



INTERNATIONAL CONFERENCE ON SCIENCE AND DEVELOPMENT

"Catalysing science innovations to accelerate development"

20-22 February 2020, Elephant Hills Hotel, Victoria Falls, Zimbabwe

CALL FOR ABSTRACTS

Great Zimbabwe University will host an international conference on Science and development with the theme "*Catalysing science innovations to accelerate development*". The conference is dedicated to the advancement of scientific, practical and policy-oriented approaches in tackling regional challenges on agriculture, environmental science, climate change, ICT, forecasting and modelling, biodiversity conservation, water and sanitation, energy resources and development. The conference will bring together researchers, development practitioners and policy makers from all over the world to analyse scientific options for development. We are calling for abstracts for papers on empirical studies, good practice and theoretical reviews on the above stated main theme:

SUB-THEMES

The sub-themes for the conference include but are not confined to the following:

1. AGRICULTURE AND FOOD SECURITY

- Crop production
- Soil science
- Horticulture
- Land reform and agriculture
- Policy issues in agriculture
- Livestock production
- Fisheries management

2. ENVIRONMENTAL SCIENCE, CLIMATE CHANGE AND DEVELOPMENT

- Applications of earth observation systems in development.
- Water management science and development.
- Invasion ecology.
- Biodiversity conservation issues in development.
- Applications of indigenous knowledge systems in resource management.
- Environmental health and safety systems in development.
- Recent climate change observations: the science, evidence and implications.
- Climate-smart agriculture and agro-ecology: identifying and addressing the convergences

- Climate-smart development initiatives.
- New dimensions in climate change science.
- Climate change and biodiversity conservation.
- Mining and mineral processing.

3. ICT AND DEVELOPMENT

- ICT and agriculture.
- ICT for sustainable development.
- Machine learning.
- Big data.

4. MATHEMATICAL MODELLING FOR DECISION MAKING AND DEVELOPMENT

- Financial mathematics
- Environmental modelling
- Mathematical Biology
- Mathematics of Industry
- Statistics and Operations Research
- Pure mathematics
- Mathematics of education

5. SUSTAINABLE ENERGY RESOURCES AND DEVELOPMENT

- Modelling of renewable energy systems.
- Innovations in sustainable energy applications and technologies.
- The utilisation of Renewable Energies: Challenges, Opportunities and Policies.
- Renewable Energy Resources: Solar, Wind, Biomass, Hydro, Bio-fuels and Geothermal energy.

6. CROSS CUTTING ISSUES

- Policy coherence and alignment in support of accelerated development and uptake of scientific innovations.
- Multi-sectorial: Experiences and opportunities/ challenges to embrace multi-sectorial approaches to enhance and accelerate the execution and delivery of science innovations.
- Institutional and human skills/ competencies to delivery of sustained and widespread systematic capacity to innovate and practice.
- Scientific perspectives of Gender and development.

7. PLANTS PRODUCTS AS ANTIMICROBIAL AGENTS

- Phytochemistry and Pharmacognosy
- Antimicrobial Resistance
- Novel therapeutics
- Clinical development and regulations
- The role of industry in Research and Development (R&D) and commercialisation of novel therapeutic products

Key-note speakers



Prof. Dr Ken Giller is an outstanding expert in the field of Plant Production Systems. He leads a group of scientists with profound experience in farming systems analysis to explore future scenarios for land use with a focus on food production at Wageningen University, the Netherlands. Ken's research has focused on smallholder farming systems in tropical regions with special attention for sub-Saharan Africa. In particular problems of soil fertility, the role of nitrogen fixation in tropical legumes, and the temporal and spatial dynamics of resources use within crop/livestock farming systems have this interest. He leads a number of large initiatives such as [N2Africa](#) (Putting Nitrogen Fixation to Work for Smallholder Farmers in Africa), [NUANCES](#) (Nutrient Use in Animal and Cropping Systems: Efficiencies and Scales) and [Competing Claims on Natural Resources](#).



Professor Dan Tevera

Prof. Daniel Tevera is a former chairman of the Department of Geography, Environmental Studies and Tourism at the University of the Western Cape (South Africa). His research focuses on resilience, but it is the domain of urban food systems, migrant spaces and urban informality that his recent work has focused on. He has published several books and many influential articles on migration and migrants, urban food security, waste management and environmental security. He has extensive research experience in southern Africa (especially, Zimbabwe, South Africa, Eswatini, Botswana, Lesotho and Namibia). He has participated in the Southern African Migration Programme (a consortium of Canadian and African researchers) as national team leader. He was part of the management team of the African Food Security Urban Network, a research, policy and capacity-building network of Canadian and African universities, NGOs and municipal governance networks. He is the inaugural Programme Coordinator of the Leadership for Environment and Development in Southern Africa (LEAD-SA).



Dr. Sandrine Gukelberger is interested in gendered approaches to societal and political change in the global South from a critical, ethnographic perspective. She completed her PhD on *Urban Politics after Apartheid* at Bielefeld University in Germany. She then continued to work as a substitute Junior Professor of Sociology of Internationalisation and Development at the Faculty of Social Sciences at Bochum University. Since October 2018 she has been based at the Chair of General Sociology and Cultural Sociology at the University of Konstanz as one of the principal investigators of the research project on *Youth Movements and Political Change*,

which is funded by the German Research Foundation. In this context she is currently researching off- and online youth activism in urban Senegal



Dr Dube Kaitano is an Ecotourism Management Lecturer and Researcher at the Vaal University of Technology. He is also an independent research contractor with the Institute of Corporate Citizenship at the University of South Africa and an Adjunct Physical Geography Lecturer at Monash University South Africa. He is one of the few tourism geographers in the African continent researching and publishing in the area of Sustainable Development Goals customisation and climate change within the tourism sector and tourism role players such as the aviation industry. Dr Dube has also published on agriculture and household food security. He has

published locally and internationally in top accredited and rated journals. He has twice coordinated and hosted Habitable Planet Workshops (HPW) that focused on training and promoting of postgraduate training of Earth systems science, SGDs and climate change in Africa in a project that is funded by CSIR and NRF and run by ACCESS.

Conference proceedings

All presented papers will be published in conference proceedings by the Great Zimbabwe University.

Important Dates

31 December 2019: **Closing date for the second call of abstracts.**

5 January 2020: **Last date for Notification of Acceptance.**

15 February 2020: **Registration and submission of full papers.**

20 to 22 February 2020: **Conference**

Conference Structure

The conference will be structured into six major components:

- Opening plenary session for keynote addresses and an invited science talk;
- Parallel sessions for oral presentation or selected research/technical papers, and case studies;
- Poster sessions aimed at displaying scientific findings, and to discuss these findings with attendees;
- Panel discussions for invited groups to share their perspectives on selected topics; and;
- Exhibitions of innovative products and services in line with the conference theme (scientific and non-scientific).

Abstract Format and Submission Process

Abstracts should follow the generic format of purpose, method, results, conclusions and recommendations. The abstract should be between 150 and 200 words and accompanied by a maximum of five key terms. Contact details and institutional affiliations should be included. Abstracts are to be submitted as word or pdf documents to: icsd@gzu.ac.zw, copy to research@gzu.ac.zw.

Conference Fees

For all accepted abstracts, the following conference fees structure will apply. The fees will cover lunches, teas and stationery (including conference bags).

Category of delegate	International (USD)	Local (RTGS)
Professionals	300	1300
Students	50	800
Corporates	400	4000

Other important information

Conference venue: Elephant Hills Hotel, Victoria Falls, Zimbabwe. Telephone [+2631344793](tel:+2631344793)
Negotiated rates to be advised in due course. Other hotels that are a short distance from the conference venue are:

Cresta Sprayview Hotel, Telephone [+2631344344](tel:+2631344344)
[Victoria Falls Hotel](#), Telephone [+2631344751](tel:+2631344751)
[The Kingdom Hotel](#), Telephone [+2631344275](tel:+2631344275)
[Ilala Lodge](#), Telephone +263832844737/8/9
[Victoria Falls Safari Lodge](#) Telephone [+2631343211](tel:+2631343211)

The conference language is English

Further Information

For more information please contact icsd@gzu.ac.zw phone +263 772208245 OR +263 39 254 085.

Account details

For Locals	For International Participants
Account Name: Great Zimbabwe University Bank: Commercial Bank of Zimbabwe Account No: 02520620340038 Branch: Masvingo	Account Name: Great Zimbabwe University Bank: Barclays/First Capital bank Account No: 25093209974 SWIFT code: BARCZWHXX Branch: Masvingo

International Advisory board and scientific Committee

NAME	Area of specialisation	INSTITUTION
Prof. C Ngongondo	Earth Sciences	University of Malawi
Dr P. Ncube	Disaster Risk Management	United Nations
Prof D. Chikodzi	Hydrology	University of South Africa
Prof E. Gandiwa	Wildlife ecology	Chinhoyi University of Technology
Dr E Chikodza	Mathematics	Great Zimbabwe University
Dr S Kusangaya	GIS and remote sensing	University of Zimbabwe
Prof P Gwirayi	Educational Psychology	Great Zimbabwe University
Prof M. Shoko	Soil Science	Great Zimbabwe University
Dr S Batasara	Sociology of climate change	University of Zimbabwe
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Dr M Sibanda	Health sciences	SM Health Sciences University
Dr E. Chazireni	Spatial epidemiology	Great Zimbabwe University
Prof J Mapira	Urban Geography	Great Zimbabwe University
Dr L Nhamo	Water resources management	IWRM, South Africa
Dr T. Maravanyika	Agricultural economics	Great Zimbabwe University

Local organising committee

Mrs N Marozhe- Administrator

Prof Mapira- Conference Chair

Committee members

Dr E Chazireni- C

Dr T. Maravanyinka

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For more details [Click here](#)