



**UNIVERSITY OF ZIMBABWE**

*Educating to Change Lives*

**RESEARCH WEEK 2021**

**Dates: 23 – 27 August 2021**

**VIRTUAL (Zoom links <https://bit.ly/uzresearchweek>, <https://bit.ly/3j23LVA> )**


**THEME: *University of Zimbabwe on the Move: Setting the Pace for Industrialisation and Modernisation with Education 5.0***

**Programme of Event**


**Guest of Honour: Honourable Minister of Higher and Tertiary Education Innovation Science and Technology  
Development – Professor dr. Amon Murwira**







**Directors of Ceremonies - Dr M. Madambi and Mrs N. Kwangwa**


**Research Week Chairman – Professor J. Chifamba**


TIME	SESSION/ACTIVITY	MODERATOR
DAY 1: MONDAY 23 AUGUST 2021: PLENARY		
SESSION ZOOM LINK 		
08.15 – 08.25 Monday	Entertainment	Director of Ceremonies, <b>Dr M. Madambi</b>
08.25 – 08.30 Monday	National Anthem	
08.30 – 08.32 Monday	Announcements and housekeeping	
08.32 – 08.40 Monday	Welcome Remarks by the Chairman of University of Zimbabwe Council, <b>Mrs S. Muzite</b>	Chairman of the Research Week, <b>Prof J. Chifamba</b>
08.40 – 08.50 Monday	Introductory Remarks and Introduction of the Vice Chancellor <b>Prof dr. P. Mapfumo</b> by the Executive Director Research and Innovation <b>Prof F. Mtambanengwe</b>	
08.50– 09:30 Monday	<b>Key Note Address by the Vice Chancellor, Professor dr. P. Mapfumo</b>	
09.30– 09:35 Monday	Introduction of the <b>Guest of Honour</b> Honourable Minister of Higher and Tertiary Education Innovation Science and Technology Development, <b>Professor dr. A. Murwira</b> by the Permanent Secretary of MHTEISTD <b>Professor F. Tagwira</b>	Director of Ceremonies, <b>Dr M. Madambi</b>
09.35 – 10.25 Tuesday	Official Opening of the University of Zimbabwe 2021 Research Week by the Honourable Minister of Higher and Tertiary Education, Innovation, Science and Technology Development, <b>Professor dr. A. Murwira</b>	
10.25– 10:30 Monday	Vote of Thanks, Vice Chairman of Council, <b>Mr D. Hoto</b>	
10.30 – 10.45	<b>HEALTH BREAK - SPONSORS ADVERTS</b>	



### MONDAY MORNING PARALLEL SESSIONS

10:45 - 13:30 Monday	<b>THEME 1: FOOD AND NUTRITION SECURITY, SUSTAINABLE, AGRICULTURAL TECHNOLOGIES</b> Chairperson: Dr J Rurinda	<b>THEME 2: HUMAN AND ANIMAL HEALTH, COVID-19 AND OTHER GLOBAL PANDEMICS, DISASTER PREPAREDNESS</b> Chairperson: Dr N Ndlovu	<b>THEME 3: RENEWABLE ENERGY SOLUTIONS</b> Chairperson: Eng B Nyakutsikwa Rapporteur: Ms Munanga Zoom Link: 	<b>THEME 4: DIGITAL ECONOMY, ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING</b> Chairperson: Dr Ruwa	<b>THEME 2: HUMAN AND ANIMAL HEALTH, COVID-19 AND OTHER GLOBAL PANDEMICS, DISASTER PREPAREDNESS</b> Chairperson: Dr F Kapungu	<b>THEME 2: HUMAN AND ANIMAL HEALTH, COVID-19 AND OTHER GLOBAL PANDEMICS, DISASTER PREPAREDNESS</b> Chairperson: Dr W Mangezi	<b>THEME 10: SOCIAL PROTECTION, IP, ACCESS TO JUSTICE, CONSTITUTIONALISM, PEACE AND RULE OF LAW, AND</b>
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	Rapporteur: Prof E Mutandwa Zoom Link: 	Rapporteur: Prof RBL Zinyama-Gutsire Zoom Link: 		Rapporteur: Ms Tsatsi Zoom Link: 	Rapporteur: Dr E Gori Zoom Link: 	Rapporteur: Dr Taderera Zoom Link: 	INTERNATIONAL ENGAGEMENT Chairperson: Mr Chatsanga Rapporteur: Mr Nkomo Zoom link: 
10.45 – 11.00 Monday	Agronomic characterisation of indigenous <i>Cucumis species</i> in Borrowdale Brook, Zimbabwe <b>Ambayi et al..</b>	Understanding Mental Wellness in a Zimbabwean Setting <b>Banda R.</b>	An Automatic Hybrid Energy System for Industrial or Household Resources Management <b>Bwanali K.and Mahaso N.R.</b>	Electronic procurement as an alternate model for public procurement in Zimbabwe <b>Tsara &amp; Maiwasha</b>	<i>In vitro</i> efficacy of environmentally isolated bacteriophages and endolysin LysECD7 bactericidal activity on infectious bacterial clinical isolates <b>Chari T.A. &amp; Sithole-Niang I.</b>	Evaluating an enhanced adherence intervention among HIV positive adolescents failing atazanavir/ritonavir-based second line antiretroviral treatment at a public health clinic <b>Chawana et al.</b>	Civil military relations: the place of security services in society in the 21st century <b>Dr M Chinyanganya</b>
11.00 – 11.15 Monday	Prevalence and <i>in vitro</i> biological control of anthracnose ( <i>Colletotrichum gloesporioides</i> ) of mango in Mutoko district (Zimbabwe) <b>Chabikwa et al.</b>	Autism Spectrum Disorders: Primary Caregivers' Knowledge and Attitudes towards its treatment <b>Banda R.</b>	On the Design of an Ambient Energy Harvesting Scheme for a Flying Telecommunication Base Station <b>Chaibva et al.</b>	Analysis of Elastic-Plastic Buckling of a Thin Rectangular Plate, Considering Nonlinear Strain Terms <b>Mushonga et al.</b>	Effect of Cotrimoxazole Prophylaxis on Erythrocyte Osmotic Fragility in People Living with HIV <b>Chigariro et al.</b>	Covid-19 Pandemic Stories: Lessons for communication during disasters <b>Mukaro L</b>	Plague in Zimbabwe from 1974 to 2018: A review article <b>Munyenyiwa et al.</b>
11.15 – 11.30 Monday	Efficacy of soil conditioners on productivity of Sesame under smallholder farmers in Mashonaland West Province in Zimbabwe ( <i>Sesamum Indicum L.</i> )	Cumulative Neurotoxicity of Gadolinium-Based Contrast Agents for Magnetic Resonance Imaging in Rats with Intact Blood-Brain Barrier <b>Kamtiko et al.</b>	Assessment of the potential of Net Zero Energy Buildings in contributing to solving Zimbabwe's energy shortage <b>Chawana T. and Jambwa C.</b>	Peer to Peer Electricity Trading: Solution to Renewables Adoption and Competitiveness in Zimbabwe's Electricity Sector <b>Zvavashe et al.</b>	Antibacterial activities of extracts from selected Zimbabwean medicinal plants against <i>Acinetobacter baumannii</i> <b>Machingauta et al.</b>	Pharmacokinetics of dolutegravir 5mg dispersible tablets in children weighing 6 to <20kg dosed using WHO weight bands <b>Waalewijn et al.</b>	Appropriating the life force of a child for consumption by another: The case for translating social protection into laws and policies in Zimbabwe. <b>Museka &amp; Manyarara</b>

	<b>Chaguluka et al.</b>						
11.30 – 11.45 Monday	Production of gluten and sugar free shortbread by exploitation of small grains (finger and pearl millet) and sucralose respectively <b>Chambwera et al.</b>	Psychological and Behavioural Responses to the Covid-19 Pandemic in Zimbabwe <b>Muchena K.C. &amp; Kokera R.</b>	Performance of Machine Learning and Big Data Analytics paradigms in Cybersecurity and Cloud Computing platforms <b>Kabanda G.</b>	Relating the Modified Clarke 1880 to the World Geodetic System 1984 referenced to ITFR 2014 ellipsoid using Multiple Regression techniques <b>Jumbe et al.</b>	Antifungal activity of selected medicinal plants from Zimbabwe against <i>Cryptococcus neoformans</i> <b>Makurira et al.</b>	Dolutegravir – Based ART is Superior to Nnrti/Pi Based ART in Children and Adolescents <b>Mujuru et al.</b>	
11.45 – 12.00 Monday	Nutritional Profiling of <i>Galinsoga parviflora</i> (Gallant Soldier) <b>Chikanda L.K.</b>	Landscape Analysis on Behaviour Change, Water, Sanitation and Hygiene for Control and Elimination of Neglected Tropical Diseases in Zimbabwe <b>Mduluza et al.</b>	Social Acceptability of Biogas Energy Generated from Human Waste: The Case of Runde District, Zimbabwe <b>Mangizvo R. &amp; Mupfururi E.</b>	A Feminist Critique of climate change research in Zimbabwe through the lens of Intersectionality theory <b>Karuma P.G. &amp; Bhatasara S.</b>	Harnessing the Antibacterial and Anti-Biofilm Potential of <i>Triumfetta Welwitschii</i> Leaf Extracts in the Formulation of a Gel <b>Mombeshora et al.</b>	Rifapentine +/- moxifloxacin for pulmonary tuberculosis in people with HIV <b>Pettit et al.</b>	The open courts principle in Zimbabwe: A linguistic human rights perspective <b>Ndlovu E.</b>
12.00 – 12.15 Monday	Product formulation and quality evaluation of protein bars enriched with edible insects <b>Makore et al.</b>	Pathways to mental healthcare in Zimbabwe: A review by the UZ Psychology Clinic <b>Mhizha et al.</b>	Design of a Small-Scale Coal to Liquids and Synthetic Natural Gas Plant: A Case Study of Sengwa Coal <b>Sithole S., Ndoro T.</b>	<b>THEME 8: MODELS FOR HERITAGE-BASED PRODUCTS AND SERVICES</b> Chairperson: Dr S Mazando Rapporteur: Dr J Gusha Zoom Link: 	Antimicrobial potential of a herbal cream based on extracts of <i>Combretum zeyheri</i> <b>Nyamwanza et al.</b>	Safety and efficacy through delivery of Dolutegravir vs Efavirenz and Tenofovir diphosphate vs Tenofovir alafenamide fumarate in pregnancy: IMPAACT 2010 Trial <b>Chinula et al.</b>	Re-locating guerilla film aesthetics in Zimbabwean Film: 2010-2020 (Oral) <b>Samakande &amp; Chikonzo</b>
12.15 – 12.30 Monday	Development of systems for the processing of future grains into food and feed	Determination of Lymphocyte Profiles and Cytokine Profiles Associated with	<b>THEME 5: ENTREPRENEURSHIP, INVESTMENT AND ECONOMIC DEVELOPMENT</b>	The effect of crude extracts of the nutraceutical fruits of <i>Vitex Payos</i> on hyperglycaemia in	The case for international partnerships and linkages by African subnational	Potential concern for timing of DMPA injection among women treated for HIV and TB	The Role of Institutions in Promoting Domestic Investment: The

	<b>Chinhenzva et al.</b>	Coronavirus Disease 2019 Severity <b>Choto et al.</b> Disaster (Un)preparedness under climate change: Revisiting the experiences of refugee women in Water and Sanitation in Tongogara Refugee Camp, Chipinge, Zimbabwe <b>Sibanda W.</b>	<b>Chairperson: Dr Zengeni</b> <b>Rapporteur: Dr Muchenje</b> <b>Zoom Link:</b>  Hunhu Philosophy and Sustainable Development in Zimbabwe: A Critical Reflection <b>Mudada et al.</b>	alloxan-induced diabetic rats <b>Maraura et al.</b> Optimization of molasses modified bitumen on flexible pavement rehabilitation. A case study of A1 Lomagundi road, Harare, Zimbabwe <b>Masaraure et al.</b>	governments: Insights from the City of Harare's Response to the COVID-19 pandemic <b>Ndawana E.</b>	<b>Mngqibisa et al.</b>	Case of Selected Southern African Development Community (SADC) Countries <b>Zivengwa et al.</b>
12.30 – 12.45 Monday	Performance evaluation of sweet potato ( <i>Ipomoea batatas</i> (L.) Lam) genotypes in Marondera. <b>Chitongo et al.</b>	A Geospatial Database and Web-GIS Application for reducing Non-Revenue Water Loss: A Case Study of Gweru City Council <b>Chitsika et al.</b>	Nurturing entrepreneurship skills in communities: A case of Muhuka cluster in Murewa district. <b>Mudzengerere D. &amp; Kwaira P</b>	Evaluation of the phytochemicals from <i>Trichilia emetica</i> as a source of biopharmaceuticals and nutraceuticals <b>Mugayi et al.</b>	An investigation into the antimycobacterial activities of the extracts of <i>Combretum</i> species from Zimbabwe on non-tuberculosis mycobacteria <b>Chikafa et al.</b>	Male Circumcision in Zimbabwe: Evidence from the 2015 Zimbabwe Demographic and Health Survey <b>Mangoma P. &amp; Mangombe K</b>	
12.45 – 13.00 Monday	Legume-maize intercrops effect on crop growth and productivity under different soil types <b>Mamhute et al</b>	Performance management in the wake of emerging health challenges in tertiary institutions in Zimbabwe <b>Ngosi B.</b>	.	Use of bacillus species from <i>Eisenia fetida</i> as a biocontrol against fusarium <b>Mukombe &amp; Masekesa</b>	Effectiveness of the Youth Helpline Project on Knowledge, Attitudes and Practices of Young People on COVID-19 in Zimbabwe <b>Wekwete et al.</b>		



13.00 – 13.15 Monday	Smallholder dairying constraints and opportunities. A case of Wedza Dairy Association, Zimbabwe <b>Kapembeza et al.</b>	Landscape Analysis on Behaviour Change, Water, Sanitation and Hygiene for Control and Elimination of Neglected Tropical Diseases in Zimbabwe <b>Mduluza et al</b>			Long acting injectable cabotegravir is safe and effective in preventing HIV infection in cisgender women: interim results from HPTN 084 <b>Delany-Moretlwe et al.</b>	Population-level correlation between incidence of selected sexually transmitted infections and HIV-1 among women participating in HIV pre-exposure prophylaxis trials in Africa <b>Hunidzarira et al.</b>	
13.15 – 13.30 Monday	Education 3.0 research output in the livestock sciences, a solid foundation to meeting Education 5.0 expectations <b>Mbiriri DT et al</b>						
13.30 – 14.00 Monday	LUNCH BREAK						
	<a href="#">HIGH LEVEL DIALOGUE ZOOM LINK</a> 						
14.00-14:45 Monday	University of Zimbabwe’s Sustainable Food Systems Approach to Support Zimbabwe’s Agricultural Recovery Plan - <b>Prof P. Mugabe</b> Discussants: <b>Prof B. Mvumi</b> <b>Prof K. Nyikahadzoi</b> <b>Prof R. Chikowo</b> <b>Dr S Siziba</b> <b>Dr H. Nezomba</b>					Dean Faculty of Agriculture Environment and Food Systems, <b>Dr E. Nyakudya</b>	
14:45 – 16:00 Monday	EXHIBITS - SESSION 1 						
	FACULTY OF AGRICULTURE, ENVIRONMENT AND FOOD SYSTEMS						

14:45 – 14:55 Monday	Nutritional Composition of Livingstone Potato ( <i>Plectranthus Esculentus</i> ) produced in Zimbabwe <b>Kujeke G.T et al.</b>	Dean Faculty of Agriculture Environment and Food Systems, <b>Dr E. Nyakudya</b>
14:55 – 15:05 Monday	Development of motorised mechanisation systems to enhance production of traditional grains by smallholder farmers in Zimbabwe <b>Madzivanzira T. et al.</b>	
15:05 – 15:15 Monday	Underutilized Crops for Famine and Poverty Alleviation: A case study on the potential of Cocoyam (Madhumbe) and Livingstone Potato (Tsenza) in Zimbabwe for Confectionery Food Processing. <b>Matikiti A. et al.</b>	
15:15 – 15:25 Monday	Postharvest nutrient and economic losses of stored maize ( <i>Zea mays</i> L.) and cowpeas ( <i>Vigna unguiculata</i> L. Walp) under smallholder farmer management <b>Ngwenyama P et al.</b>	
15:25 – 15:35 Monday	Optimization of culture conditions for <i>Oreochromis niloticus</i> and <i>Oreochromis macrochir</i> in earthen ponds under greenhouse in Zimbabwe <b>Clementain C. et al</b>	
15:35 – 15:40 Monday	<b>FACULTY OF EDUCATION</b>	Dean, Faculty of Education, <b>Prof O. Hapanyengwi</b>
15:40 – 15:50 Monday	Zimbabwe School Readiness Initiative: Smart Tablet Early Learning Assessment (STELA) Instrument <b>Dyanda C et al.</b>	
15:50 – 16:00 Monday	Wrap Up of Day 1, Executive Director, Research and Innovation, <b>Prof F. Mtambanengwe</b>	Director of Ceremonies, <b>Dr M Madambi</b>








DAY 2: TUESDAY 24 AUGUST 2021 STRATEGIC PARTNERS' DAY CONVENED BY THE UZ ALUMNI		
ZOOM LINK FOR THE DAY 		
08.45 - 08.50 Tuesday	Announcements and housekeeping	Manager Scholarly Communications & Publishing - <b>Mrs N Kwangwa</b>
08.50 - 09.00 Tuesday	Remarks by <b>Mr. E Siwela</b> , UZ Alumni Chairman	Research Specialist Humanities Director, UZ Business School, <b>Dr A Nhamo</b>
09.00 – 09:20 Tuesday	Welcome Remarks Pro-Vice Chancellor, Strategic Partnerships and Industrialisation, <b>Professor C. Mbohwa</b>	
09.20 – 09:50 Tuesday	Accounting for price distortions in a multiple currency regime: the case of Zimbabwe, <b>Prof A. Makoche Kanwa</b>	
09.50 – 10:10 Tuesday	Discussion	
<b>10:10-10:25 Tuesday</b>	<b>HEALTH BREAK - SPONSORS ADVERTS</b>	<b>MODERATOR</b>


10.25-10:55	Commercialisation of Research and Innovation <b>Dr R. Masuka</b> , Chief Innovation Offer ZIDA		A/Dean, Faculty of Science, <b>Prof I. Sithole-Niang</b>
<b>10.55-11:00 Tuesday</b>	<b>Entertainment</b>		Dean of Students, <b>Dr M Madambi</b>
11:00– 12.00 Tuesday	Conspiracies, Vaccines and Misinformation: what really is the truth about COVID 19 pandemic?	<b>Dr A Mahomva</b> - The National picture <b>Prof R Makunike</b> -Pathology and diagnostics <b>Prof C.E Ndlovu</b> Treatment and vaccines <b>Prof F. Machingura</b> Religious	Dean, Faculty of Medicine and Health Sciences, <b>Prof R Masanganise</b>
12.00 – 13.30 Tuesday	Going Digital: The role of partnerships in bridging the digital divide	<b>Dr D. Mboweni</b> CEO Econet <b>Mr H. Manika</b> Chief Commercial Officer Liquid Intelligent Technologies <b>Mr. M. Masheka</b> Zim Center for High Performance Computing <b>Dr G. Muchengete</b> Director General POTRAZ <b>Eng. K Zvarevashe</b> Faculty of Computer Engineering, Informatics and Communications	A/Dean, Faculty of Computer Engineering Informatics and Communications, <b>Ms F.N Mukora</b>
13.30 – 14.00 Tuesday	<b>LUNCH BREAK</b>		
14.00 – 14.20 Tuesday	FinTech and financial innovations: sustaining economic stability in Zimbabwe <b>Dr M. Marikanda</b> , Women Microfinance Bank <b>Mr D. Hoto</b> , Group CEO, First Mutual Holdings		Dean, Faculty of Business Management Sciences and Economics <b>Dr D. Madzikanda</b>
14.20 – 14.40 Tuesday	Disaster Preparedness and Resilience: post-Covid-19 Social Protection <b>Dr S Mutambara</b> , Program Specialist Zimbabwe Resilience Building Fund		Dean, Faculty of Social and Behavioural Sciences, <b>Prof I. Chirisa</b>
14.40 – 15.00 Tuesday	Re-aligning the engineering profession to deliver industrialisation and modernization in Zimbabwe <b>Eng. T. Mphala</b> President for Zimbabwe Institute of Engineers <b>Eng. M Manuhwa</b> MD for Kamau Partners Private Limited <b>Mrs P. Murena-Nyika</b> Lafarge Cement		Dean, Faculty of Engineering and the Built Environment. <b>Prof H. Makurira</b>
15.00 – 15.20 Tuesday	Research and Development partnerships, relevance of Education 5.0 to revolutionise local industry <b>Mr K Matsheza</b> ; CZI President <b>Mr E Mujuru</b> , Pharmaceutical Sector		<b>Faculty of Arts and Humanities</b> Dr L. Mukaro
15.20 – 15.40 Tuesday	Opportunities for partnerships in the mining sector: towards a \$12 billion industry <b>Mr I. Kwesu</b> ; CEO Chamber of Mines <b>Mr M. Mabhudhu</b> ; CEO Zimbabwe Consolidated Diamond Company		Chief Director, Ministry of Mines, <b>Prof M. Manyuchi</b>
15.40 – 16.00 Tuesday	Earning from your Intellectual Property: IP protection, royalties and revenue sharing from research, innovation startups <b>Ms B. Matanga</b> of B Matanga IP Attorneys <b>Mr N M Phiri</b> from Muvingi and Mugadza Legal Practitioners		Dean, Faculty of Law, <b>Dr I. Maja</b>






16.00 – 16.10 Tuesday	Wrap-up of Day 2 - <b>Strategic Partnerships and Industrialization Prof. Mbohwa</b>	Director of Ceremonies <b>Mrs N. Kwangwa</b>
<b>DAY 3: WEDNESDAY 25 AUGUST 2021 - REGIONAL/INTERNATIONAL PARTNERS/COLLABORATORS IN ACADEMIC, RESEARCH AND DEVELOPMENT</b>		
<b>Zoom link</b> 		
08.15 – 08.20 Wed	Announcements, Housekeeping and Entertainment	Director of Ceremonies <b>Dr M Madambi</b>
08.20 – 08.35 Wed	Welcome Remarks and University of Zimbabwe Library thrust on Partnerships, <b>University of Zimbabwe Librarian Dr A. Chikonzo</b>	Deputy Librarian, <b>Mr M. Muziringa</b>
08.35- 09.10 Wed	<b>Key Note:</b> GeoNutrition: spatial aspects of hidden hunger, <b>Professor Martin Broadley, Professor of Plant Nutrition, Faculty of Science, University of Nottingham</b>	Chairman, Dept of Soil and Environmental Sciences, <b>Dr H. Nezomba</b>
09:10-09:40 Wed	Towards academic excellence in science and engineering, <b>Dr Keith F. Carter, Visiting Design Professor, University of Leicester and consultant for Rolls Royce in Warrington and Principal Consultant for Keimar Consultancy in Leicester, UK.</b>	
09:40-10:10	Establishment of a Centre for Integrated Global Biomedical Science <b>Prof. G.D Morse SUNY Distinguished Professor, Global Director Health Institute, Director, Global Virus Network Centre of Excellence, UB-Roswell Park Drug Development Centre, Director Translational Pharmacology Research Core</b>	<b>Prof C Maponga,</b> Pharmacy and Pharmaceutical Sciences
10.10– 10.20 Wed	<b>HEALTH BREAK - - SPONSORS ADVERTS</b>	
10:20 – 10.50 Wed	Social protection innovations in abating teenage pregnancy, sexual and drug abuse among adolescents - <b>Dr P Halimani L, National Professional Officer- Education for Health and Wellbeing UNESCO Regional Office, Southern Africa</b>	
10.50-11.30 Wed	<b>EXHIBITS – SESSION 2</b> 	
	<b>FACULTY OF VETERINARY SCIENCE</b>	A/Dean, Faculty of Veterinary Sciences, <b>Dr N Mukarati</b>
10.50-11.00 Wed	Phytochemical analysis and antibacterial activity of selected plant species with potential for development of poultry phytogetic feed additives <b>Jambwa P et al.</b>	
11.00-11.10 Wed	Selected plant species with potential for development of poultry phytogetic feed additives: anti-lipoxygenase and antioxidant activity, and in vitro safety <b>Jambwa P et al.</b>	
11.10-11.20 Wed	Description of the epidemiological cycles of animal rabies in Zimbabwe <b>Chidoti V et al.</b>	
11.20-11.30 Wed	<b>FACULTY OF ARTS AND HUMANITIES</b>	Dean Faculty of Arts and Humanities, <b>Prof F Mangena</b>
	Empty Streets <b>Mukwara P et al</b>	

## WEDNESDAY MORNING PARALLEL SESSIONS







11.30 – 13.00 Wed	<b>THEME 6: CLIMATE CHANGE, SMART SETTLEMENTS AND ENVIRONMENT</b> Chairperson: Dr Shekede Rapporteur: Prof Mushayabasa Zoom Link: 	<b>THEME 7: HUMAN CAPITAL, INFRASTRUCTURE AND UTILITIES DEVELOPMENT</b> Chairperson: Dr D Mutanda Rapporteur: Eng Marindiko Zoom Link: 	<b>THEME 8: MODELS FOR HERITAGE-BASED PRODUCTS AND SERVICES</b> Chairperson: Advocate Damiso Rapporteur: Dr Garufu Zoom Link: 	<b>THEME 9: MINERAL RESOURCES, EXPLORATION, EXTRACTION, PROCESSING, BENEFICIATION</b> Chairperson: Eng Mushonga Rapporteur: Ms F Zvavamwe Zoom Link: 	<b>THEME 10: SOCIAL PROTECTION, IP, ACCESS TO JUSTICE, CONSTITUTIONALISM, PEACE AND RULE OF LAW, AND INTERNATIONAL ENGAGEMENT</b> Chairperson: Mr Chatsanga Rapporteur: Dr Mupanga Zoom Link: 	<b>THEME 11: LEADERSHIP, CORPORATE GOVERNANCE, DEVOLUTION AND DECENTRALISATION</b> Chairperson: Dr M Ruzivo Rapporteur: Dr I Munyiswa Zoom Link: 	<b>THEME 12: INCLUSIVE AND EQUITABLE EDUCATION</b> Chairperson Dr W Gadzikwa Rapporteur: Dr K Chikonzo Zoom Link: 
11:30 – 11:45 Wed	Exploring a framework for community-based organic production: Testing the T-Infinite Model <b>Dirwai C.</b>	Development of an environmentally friendly substitute of the burnt clay brick and its application in housing infrastructure <b>Butai J.</b>	The Great Zimbabwe diaries animation project <b>Chingombe C.M. &amp; Nhamo A.</b>	An Alkaline Process for Directly Producing Lithium Hydroxide Monohydrate from Lithium Concentrate <b>Sithole &amp; Ndoro</b>	Factors Affecting the Subjective Well-Being of Student Commuters at the University of Zimbabwe <b>Chikaura T.</b>	Robert Mugabe's Re-election over the Years: Leadership style, Party Identification or Issue-based Politics? <b>Kokera R. &amp; Muchena K.C.</b>	Mapping Inclusive Education and Education in Emergencies Policies and Practices in Southern Africa for Strategic Alignment with Sustainable Development Goal Four on Education <b>Chataika &amp; Hlatywayo</b>
11:45 – 12:00 Wed	A participatory approach to developing community-based climate	Homeland Infrastructure and public utilities solutions <b>Magaya D.</b>	Formulation and Characterisation of Beverages from <i>Adansonia digitata</i> and	A low-cost method for site suitability analysis for tailings dam	Experiences of children of incarcerated parents left behind in Southern Africa: A scoping review <b>Chivasa et al.</b>	Conducive Internal Governance System (CIGS) as a Determinant of Good Corporate Governance	Quality Management System of Governance in Zimbabwean Rural



	services in Zimbabwe: A case study of Uzumba Maramba Pfungwe (UMP) district <b>Gwenzi et al. .</b>		<i>Tamarindus indica</i> l. Fruits: Enhancing Students' Health <b>Chiweshe M.</b>	<b>Zingwe et al.</b>		Disclosures in Zimbabwe: Evidence from the Excellence in Corporate Governance Awards by the Institute of Chartered Secretaries and Administrators in Zimbabwe (2013-2020) <b>Maseko N et al.</b>	Primary Schools Awarded the Secretary's Merit Bell for Excellent Performance <b>Chidakwa C.</b>
12:00 – 12:15 Wed	3D Cadastral Model and Building Information Management (BIM) in Zimbabwe. Opportunities and challenges <b>Hobwana et al. .</b>	Performance management in the wake of emerging health challenges in tertiary institutions in Zimbabwe <b>Ngosi B.</b>	Development and formulation of an antifungal remedy based on phytochemicals from <i>Erythrina abyssinnica</i> <b>Gumindoga et al. .</b>	An Investigation of the Refractoriness of a Gold Ore and Its Amenability to Possible Pre-Treatment Methods: A Case Study of Stella City B Gold Mine, Gwanda <b>Nyoni N. &amp; Mabwe N.R.</b>	Questioning Anthropocentrism in Light of the Global Climate Change: A Philosophical Analysis <b>Hatendi C.M.</b>	A Systematic Review of Literature on the Impact of Devolution and Decentralization on Economic Growth and Development: Lessons for Zimbabwe <b>Muhoyi et al.</b>	Determinants of e-LMS Utilisation at the University of Zimbabwe <b>Chivasa J. &amp; Muhoyi E.</b>
12:15 – 12:30 Wed	Development of a 3d prototype cadastral system. case study: The University of Zimbabwe <b>Hobwana et al.</b>	Waste Segregation System <b>Mapfumo &amp; Chikuku.</b>	Women's Agency in the era of COVID 19 in Zimbabwe: Self Assertion and Adaptation of African Traditional Religions and Philosophies <b>Hatendi &amp; Mapuranga</b>	THEME 12: INCLUSIVE AND EQUITABLE EDUCATION Chairperson: Dr Mawonedzo Rapporteur: Prof T Chataika <b>Zoom Link:</b>  Rebranding and Revolutionising the Teaching and Learning of Design Modules Under COVID 19	Zimbabwe s' COVID 19 Lockdowns, Public Social Protection and the Informal Economy Resilience <b>Matutu V. &amp; Nyama V.</b>		How inclusive is Online teaching and learning at the University of Zimbabwe? An exploration on the use of NVDA during Zoom teaching <b>Dirwai C.</b>

				Lockdown: A Case of the University of Zimbabwe <b>Masina &amp; Chakamba J.</b>			
12:30 – 12:45 Wed	Discursive Representation of ambition to meet the 1.5°C, Paris climate action goal in Zimbabwean scientific, political and lay people narratives <b>Mhondera et al.</b>	Developing a Practical Workplace Model for Work-Nonwork Interface Management <b>Mazani &amp; Javangwe.</b>	Chave Chemutengure Vhiri Rengoro: A Case of Creative Disruption and Epistemic Disobedience <b>Mabasa I.T.</b>	Inclusivity: People with disabilities and minorities in the context of Corona Virus <b>Matende &amp; Mufutumari</b>	Covid19 and the philosophy of hunhu. A critical reflection of the socio-cultural impact of the pandemic in Zimbabwe <b>Mbewe T. and Matinhira B</b>	<b>THEME 7: HUMAN CAPITAL, INFRASTRUCTURE AND UTILITIES DEVELOPMENT</b> <b>Chairperson: Prof F Matambirofa</b> <b>Rapporteur: Dr K Gotosa</b> <b>Zoom Link:</b> 	The role of innovative pedagogical approaches in the quest for inclusive and equitable educational provision for national development. <b>Madondo M.M.</b>
12:45 – 13:00 Wed	A comparison of stress hormone levels in African wild dogs ( <i>Lycaon pictus</i> ), in Hwange National Park and Mana Pools National Park <b>Magqina T.</b>	Understanding Creativity and Innovation: The Nature-Nurture Debate of Creativity and Innovation <b>Moyo S.</b>	Effects Of Growth Media Substrates On Germination And Seedling Survival Of Lemon Bush Under Floating Tray Seedbeds <b>Mangadze et al.</b>	Giving a voice to learners with hearing impairment: Their views on the exclusivity nature of inclusive and equitable education in the learning of Zimbabwe Junior Visual and Performing Arts <b>Nhamo &amp; Mazodze</b>	The efficacy of Child Friendly Spaces (CFS) in Zimbabwe during disaster/ emergency situations: A case of Marirangwe CFS in Chipinge <b>Mhlanga G.T.</b>		COVID–19 Pandemic: Its Impact on Universities and Schools in Zimbabwe <b>Mahere S.M.</b>

13:00 – 13:15 Wed	Development of algorithm for estimation of LST using multiple vegetation indices and elevation retrievals <b>Mushore et al.</b>	Occupational, Safety and Health Tools for Zero Harm: Employer's commitment and participation as key drivers to Occupational, Safety and Health at workplace to achieve Zero harm: A case of State Universities Canteens <b>Rwizi C.</b>	"Chikwamboism : Tapping into African Knowledge Heritage to Theorise Oppression in Africa" <b>Musiyiwa M.</b>	<b>THEME 8: MODELS FOR HERITAGE-BASED PRODUCTS AND SERVICES</b> <b>Chairperson: Advocate Damiso</b> <b>Rapporteur: Dr Garufu</b> <b>Zoom Link:</b> 	Artificial Intelligence as a Tool for Improving Policing in Zimbabwe <b>Zimbabwe Republic Police Staff College</b>	<b>THEME 8: MODELS FOR HERITAGE-BASED PRODUCTS AND SERVICES</b> <b>Chairperson: Advocate Damiso</b> <b>Rapporteur: Dr Garufu</b> <b>Zoom Link:</b> 	Assessment of Visuo-Semiotic Skills for Pre-service Teachers in Coordinate Geometry <b>Makamure C.</b>
				The Geographies of Digital Humanities: The Acclimation of University of Zimbabwe into E-humanity Globalectics <b>Marongedze R</b>		Subverting cultural supremacy: An exploration of the theory of Universal Culture <b>Matambirofa F</b>	
13:15 – 13:30 Wed	Towards Smart Human Settlements Development in Zimbabwe: An analysis of Pre-requisites, Challenges and Opportunities <b>Mutsindikwa N.T.</b>	Human Capital and Quality Services Delivery in Zimbabwe State Universities Students Canteens through Effective and Motivated Catering staff. <b>Rwizi C.</b>	Functional Expression of Lysostaphin with light-induction for the Treatment of Methicillin-Resistant <i>Staphylococcus aureus</i> <b>Nihaka et</b>		Threat of Transboundary Plant Pathogens to Agricultural Trade in Southern Africa: A Perspective on Zimbabwe's Plant Biosecurity <b>Mudada et al.</b>		
13.00- 14.00 LUNCH BREAK							

## WEDNESDAY AFTERNOON PARALLEL SESSIONS

14.00 - 16:00 Wed	<b>THEME 1: FOOD AND NUTRITION SECURITY, SUSTAINABLE AGRICULTURAL STRATEGIES</b> Chairperson: Prof M Wuta Rapporteur: Dr RT Masekesa Zoom Link: 	<b>THEME 2: HUMAN AND ANIMAL HEALTH, COVID-19 AND OTHER GLOBAL PANDEMICS, DISASTER PREPAREDNESS</b> Chairperson: Dr Ellen Mwandiringa Rapporteur: Dr Idah Nyawata Zoom Link: 	<b>THEME 4: DIGITAL ECONOMY, ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING</b> Chairperson: Ms Nyandoro Rapporteur: Ms T Matekenya Zoom Link: 	<b>THEME 5: ENTREPRENEURSHIP, INVESTMENT AND ECONOMIC DEVELOPMENT</b> Chairperson: Mr Zvakafa Rapporteur: Mr M Chundu Zoom Link: 	<b>THEME 6: CLIMATE CHANGE, SMART SETTLEMENTS AND ENVIRONMENT</b> Chairperson: Dr Gudukeya Rapporteur: Dr W Gumindoga Zoom Link: 	<b>THEME 2: HUMAN AND ANIMAL HEALTH, COVID-19 AND OTHER GLOBAL PANDEMICS, DISASTER PREPAREDNESS</b> Chairperson: Mrs Rudo Nyamakura Rapporteur: Dr Mlambo Zoom Link: 
14.00 – 14.15 Wed	Mainstreaming Climate Change Education in the University: Another look at the whole institution approach <b>Dirwai C.</b>	Determinants of Under 5 Mortality in Zimbabwe: An Analysis Based on the 2012 National Population Census <b>Dzemwa &amp; Mangombe</b>	Design of Vehicle License Plates Production Line <b>Mpofu &amp; Chikuku</b>	Colonisation impacted on rationalisation processes in Zimbabwe: An evaluation of informality in indigenous entrepreneurship. <b>Chizema &amp; Chahwanda</b>	Challenges and possible impacts of artisanal and recreational fisheries on tigerfish <i>Hydrocynus vittatus</i> Castelnau 1861 populations in Lake Kariba, Zimbabwe <b>Magqina et al.</b>	Anti-allergy and high levels of P-Selectin and Chitinase-3-Like-1 Protein in pre-school children in an area endemic with schistosomiasis in Zimbabwe <b>Chimponda &amp; Mduluzana</b>
14:15 – 14.30 Wed	Field evaluation of cowpea ( <i>Vigna unguiculata</i> ) breeding lines in Marondera <b>Dube et al.</b>	COVID-19 Outbreak Investigation at a boarding school, Marondera district, Mashonaland East Province, Zimbabwe, 2020: A case-control study <b>Chitiyo et al.</b>	Integrated Chicken Management System (ICMS) <b>Mapfumo et al.</b>	The Implementation of a sustainable stock management system for 5 SMEs in Glen View Area 8 <b>Chizema S.</b>	Cost-benefit analysis and GHG emission quantification in dairy business models: A case study of Shashamane - Ziway milkshed, Ethiopia <b>Mudombi et al.</b>	Association of Schistosomiasis and Risk of Prostate Cancer Development in Residents of Murehwa Rural Community, Zimbabwe <b>Choto et al.</b>
14.30 – 14.45 Wed	Consumption of wild edible mushrooms and their importance in Binga, Zimbabwe	Prevalence and genetic diversity of Coronaviruses circulating in	The Interface between Artificial Intelligence and	Performance analysis of backyard poultry production in Chitungwiza, Zimbabwe	Climate Change and Extreme Events in Chimanimani District: A Post	Algorithm for diagnosis of early Schistosoma haematobium using


	<b>Dube et al.</b>	insectivorous bat colonies in Mash West Province, Zimbabwe <b>Chidoti et al.</b>	Ethics: A Critical Reflection <b>Mudada &amp; Bowa</b>	<b>Mudare &amp; Muhoyi</b>	Cyclone Idai Analysis of Environmental Impacts <b>Mushore et al.</b>	prodromal signs and symptoms in Pre-school Age Children in an Endemic District in Zimbabwe <b>Jokonya et al.</b>
14.45 – 15.00 Wed	Enhancing clean seed supply for mushrooms and root crops in Zimbabwe <b>Gasura et al.</b>	Antimicrobial effects of craniopharyngioma cystic fluid <b>Jokonya et al.</b>	Integration and Analysis of Heat Exchangers and Refrigeration Units for Outdoor Drinking Water Through Industrial Secondment at Pretoria Portland Cement <b>Mushonga et al.</b>	<b>THEME 8: MODELS FOR HERITAGE-BASED PRODUCTS AND SERVICES</b> <b>Chairperson: Advocate Damiso</b> <b>Rapporteur: Dr Garufu</b> <b>Zoom Link:</b> 	Economic Valuation of the Uncertainty in Food Security Due to Climate Change and the Mitigation Strategies for Zimbabwe: Review <b>Gwata et al.</b>	Assessment of the effect of Schistosoma haematobium infections on the neurodevelopment of pre-school age children (< 6 years) in Murewa district, Zimbabwe <b>Kasambala M.</b>
15.00 – 15.15 Wed	Evaluating maize cob foliar fertiliser type and application frequency on maize growth, and yield under rain-fed conditions <b>Gumbeze et al.</b>	Investigation of a Suspected Food Borne Gastrointestinal Illness amongst Guests at a Party in Highfield Suburb, Harare City, 2020 <b>Kanzara et al.</b>	<b>THEME 1: FOOD AND NUTRITION SECURITY, SUSTAINABLE, AGRICULTURAL TECHNOLOGIES</b> <b>Chairperson: Prof P Mugabe</b> <b>Rapporteur: Dr Nyahangare</b> <b>Zoom Link:</b> 	Portable Selling Tables (Musika) <b>Kusena K.</b>	Assessment of infrastructure resilience to extreme weather events: Lessons from recent cyclones in Eastern Zimbabwe. <b>Marindiko et al.</b>	Creation of a Cost-effective, Easy-to-use Algorithm for diagnosis of early Schistosoma Haematobium infection using prodromal signs and symptoms in Pre-school Age Children in an Endemic District in Zimbabwe <b>Mduluza-Jokonya et al.</b>







			Zimbabwe, 1980-2015 <b>Taringana T.</b>			
15.15 – 15.30 Wed	Opportunities of Conservation Agriculture in rainy fed arid regions: The case of food security assessment in Gokwe South district of Zimbabwe <b>Mashango G.</b>	Human Sera Collected Pre-SARS-CoV-2 Infection Pandemic Reveal Immunity and Previous Exposure to Similar Respiratory Infections in Zimbabwe <b>Mduluza et al.</b>	Effect of substituting yeast with dried <i>Ziziphus Mauritiana</i> (masau) powder on the nutritional and sensory properties of bread <b>Zimunya et al.</b>	Towards Moral Synergy between Research and Industry within developing economies- Mixed Methods Methodology Experience for Zimbabwe <b>Kwaramba P.K.</b>	Social-Ecologically Driven Threats to the Climate Mitigation Potential of Forests: A Case of Murehwa District <b>Mataruse et al.</b>	Molecular analysis of inflammatory markers during <i>Schistosoma haematobium</i> infection in children below the age of five in Shamva, Zimbabwe <b>Midzi et al.</b>
15.30 – 15.45 Wed	The Impact of Climate Change on Crop Production and the Potential of the Pfumvudza Approach to improve current and future crop production under the climate change in Zimbabwe <b>Mashonjowa et al.</b>	Evaluation of HIV Case Based Surveillance system: A pilot of the Electronic Health Record (EHR) system in Mutare district, Zimbabwe, 2021 <b>Takarinda K.P et al.</b>	Detection and Characterization of <i>Fusarium oxysporum</i> f.sp. cubense in Banana Production Areas of Manicaland Province, Zimbabwe. <b>Mwaramba et al.</b>	The Nexus between entrepreneurship and economic growth in developing economies: Case of SADC countries <b>Maireva C.</b>	The Role of the Environment and Sustainable Development Institute as the coordinator of cutting-edge research on environment & sustainable development within UZ <b>Mhlanga et al.</b>	An Assessment of Human Exposure Concentrations to DDT for Indoor Residual Spray <b>Pisa L. &amp; Bouwman H.</b>
15.45 – 16.00 Wed	Effects of combined Na <sub>2</sub> SO <sub>4</sub> and NaCl salinity on Maize ( <i>Zea mays</i> ) growth up to vegetative stage <b>Masuna et al.</b>	COVID-19 prevention measures: the case of a high-density area in Harare, Zimbabwe <b>Wekwete et al..</b>	Do foraging hotspots defined by key browse species facilitate interaction between livestock and wildlife? <b>Mudzengi et al.</b>	Re-Thinking Institutional Governance: A Case for Modernisation of Policy Governance in the Second Republic Zimbabwe <b>Maiwasha &amp; Gweshe</b>		Spatio-temporal prevalence of Foot and Mouth Disease (FMD) in Zimbabwe from the year 2006-2016 <b>Masivuye I et al</b>
16.00 - 16:15 Wed	Detection and characterization of <i>Monilinia spp.</i> causing brown rot of stone fruit in Zimbabwe	Risk Factors for contracting Watery Diarrhoea among residents of Mzilikazi Suburb, Bulawayo	Modelling resource use efficiency, biomass and grain yield of Chickpea ( <i>Cicer arietinum</i> )	The Relationship Between Product Returns and Retail Business Performance Across Selected		Factors Associated with Overweight and Obesity among Women aged 15-49 years in





	<b>Mabika et al.</b>	City, Zimbabwe, 2020 <b>Moyo et al.</b>	under planting date & climate change scenarios in Southern Africa. <b>Mubvuma et al.</b>	Footwear and Apparel Retail Stores <b>Nhamoinesu S.</b>		Zimbabwe: Evidence from the 2005/6, 2010/11 and 2015 Zimbabwe Demographic and Health Survey <b>Mangombe et al.</b>
<b>END OF DAY</b>						

DAY 4: THURSDAY 26 AUGUST 2021 EXHIBITION DAY		
Zoom Link 		
08.30 – 08.35 Thursday	Announcements and housekeeping	Mrs N. Kwangwa
08.35 – 09.05 Thursday	<b>Key Note</b> Aligning Education 5.0 to the 2021 National Disability Policy, <b>Prof T. Chataika</b>	Dean, Faculty of Education, <b>Prof O. Hapanyengwi</b>
9:05 – 10.15 Thursday	<b>High Level Discussion</b> Can Zimbabwe make drugs, vaccines and medicines for its people? <b>Professor D. Tagwireyi</b> Discussants: <b>Prof N. Chimombe; Prof C Masimirembwa; Prof T. Mduluzi; Mr D. Moyo</b>	
10:15 – 10.30 Thursday	HEALTH BREAK - SPONSORS ADVERTS	





### MORNING PARALLEL EXHIBITS - SESSION 3



10:30 – 13:00 Thursday	FACULTY OF ENGINEERING AND THE BUILT ENVIRONMENT 	FACULTY OF COMPUTER ENGINEERING INFORMATICS AND COMMUNICATIONS 	FACULTY OF MEDICINE AND HEALTH SCIENCES 	FACULTY OF SCIENCE 
10:30 – 10:45 Thursday	Design of an Automatic Seed Sowing Robot <b>Chikuku T.</b>	Cost efficient gold detection using intelligent devices <b>Gono F et al.</b>	Evaluation of the COVID-19 Surveillance System in Harare City, Zimbabwe 2020 <b>Bvochora T et al.</b>	Development of a complementary premix powder based on finger millet grain <b>Dhliwayo T.C et al.</b>
10:45 – 11:00 Thursday	Internet of Things based Crop Field Monitoring System <b>Sitotombe K.</b>	Intelligent Terminus Automated Control System (TACS) <b>Gera M et al.</b>	Tenofovir diphosphate concentrations in dried blood spots from pregnant and postpartum adolescent and young women	Utilisation of Sorghum in the production of Soups and gluten free pasta <b>Gwekwe B.N et al.</b>




			receiving daily observed pre-exposure prophylaxis in sub-Saharan Africa <b>Stranix-Chibanda L. et al</b>	
11:00 – 11:15 Thursday	Convertible Hand-Held Infant Transporter (HHIT) thermal care incubator <b>Chimhuya S et al</b>	Integrated Chicken Management System (ICMS) <b>Mapfumo R.M et al.</b>	Preterm Birth, Breastfeeding, Antenatal ARV Regimen and 24-month HIV-free Survival <b>Fowler M.G et al.</b>	Production of a sensorially acceptable yoghurt from goat milk to improve rural livelihoods in Matabeleland South region, Zimbabwe Mujati T et al.
11:15 – 11:30 Thursday	Off Grid Solar Powdered DC LED Lighting System for Zimbabwe's Rural Educational and Residential Areas  <b>Manyonga A.T.</b>	Advanced Smoke detection with Intelligent devices <b>Mucha et al.</b>	An Outbreak Investigation of SARS-COV2 in Bikita District, Masvingo Province, 2021 <b>Kabaya H. et al.</b>	Optimization of the Electroless Plating of Palladium Using Low Concentration of the Palladium Chloride Precursor Salt Solution <b>Mpofu S.B et al.</b>
11:30 – 11:45 Thursday	Design of a Prototype Solar Thermal Powered Tobacco Curing Barn <b>Shati N. et al.</b>	<b>FACULTY OF ENGINEERING AND THE BUILT ENVIRONMENT</b> 	A process evaluation of COVID-19 infection, prevention, and control practices at a clinical research facility in Zimbabwe <b>Kokera S et al.</b>	Social Acceptability of Biogas Energy Generated from Human Waste: The Case of Runde District, Zimbabwe <b>Mangizvo R. et al.</b>
		Modification of a biosand filter for water purification at household level <b>Chiruka N</b>		
11:45 – 12:00 Thursday	Software for Supermarket Checkout Without Going Through a Queue <b>Tumbare M.J et al.</b>	Design of a Process Flowsheet for the Recovery of Platinum Group Metals from Oxidic Ores <b>Sithole S.</b>	Ensuring safe transition to dolutegravir-based regimen at a large HIV outpatient-clinic in Zimbabwe <b>Monera-Penduka T.G. et al.</b>	A simple test procedure used to assess the thermal performance and efficiencies of solar water heaters with evacuated tube solar collectors manufactured in Zimbabwe. <b>Mashonjowa, E. et al.</b>
12:00 – 12:15 Thursday	Artificial Intelligence Drone for Agriculture <b>Gwezuva D.D et al.</b>	IoT based Automatic Number Plate Recognition (ANPR) system <b>Kanyama W</b>	Adequate Dolutegravir Exposure Dosed Bid with Rifampicin in Children 6 To <18 Years <b>Waalewijn H. et al.</b>	Fish biltong as a loss reduction and value addition strategy in artisanal fishery <b>Mavuru A. et al.</b>
12:15 – 12:30 Thursday	Design and prototyping of a plant fertilizing and	Development of an AI Controlled Pesticide Spraying Drone	<b>FACULTY OF ENGINEERING AND THE BUILT ENVIRONMENT</b> 	

	weeding robot for horticulture <b>Motsi &amp; Mushiri</b>	<b>Kusena K.</b>	Upgrade of the Chindunduma Water Treatment Plant, Mazowe <b>Sauramba et al.</b>	
13:00 – 14:00 Thursday	<b>LUNCH BREAK</b>			

### AFTERNOON PARALLEL EXHIBITS - SESSION 4

14:00 – 16:30 Thursday	FACULTY OF BUSINESS MANAGEMENT AND SCIENCES AND ECONOMICS 	FACULTY OF ENGINEERING AND THE BUILT ENVIRONMENT 	FACULTY OF MEDICINE AND HEALTH SCIENCES 	FACULTY OF SCIENCE 
14:15 – 14:30 Thursday	Leveraging Transformational Leadership Results Based Management (RBM) for successful Industrialization and Modernisation with Education 5.0 <b>Gwata-Charamba R.G.</b>	Design of a Radio Frequency Wireless Sensor Network Based Smart Energy Metering System for ZETDC <b>Mangirazi B.N</b>	Load monitoring to improve virologic failure in women on lifelong ART <b>Mutambanengwe-Jacob M.T et al.</b>	Size at maturity of tigerfish <i>Hydrocynus vittatus</i> Castelnau 1861 in Lake Kariba, Zimbabwe: Assessing the influence of decades of fisheries exploitation <b>Magqina T. et al.</b>
14:30 – 14:45 Thursday	Productivity standards and innovations for Zimbabwe traditional cuisine <b>Mbasera M.</b>	Design of a Hooligan Barrier for Soccer Stadiums Phiri P et al.		Revision of Zimbabwe's Agro-Ecological Zones <b>Manatsa D et al.</b>
14:45 – 15:00 Thursday	Zvipfuyo online marketing <b>Mugwamba A.</b>	Design of a Chicken Plucking Machine for Small Scale Farmers <b>Gamba T. et al.</b>	Attitudes towards PrEP and correlates of common mental disorder symptoms and substance use among young people <b>Nematadzira T.G. et al.</b>	Hydro-meteorological hazard vulnerability analysis and mapping of Zimbabwe using historical data and climate change projections <b>Manjowe M et al.</b>
15:00 – 15:15 Thursday	A Novel Payment System to Facilitate Increased Intra-African Trade under AFCFTA <b>Mahanzu T.E.</b>	Automated liquid detergent mixing machine for Small Medium Enterprises <b>Mapangela T et al.</b>	SARS-CoV-2 Infection among Students at a High School, Mashonaland West, Zimbabwe, December 2020 <b>Nhidza G. et al.</b>	Projected climate change scenarios reveal that biodiversity management practice in future won't be business as usual. <b>Zvidzai M.,</b>

15:15 – 15:30 Thursday	<b>FACULTY OF MEDICINE AND HEALTH SCIENCES</b> 	Towards transparency and improved enforcement of land transactions and development policies using GIS <b>Muchini R.,et al</b>	Adverse Pregnancy Outcomes Among HIV Infected Women Exposed to Isoniazid in Brief-TB <b>Samaneka W. et al.</b>	Formulation and production of latex examination gloves <b>Manjengwa B. et al.</b>
	Intelligent blood pressure monitors with status indicator <b>Paidaishe Karen Zowa et al</b>			
15:30 – 15:45 Thursday	The effect of nutrition on the onset of pathophysiology of neurotoxicity due to toluene <b>Nyatanga K.</b>	Design of a Water Pipe Leak Detection System <b>Muchirahondo D.A.</b>		Practical evaluation of the efficacy of using Jatropha seed oil in the synthesis of biodiesel as an alternative to conventional fuel in Zimbabwe <b>Pako F. et al.</b>
15:45 – 16:00 Thursday	Fighting Covid-19: Focus on the Deaf community in Zimbabwe Mutasa J et al	Design of an Efficient Potato Chips Making Machine <b>Mapfumo L</b>	An Evaluation of the Notifiable Disease Surveillance System - Chegutu District, Zimbabwe, 2020 <b>Chimsimbe M. et al.</b>	Recovery and purification of crude glycerol obtained from the transesterification of Jatropha seed oil <b>Pako F et al.</b>
16:00 – 16:15 Thursday	<b>FACULTY OF SCIENCE</b> 	Design of a non-intrusive low-cost system for driver drowsiness and inattention detection to reduce road traffic accidents in Zimbabwe <b>Thami &amp; Mushiri</b>	MOTHERHOOD! Using mobile tech to influence behaviour and improve maternal health outcomes <b>Matshazi J.</b>	Phytochemical fingerprinting and antiproliferative activity of extracts from the leaves of <i>Dolichos kilimandscharicus</i> (Fabaceae) on Jurkat-T cells <b>Sithole S et al.</b>
	A Cold Plasma Water Purification System for a Household <b>Murowe E.T. et al</b>			
16:15 – 16:30 Thursday		Mapping of Urban Sprawl Patterns using Night Lights <b>Useyu J.</b>	Neem Skincare Products <b>Masangudza N.</b>	
<b>END OF DAY</b>				

DAY 5: FRIDAY 27 AUGUST 2021 RESEARCH AND INNOVATION AWARDS AND OFFICIAL CLOSING CEREMONY		
Zoom link 		
08:30 – 08:45 Friday	Announcements, Housekeeping and Entertainment	Director of Ceremonies, <b>Dr M Madambi</b>
8.45 – 09:50 Friday	<b>HIGH LEVEL DIALOGUE ZOOM LINK</b>  <b>Marketing and Communication High Level dialogue</b> How can universities market their Education 5.0 philosophy goods and products? <b>Dr N Muzondo</b> (Faculty of Business Management Sciences and Economics), <b>Dr M Tapera</b> (Director Marketing and Communications CUT) <b>Mr D. Mambure</b> (Regional Director Marketing and Communication First Capital Bank), <b>Mrs S Muteyiwa</b> (Head Marketing and Communications, POTRAZ), <b>Mr G. Rusike</b> (Executive Secretary General of Marketers Association of Zimbabwe)	<b>Dr F.P. Mupambireyi</b> , Faculty of Business Management Sciences and Economics
9.50 – 10:00 Friday	Discussion	
<b>10.00-10.15</b> Friday	<b>HEALTH BREAK - - SPONSORS ADVERTS</b>	
10:15-11:30 Friday	<b>HIGH LEVEL DIALOGUE ZOOM LINK</b>  Riding on Education 5.0 Philosophy to Drive Zimbabwe’s Industrialization and Modernization Agenda: Moderator: <b>Prof F. Tagwira</b>  Discussants: <b>Hon Professor dr. Amon Murwira</b> Vice Chancellor UZ <b>Prof P. Mapfumo</b> Vice Chancellor CUT <b>Prof D. Simbi</b> Vice Chancellor GZU <b>Prof R.J. Zvobgo</b> Vice Chancellor MSU <b>Prof V.N. Muzvidziwa</b> Vice Chancellor HIT <b>Eng. Dr Q. Kanhukamwe</b> CEO ZIMCHE <b>Prof K Dzvimbo</b> CEO ZNCC <b>Mr C. Mugaga</b> CZI President <b>Dr H Ruzvidzo</b>  Discussions	Director of Ceremonies <b>Dr. M Madambi</b>
11:40– 11:45 Friday	Adjudication feedback by Chairman Research Week Quality Assurance Sub-Committee <b>Dr N Wekwete</b>	
11:45– 11:55 Friday	Entertainment	Director of Ceremonies, <b>Dr M Madambi</b>

11:55 – 12.05 Friday	Remarks by the Permanent Secretary of the Ministry Higher and Tertiary Education Innovation Science and Technology Development, <b>Prof F. Tagwira</b> and Introduction of the Guest of Honour	
12:05 – 13.15 Friday	Presentation of the University of Zimbabwe Research and Innovation Awards and Official Closing of the 2021 UZ Research Week by the Guest of Honour, Honourable Minister of Higher and Tertiary Education Innovation Science and Technology Development - <b>Prof dr. A. Murwira</b>	Vice Chancellor <b>Prof P. Mapfumo</b> ; Executive Director Research and Innovation <b>Prof. F. Mtambanengwe</b> / Manager Communications <b>Dr S Manyevere</b>
13.15 – 13.20 Friday	Entertainment	Director of Ceremonies, <b>Dr M Madambi</b>
13:20 – 13.30 Friday	Vote of Thanks, A/PVC Academic Affairs <b>Prof C. Dyanda</b> ,	

~~~~~**END OF PROGRAMME**~~~~~

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