



THE COPPERBELT UNIVERSITY



2ND SESSION OF THE

32ND *Graduation Ceremony*

DATE: 13TH DECEMBER 2024 VENUE: RIVERSIDE CAMPUS TIME: 07:30HOURS

THEME: ACADEMIC EXCELLENCE THROUGH INCLUSIVE INNOVATION

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GUEST OF HONOUR

PROGRAMME FOR THE 2ND SESSION OF THE 32ND GRADUATION CEREMONY

13th December, 2024

- 1.0 08:00 HOURS All invited guests shall be seated.
2.0 09:00 HOURS All standing, the Chancellor's procession shall enter the forum in the following order:

Mace Bearer
Members of the Academic Staff of The University
Members of the University Senate
Professors, Deans of Schools and Directors of Units
Registrar
Deputy Vice – Chancellor
Vice – Chancellor
Guest of Honour
Chancellor

- 3.0 When the Chancellor has reached his place at the Graduation Forum, the National Anthem Shall be sung. Thereafter, the assembly shall be seated.
4.0 The University Chaplain shall move to the dais and offer an Opening Prayer.
5.0 The Chancellor shall constitute the Assembly as the 2nd Session of the 32nd Graduation Ceremony of the Copperbelt University.
6.0 The Vice - Chancellor shall deliver his address.
7.0 The Chancellor shall deliver his address.
8.0 The Guest of Honour shall deliver the Keynote Address.
9.0 A Graduand shall deliver the Vote of Thanks.
10.0 Commencement of conferment of Certificates, Diplomas and Degrees.
10.1 The Graduates shall take their oaths.
10.2 Awards shall be presented to Best Graduating Students.
10.3 The Deans/Director shall present candidates from each school/Directorate to the Chancellor.
10.4 The Chancellor shall confer Certificates, Diplomas and Degrees on Graduands.
11.0 All standing, the Chancellor shall dissolve the Assembly of the 2nd Session of the 32nd Graduation Ceremony of the Copperbelt University.
12.0 The Chaplain shall offer a Closing Prayer.
13.0 The National Anthem shall be sung.
14.0 The Chancellor's Procession shall exit the Graduation Forum while the CBU Choir sings Gaudeamus Igitur



THE COPPERBELT UNIVERSITY

LEARNING, RESEARCH
AND INNOVATION THAT

MATTERS

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CBU is a TIER 1 public university established in 1987. Its core mandate include teaching, research, community service, innovation and industrialization. The University offers diverse disciplines of study in over 100 programmes leading to Diplomas, Bachelors, Masters and PhD level

CBU is classified in the TIER 1 of the Zambia Qualifications Framework 10 by the Higher Education Authority

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THE DEAN FOR THE SCHOOL OF GRADUATE STUDIES PROF. T. K. TAYLOR SHALL PRESENT TO THE CHANCELLOR CANDIDATES FOR THE AWARD OF:

DOCTOR OF PHILOSOPHY IN

1.	Susan	Mwelwa	Female	Biology
2.	Tumikia Raphael	Sanga	Female	Biology
3.	Mwaba	Sifanu	Female	Chemistry
4.	Bitwell	Chibuye	Male	Chemistry
5.	Mary	Mambwe	Female	Chemistry
6.	Justina	Mulenga	Female	Mathematics
7.	Dinah	Mwanza	Female	Natural Resources Management
8.	Christopher	Mulwanda	Male	Natural Resources Management



DOCTOR OF PHILOSOPHY IN CHEMISTRY

BITWELL CHIBUYE -

THESIS TITLE: "A Study on Phytochemical Profiling, Polyphenolic Content, Antioxidant, Antibacterial, Metal, and In Silico Molecular Docking Analysis of Four Medicinal Plants in Zambian Mining Region,"

PhD graduation citation for Bitwell Chibuye

The Copperbelt University proudly confers the degree of Doctor of Philosophy in Chemistry upon Bitwell Chibuye, who commenced his PhD studies in 2020. Mr. Chibuye's rigorous research in the field of Organic Chemistry culminated in a remarkable thesis entitled "A Study on Phytochemical Profiling, Polyphenolic Content, Antioxidant, Antibacterial, Metal, and In Silico Molecular Docking Analysis of Four Medicinal Plants in Zambian Mining Region." His extensive laboratory work and chemical analyses, conducted at the University of the Witwatersrand in South Africa, have significantly contributed to the advancement of our understanding of medicinal plants utilized in mining regions.

Mr. Chibuye's scholarly contributions are showcased in several noteworthy publications. His research highlights the determination of metals in *Diplorhynchus condylocarpon* using ICP OES and health risk assessments (Chibuye et al. 2024). He has also enriched the literature with his explorations into the metabolite profiling and phytochemical studies of *Entandrophragma devevayi* (Chibuye et al., 2024), *Diospyros batokana* (Chibuye et al., 2023), *Diplorhynchus condylocarpon* (Chibuye et al., 2023), and a comprehensive molecular analysis aimed at discovering anti-inflammatory drug candidates from *Diospyros batokana* (Chibuye et al., 2024). Moreover, his investigations into the phytochemical profiling and bioactivity of *Adenia panduriformis* using advanced analytics demonstrate his commitment to sustainable chemistry practices (Chibuye et al., 2024). His review of extraction techniques for phytochemicals has also garnered attention for its relevance and application in the field (Chibuye et al., 2023).

The successful completion of this endeavor would not have been possible without the guidance of his main supervisor, Prof. Indra Sen Singh, co-supervisor Prof. Kakoma Kenneth Maseka, and external co-

supervisor Prof. Luke Chimuka, from the University of the Witwatersrand. Their expert mentorship has been invaluable throughout his research journey. Additionally, Mr. Chibuye acknowledges the financial and institutional support provided by The Copperbelt University - African Centre of Excellence in Sustainable Mining (CBU - ACESM), the University of the Witwatersrand, Mukuba University, and the Ministry of Education of the Republic of Zambia.

Today, as Bitwell Chibuye joins the esteemed ranks of scholars within the realm of Chemistry, we reaffirm the conferment of the Doctor of Philosophy degree, celebrating his significant academic achievements and contributions to the scientific community. We look forward to the impact his work will have on both local and global scales in the years to come.

Publications resulting from Chibuye Bitwell's PhD work:

- 1) Chibuye, B., Singh, I. S., Subbaiya, R., Maseka, K. K. (2024). Natural antioxidants: A comprehensive elucidation of their sources, mechanisms, and applications in health, *Next Research*, Volume 1, Issue 2, 2024. ScienceDirect. <https://doi.org/10.1016/j.nexres.2024.100086>.
- 2) Chibuye, B., Singh, I. S., Chimuka, L., Mokgaetji, M., & Maseka, K. K. (2024). Determination of metals in *Diplorhynchus condylocarpon* (Müll. Arg.) Pichon (Apocynaceae) using ICP OES and health risk assessment. *Toxicological & Environmental Chemistry*, 1–26, Taylor and Francis. <https://doi.org/10.1080/02772248.2024.2419088>
- 3) Chibuye, B., Singh, I. S., Chimuka, L., & Maseka, K. K. (2024). Metabolite profiling, phytochemical studies, heavy metal determination and health risk assessment of *Entandrophragma devevayi* De Wild in Zambia. *South African Journal of Botany*, 127, ScienceDirect. <https://doi.org/10.1016/j.sajb.2024.07.053>

- 4) Chibuye, B., Singh, I. S., Chimuka, L., & Maseka, K. K. (2024). In silico and ADMET molecular analysis targeted to discover novel anti-inflammatory drug candidates as COX-2 inhibitors from specific metabolites of *Diospyros batokana* (Ebenaceae). *Biochemistry and biophysics Reports*, 39, ScienceDirect. <https://doi.org/10.1016/j.bbrep.2024.101758>
- 5) Chibuye, B., Singh, I. S., Chimuka, L., & Maseka, K. K. (2024). Phytochemical profiling and bioactivity study of *Adenia panduriformis* in Zambia using UHPLC-MS/MS-MZmine3, GNPS, and METLIN Gen2. *Scientific African*, 24, ScienceDirect. <https://doi.org/10.1016/j.sciaf.2024.e02151>
- 6) Chibuye, B., Singh, I. S., Chimuka, L., & Maseka, K. K. (2023). A review of modern and conventional extraction techniques and their applications for extracting phytochemicals from plants. *Scientific African*, 19, ScienceDirect. <https://doi.org/10.1016/j.sciaf.2023.e01585>
- 7) Chibuye, B., Singh, I. S., Chimuka, L., & Maseka, K. K. (2023). UHPLC-MS/MS phytochemical screening, polyphenolic content and antioxidant potential of *Diplorhynchus condylocarpon* (Müll.Arg.) Pichon (Apocynaceae), a medicinal plant. *Scientific African*, 20, ScienceDirect. <https://doi.org/10.1016/j.sciaf.2023.e01712>
- 8) Chibuye, B., Singh, I. S., Chimuka, L., & Maseka, K. K. (2023). Phytochemical and LCMS/MS Screening, Total Phenolic and Flavonoid Content and Antioxidant Activity of the Leaves of *Diospyros batokana* (Ebenaceae). *Systematic Reviews in Pharmacy*, 14(2), 105-112. <https://doi.org/10.31858/0975-8453.14.2.105-112>

DOCTOR OF PHILOSOPHY IN CHEMISTRY

MARY MAMBWE -

THESIS TITLE: The feasibility of using locally available clay inorganic materials in the photochemical oxidation of oil waste and spillage: A case study of Mopani Copper Mines.

Short Bios

Mary Mambwe is a PhD candidate in Chemistry at the Copperbelt University, Zambia. Her broad research interests are environmental remediation technologies using natural materials. Her doctoral work at the Copperbelt University assessed the feasibility of using locally available clay inorganic materials in the photochemical oxidation of oil waste and spillage: A case study of Mopani Copper Mines. Mary holds a Master's degree in Chemistry Education from The Copperbelt University and a Bachelor's degree from Mukuba University.

Her research focused on soil pollution from oil contamination as being among the environmental and ecological challenges of mining activities. The toxicity of these hydrocarbons makes it difficult for agricultural activities to thrive in such soils. Photochemical oxidation is one of the remediation techniques that can effectively remediate oil-

contaminated soil. Currently, the mines use bioremediation, a much slower process to redress oil-contaminated soil.

Our nation needs to build up long-term strategies by developing local materials for use in adsorption and photo-catalysis to mitigate soil pollution from oil waste originating from mining activities. The use of local materials significantly cuts the cost of using expensive commercial nanomaterials. It is necessary to develop applied nano-chemistry as a homegrown and eco-friendly technology that is consistent with sustainable development so that the environment is preserved and impairment of human health, settlements as well as ecosystems, are prevented.



DOCTOR OF PHILOSOPHY IN NATURAL RESOURCES MANAGEMENT

DINAH MWANZA -

THESIS TITLE: The extent of changes in traditional governance structures and community resource management in the advent of climate change in Lufwanyama (Copperbelt) and Chisamba Districts (Central province) of Zambia.

Dinah Mwanza is a PhD candidate in Natural Resources Management at the Copperbelt University, Zambia. Her broad research interests include rural land governance and tenure, climate change, and biodiversity sustainability. Her doctoral work at the Copperbelt University, investigated the extent of changes in traditional governance structures and community resource management in the advent of climate change in Lufwanyama (Copperbelt) and Chisamba Districts (Central province) of Zambia. Dinah holds a Master's degree in Natural Resources Management from the Copperbelt University, Bachelor of Arts degree in Education from the University of Zambia, Diploma in Education from Kwame Nkrumah College of Education, Certificate in Education from Mufulira Teacher's College and Certificate in Geographical Information and Remote Sensing from Orbital Africa, Kenya.

Abstract

Dinah investigated the extent of change in traditional governance structures and community resource management in the advent of climate change in Chamuka and Shimukunami Chiefdoms of Zambia

using an interdisciplinary approach. Her study contends that access to informal land documents had improved rural land management and increased individual tenure security but insignificantly on the household's coping strategies for the effects of climate change. Her study recommends the need for the Central government and local authorities to recognise customary natural resource certification within a broader context of governance. Further, there is a need for international and national effective policy formulation and legislation that aims to increase local tenure rights, rural development and mitigate the effects of climate change.

DOCTOR OF PHILOSOPHY IN MATHEMATICS

JUSTINA MULENGA -

THESIS TITLE: PhD thesis was focused on the investigation into semi-analytical methods for solving differential equations



Justina Mulenga was born on 20th September, 1970 in Kitwe district. She started school at Bupe primary school in 1977 and moved to Ndeke secondary school from 1983 to 1988 for her secondary education. In 1990, she went to train as a secondary school teacher at the Copperbelt Secondary Teachers College, now Mukuba University. In 1999, she enrolled at the University of Zambia and graduated with a Bachelor of Education (Secondary) in 2005. In 2011 she graduated with a master of arts degree in population studies from the University of Zambia. In 2012, she obtained a master of science degree in mathematical modelling from the University of Dar es Salaam under the NOMA scholarship. She taught at Ndeke secondary school, Roan Antelope secondary school and Munali boys secondary school. From 2012 to date, she has been lecturing in the school of mathematics and natural sciences at the Copperbelt University.

Her PhD thesis was focused on the investigation into semi-analytical methods for solving differential equations. Differential equations are essential tools to model a wide variety of physical phenomena across all areas of applied sciences and engineering. There are linear and nonlinear differential equations. When the differential equations are nonlinear, there are no general techniques of solutions. However, numerical methods are used to study and understand the quantitative behavior of the nonlinear differential equation with unknown exact solutions. But such methods can exhibit numerical instabilities, oscillations or false equilibrium states. In the recent years, there has been the introduction of semi-analytical methods that are used to solve linear and

nonlinear differential equations. It is well known that these methods avoid linearization and provide an efficient numerical solution with high accuracy.

Among the semi-analytical methods investigated in the study is the Modified Adomian Decomposition Method (MADM). The MADM is a modification of the Adomian Decomposition Method (ADM). The MADM was studied and applied to Korteweg- de Vries equations, telegraph equations, wave equations, the nonlinear advection and the Sine-Gordon equations. Furthermore, the MADM was employed to solve fourth-order parabolic equations Burger and heat equations. We applied the MADM to the system of linear and nonlinear ordinary differential equations arising from the model of COVID-19. The solutions were compared with the ADM solutions and the MADM and ADM solutions were in good agreement. Both the MADM and the ADM, however are restricted to solving differential equations with Dirichlet conditions and Cauchy boundary conditions. To overcome this demerit, we modified the MADM by introducing the inverse operator theorem. This led to variations in the component form of the MADM and to a new method called New Modified Adomian Decomposition Method (NMADM). The NMADM was applied to second order differential equations with Neumann boundary conditions. The results obtained confirmed with solutions from literature.

DOCTOR OF PHILOSOPHY IN CHEMISTRY

MWABA SIFANU - BSc (UNZA), MSc. Chemistry Ed (CUBU)

THESIS TITLE: Assessing respirable dust and respirable crystalline silica exposure in the Zambian copper mining industry.



Mwaba Sifanu pursued her Doctor of Philosophy (PhD) in Chemistry at the Copperbelt University, Zambia. Sifanu's broad research interest is assessment of chemical substances that workers, in different occupational settings (industries) experience via all routes of exposure. In 2019, Sifanu was awarded a scholarship to pursue a PhD in Chemistry by the Copperbelt University Africa Centre of Excellence for Sustainable Mining.

Sifanu's PhD was motivated by the irony presented by workers in the mining sector succumbing to respirable dust and respirable crystalline silica (RCS) exposure resulting in irreversible health effects such as silicosis and lung cancer. Mining in Zambia has resulted in miners' exposure to respirable dust and respirable crystalline silica but literature on miners' exposure profiles in the country is very scanty and scrappy. The fundamental research gap that the study tried to address was the extent of exposure to respirable dust and respirable crystalline silica across job categories among miners in a Zambian copper mine. The specific objectives for this research were;

1. To review studies conducted on RCS dust exposure and regulated occupational respiratory diseases in the Zambian copper mining sector.
2. To assess the historical respirable dust exposure data collected between 2017 and 2022 in various work areas and job categories at two mining shafts and a concentrator plant of a Zambian copper mine.
3. To assess the influence of knowledge, attitudes, behaviour and practice, and compliance on respirable dust exposure among miners in a Zambian copper mine.
4. To characterize the exposure of workers to respirable dust and RCS in selected work areas of a Zambian copper mine.

To address the aforementioned objectives, the study reviewed studies conducted on RCS dust exposure and regulated occupational respiratory diseases in the Zambian copper mining sector, a literature analysis was conducted using online search engines (Google Scholar, PubMed and Web of Science), governmental

databases and other relevant websites.

It also assessed historical respirable dust exposure measured between 2017 and 2022 in various work areas and job categories at two mining shafts and a concentrator plant of a Zambian copper mine descriptive data analysis such as percentiles were used to create an exposure matrix comprising 253 exposure measurements and the appropriateness of the sampling strategy was also evaluated.

The study also assessed the influence of knowledge, attitudes, behaviour and practice, and compliance on respirable dust exposure among miners in a Zambian copper mine, a cross-sectional descriptive survey using a validated questionnaire was conducted on 528 mine workers. The Statistical Package for Social Sciences (SPSS) was used for the descriptive analysis on the answers from the questionnaire. Structural equation modeling (SEM) with latent variables and partial least squares (LVPLS) analysis were employed to determine the relationship among these variables.

Lastly, the study characterized the exposure of workers to respirable dust and RCS in selected work areas of a Zambian copper mine, the study used a cross-sectional design and collected 100 personal respirable dust exposure samples at a Zambian copper mine in 2023. These samples were gravimetrically analyzed using NIOSH method 0600 and for crystalline silica using Fourier transform infrared spectroscopy (KBr pellet) (NIOSH method 7602).

After analyzing literature on RCS exposure and regulated occupational respiratory diseases, only two studies have reported RCS dust exposure in the Zambian copper mining industry, and seven studies have described the prevalence of related occupational respiratory diseases. The Zambian Ministry of Health reported on only two occupational respiratory diseases: silicosis and TB. Zambia does not have an occupational health policy or programmes that protect workers in dusty operations from exposure and there are no occupational exposure limits (OELs) currently present in Zambian legislation.

With regard to the historical data analysis, the monitoring strategy implemented at the mine did

not collect a sufficient number of samples in each area during each year to make rigorous statistical assessment possible. Some work areas which recorded the highest maximum exposure results were the tipping area (18.0 mg/m³) at shaft A, the sump and waste bin (8.05 mg/m³) at shaft B and the screening (10.8 mg/m³), secondary crusher (14.0mg/m³), foreign ore bin (4.43 mg/m³), and tertiary crusher (5.07 mg/m³) areas at the concentrator plant. Job categories which recorded high exposure were shift boss, shunter and workman. The sampling strategy was evaluated for appropriateness and it was found lacking, therefore, the standardised sampling programme of workplace air monitoring and measurement (EN689) was recommended.

To understand the influence of knowledge, attitudes, behaviour and practice, and compliance on respirable dust exposure among miners in a Zambian copper mine, the study found that there is a significant relationship between the perception of exposure to respirable dust and work behavioral practices, as well as compliance with safety standards. Surprisingly, knowledge and attitudes toward respirable dust exposure did not significantly influence of workers perception of exposure to respirable dust in the same degree as work behavioral practices and the compliance with safety standards.

Lastly workers' exposure to respirable dust and RCS in selected work areas such as the concentrator foreign ore bin, conveyer screening and secondary crusher and tramming at the mining shafts of a Zambian copper mine showed that compared to the median of 0.400 mg/m³ (95th percentile 3.050 mg/m³) for the historic data, the median respirable dust exposure for the 2023 exposure assessment was 0.200 mg/m³ (95th percentile 2.871 mg/m³). Using

EN689, it was discovered that out of 15 work areas, 10 work areas had measurements greater than the occupational exposure limit (legal and statistical non-compliance). The operation of vehicles was identified as high exposure task because of the open windows and lack of air conditioning.

This work represents a first in the use of a standardised sampling strategy in the Zambian mining sector, The monitoring strategy implemented at the studied mine did not collect a sufficient number of samples in each area during each year to make rigorous statistical assessment possible, The study also concluded that positive work behavioral practices and compliance with safety standards are significantly associated with the perception of reduced exposure to respirable dust and that mining companies should encourage these positive attributes during safety talks and supervision of workers. This study has successfully demonstrated that an internationally recognized standard such as the EN689 can be used to determine compliance to exposure limits among Zambian mining work areas. The results of this study will contribute significantly to knowledge of respirable dust and RCS exposure profiles in the Zambian copper mining industry which is relevant to creating standard procedures of measuring exposure concentrations of miners in dusty jobs



DOCTOR OF PHILOSOPHY IN NATURAL RESOURCES MANAGEMENT

MULWANDA CHRISTOPHER -

THESIS TITLE: Investigating the Effects of Heavy Metal Pollution on Insect Pollinator Diversity in Mufulira District of the Copperbelt Province, Zambia: Ecology, Socio-Economic, and Cultural Practices

Mulwanda Christopher, born on February 1, 1986, in Luanshya, Copperbelt Province, Zambia, completed his early education at Kavumbu Primary and Chinakila Basic Schools. He completed his secondary education at Mbala Secondary School in 2006 in Northern Province, Zambia. In 2008, he enrolled at the University of Zambia, and earned a Bachelor of Arts degree in Geography and History in 2012. Christopher pursued a Master's degree in Natural Resources Management at The Copperbelt University. Graduating in 2017, he was honoured as the best graduating student in his cohort. In 2019, Christopher was awarded a prestigious scholarship by the Centre of Excellence for Sustainable Mining to pursue a Doctor of Philosophy (PhD) in Natural Resources Management at the Copperbelt University.

Abstract

Christopher investigated the Effects of Heavy Metal Pollution on Insect Pollinator Diversity in Mufulira District of the Copperbelt Province, Zambia: Ecology, Socio-Economic, and Cultural Practices. The study revealed high heavy metal concentrations in soil samples along a pollution gradient, surpassing World Health Organization standards, particularly within

10 kilometres of the emission source at Mopani Copper Mines. Pollinators consuming contaminated nectar and pollen faced significant risks, potentially disrupting essential ecosystem services, such as crop, fruit and honey production. Christopher also explored the socio-ecological benefits and traditional practices for insect pollinator conservation among the smallholder farmers in Murundu Ward of Mufulira District. The study identified mixed levels of awareness and adoption of traditional conservation practices. His work highlights the urgent need for targeted farmer extension support programs by researchers, Ministry of Agriculture, conservation practitioners and other stakeholders. Christopher's research addresses a critical knowledge gap in pollinator ecology in Sub-Saharan Africa and contributes valuable insights for policy and practice regarding safeguarding biodiversity, enhancing food security and livelihoods. His research outputs have been published in peer-reviewed journals.

DOCTOR OF PHILOSOPHY IN BIOLOGY

SUSAN MWELWA -Bed (Natural Sciences), MSc (Biology education), MSc (Biology)

THESIS TITLE: Influence of heavy metal contamination on edible insects in the mining region of Zambia



Susan Mwelwa is a distinguished scholar and researcher, known for her passion for ecology, biodiversity, and education. She pursued her Doctor of Philosophy in Biology (Biodiversity and ecology) at Copperbelt University between 2019 and 2023.

Born and raised in Chambishi township on the Copperbelt Province of Zambia (dominated by mining activities), Mwelwa developed an early interest in environmental pollution particularly with heavy metals and its impact on food safety and ultimately human health. She pursued her undergraduate studies at Mukuba University, Kitwe, earning a Bachelor of Education in Natural Sciences. She then went to the Copperbelt University where she studied for her Master of Science in Biology Education and later Master of Science in Biology. During her time at Copperbelt University, she engaged in several research studies focused on the effects of environmental pollution on species distribution and abundance and the various responses to pollution across species, laying the groundwork for her future academic pursuits.

Her doctoral research at Copperbelt University broke new ground in the field of Biodiversity and ecology under the mentorship of Dr. Mohanadoss Ponraj, Prof. Donald Chungu, Prof. Frank Tailoka, and Dr. Chrysantus Mbi Tanga, Susan conducted and presented a thesis, titled "Influence of heavy metal contamination on edible insects in the mining region of Zambia". Mwelwa explored the metal concentrations in edible insects along the metal pollution gradient, the potential biotransfer of these metals along food chains, the effects of elevated dietary metal concentrations on insect growth parameters and the effects this could have on the

diversity and abundance of insects in nature.

In addition to her technical expertise, Mwelwa is deeply committed to education and public engagement. She has developed and taught courses in Biology at Mukuba University, Copperbelt University, Mulungushi University, and Rusangu University among other institutions. Teaching methods emphasize experiential learning and interdisciplinary collaboration, which enhance the acquisition of skills and competences relevant to the modern day livelihoods.

Mwelwa's research outputs have been published in reputable high-impact journals, including Science of the Total Environment (<https://doi.org/10.1016/j.scitotenv.2023.163150>), and Data in Brief (<https://doi.org/10.1016/j.dib.2023.109434>). Some of the PhD outputs have also been presented at International conferences including the 2023 Insecta Conference, Tailings 2023 Conference, and the 2024 Insects for the Green Economy Conference (IGEC).

Beyond academia, Mwelwa actively collaborates with industry partners and governmental agencies to promote the sustainable use of insects as food and feed materials as a potential measure to address food insecurity and mitigate ecosystem health problems. In her personal life, Mwelwa is a family woman, has a strong sense of humor and enjoys hiking, watching documentaries, and cooking. She is also dedicated to community service, and working with local environmental organizations to promote conservation and sustainable initiatives.

DOCTOR OF PHILOSOPHY IN BIOLOGY

TUMIKIA RAPHAEL SANGA -

THESIS TITLE: Human Health Risks Associated with Potentially Harmful Elements in Food Crops Around Shenda Gold Mine in Geita, Tanzania and Effects on Vegetables Growth



Tumikia Raphael Sanga is an Assistant Lecturer at Mbeya University of Science and Technology (MUST), Mbeya, Tanzania. She carried out her Master of Science in Biochemistry and Bachelor of Science with Education (Chemistry and Biology) both at Sokoine University of Agriculture (SUA), Morogoro, Tanzania. She has published two papers during her PhD Study. Tumikia's PhD research was entitled 'human health risks associated with potentially harmful elements in food crops around Shenda gold mine in Geita, Tanzania and effects on vegetables growth'. She conducted studies to determine the possibilities of potentially harmful elements released from mining and related activities on the farms in the vicinity of Shenda gold mine. She determined total Hg by Cold Vapor Atomic Fluorescence Spectrometry (CVAFS) by using Total mercury analyzer and Cd by Atomic Absorption Spectrometer (AAS) in soil and food crops. She found that, the accumulation of total Hg and Cd were higher in soils and food crops collected from the sites located near the mining area. Furthermore, the study estimated health risks of Hg and Cd from consumption of food crops grown around Shenda gold mine using the target hazard quotient (THQ). She found that there were no potential non-carcinogenic risks associated with Cd exposure to local residents through consumption of

rice and studied leafy vegetable. It was also found that there were no potential non-carcinogenic health risks associated with Hg exposure to local residents through consumption of studied vegetables. She also found that there were potential non-carcinogenic risks associated with Hg exposure to local residents through consumption of rice grown around the mining area.

In addition, she carried out a pot experiment to investigate the effect of different Cd levels on the growth, production, and uptake of Cd using Chinese cabbage (*Brassica rapa* subsp. *pekinensis*) and pumpkin leaves (*Cucurbita moschata* Duchesne) vegetables. The study revealed that the Cd treatment in soil resulted in the increase of shoot Cd concentration in all the vegetables which affected the normal growth and production of the studied vegetables.

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3.	Mathews		Tembo	Male	Economics
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3.	Mwape	Lugali	Chishimba	Female	
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19.	Hopson		Chisanga	Male	Project Management
20.	Bridget		Kaingu	Female	Project Management
21.	Amos		Kanyemba	Male	Project Management
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37.	Nkandu	Musunga	Female	Project Management
38.	Muwongo	Muwongo	Female	Project Management
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4.	Collins	Mwale	Male	
5.	Catherine	Phiri	Female	
6.	Mutuma	Phiri	Female	
7.	Esnala	Phiri	Female	Credit
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10.	Emmanuel	Makumbi	Male	Credit

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3.	Mathews	Chanda	Male	Credit
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6.	Diana	Gondwe	Female	Credit
7.	Given	Kalawo	Male	
8.	Morris	Kaluba	Male	
9.	Likumbi	Kamanisha	Male	
10.	Regina	Kambewe	Female	Credit
11.	Mwamba	Lupambo	Female	
12.	Duncan	Mulenga	Male	
13.	Kasonde	Mwenya	Male	Credit
14.	Mutale	Ngaba	Male	Credit
15.	Nickson	Ngoma	Male	Credit
16.	Rightson	Nsama	Male	
17.	Norman	Yombwe	Male	Credit
18.	Tikonshenji	Zulu	Female	Merit

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5.	Phebian	Sinkala	Male	Banking and Finance	Credit
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8.	Kelvin	Musonda	Male	Business and Project Management	Merit
9.	Mulenga	Kabomba Songwe	Male	Business and Project Management	
10.	Yona	Kaonga	Male	Economics	
11.	Mercy	Phiri	Female	Economics	
12.	Mapalo	Moonga	Male	Information and Communication Technology with Education	
13.	Ennie	Luzendi	Female	Marketing	
14.	Mubanga	Lwanga	Female	Marketing	Credit
15.	Monde	Lyang'anga	Female	Marketing	Merit
16.	Estella	Chilando Mwansa	Female	Marketing	Merit
17.	Lubinda	Liboma	Male	Purchasing and Supply	Credit
18.	Fenelia	Mampwe	Female	Purchasing and Supply	
19.	Gardner	Muhala	Male	Purchasing and Supply	
20.	Emmanuel	Mwale	Male	Purchasing and Supply	Credit
21.	Vaidah	Nyirongo	Female	Purchasing and Supply	
22.	Diana	Mubanga Chikontwe	Female	Sustainable Natural Resources Management and Climate Change	Credit
23.	Susan	Munsongo	Female	Sustainable Natural Resources Management and Climate Change	
24.	Isabel	Chama Mwandwe	Female	Sustainable Natural Resources Management and Climate Change	Merit
25.	Michael	Mabvuto Nyondo	Male	Sustainable Natural Resources Management and Climate Change	

BACHELOR OF ENGINEERING IN CHEMICAL ENGINEERING

1.	Caren	Bwalya	Female	Credit
2.	Moses	Chabu	Male	Credit
3.	Bethel	Changani	Female	
4.	Mwila	Princess Chewe	Female	Credit
5.	Sunny	Chiluba	Male	
6.	Chewe	Mvula	Male	
7.	Titus	Njobvu	Male	Credit
8.	Rashid	Sakala	Male	Credit
9.	Mululuma	Mulemwa Sikufele	Male	Credit
10.	Njavwa	Silumbwe	Male	
11.	Suwilanji	Simunyola	Male	
12.	Judy	Nakamba	Female	

BACHELOR OF ENGINEERING IN MINERALS ENGINEERING

1. Nason Njovu Male
2. Charles Kisha Kayange Male

BACHELOR OF ARTS IN PEACE AND CONFLICT STUDIES

1. Clement Kibela Male



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THE DEAN FOR THE SCHOOL OF BUSINESS PROF. C. SHIKAPUTO SHALL PRESENT TO THE CHANCELLOR CANDIDATES FOR THE AWARD OF:

BACHELOR OF ACCOUNTANCY

1.	Lisa		Chanda	Female	
2.	Neddy	Kukeng'a	Chaoka	Female	
3.	Gabriel		Chileshe	Male	
4.	Andrew		Chipwalu	Male	
5.	Gracious	Taonga	Chirwa	Female	
6.	Chakopo		Chola	Male	
7.	Nchimunya		Hampongo	Male	
8.	Theresa		Kabwe	Female	Credit
9.	Christine		Kanjele	Female	
10.	Margaret		Lwando	Female	
11.	Esther		Machena	Female	Credit
12.	Moses	Emmanuel	Maseketo	Male	Credit
13.	Dominic		Mikosa	Male	
14.	Mubiana		Mukubuta	Male	
15.	Mukuka		Mulawisha	Female	
16.	Christoher		Mulungwe	Male	Credit
17.	Tumbikani		Mututa	Female	Merit
18.	Sarah		Mwaba	Female	
19.	Boyd		Mwabuka	Male	
20.	Fridah		Mwanza	Female	
21.	Mulambo		Mwanza	Male	
22.	Chiyeeka	Nchimunya	Shamambo	Male	
23.	Herbert		Tembo	Male	

BACHELOR OF BUSINESS ADMINISTRATION

1.	Shepherd		Bwalya	Male	
2.	Fridah		Chansa	Female	Credit
3.	Rodrick		Chewe	Male	
4.	Joseph		Chikwanda	Male	
5.	Ruth	Lucia	Hachimba	Female	Credit
6.	John		Kachiliko	Male	Credit
7.	Kapya		Kanyembo	Male	Credit
8.	Wilson		Lungu	Male	
9.	Mbeo		Mubita	Female	Credit
10.	Sharmene	Bhearty	Mukuni	Female	Credit
11.	Mwamba	Chiti	Musonda	Male	
12.	Martin	Mwamba	Musonda	Male	Credit
13.	Nchimunya		Muzyamba	Female	Credit
14.	Beatrice		Mwansa	Female	
15.	Elizabeth	Silavwe	Mwebela	Female	
16.	Salifyanji		Nambela	Female	Credit
17.	Mayamba		Nkulukusa	Female	
18.	Besa		Nsanje	Female	
19.	Mulima		Simasiku	Female	Credit
20.	Ryan		Tapiseni	Male	Credit

BACHELOR OF ARTS IN HUMAN RESOURCE MANAGEMENT

1.	Mwaba		Chileshe	Male	
----	-------	--	----------	------	--

2.	Joyce	Chipampe	Female	Credit
3.	Eneviah	Milimo	Female	Merit
4.	Tenson	Muhanga	Male	Merit
5.	Muonga	Nakazwe	Female	Credit

BACHELOR OF SCIENCE IN

1.	Nason	Banda	Male	Banking and Finance	Credit
2.	Bupe	Changwe	Male	Banking and Finance	Credit
3.	Patience	Chikombola	Female	Banking and Finance	
4.	Priscovia	Chipamba	Female	Banking and Finance	Merit
5.	Tyson	Gadzika	Male	Banking and Finance	Credit
6.	Wilson	Kalaba	Male	Banking and Finance	
7.	Lebetina	Kanyiki	Female	Banking and Finance	
8.	Levy	Lubinda	Male	Banking and Finance	
9.	Lushomo	Lupumpaula	Female	Banking and Finance	Credit
10.	Mary	Stephen Mbewe	Female	Banking and Finance	
11.	Chisanga	Mubanga	Male	Banking and Finance	
12.	Faith	Mukeya	Female	Banking and Finance	
13.	Meamui	Muzungu	Male	Banking and Finance	Credit
14.	Nkhonjera	William Mwansa	Male	Banking and Finance	Credit
15.	Emmanuel	Nalweendo	Male	Banking and Finance	Credit
16.	Gloria	Nyakuzanga Nkuwa	Female	Banking and Finance	Credit
17.	Innocent	Sampa	Male	Banking and Finance	Credit
18.	Steve	Sibwaalu	Male	Banking and Finance	
19.	Bishem	Singoyi	Male	Banking and Finance	Credit
20.	Mailless	Tembo	Female	Banking and Finance	Merit
21.	Patience	Tumba	Female	Banking and Finance	Credit
22.	Chrispin	Zimba	Male	Banking and Finance	
23.	Phales	Kanyinji	Female	Business and Project Management	
24.	Valentine	Mwangalala Kipeta	Male	Business and Project Management	Credit
25.	Munyemvu	John Mulangi	Male	Business and Project Management	Credit
26.	Sikanyika	Martin Musyani	Male	Business and Project Management	
27.	Banda	Nkhonjera	Female	Business and Project Management	
28.	Daliso	Nkhuwa	Male	Business and Project Management	Credit
29.	Precious	Kupoya	Female	Marketing	Credit
30.	Susan	Kashindi	Female	Marketing	Credit
31.	David	Kawisha	Male	Marketing	Credit
32.	Luke	Jala Mujala	Male	Marketing	Distinction
33.	Victoria	Nachinga Mulenga	Female	Marketing	Credit
34.	Evans	Njapau	Male	Marketing	
35.	Georgina	Mutale	Female	Pensions and Insurance Management	Credit
36.	Clement	Musukwa	Male	Production and Operations Management	
37.	Janet	Muchindu	Female	Public Procurement Management	Credit
38.	Mwansa	Tayengwa	Female	Public Procurement Management	
39.	Peter	Banda	Male	Purchasing and Supply Chain Management	
40.	Nikiwe	Banda	Female	Purchasing and Supply Chain Management	
41.	Angel	Chalinga	Male	Purchasing and Supply Chain Management	
42.	Stanley	Mutale Chanda	Male	Purchasing and Supply Chain Management	Credit
43.	Amanda	Chansa	Female	Purchasing and Supply Chain Management	
44.	Maxwell	Chibanga	Male	Purchasing and Supply Chain Management	Credit
45.	Owen	Chilongo	Male	Purchasing and Supply Chain Management	
46.	Kizito	Chishimba	Male	Purchasing and Supply Chain Management	

47.	Chilala		Hankanga	Female	Purchasing and Supply Chain Management	Merit
48.	Indala	Kay	Kalimukwa	Female	Purchasing and Supply Chain Management	
49.	Kena		Kaoma	Female	Purchasing and Supply Chain Management	
50.	Obrian		Kaoma	Male	Purchasing and Supply Chain Management	
51.	Christabel		Kazembe	Female	Purchasing and Supply Chain Management	
52.	Mbulo	James	Machamanda	Male	Purchasing and Supply Chain Management	
53.	Kapui		Manyando	Male	Purchasing and Supply Chain Management	
54.	George		Mapiki	Male	Purchasing and Supply Chain Management	Credit
55.	Nthombizodwa	Sophie	Matongo	Female	Purchasing and Supply Chain Management	Credit
56.	Sikawala		Milimo	Male	Purchasing and Supply Chain Management	Credit
57.	Moses		Mpundu	Male	Purchasing and Supply Chain Management	Merit
58.	Jeremy		Mutale	Male	Purchasing and Supply Chain Management	
59.	Kaunda		Mwansa	Male	Purchasing and Supply Chain Management	
60.	Meryne		Mwansa	Female	Purchasing and Supply Chain Management	Credit
61.	Justine	Mwansa	Mwewa	Male	Purchasing and Supply Chain Management	Credit
62.	Kasamba		Namakobo	Female	Purchasing and Supply Chain Management	
63.	Lumbwe		Nduba	Male	Purchasing and Supply Chain Management	Credit
64.	Precious		Nkonde	Female	Purchasing and Supply Chain Management	
65.	Thando	Phineas	Phiri	Male	Purchasing and Supply Chain Management	Credit
66.	Chilinda		Chaiwe	Female	Purchasing and Supply Chain Management	Credit
67.	Isaac		Simpamba	Male	Purchasing and Supply Chain Management	
68.	Jeremiah	Kajila	Kamavu	Male	Transport and Logistics Management	
69.	Mutale	Mukuka	Kasuba	Female	Transport and Logistics Management	Merit
70.	Nicholas	Bwanga	Mwewa	Male	Transport and Logistics Management	Credit
71.	Peter	Chaambwa	Namangala	Male	Transport and Logistics Management	Credit



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- Bachelor of Business Administration
- Bachelor of Accountancy
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- Bachelor of Science in Banking and Finance
- Bachelor of Pensions and Insurance
- Bachelor of Science in Transport and Logistics
- Bachelor of Human Resource management
- Bachelor of Science in Purchasing and Supply
- Bachelor of Business and Project Management
- Bachelor of Laws
- Bachelor of Science in Economics
- Bachelor of Science in Computer Science
- Bachelor of Science in Computer Engineering
- Bachelor of Science in Information Technology
- Bachelor of Science in Information Systems
- Bachelor of ICT with Education (Distance)
- Bachelor of Science in Mathematics
- Bachelor of Science in Mathematics Education
- Bachelor of Science in Public Health (distance)
- BSc in Sustainable Natural Resource Management and Climate Change (Distance only)
- BSc in Occupational Health (Distance)

SEMESTER FEES

FULL TIME (DAY)	ZAMBIAN FOREIGN	
Non-Lab based Programmes	K11,400	K17,125
Lab Based Programmes	K14,950	K22,450

EVENING (SEMESTER FEES PER COURSE)

	ZAMBIAN FOREIGN	
Non-Lab based Programmes	K3,300	K4,950
Lab Based Programmes	K4,300	K6,450

DISTANCE (SEMESTER FEES PER COURSE)

Non-Lab based Programmes	K2,000
Lab Based Programmes	K2,500

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50% Fees to be paid at registration and balance to be paid prior to writing exams
NOTE: Students are allowed a maximum of 3 courses per semester (and in exceptional circumstances 4 courses per semester)

THE DEAN FOR THE SCHOOL OF HUMANITIES AND SOCIAL SCIENCES PROF. S KAPENA SHALL PRESENT TO THE CHANCELLOR CANDIDATES FOR THE AWARD OF:

BACHELOR OF SCIENCE IN ECONOMICS

1.	Eneless	Kabunga	Chilala	Female	
2.	Melissa	Chipo	Gunduza	Female	Merit
3.	Samiwe		Kapwasha	Female	
4.	Natasha		Katongo	Female	
5.	Charity	Chisenga	Likowa	Female	Merit
6.	Etambuyu		Lubinda	Female	
7.	Anita		Mazonga	Female	
8.	Shadrick		Mbonile	Male	
9.	Taonga		Mwale	Female	Credit
10.	Roydah		Mwansa	Female	Credit
11.	Nyalala	Christine	Mwilambwe	Female	
12.	Josephine		Ndalima	Female	
13.	Chiphwanya		Phiri	Male	
14.	Ruth		Phiri	Female	
15.	Cecilia		Sakala	Female	Credit
16.	John	Akalani	Salima	Male	
17.	Panji		Simwinga	Male	Credit
18.	Emmanuel		Yumbe	Male	

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BACHELOR OF INFORMATION TECHNOLOGY

- | | | | | |
|----|-----------|-----------|----------|-------------|
| 1. | Lazarus | Chanda | Male | |
| 2. | Kambani | Chipeta | Male | |
| 3. | Masongozi | Geoffrey | Mapanda | Male |
| 4. | Mwelwa | Oscar | Msadabwe | Male Credit |
| 5. | Makungu | | Mtonga | Male Credit |
| 6. | Kennedy | | Mulenga | Male Credit |
| 7. | Millius | Liswaniso | Nkhoma | Male |
| 8. | Salifya | Stephen | Sikwese | Male |

BACHELOR OF SCIENCE IN INFORMATION AND COMMUNICATION TECHNOLOGY WITH EDUCATION

- | | | | |
|----|----------|-------|------|
| 1. | Jeshurun | Sampa | Male |
|----|----------|-------|------|

THE DEAN FOR THE SCHOOL OF MINES AND MINERALS SCIENCES PROF. J. SIAME SHALL PRESENT TO THE CHANCELLOR CANDIDATES FOR THE AWARD OF:

DIPLOMA IN

1. Selina Tandeka Masina Female Mining Engineering

BACHELOR OF ENGINEERING IN

1. Mwamba Faides Nakazwe Female Geomatics Engineering

THE DEAN FOR SCHOOL OF ENGINEERING DR. L. SIWALE SHALL PRESENT TO THE CHANCELLOR CANDIDATES FOR THE AWARD OF:

BACHELOR OF ENGINEERING (HONOURS) IN

- | | | | | | | |
|----|---------|-------|---------|--------|--|--------|
| 1. | Bwembya | Grace | Kalunga | Female | Electrical and Electronics Engineering | Credit |
| 2. | Nathan | | Mwanza | Male | Mechatronics Engineering | Merit |

BACHELOR OF ENGINEERING IN

- | | | | | | |
|----|---------|--|----------|--------|--------------------------|
| 1. | Juliet | | Phiri | Female | Mechatronics Engineering |
| 2. | Dennis | | Samalesu | Male | Mechanical Engineering |
| 3. | Eneless | | Mavuka | Female | Mechanical Engineering |

THE DEAN FOR THE SCHOOL OF NATURAL RESOURCES PROF. F.K. KALABA SHALL PRESENT TO THE CHANCELLOR CANDIDATES FROM THE KAPASA MAKASA UNIVERSITY FOR THE AWARD OF:

BACHELOR OF SCIENCE IN

- Steven Mwenya Male Agroforestry

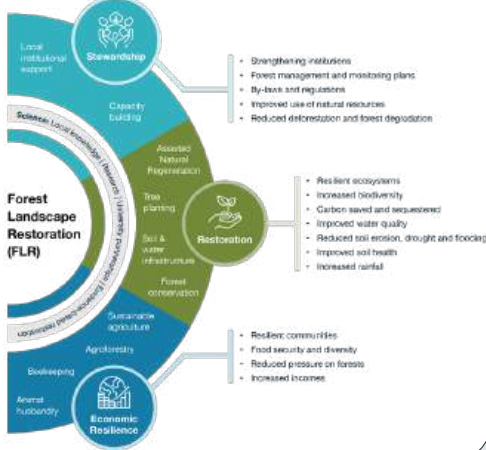


WEFOREST ZAMBIA

People, Nature & Climate



OUR MODEL



OUR PRINCIPLES



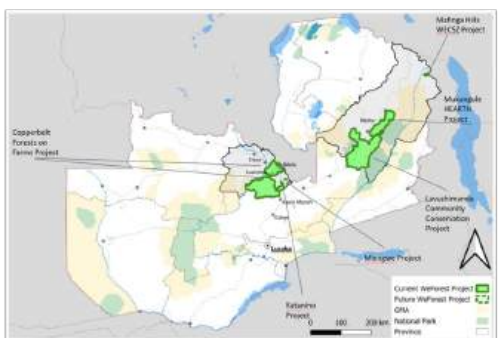
OUR PRACTICES

Forest Conservation & Ecological Restoration
Reducing impact or assist biodiversity recovery



Conservation Agriculture and Agroforestry
Conservation
Sustainable Productive Systems
Forest Friendly

OUR OPERATIONAL AREAS



OUR STEWARDSHIP STORY



OUR RESILIENCE STORY



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Kennedy Mulenga Male Credit

SCHOOL OF BUSINESS

BACHELOR OF ACCOUNTANCY

Tumbikani Mututa Female Merit

BACHELOR OF BUSINESS ADMINISTRATION

Sharmene Bhearty Mukuni Female Credit

BSC. IN BANKING AND FINANCE

Priscovia Chipamba Female Merit

BSC IN PURCHASONG AND SUPPLY CHAIN MANAGEMENT

Moses Mpundu Male Merit

BSC IN BUSINESS AND PROJECT MANAGEMENT

Kipeta Valentine Mwangalala Male Credit

BSC IN TRANSPORT AND LOGISTICS MANAGEMENT

Mutale Mukuka Kasuba Female Merit

BSC IN PUBLIC PROCUREMENT MANAGEMENT

Janet Muchindu Female Credit

BSC IN PENSIONS AND INSURANCE MANAGEMENT

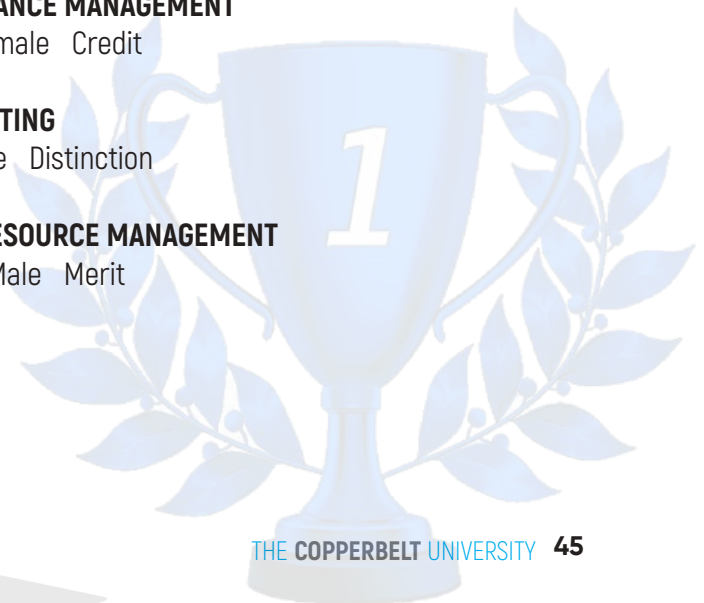
Georgina Mutale Female Credit

BSC IN MARKETING

Luke Jala Mujala Male Distinction

BACHELOR OF ARTS IN HUMAN RESOURCE MANAGEMENT

Tenson Muhanga Male Merit



DIRECTORATE OF DISTANCE EDUCATION AND OPEN LEARNING

BACHELOR OF ARTS IN HUMAN RESOURCE MANAGEMENT

Ivy Siphwe Situmbeko Female Merit

BACHELOR OF ACCOUNTANCY

Tikonshenji Zulu Female Merit

BSC IN MARKETING

Estella Chilando Mwansa Female Merit

BSC. IN BUSINESS AND PROJECT MANAGEMENT

Kelvin Musonda Male Merit

BACHELOR OF SCIENCE IN SUSTAINABLE NATURAL RESOURCES MANAGEMENT AND CLIMATE CHANGE

Isabel Chama Mwandwe Female Merit

SCHOOL OF GRADUATE STUDIES

MASTER OF SCIENCE IN PROJECT MANAGEMENT

John Sapwe Male

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES

BACHELOR OF SCIENCE IN ECONOMICS

Gunduza Melissa Chipu Female Merit



SCHOOL OF MEDICINE GRADUATION OATH

I came to this Medical School as a vocation. I consider all who have taught me this art as my parents, all with whom I learnt it as my brothers and sisters, and the community from which I learnt it as my family.

I have been honest, hardworking and humble in the process of my learning. I pledge to continue in this attitude in my life and practice.

I will distance myself from those habits, hobbies and entertainments that deter from this goal.

In putting on my medical graduation gown I carry on my shoulders all those traditions, practices and standards that are held as the best in this profession. I carry also the reputation and respect of all those health care workers in Zambia and elsewhere who have practiced this art with distinction. Since I have made this pledge I make you this promise.

Having studied in this community, I am a child of this community. Having now completed my training, I will work towards the better health of this community to the best of my skills, conscience and abilities.

I promise to commit myself to teaching this art to others, to lifelong learning, self-improvement by research and a peer based practice.

This is my commitment in good times, in hard times and in bad times. This is my promise before you all and so, **Help Me God.**

GRADUATES' OATH

Hereby, while I am graduating from the Copperbelt University;

I Promise that;

I will protect the value of the Copperbelt University which include accountability, academic integrity transparency, academic excellence and environmental sustainability and inclusiveness and social justice;

I will manage my profession with loyalty and care;

I will not advance my personal interest at the expense of the society;

I will always care for public welfare;

I will apply the laws and contracts that govern my profession;

I will refrain from corruption and unfair competition;

I will protect the human rights while carrying out my work;

I will oppose discrimination and exploitation;

I will protect the right of future generations to advance their standard of living and enjoy a healthy planet;

I will work towards the vision of the Copperbelt University being one of the most preferred oases of knowledge and dynamic centres of excellence in Zambia, Africa and beyond.

I will stay loyal to the laws of the Republic of Zambia and will strive to serve my country to the best of my abilities.

This oath I make freely, and upon my honour.

Zambian National Anthem

Stand and sing of Zambia proud and free
Land of work and joy in unity,
Victors in the struggle for the right,
We've won freedom's fight,
All one, strong and free.

Africa is our own Motherland,
Fashion'd with and blessed by God's good hand,
Let us all her people join as one,
Brothers, under the sun,
All one, strong and free.

One land and one nation is our cry,
Dignity and peace 'neath Zambia's sky,
Like our noble eagle in its flight
Zambia – Praise to thee,
All one, strong and free.

Praise be to God,
Praise be, praise be, praise be,
Bless our great nation,
Zambia, Zambia, Zambia,
Free men we stand,
Under the flag of our land,
Zambia – Praise to thee,
All one, strong and free.

African Union Anthem

Let us all unite and celebrate together
The victories won for our liberation
Let us dedicate ourselves to rise together
To defend our liberty and unity

O Sons and Daughters of Africa
Flesh of the Sun and Flesh of the Sky
Let us make Africa the Tree of Life

Let us all unite and sing together
To uphold the bonds that frame our destiny
Let us dedicate ourselves to fight together
For lasting peace and justice on earth

O Sons and Daughters of Africa
Flesh of the Sun and Flesh of the Sky
Let us make Africa the Tree of Life

Let us all unite and toil together
To give the best we have to Africa
The cradle of mankind and fount of culture
Our pride and hope at break of dawn.

O Sons and Daughters of Africa
Flesh of the Sun and Flesh of the Sky
Let us make Africa the Tree of Life

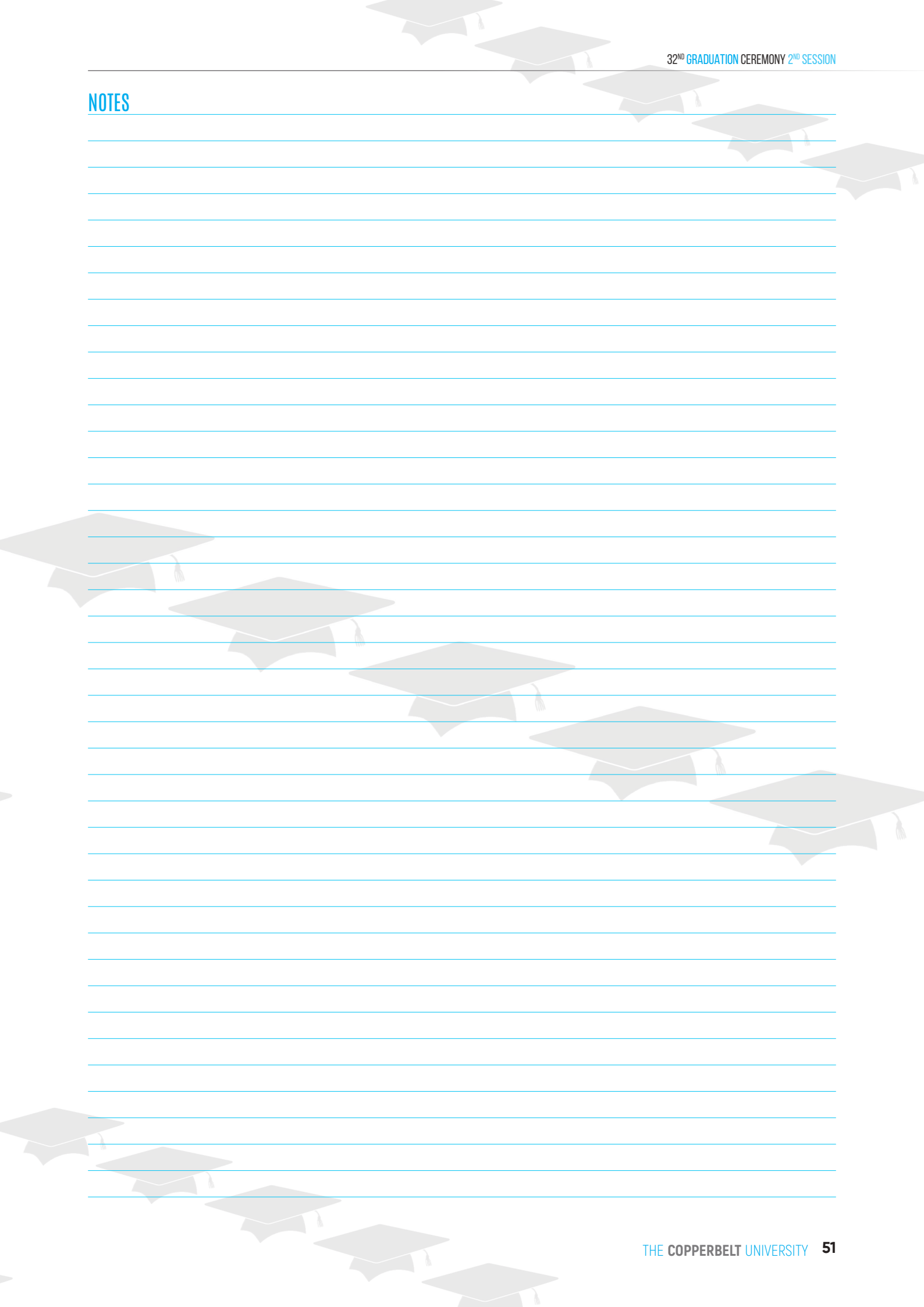
SADC Anthem

SADC, SADC dawn of our certainty
SADC, SADC dawn of a better future
And hope for regional and universal integration
Towards our peoples unity and harmony

Cradle of humanity
Cradle of our ancestors
Let us praise with joy, the realisation of our hopes
And raise the banner of solidarity
SADC, SADC SADC, SADC dawn of our certainty

NOTES

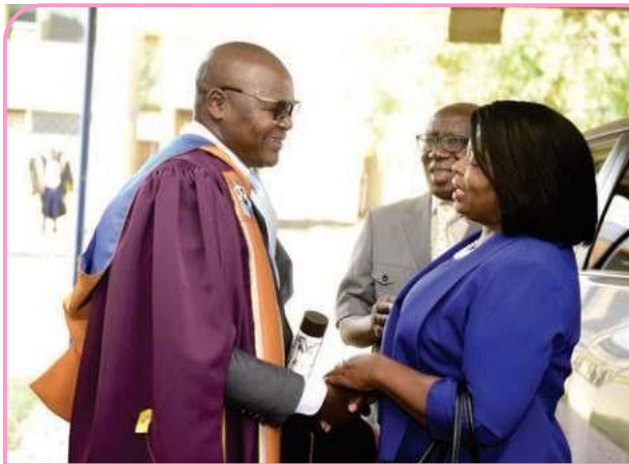
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NOTES

Lined area for notes, featuring horizontal blue lines and decorative graduation cap graphics.





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