## Overberg

SPONSORED BY



|  |  |  |  |
| --- | --- | --- | --- |
|  |  |  |  |

**5 November 2015:** **Morning**

|  |  |
| --- | --- |
| 8:00 | REGISTRATION TEA/COFFEE |
| 8:30 | [Prof. L. van Huysteen, Executive Manager, Stellenbosch University](http://admin.sun.ac.za/admin/Finance/finance.html)  Welcome Address |
| 8:40 | Ms. J. Isaacs, Department of Agriculture, Western Cape  Sustainable soil management in the Western Cape |
| 8:55 | Dr. R. van Antwerpen, President SSSSA  Soil science in South Africa |
| 9:10 | Dr. J. Rees, Agricultural Research Council (To be confirmed)  The importance of SSM in South Africa and the role of Agricultural Research |
| 9:30 | [Prof. Rainer Horn, President IUSS](https://www.soils.uni-kiel.de/de/mitarbeiter-1/professoren/prof.-dr.-dr.-h.-c.-rainer-horn)  Soil Science Societies and their role in improving soil governance at a global level |
| 10:00 | TEA/COFFE |
| 10:20 | Ms. L. Wiese, Soil Researcher, ARC-ISCW  Sustainable Soil Management: a pillar of the Global Soil Partnership |
| 10:40 | Mr Adam Mostert, CEO FERTASA  Sustainable management of soil fertility and plant nutrition |
| 11:00 | [Prof. R. Scholz](http://www.uns.ethz.ch/people/formerhead/scholzr), ETH Zürich  Peak Phosphorus and sustainable P supply |
| 11:30 | [Prof. K. Giller](https://www.wageningenur.nl/en/Persons/prof.dr.-KE-Ken-Giller.htm), Soil Science, Wageningen University  N2Africa: Putting nitrogen fixation to work for smallholder farmers in Africa |
| 12:00 | Dr. W.H. Hoffmann, SU  Land use options: the importance of appropriate planning horizons |
| 12:25 | Prof. K. Jacobs  Soil biodiversity in sustainable soil management |
| 12:45 | J. Harper, Dr. H. Hawkins, Prof. K. Dzama, Stellenbosch University  Can we take a systems approach to agriculture? Assessing the Sustainable Agriculture Masters curriculum |
| 13:00 | LUNCH |

5 November 2015: Afternoon

|  |  |
| --- | --- |
| 14:00 | **Special Events** |
| 1. **Theoretical problems and conflicts of sustainability, development and globalization.** | |
| 14:00 – 14:30 | Dr. A. Rozanov, Soil Science, Stellenbosch University  Philosophy and Principles of Sustainable Soil Management |
| 14:30 – 14:40 | Questions and discussion |
| 14:40 – 15:10 | Prof. R.M.B. Auerbach  Vested interests and the anti-organic lobby |
| 15:10 - 15:20 | Questions and discussion |
| 15:20 – 15:50 | Dr. J. Van Breda  Multidisciplinary approach to sustainable soil management |
| 15:50 – 16:00 | Questions and discussion |

|  |  |
| --- | --- |
| 1. **Soil Fertility and Plant Nutrition – Moderator: Adam Mostert, CEO, FERTASA** | |
| 14:00 – 14:30 | Ms. Corrie Swanepoel, Soil Researcher, ARC-ISCW  Review and meta-analysis of soil organic matter dynamics in cultivated soils of southern Africa |
| 14:30 – 14:40 | Questions and discussion |
| 14:40 – 15:10 | Dr Christo Malan, MD, Agrilibrium Cape  Review of Humic and Fulvic acids: A Practical Approach |
| 15:10 - 15:20 | Questions and discussion |
| 15:20 – 15:50 | Dr Johan Labuschagne, Dept of Agriculture, Elsenburg  The effect of tillage and crop production practices on soil health |
| 15:50 – 16:00 | Questions and discussion |

|  |  |
| --- | --- |
| 1. **Practical soil management solutions to sustainability challenges in horticulture and pasture management – Moderator: Peter Greeff** | |
| 14:00 – 14:20 | Peter Greeff  Introduction: Understanding the basics of soil management in cultivated crops |
| 14:20 – 14:30 | Questions and discussion |
| 14:30 – 14:50 | Ettienne Naude  Soil Management approach and experience in Table Grapes |
| 14:50 – 15:00 | Questions and discussion |
| 15:00 – 15:20 | Retief du Toit  Soil Management approach and experience in Fruit Orchards |
| 15:20 – 15:30 | Questions and discussion |
| 15:30 – 15:50 | Dr. Pieter Swanepoel, Researcher, Dept of Agronomy, University of Stellenbosch  Benefits and challenges of no-tillage pasture systems: Lessons from soil quality assessment |
| 15:50 – 16:00 | Questions and discussion (+general) |

|  |  |
| --- | --- |
| 16:00 | TEA/COFFE |
| 16:20 | Feedback from Special Events and PANEL DISCUSSION |

**19:00 SPITBRAAI: The lawn of the Lombardi building, Victoria street.**

**6 November 2015: Morning**

|  |  |
| --- | --- |
| 8:10 | TEA/COFFEE |
| 8:30 | Department of Environmental Affairs representative  Environmental importance of sustainable soil management |
| 8:45 | Dr H. Smith, Conservation Agriculture Facilitator, GrainSA  Farmer-led Innovation in Conservation Agriculture and soil management in South Africa |
| 9:05 | Dr. P.L. Grundling  The impact of catchment degradation on the ability of peatlands in South Africa to sequestrate carbon |
| 9:25 | Mr. L. Lindeque – Department of Agriculture, Forestry and Fisheries  Soil degradation and desertification in SA |
| 9:40 | [Prof. Rainer Horn, President IUSS](https://www.soils.uni-kiel.de/de/mitarbeiter-1/professoren/prof.-dr.-dr.-h.-c.-rainer-horn)  Soils are sensitive reactors - do we need a paradigm change towards a more sustainable soil or land use?” |
| 10:00 | TEA/COFFEE |
| 10:30 | Dr. A. McLeod, Plant Pathology, Stellenbosch University  Biofumigation and anaerobic soil disinfestation for managing soilborne plant diseases |
| 10:50 | Dr. A. Hardie, Soil Science, Stellenbosch University  The effect of fertilizer on organic matter decomposition and sequestration |
| 11:15 | Dr. A. Grundling – Senior Researcher, ARC-ISCW  Developing the Hydrological Database for inclusion into the ARC-ISCW Soil Information System |
| 11:35 | Mr. A. van Zyl, Terrasim  Designing multi-functional sustainable soil covers for rehabilitated mine land in Mpumulanga |
| 11:55 | Auerbach, RMB, Mashele, N-J, van Niekerk, A & Eckert, C.; NMMU  Organic Farming Research: Preliminary results from the Saasveld long-term comparative trials |
| 12:15 | Ms. K. Capp, Stellenbosch University  Bio-indicators: why nematodes could be the key |
| 12:35 | Dr. S. Lamprecht  Managing crop rotation for suppression of soil borne plant diseases |
| 13:00 | LUNCH |
|  |  |

6 November 2015: Afternoon

|  |  |  |
| --- | --- | --- |
| 14:00 | **Special Events** | |
| 1. **Practical soil management solutions to sustainability challenges in grain production: Moderator – Dr Hendrik Smith, CA Facilitator, Grain SA** | | |
| 14:00 – 14:20 | | Mr. Richard Krige - CA crop-livestock farmer, Boontjieskraal, Heidelberg, Western Cape  The ABC of soil management on a mixed crop-livestock enterprise in the Overberg |
| 14:20 – 14:30 | | Questions and discussion |
| 14:30 – 14:50 | | Mr. Bertie Coetzee – CA crop-livestock farmer, Lowerland, Prieska, Northern Cape  Soil health: practices, observations and speculations from Prieska. |
| 14:50 – 15:00 | | Questions and discussion |
| 15:00 – 15:20 | | Erna Kruger – CA smallholder facilitator, Mahlathini Organics, KwaZulu-Natal & Eastern Cape  Optimising the conservation agriculture system for non-commercial and semi commercial smallholders. |
| 15:20 – 15:30 | | Questions and discussion |
| 15:30 – 15:50 | | Mr. Nicolas Madondo – CA smallholder farmer & facilitator, Bergville, KwaZulu-Natal & Eastern Cape  Facilitation of conservation agriculture among smallholders: lessons learned and insights. |
| 16:50 – 16:00 | | Questions and discussion (+general) |

|  |  |
| --- | --- |
| 1. **Soil Fertility and Plant Nutrition: Moderator – Adam Mostert, CEO, FERTASA** | |
| 14:00 – 14:30 | Dr. Andrei Rosanov, Dept of Soil Science, University of Stellenbosch  Plant growth hormones and stimulants |
| 14:30 – 14:40 | Questions and discussions |
| 14:40 – 15:10 | Dr. Pieter Swanepoel, Researcher, Dept of Agronomy, University of Stellenbosch  Nutrient loading of pasture soil in the temperate dairy production region of South Africa |
| 15:10 – 15:20 | Questions and discussions |
| 15:20 – 15:50 | Dr. Pieter Raath, General Manager, Bemlab  The use of leaf analysis as an indicator of nutritional status of permanent crops |
| 15:50 – 16:00 | Questions and discussions |

|  |  |
| --- | --- |
| 16:00 | TEA/COFFE |
| 16:30 | PANEL DISCUSSION and ADOPTION OF RESOLUTION |