

Programme

Sunday, September 18th 2011

18.00 – 20.00 *Icebreaker – Down Under bar*
Registration – Lobby

Monday, September 19th 2011

07.30 *Registration desk open - Lobby*

08.30 – 08.50 **OPENING ADDRESS** – *Haakzaal*
Peter de Ruiter, Chair of the Scientific Committee

08.50 – 09.00 **SHORT ADDRESS** – *Haakzaal*
John Sadler, co-ordinator of the research theme "The Natural Resources Challenge" of the OECD Co-operative Research Programme on Biological Resource Management for Sustainable Agricultural Systems

THEME 1: GLOBAL FOOD SECURITY

Chair: Prem Bindraban

09.00 – 09.25 **KEYNOTE** – *Haakzaal*
Hans Eenhoorn, retired vice president Unilever Food, member UN Task Force on Hunger
The fight against chronic hunger: a holistic and entrepreneurial approach

09.25 – 09.50 **KEYNOTE** – *Haakzaal*
Bruce Campbell, CCAFS, Denmark
Ensuring food security in the face of climate change

09.50 – 10.30 *Plenary discussion - Haakzaal*

10.30 – 11.00 *One minute poster pitches – Haakzaal*

Presented posters:

Etienne Bahr: Effects of different N-fertilizers on nitrogen mineralization and microbial activity in colluvial and upper slope soils of southern Ecuador

Harm Bartholomeus: Improved spectral estimation of multiple soil properties by stratification on ancillary and spectral data

Janjo de Haan: Less organic matter input reduces nitrate leaching, crop yield and soil quality on a sandy soil in the Netherlands

Olivier Dewitte: Predicting gully initiation susceptibility with common spatial data

Annemieke Gärdenäs: Modeling potential long-term accumulation of radionuclides in the soil-plant-system originating from an eventual groundwater contamination

Ciro Gardi: Use of corine land cover data for the evaluation of land take impact on soil resources at European scale

Simone Verzandvoort and Erik van den Elsen: The DESIRE project: desertification mitigation and remediation of land - a global approach for local solutions

Sherif Lushaj: Land /soil erosion and measure planning control in Albania

Evgeny Milanovskiy: Hydrophilic and hydrophobic components of soil humic substances: distribution, stability and function

Titia Mulder: The use of remote sensing for soil mapping at regional scale

Jordana Ninkov: Copper levels and distribution in soils of active and abandoned vineyards at the Vršac site in Serbia

Birthe Paul: Effects of conservation agriculture on crop yields, soil aggregation, and C & N dynamics in a soybean-maize rotation in western kenya

Emmanuel Frossard: Nutrient use and dynamics in conservation agriculture including legumes in the midwest of the Malagasy highlands

Endla Reintam: Soil productivity losses due to compaction in Estonia

Angela Straathof: Do soil amendments applied for the suppression of plant pathogens influence dissolved organic carbon pools?

Guy Thallon: Approaches to integrated spatial data management for the provision of soil ecosystem services and food security

Gergely Tóth: Land availability, soil productivity and food security in the European union: status and prospects

Petra van Vliet: Dealing with soil heterogeneity to reach a more sustainable agriculture

Ann Verdoodt: Adequacy of legacy soil data for agricultural land suitability and land degradation assessments – the case of Rwanda

11.00 – 11.30 Coffee break – *Terraszaal and Wolfswaardzaal*

11.30 – 13.00 **PARALLEL SESSION**

2 workshops or masterclasses

- 11.30 – 13.00 – *Paul Römken, Piet Otte, René Rietra and Johannes Lijzen* *Tomislav Hengl, Hannes Reuter and Gerard Heuvelink*
 'Soils and the city': Risk assessment tools to assess the impact of urban soil quality on human health *Pomonazaal 1*
 Global Soil Information Facilities
Pomonazaal 2

2 sessions with 6 oral presentations

Session 1.1: Nutrient management for food security – *Peppelzaal 1 and 2*

Session 1.2: Assessing physical, chemical and biological soil functioning for food security – *Haakzaal*

- Chair: Kristin Vala Ragnarsdottir (Univ. of Iceland)
 Chair: Prem Bindraban (ISRIC, Wageningen UR)
- 11.30 – 11.45 – *Maurits van den Berg*
 Potential impacts of resource efficiency strategies on global agricultural land and phosphorus use
Albert Materechera
 The NEWSTART eco-garden: an innovative food production system for smallholder farmers
- 11.45 – 12.00 – *Marijn van de Velde*
 Maize nutrient response in tropical and subtropical regions as evidenced from historic crop trials
Walter Schenkeveld
 The effectiveness of chelates in preventing iron deficiency in crops
- 12.00 – 12.15 – *Delwende Innocent Kiba*
 Understanding the importance of the diversity of sites and fertilizations practices on soil fertility and lettuce production in urban areas of Burkina Faso
Liming Ye
 A theoretical framework for assessing food security and food policy effectiveness in China
- 12.15 – 12.30 – *Lulseged Tamene*
 Assessing the role of atmospheric fertilization in concealing the severity of land degradation in West Africa
Gerard Korthals
 Improvement and monitoring soil health
- 12.30 – 12.45 – *Kristin Vala Ragnarsdottir*
 Development of soil sustainability indicators
Raymond Jongschaap
 Crop yield gap and gap in soil information
- 12.45 – 13.00 – *Christy van Beek*
 Evaluation of nutrient management strategies at farm level in Ethiopia for improved food production
Willem Hoogmoed
 Can food security be achieved in Africa without tillage?
- 13.00 – 14.30 Lunch with postersession – *Terraszaal and Wolfswaardzaal*

THEME 2: WATER RESOURCES

Chair: *Leo Stroosnijder*

- 14.30 – 14.55 **KEYNOTE** – *Haakzaal*
Victor Jetten, ITC, Twente University, The Netherlands

- Using soils information in natural disaster analysis: value for money
- 14.55 – 15.20 **KEYNOTE** – *Haakzaal*
Neil McKenzie, CSIRO Land and Water, Australia
Soil knowledge and the global water challenge
- 15.20 – 16.00 Plenary discussion - *Haakzaal*
- 16.00 – 16.30 One minute poster pitches – *Haakzaal*
- Presented posters:
- Manuel Seeger*: Estimation of mean flow velocity of overland flow in a flume
- Manuel Seeger*: Influence of hydraulic parameters on sediment transport under shallow flows
- Olivier Dewitte*: Towards the reproducibility in soil erosion modeling: a new pan-European soil erosion map
- George Citu*: Heavy metals concentrations in soil and water on the Rosia Montana area
- Steve Crittenden*: Effect of reduced soil disturbance on earthworm density and diversity and soil physical quality
- Pietro Teatini*: Saltwater contamination in the Venice lagoon margin, Italy. 1: the influence of the geomorphological setting
- Geertje Enting*: Project WaterSense, an integral Decision Support System (DSS) for watermanagement
- Anwar Aly*: Impact of irrigation management on water table fluctuation and soil salinity in Siwa oasis
- Mirko Knezevic*: Analysis of yield of wine grapes on brown soil on gravel and conglomerate in Bjelopavlicka plain – Montenegro
- Dario Mantovani*: Water use efficiency of bioenergy crops on degraded soils in southern Brandenburg – a comparison between black locust and giant knotweed
- Demie Moore*: Soil water repellency – a confounding factor in soil and water management
- Joao Saad*: Rational use of water using irrigation suppression in one of the bean phenological stages
- Evgeny Shein*: Granulometric composition of soils: the problems of preparation and analysis by different methods
- Jannes Stolte*: Snowmelt driven discharge modeling for a small catchment in Norway
- Leo Stroosnijder*: Assessment and mitigation of droughts in African Drylands

Gerson van Luijk: Quantification of ecosystem services in the Baviaanskloof, South Africa

Domenico Ventrella: Simulation of soil water dynamics in an irrigated district of southern Italy

Bernard Voortman: The future groundwater recharge: evapotranspiration response of natural vegetation to climate change

Shangguan Wei: Land use as a stress factor to soil diversity and its protection in China

16.30 – 17.00 Coffee break – *Terraszaal and Wolfswaardzaal*

17.00 – 18.30 **PARALLEL SESSION**

2 workshops or masterclasses

17.00	–	<i>Hans Reuter</i>	<i>Thom Kuyper</i>
18.30		Green water credits, Soil and Water Conservation in Africa <i>Pomonazaal 1</i>	Revitalizing Soil Science Education – how to maintain pedological literacy <i>Pomonazaal 2</i>

2 sessions with 6 oral presentations

Session 2.1: Water use efficiency and water harvesting in dry lands –
Haakzaal

Chair: Leo Stroosnijder (Wageningen University)

Erik van den Elsen

17.00 – 17.15 The Water Reuse project: optimization of water use efficiency and use of treated waste water in different European agricultural settings

17.15 – 17.30 *Eli Argaman*
An innovative approach for analyzing water balance of a Liman system in the northern Negev Desert, Israel

17.30 – 17.45 *Abdulaziz Alharbi*
The effect of mulching on the surface energy balance and key soil physical variables, under Sub-humid and Semi-arid conditions

17.45 – 18.00 *Mitchell Pavao-Zuckermann*
Soil knowledge for improving urban environments and greening cities

Session 2.2: Soil as a filter –
Peppelzaal 1 and 2

Chair: Saskia Keesstra (Wageningen University)

Violette Geissen

Effects of commercial banana production on water quality: an example from tropical Mexico

Kim Mosse
Effects of winery wastewater application on soil physicochemical and biological properties

Sirpa Piirainen
Do forestry operations decrease the ground water quality for household use?

Loes van Schaik
Explicit parameterization of macropore flow based on earthworm species distribution models

18.00 –	<i>Birhanu Temesgen</i>	<i>Elia Scudiero</i>
18.15	Participatory development of in-situ rainwater harvesting techniques through field experimentation and modeling with the FAO's Aquacrop model	Saltwater contamination in the Venice Lagoon margin, Italy. 2: the influence on the soil productivity. First results.
18.15 –	<i>Demie Moore</i>	<i>Minze Leistra</i>
18.30	Optimizing Soil and Water Productivity through Management of Soil Water Repellency	How uniform are water flow and pesticide transport in cultivated sandy soils?
18.30 – 20.00	Snacks with refreshments and poster session – <i>Terraszaal and Wolfswaardzaal</i>	

