-57.

SELLINA KHUMBO KAPONDERA, MLIS; BLIS

ORCID ID: orcid.org/0000-0001-6686-6788

RESEARCH INTERESTS

- Telecentres
- ICT4D
- e-Commerce
- e-Learning

Title of PhD Thesis (ongoing):

Technology and Information Management

Title of Master's Dissertation:

The Use of Multipurpose Community Telecentres and their Services in Malawi. The Case of Lupaso Community Telecentre

JOURNAL PUBLICATIONS

Kapondera, S.K. and Chigona, W. (2018), "Domestication of Telecentres by Malawian Rural Women", *International Journal of Information Communication Technologies and Human Development (IJICTHD)*, Vol. 10 No. 1, pp. 51-64.

Kapondera, S.K. and Namusanya, D.M. (2017), "Uses, benefits and challenges of using rural community telecentres as tools for development: The Case of Vikwa Community Telecentre in Kasungu, Malawi", *Journal of Development and Communication Studies*, Vol. 5 No. 1, pp.1-21.

Kapondera, S.K. and Hart, G. (2016), "The use of multipurpose community telecentres and their services in Malawi: The case of Lupaso Community Telecentre", *The South African Journal of Libraries and Information Science*, Vol. 82 No. 1, pp. 13-25.

Kapondera-Longwe, S.K. (2013), "An exploratory study of the role of telecentres in providing rural community access to Information and Communication Technology services in Malawi: A case of Goliati Telecentre", *Malawi Journal of Library and Information Science*, Vol. 1 No. 1, pp. 1-18.

CONFERENCE PAPERS

Chaima, M. and **Kapondera, S.K.** The usage of Khudze Multipurpose Community Telecentre in Mwanza District in Malawi. Paper presented at the IST-Africa Conference held in Windhoek, Namibia, 31 May to 2 June, 2017.

Kapondera, S.K. and Ngalande, E. Adoption of mobile technologies in Malawian academic libraries: the case of mzuzu university library and learning resources centre. Paper presented at the Standing Conference of the Eastern, Central and Southern Africa Librarians and Institutions held in Swaziland, 25 to 29 April, 2016.

Kanyundo, A. and **Kapondera, S.K.** Relieved at last: cataloguing with LibraryThing. Paper presented at the Standing Conference of the Eastern, Central and Southern Africa Librarians and Institutions held in Swaziland, 25 to 29 April, 2016.

Kapondera, S.K. The link between telecentres and rural development in Malawi: The case of Vikwa Community Telecentre. Paper presented at the Standing Conference of the Eastern, Central and Southern Africa Librarians and Institutions held in Swaziland, 25 to 29 April, 2016.

Kapondera, S.K. The use and impact of information and communication technology on Malawian academic libraries: a case study of Mzuzu University Library. Paper presented at the 3rd International Conference on Education and Social Sciences held in Turkey, 8 to 10 February, 2016.

LIBRARY AND LEARNING RESOURCES CENTRE

The Library and Learning Resources Centre (LLRC) is the information hub of the University. It caters for the information needs of its clients (academic and non-academic staff, students, administrative staff and other researchers). Some of the core activities undertaken by the LLRC include managing information literacy sessions of its clients, assisting in literature searches of staff and students, advising on appropriate and ethical citation of information sources used, among others. Moreover, the LLRC staff undertake consultancies related to the setting up of new libraries and information centres and carry out library visits as part of the outreach mission.

The LLRC has six main sections that include Readers Services, Serials and Periodicals, Malawiana and Special Collections, Technical Services, Children's and Outreach Services, and Administration. Each of these sections are headed by an Assistant Librarian who are categorised as academic staff in the University setup.

VISION

To be a leading, dynamic, inclusive and innovative library and learning resources centre in Malawi and beyond in providing and facilitating access to, and use of up-to-date information to support teaching, learning, research and outreach activities.

MISSION

To provide up-to-date and relevant information resources; promote the effective utilisation of those resources; and facilitate rapid access to information held within and in remote places through conventional and electronic means to Mzuzu University community and other stakeholders.

RESEARCH ACTIVITIES

LLRC staff carry out research in areas of pressing need. These endeavours have given rise to research out in terms of technical reports, conference and seminar papers, journal articles, books and book chapters. Much of the research output attributed to the LLRC staff falls within the broad areas of ICT application in libraries and information centres, information behaviour, information literacy, social inclusion of information centres, youth and children information services, disaster management in information centres, and use of open source information resources. The profiles and research out of LLRC staff are presented below.

AUBREY HARVEY CHAPUTULA, PhD; MLIS; BA (Ed)

ORCID id: <http://orcid.org/0000-0003-3753-9934>

RESEARCH INTERESTS

- ICT applications in libraries
- Collection development and management
- Training and human resource issues in libraries
- Social media applications in libraries
- Social inclusiveness in information centres

Title of PhD Thesis:

eReadiness of Public University Libraries in Malawi with Special Reference to the Use of Mobile Phones in the Provision of Library and Information Services

Title of Master's Dissertation:

The development of academic library collection in Malawi: A case of Chancellor College Library

JOURNAL PUBLICATIONS

Chaputula, A.H. and Mutula, S. (2018), "Provision of library and information services through mobile phones in public university libraries in Malawi", *Global Knowledge, Memory and Communication*, Vol. 67 No. 1/2, pp. 52-69.

Chaputula, A.H. and Mutula, S. (2018), "eReadiness of public university libraries in Malawi to use mobile phones in the provision of library and information services", *Library Hi Tech*, Vol. 36 No. 2, <https://doi.org/10.1108/LHT-10-2017-0204>.

Chaputula, A.H. and Mapulanga, P.M. (2017), "Provision of library services to people with disabilities in Malawi", *South African Journal of Libraries and Information Science*, Vol. 82, No. 2, p.p. 1 – 10.

Chaputula, A.H. (2014), "Job prospects for Mzuzu University library and information science graduates", *New Library World*, Vol. 115 No. 11/12, pp. 571-587.

Chaputula, A.H. and Kanyundo, A. (2014), "Collection development policy: How its absence has affected collection development practices at Mzuzu University Library", *Journal of Librarianship and Information Science*, Vol. 46 No. 4, pp. 317-325.

Chaputula, A.H. (2014), "Collection development practices in some selected private university libraries in Malawi", *Library Management*, Vol. 35 No. 3, pp. 150-163.

Chaputula, A.H. and Majawa, F. (2013), "Use of social networking sites (SNSs) by mass media organisations in Malawi", *Aslib Proceedings: New Information Perspectives*, Vol. 65 No. 5, pp. 534-557.

Chaputula, A.H. (2012), "State, adoption and use of ICTs by students and academic staff at Mzuzu University, Malawi", *Program: Electronic Library and Information Systems*, Vol. 46 no. 4, pp. 364-382.

Chaputula, A.H. (2011), "Impact of the global economic crisis on academic libraries in Malawi: a case study of University of Malawi and Mzuzu University libraries", *Library Management*, Vol. 32 No. 8/9, pp. 565-578.

Chaputula, A.H. and Boadi, B.Y. (2010), "Funding for collection development activities at Chancellor College Library, University of Malawi", *Collection Building*, Vol. 29 No. 4, pp. 142 – 147.

CONFERENCE PAPERS

Chaputula, A.H. and Mutula, S. eReadiness of Mzuzu University Library with special reference to use of mobile phones in the provision of library and information services to distance education learners. Paper presented at the SCECSAL 2016 conference held at the Royal Swazi Sun, eZulwini, Swaziland, 25 to 29 April, 2016.

Chaputula, A.H. Mobile banking services in Malawi. Paper presented at the National ICT Week held in Lilongwe, Malawi, 9 to 11 December, 2013.

Chaputula, A.H. Training of Library and Information Science professionals in Malawi: challenges and prospects. Paper presented at the 72nd Norwegian Library Conference held in Hamar, Norway, 16 to 19 March, 2010.

MALOTO CHAURA, MLIS; BLIS; Dip. (LIS)

RESEARCH INTERESTS

- Information behavior of library users
- Information literacy

Title of Master's dissertation:

Information Behaviour of Fourth Year Students of Mzuzu University in Malawi

JOURNAL PUBLICATIONS

Chaura, M. (2015), "Information behavior of final year students of Mzuzu University, Malawi", *Library Philosophy*, Vol. 4 No. 27, pp. 1-26.

GIFT ALFRED DUBE, MSc (LIS); BA (Ed)**RESEARCH INTERESTS**

- Children and youth information service
- Libraries and literacy development
- Information seeking behavior of adolescents
- Technology and literacy development
- Internet safety for children and youth

Title of Master's Dissertation:

Funding school libraries in Malawi.

JOURNAL PUBLICATIONS

Dube, G.A.B. (2017). "Review of Educational Policies that Affect Funding of School Libraries in Malawi", *School Libraries Worldwide*, Vol. 23 No. 1, pp. 84-94.

CONFERENCE PAPERS

Chawinga, D.W., Kanyundo, A.J., **Dube, G.** and Abdullah, H.L. Thriving on the power of a record: experiences from Mzuzu University, Malawi. Paper presented at the 24th Eastern and Southern Africa Regional Branch (ESARBICA) General Conference held at Bingu wa Mutharika International Conference Centre, Lilongwe, Malawi, 7 to 11 August, 2017.

Dube, G.A., Chawinga, D.W., Kanyundo, A.J. and Abdullah, H.L. Can a university library manage an archive and a records centre? Weighing possibilities and impossibilities at Mzuzu University, Malawi. Paper presented at the 24th Eastern and Southern Africa Regional Branch (ESARBICA) General Conference held at Bingu wa Mutharika International Conference Centre, Lilongwe, Malawi, 7 to 11 August, 2017.

Dube, G.A., Chawinga, D.W., Kanyundo, A.J. and Abdullah, H.L. The media frenzy in Malawi: An opportunity or a challenge for the Anti-Corruption Bureau? Paper presented at the 24th Eastern and Southern Africa Regional Branch (ESARBICA) General Conference held at Bingu wa Mutharika International Conference Centre, Lilongwe, Malawi, 7 to 11 August, 2017.

Dube, G. A. and Kanyundo, A. J. The 21st Century librarian as a leader in information management and information service delivery. Paper presented at the Scecsal XX II Digital Transformation and the changing role of libraries and information Centres in the Sustainable Development of Africa conference held in Swaziland, 25 to 29 April, 2016.

FELIX MAJAWA, MLIS; BA (HRM)

RESEARCH INTERESTS

- Digital Library Management
- Open Access
- Social Media
- Library Disaster Management

Title of Master's Dissertation:

Implementation of Digital Libraries: Case of Bunda College of Agriculture Library.

JOURNAL PUBLICATIONS

Chaputula, A. and **Majawa, F.** (2013), "Use of social network sites (SNSs) by mass media organisations in Malawi", *ASLIB Proceedings*, Vol. 65 No. 5, pp. 534-557.

Majawa, F. and Ngwira, F. (2013), "Koha Library Management System Implementation: Experiences from Mzuzu University Library and Learning Resources Centre", *Malawi Journal of Library and Information Science*, Vol. 1 No. 1, pp.

CONFERENCE PAPERS

Chawinga, W. and **Majawa, F.** Innovativeness amidst the burning of a multimillion USD Library at Mzuzu University: mayhem, interventions and lessons learned. Paper presented at the Libraries in Action: Transformation and Development towards 2030 conference held at the Durban International Convention Centre, South Africa, 10 to 14 October, 2016.

Majawa, F. and Ngwira, F. Data Curation Needs of Researchers at Mzuzu University in Malawi. Paper presented at the Digital Transformation and the Changing Role of Libraries and Information Centres in the Sustainable Development of Africa conference held at the Royal Swazi Su, Ezulwini, Swaziland, 25 to 29 April, 2016.

Majawa, F. P. Funding for Digital Libraries in Malawi. Paper presented at the Strategic Framework and Action Roadmap for Africa's Digital Libraries & Archives conference held at the University of Ghana, 27 to 29 May, 2015.

Majawa, F. and Uta, J. J. Perceptions and Attitudes of Mzuzu University Academic Staff Towards the Open Access Initiative. Paper presented at the Open Access Publishing and Digital Scholarship conference held in Gaborone, Botswana, 6 to 7 November, 2014.

Majawa, F. Implementation and Usage of Digital Libraries: A case study of Bunda College of Agriculture Greenstone Digital Library in Malawi. Paper presented at the Digital Libraries and Archives in Africa: Changing Lives and Building Communities conference held at the Al Akhawayn University, Ifrane, Morocco, 27 to 31 May, 2013.

LIZZIE MALEMIA, MLIS; BSc (Ed)

ORCID ID: 0000 0001 8946 5952

RESEARCH INTERESTS

- Information Behaviour
- Information Literacy

Title of Master's Dissertation:

The use of electronic journal articles by academics at Mzuzu University, Malawi.

JOURNAL PUBLICATIONS

Malemia, L. (2014), "The Use of Electronic Journal Articles by Academics at Mzuzu University, Malawi." *Library Philosophy and Practice*, (e-journal). Paper 1097.

CENTRE FOR OPEN AND DISTANCE LEARNING

The Centre for Open and Distance Learning (CODL) was established in July 2006 to plan, prepare and coordinate the offering of programmes through the open and distance learning mode. CODL aims at broadening access to tertiary education by giving an opportunity to school leavers who qualify for tertiary education but cannot be absorbed into the residential and face-to-face delivery mode of learning.

VISION

To increase and broaden access to quality tertiary education in order to create an open, inclusive and informed society necessary for engaging with the numerous development challenges of Malawi.

MISSION

To offer quality tertiary education, training, research and outreach; and professional development programmes to a wider population in Malawi, while at the same time responding to changing needs and emerging issues as ushered in by a rapidly changing society.

RESEARCH ACTIVITIES

Members of staff at CODL are involved in research activities that focus on the following thematic areas: Use of technology in open and distance learning, access to tertiary education in Malawi, inclusive and girls' education, learning difficulties, and ODL support systems.

MACKENZIE CHIBAMBO, MA; B Ed

RESEARCH INTERESTS

- Open and Distance Learning and E-learning
- Business Models
- Creative Writing
- Publishing for Social Changes
- Inclusive and girls' education

Title of Master's Dissertation:

How Best to Support ODL Students Who Have No Access to Textbooks

BOOK PUBLICATIONS

Chibambo, M.I. (2014) *The Senior Secondary English Grammar and Language*, North Charleston: CreateSpace.

Chibambo, M.I. (2013) *Nkhokwe ya Malamulo Msukulu za Sekondale*, 3rd edition, Blantyre, Malawi: CLAIM Mabuku

Chibambo, M.I. (2012) *The New Schools English Language and Grammar*, England: Rare Publications.

JOURNAL PUBLICATIONS

Chibambo, M.I. and Kondowe, W. (2017), "Are peerless e-resources any better tools for supporting students in open and distance learning environments than the more traditional tools? The case of Mzuzu University, Malawi", *Researchers World Journal of Arts, Science and Commerce*, Vol. 8 No. 3, pp. 126-138.

Chibambo, M.I. (2016), "Take It or Leave: Agile/Novelty Business Models and Value Addition in The Publishing Sector and Forces Impacting on these Models", *Journal of Arts, Science & Commerce*, Vol. 7 No. 3, pp. 1-16.

Chibambo, M.I. (2016), "Scurrying for a successful open and distance learning model in Malawi: Prevalent issues and trends." *Journals of Arts, Science and Commerce*, Vol. 2 No. 4.1, pp. 8-21.

CONFERENCE PAPERS

Chibambo, M.I. Innovations in Book Publishing. Paper presented at the role of the internet, clouds and networking conference held in Pretoria, 27 to 29 May, 2017.

Chibambo, M.I. The Book History and Print Culture. Paper presented at The Book as a tool for change conference held at the University of Pretoria on 23 May, 2016.

Chibambo, M.I. The Cambridge International Conference on Open and Distance Learning. Supporting learning in the digital age: rethinking inclusion, pedagogy and quality conference held at the Von Hgel Institute, St Edmund's College, Cambridge, 22 to 25 September, 2009.

FRED GENNINGS WANYAVINKHUMBO MSISKA, PhD; M Ed; B Ed

RESEARCH INTERESTS

- Quality assurance in higher education.
- Teaching and learning in large classes
- Student support in open, distance and e-learning delivery mode
- Management of higher education institutions

Title of PhD Thesis:

A Study of the School Leaver Unemployment Problem in Malawi

Title of Master's Dissertation:

Education and Rural Development in Malawi

BOOK CHAPTERS

Msiska, F. G. W. (2007), "The Brain Drain-Gain, Quality of Higher Education and Development in Malawi", in E-Book of Proceedings of Development's Futures Conference, 24 – 25 November 2007, Galway, Ireland: National University of Ireland.

Msiska, F. G. W. (2006), "From Faculty to School of Education: The Process and Politics of Organization Development", in Fremerey, M. Amini, S. and Wesseler, M. (Eds.) *Promoting Relevance & Quality in International Higher Education*, Witzenhausen: Institute for Socio-Cultural Studies, pp 335-348.

Msiska, F. G. W. (2006), "Higher Education and Development in Developing Countries: A Conceptual Guide for Academics and Decision Makers", in Fremerey, M. and Pletsch-Betancourt, M. (Eds.), *Prospects of Change in Higher Education: Towards New Qualities & Relevance*, Frankfurt am Main/London: IKO-Verlag für Interkulturelle Kommunikation, pp. 231 – 252.

Msiska, F. G. W. (2005), "Challenges and Prospects of Quality Higher Education in the University of Malawi: The Case of Chancellor College", in Amini, S. Fremerey, M. Wesseler, M. (Eds.), *Towards a Shared Vision for Higher Education: Cross-Cultural Insights and Projects Vol. 1V*, Witzenhausen: Institute for Socio-cultural Studies, pp. 227 – 238.

Msiska, F. G. W. (2000), "Education, Leisure and Cultural Activities" in *DCHR, A Source Book on Children's Rights in Malawi*, Copenhagen: Danish Centre for Human Rights, (Printed in Malawi by Malawi Human Rights Resource Centre, Lilongwe) pp. 85 - 102.

Ali, M. with Phiri, J. S. Kaunda, D. and Msiska, F. G. W. (2000), "Child Abuse" in *DCHR, A Source Book on Children's Rights in Malawi*, Copenhagen: Danish Centre for Human Rights, (Printed in Malawi by Malawi Human Rights Resource Centre, Lilongwe) pp. 63 - 84.

Msiska, F.G.W. (1998) "Education and Rural Development: Exaggerated Causality?" in Nwomonoh, J. (Ed.), *Education and Development in Africa: A Contemporary Survey*, Bethesda/London/San Francisco: International Scholars Publications. pp. 287 – 302.

BOOK REVIEWS

Msiska, F. G. W. (1998) Review of Maria d'Engelbronner-Kolf (1998) *The Provision of Non-formal Education for Human Rights in Zimbabwe*, Harare, SAPES Books, pp. 1 - 143. *Southern African Political and Economic Monthly*, Vol. 2 No. 12, pp. 55 - 56.

Msiska, F. G. W. (1999) Review of Ann Cotton and Richard Synge (eds) (1998) *Cutting the Gordian Knot: The Benefits of Girls' Education in Sub-Saharan Africa*, Cambridge: CamFed, pp. 1 - 135. *Southern African Political and Economic Monthly*, Vol. 12 No. 8, pp. 63 - 64.

Msiska, F. G. W. (1999) Review of Siyakwaza, B. J. and Siyakwaza, P. D. (1999) *Strategies in Teaching and Learning*, Harare: SAPES Books. *Southern African Political and Economic Monthly*, Vol. 13 No. 3, pp.61 - 62 & 64.

Msiska, F. G. W. (2000) Review of Negash, Tekeste (1996) *Rethinking Education in Ethiopia*, Nordiska Afrikainstitutet, Uppsala. *Southern African Political and Economic Monthly*, Vol. 13 No. 7, pp. 49- 51.

Msiska, F. G. W. (2015) *Education, learning, training: Critical issues for Development* by Gilles Carbonnier, Michel Carton and Kenneth King (Eds.). Brill-Nijhoff, Boston and the Graduate Institute, Geneva, 2014, 218 pp. International Development Policy, vol. 5. ISBN 978-900428114-1 (hbk), ISBN 978-9004-28115-8 (eBook). *International Review of Education*, Vol. 61 No. 5, pp. 713-716.

Msiska, F. G. W. (2016) *Regulating private tutoring for public good: Policy options for supplementary education in Asia* by Mark Bray and Ora Kwo. Comparative Education Research Centre (CERC) Hong Kong, in collaboration with the United Nations Educational, Scientific and Cultural Organization (UNESCO), 2014, 93 pp. CERC Monograph Series vol. 10, ISBN 978-988-17852-9-9 (pbk). *International Review of Education*, Vol. 62, pp.1 – 3.

Msiska, F. G. W. (2016) *Unleashing the potential: transforming technical and vocational education and training* by P. T. M. Marope, B. Chakroun and K. P. Holmes. UNESCO, Paris, 2015, 225 pp. Education on the move series. ISBN 978-92-3-100091-1 (pbk and open access PDF). *International Review of Education*, Vol. 62, September 3, E-journal, DOI 10.1007/s11159-016-9589-y.

Msiska, F. G. W. (2017) *Recognition of prior learning: Research from around the globe* Edited by Per Andersson, Andreas Fejes and Fredrik Sandberg. Milton Park, Routledge, 2016, 171 pp., ISBN 978-1-13895502-8 (hbk). *International Review of Education*, Vol. 63 No. 1, pp. 133-336.

Msiska, F. G. W. (2017) *Achieving Education for All: Dilemmas in System-Wide Reforms and Learning Outcomes in Africa* Edited by Munene, Ishmael I. (Ed.) (2016) Lanham/Boulder/New York/London: Lexington Books, 243pp, ISBN 9781498515245 (hbk), ISBN 9781498515252 (Electronic). *International Review of Education*, Vol. 63 No. 6, pp.945-948.

Msiska, F. G. W. (2018) *Exploring Adult Literacy and Numeracy Practices: Ethnographic Case Studies from Uganda*. Edited by Openjuru George, Bkaer Dave, Rodgers Alan and Street Brian (2016), Bury St Edmunds: Uppingham Press, 125pp, ISBN 978-0-9542114-1-7 (p-bk), *International Review of Education*, Vol. 63 No. 7, pp. 1-3.

JOURNAL ARTICLES

Msiska, F. G. W. (2013), "Quality Higher Education in Malawi: Challenges, Prospects and the Role of Quality Assurance", *Education and Society in Southern Africa*, Vol. 1 No. 1, pp. 1-32.

Msiska, F. G. W. (1998), "Other Opinions Regarding a Feasible Education System in Malawi", *TIZAME*, No. 6, pp. 11 - 16.

Msiska, F. G. W. (1997), "The Place of Higher Education in Malawi's Development Endeavours", *Canadian and International Education*, Vol. 26 No. 2, pp. 71 - 80.

Msiska, F.G.W. (1994), "School Leaver Unemployment Problem in Malawi: Some Possible Explanations", *TIZAME*, No.4, pp 1-10.

Msiska, F.G.W. (1994), "Some Practical Limits of Curriculum Vocationalization as a Remedy to School Leavers' Unemployment: Focus on Malawi", *International Review of Education*, Vol. 40 No. 2, pp 135-148.

Msiska, F.G.W. (1994), "Primary School Curriculum Change in Malawi: Old Wine in New Bottles?", *Tonota Journal of Education*, Vol. 2 No. 1, pp 25-35.

Msiska, F.G.W. (1992), "A Study of the School Leaver Unemployment Problem in Malawi", *International Journal of Education Development*, Vol. 12 No.1, pp 75-76.

CONFERENCE PAPERS/PROCEEDINGS

Msiska, F. G. W. Open, Distance and E-Learning in Malawi: Lessons from Eastern, Southern and Western Africa. Paper presented at a conference held at Livingstonia Beach Hotel, Salima, Malawi from 15 to 16 February 2017.

Msiska, F. G. W. Higher Education and Development: Policy Options and Practical Dissonances. Keynote Address at International Conference on The Role of Educational Foundation Studies in Building Sustainable Education Systems and Development held at Chancellor College, University of Malawi, Zomba, Malawi from 25 to 27 July 2016.

Msiska, F. G. W. (2015) Use of Distance Education for Teacher Training and Development in Malawi: Models, Practices, and Successes in Distance Education and Teacher Training in Africa (DETA 2013) Conference Proceedings, Nairobi: University of Nairobi, pp.61 – 76.

Msiska, F. G. W. Open, Distance and E-learning in Malawi: Technologies Used, Successes and Challenges. Paper Presented at Distance Education Association of Southern Africa (DEASA) Conference: Strengthening Collaboration in Open and Distance Learning for Development in SADC Region held in Gaborone, Botswana from 20 to 22 September 2013.

Msiska, F. G. W. Challenges of Institutionalising Quality Assurance System in African Higher Education. Paper Presented at Quality Assurance in Higher Education conference held at the Southern Sun Hotel, OR Tambo International Airport, Johannesburg, South Africa from 23 to 25 November 2011.

Msiska, F.G.W. Higher Education and Sustainable Development in Developing Countries. Paper presented at International Conference on Mzuzu University held in 1996.

Msiska, F.G.W. Education and Rural Development in Malawi: The Exaggerated Casualty? Paper presented at Conference on University Research and Development No. 4 held in Mangochi, Malawi from 17 to 20 July, 1995.

Msiska, F.G.W. "Primary School Curriculum Change in Malawi: Old Wine in New Bottles?" Paper presented at Conference on University Research and Development held at Mulangeni Holiday Resort, Mangochi, Malawi from 5 to 8 April 1994.

Msiska, F.G.W. (1993) with Chimombo, J.P.G. "Evaluation Report of Conference on University Research and Development No.2". Zomba, University of Malawi.

Msiska, F.G.W. School Leavers' Skewed Occupational Preferences and Choices and Their Unemployment in Malawi. Paper presented at a Conference on University Research and Development held at Bunda College of Agriculture, University of Malawi from 6 to 10 April 1992.

Msiska, F.G.W. (1992) with Chiotha, S.S. "Evaluation Report of Conference on University Research and Development No. 1". Zomba, University of Malawi.



About the editor

Aubrey Harvey Chaputula (PhD) is a practicing Librarian and an academic. He received his Doctoral Degree in Information Science from the University of Kwazulu-Natal in 2017; Master of Library and Information Science from the University of Botswana in 2009; and Bachelor of Arts degree in Education from Mzuzu University in 2003. He has worked for Mzuzu University Library and Learning Resources Centre since 2005. During this period, he has served in a number of positions: Assistant Librarian (Acquisitions) [2005 - 2007]; Assistant Librarian (Readers Services) [2007 - 2013]; and Senior Assistant Librarian (Readers Services) [2013 - Present]. Dr. Chaputula is also an adjunct member of staff in the department of Library and Information Science at Mzuzu University since 2009. He is also a seasoned researcher who has published widely in Emerald and Sage journals. He has also presented a number of conference papers both locally and internationally, and is an active member of the Malawi Library.



Mzuni Publication