



SAIAE Symposium 2016

5 – 8 September 2016

Berg & Dal Rest Camp, Kruger National Park, Mpumalanga

Preliminary Program

Monday, 5 September 2016

13:45	Delegates to meet at Malelane Sugar Mill
14:00	Visit to Malelane Sugar Mill and display of precision farming technology used in commercial sugar cane farming
16:00	Enter Kruger National Park at Malelane gate
17:00 – 18:00	Registration / Exhibitors to build exhibitions
19:00 -	Welcome event and braai

Tuesday, 6 September 2016

07:00 *Breakfast*

Opening session:

08:30 – 08:45	Welcome address – Isobel van der Stoep (SAIAE President)
08:45 – 09:15	Platinum Sponsor: Luriware Consulting Agricultural Engineers
09:15 – 09:20	Platinum Sponsor: ZZ2
09:20 – 10:00	Keynote address: Projections of Future Climate Change over Africa – Dr Francois Engelbrecht, CSIR
10:00 – 10:30	Upgraded paper: Designing engineering degree programmes that meet accreditation requirements: the case of an Agricultural and Biosystems Engineering degree programme at the University of Venda–Dr Moses Marenya, University of Venda
10:30 – 11:00	<i>Tea and viewing of exhibits</i>

Technical session 1: Food processing

Chairperson:

- 11:00 Science, Technology and Innovation in Agriculture
Lindile Ndabeni
- 11:25 Sugarcane production: Challenges in small scale and commercial farming
Martin Bahneman / Hestia Saayman
- 12:05 Considerations for packhouse design
Koos van Rensburg
- 12:30 PANEL DISCUSSION
- 12:40 Gold Sponsor - Grundfos
- 13:00 Briefing – afternoon field visits
- 13:15 Delegates prepare for afternoon field visits and collect lunch packs
- 14:00 Depart to afternoon field visits: agricultural engineering projects in Mpumalanga –two groups, delegates to choose which one they want to attend:
Field visit 1: Macadamia pack house and processing facility
Field visit 2: Fruit handling - farm to pack house
- 17:30 Return to Berg & Dal Rest Camp
- 18:00 Happy Hour – sponsored by Piket Implements
- 19:00 Dinner

Wednesday, 7 September 2016

- 07:00 *Breakfast*

Technical session 2: Production systems

Chairperson:

- 08:30 Water abstraction from the Limpopo River
Johan Grobler
- 08:55 Precision farming as a tool for resource management
Johannes van As
- 09:20 The development of a web-based project management and reporting system
Kobus Oosthuizen
- 09:45 Evaluation of a tractor instrumentation system for quantifying draft energy requirements
M. B. Mongwai, M. O. Marennya, P. F. Kapila, and J.P.O. Obiero
- 10:10 PANEL DISCUSSION
- 10:30 *Tea and viewing of exhibits*

Technical session 3: Hydrological modelling

Chairperson:

- 11:00 Development of a customised design flood estimation tool to estimate floods in gauged and ungauged catchments
O.J. Gericke and J.A. Du Plessis
- 11:25 Areal reduction factors for design rainfall estimation in the C5 secondary drainage region of South Africa
J.P.J. Pietersen, O.J. Gericke and Y.E. Woyessa
- 11:50 Direct estimation of catchment response time parameters in medium to large catchments using observed streamflow data
O.J. Gericke and J.C. Smithers
- 12:15 PANEL DISCUSSION
- 12:30 *Silver Sponsor – EVN Africa*
- 12:50 *Lunch and viewing of exhibits*
- 13:45 SAIAE Annual General Meeting
- 14:30 *Tea and viewing of exhibits*
- 15:00 Presentation and field visit – SANPARKS: Infrastructure and resource management in the KNP
- 17:30 Return to Berg & Dal camp
- 19:00 Gala dinner

Thursday 8 September 2016

07:00 – 08:00 *Breakfast*

Technical session 4: Environmental engineering

Chairperson:

- 08:30 Data acquisition for flow and sediment modelling: The case of Lotanyanda River, Limpopo Province
J.P.O. Obiero, M.O. Marenya, T.R. Nkuna, B.M. Mongwae & E.M. Baloyi
- 08:55 Impacts of Agricultural Flood Levees on the Lower Orange River
S. Dunsmore, R. Naidu & L. Terblanche
- 09:20 Kaalspruit River Rehabilitation: An Urban Agriculture Solution
S. Dunsmore & R. Naidu
- 09:45 Overcoming the barriers in adoption of biogas plants by the South African agriculture sector
P. P. Magama, K. Mugodo, M. O. Marenya
- 10:10 PANEL DISCUSSION
- 10:30 Conclusion of the symposium and acknowledgements
- 11:00 Symposium closes**

Platinum Sponsors



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Other

The logo for TheSunPays.co.za features the text 'www TheSunPays co.za' in a black, sans-serif font, with 'TheSunPays' in a larger, bold font.	The ECSA logo features a stylized blue 'E' and 'S' symbol above the letters 'E C S A' in a blue, sans-serif font.
The Westfalia fruit logo features the word 'westfalia' in a white, sans-serif font above the word 'fruit' in a white, sans-serif font, both set against a green oval background with a white border.	<p>Piket Implements</p>

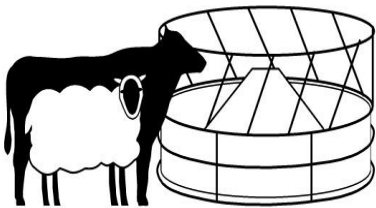


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