DRAFT CONFERENCE PROGRAMME

Tuesday, 25 July 2017

18:00 -	**Preconference Meet and greet cocktail event in the foyer of the Main venue and preconference registration.** **Welcome by the Pro Vice Chancellor and the Dean of the Faculty of Science and Engineering.**

CONFERENCE DAY 1
Wednesday, 26 July 2017

07:00-08:45	**Registration and coffee/tea – foyer of the Main Venue**
Venue	**Opening Session - Main venue**
08:45 – 08:55	**Welcome: Prof Heinz Beckedahl,** SAAG conference chair, University of Swaziland
08:55 – 09:05	**Opening**: The Ministry of Tourism and Environmental Affairs, Swaziland
09:05 – 10:00	**Keynote address** : *To be confirmed*
10:00 – 10:30	**Morning coffee/tea – foyer of the Main Venue**
Venue	**Main venue**
10:30 – 10:40	Address - **Venue sponsor**
10:40 – 12:00	• Biennial General Meeting of SAAG • Discussion: the Erosion Focus Group
12:00 – 12:30	**Session 1: Poster Session**
	Soil erosion prevention is better than cure in South Africa's only large river network without a dam – **Dr Jay le Roux, University of the Free State, South Africa** Investigating the genesis and management of the Gobholo granite cave system, Swaziland - **Mthobisi Masilela, Heinz Beckedahl and Paul Sumner, University of Swaziland and University of Pretoria, South Africa** Fluvial systems **- Renee Grundling, University of Pretoria, South Africa** *(title to be confirmed)* Mapping and monitoring the spatio-temporal variations of land degradation using multispectral remote sensing data. A case study of Sekhukhune District - **Terrence Sepuru, University of Limpopo, South Africa**
12:30 – 14:00	**Lunch – dining hall**

Venue	Main Venue	
Session	**Session 2 : Geomorphology in General**	
14:00 – 14:20	Overview of the geology and macro-geomorphology of the Swaziland region **– Profs Heinz Beckedahl and Thomas Schlüter, University of Swaziland**	
14:20 – 14:40	Southern African dust sources – **Dr Frank Eckardt, University of Cape Town, South Africa**	
14:40 – 15:00	Unmanned aerial vehicles (UAVs): applications for geomorphological research and use in South Africa **– Dr David Hedding, University of South Africa, South Africa**	
15:00 – 15:20	The opportunities posed by the geo-trail in regard to tourism in Swaziland and Mpumalanga, RSA **- Prof Thomas Schlüter, University of Swaziland**	
15:20 – 15:30	**Discussion**	
15:30 – 16:00	**Afternoon coffee/tea – foyer of the Main Venue**	
Venue	**Main Venue**	**Secondary Venue**
Session	**Session 3 : Cold climate geomorphology**	**Session 4 : Bio-geomorphology: the use of plants to achieve geomorphic (landscape) objectives**
16:00 – 16:20	Aeolian processes and sediment flux on sub-Antarctic Marion Island - **Mr Abuyiselwe Nguna, University of Fort Hare, South Africa**	Slopes stability improvement with vetiver system technology - **Dr Paul Truong, The Vetiver Network International, Australia**
16:20 – 16:40	Cosmogenic nuclide surface exposure dating: pitfalls and challenges for isolated fieldwork - **Ms Elizabeth Rudolph, University of the Free State, South Africa**	*Title to be confirmed*- **Ms Alexandra Kruger, Permaculture Education Africa, South Africa**
16:40 – 17:00	**Discussion**	**Discussion**

19:30 – 24:00	**Dinner and networking.**

CONFERENCE DAY 2
Thursday, 27 July 2017

Venue	Venue
Session	**Session 5 : Soil erosion and rehabilitation in theory and practice**
08:30 – 08:50	Manipulating the geomorphology of wetlands in minimising the impacts of erosion: a southern African wetland rehabilitation case study - **Dr Piet-Louis Grundling, NRM: Wetlands Programme, Department of Environment Affairs, South Africa**
08:50 – 09:10	An assessment of global rainfall erosivity – **Prof Werner Nel, University of Fort Hare, South Africa**
09:10 – 09:30	Principles for developing a catchment rehabilitation strategy: the case of the NLEIP in the Tsitsa catchment, South Africa - **Dr Benjamin van der Waal, Rhodes University, South Africa**
09:30 – 09:50	Vertical soil traps and Vetiver system for slope stabilization – **Mr Leonel Castro, Vetiver Inc, Guatemala**
09:50 – 10:20	**Discussion**
10:20 – 11:00	**Morning coffee/tea – foyer of the Main venue**
Venue	**Main Venue**
Session	**Session 6 : Geomorphology in General**
11:00 – 11:20	Landuse change and sedimentation on water reservoir in Upper Runde sub-catchment, Zimbabwe – **Dr Winmore Kusena, Midlands State University, Zimbabwe**
11:20 – 11:40	Understanding the relationships between land cover dynamics and soil erosion in former homelands of Limpopo, South Africa: A remote sensing perspective **– Dr Timothy Dube, University of Limpopo, South Africa**
11:40 – 12:00	Application of vetiver system technology for stream bank and coastal dike stabilisation in Vietnam - **Dr Paul Truong, Vetiver Network International, Australia**
12:00 – 12:20	GIS and Remote Sensing for Geomorphological Studies - **Dr Sizwe Mabaso, University of Swaziland, Swaziland**
12:20 – 12:40	**Discussion**
12:40 – 14:00	**Lunch – dining hall**
Venue	**Main Venue**
Session	**Session 7 : Fluvial geomorphology**
14:00 – 14:20	The evolution of channel incision in the Mara River, Kenya – **Prof Kate Rowntree, Rhodes University, South Africa**
14:20 – 14:40	The link between the physical river habitat template, aquatic ecology and water quality – **Ms Chantel Petersen, CSIR, South Africa**
14:40 – 15:00	Geomorphology applied: Typing river ecosystems and mapping river condition, National Biodiversity Assessment (NBA) 2018 – **Dr Lindie Smith-Adao, CSIR, NRE, South Africa**
15:10 – 15:30	**Discussion**
15:30 – 16:00	**Afternoon coffee/tea – foyer of the Main Venue**
Venue	**Main Venue**
Session	**Session 8 : The geomorphology of wetland systems**
16:00 – 16:20	Assessing geomorphologic disturbances of wetland ecosystem by wildlife and tourism activities. A case study of Dete Vlei in Hwange district, Zimbabwe – **Dr Thomas Marambanyika, Midlands State University, Zimbabwe**
16:20 – 16:40	Mapping the Swaziland wetlands using remote sensing **– Dr Althea Grundling, Agricultural Research Commission, South Africa**
16:40 – 17:00	**Discussion**
Evening free - Dinner for delegates' own account	

DAY THREE
Friday 28 July 2017

Practical course in the use of bio-engineering and Vetiver grass (*Chrysopogon zizanioides)* jointly organised by the Erosion Focus Group of the Land Rehabilitation Society of Southern Africa (LaRSSA) and the Vetiver Network International (TVNI)

Venue	**Venue, Kwaluseni Campus**	
08:00-08:30	**Registration and coffee/tea**	Secretariat
Time	**Item**	**Facilitator**
08:00-08:15	**Opening, welcome and outline of the Workshop**	*Heinz Beckedahl*
08:15 -09:00	**Slide show on the use of vetiver grass for phytoremediation applications**	*Paul Truong*
09:00 -09:20	**Understanding erosion processes – the key to successful rehabilitation work**	*Heinz Beckedahl*
09:20-10:45	**Introduction and overview for soil erosion process based rehabilitation using bio-engineering practices and vetiver grass** • Shaping and trimming of donga and gully side slopes including practical use of A-Frame for setting out contour lines. • Placing and installation of bio-engineering systems (sand bags, rock berms, silt fences and bio-jute erosion control netting). • General overview and introduction to the use of Vetiver grass for soil erosion applications.	*Roley Nöffke*
10:45–11:00	**Mid morning tea and coffee break**	

POSTCONFERENCE TOUR		
Depart: 11:00 **Return: 13:00**	Bus departs from Kwaluseni for field trips to: • The Kwaluseni erosion site • The Mkolo Forest pipeline rehabilitation site • The Nhlambeni sewerage works and the Ezulwini sewerage works to view environmental work stabilising side slopes using vetiver grass planted some 13 years ago.	**Facilitators:** *Heinz Beckedahl, Paul Truong and Roley Nöffke*

Delegates depart