

Programme ITC PhD day, June 1, 2010

Location: Auditorium ITC

09:00 **Introduction:** Prof. Dr. Ir. Tom Veldkamp, Rector ITC

09:15 **Keynote 1:**

- **Prof.dr. Stefan Luding**, Multi Scale Mechanics, TS, CTW, University Twente,
"Continuum-models for particle flows"

10:00 **Session 1: Earth Sciences**

Chair: Prof.dr. Freek van der Meer

- **Mr. Juan Francisco Sanchez Moreno (Colombia)**
"Variability of hydraulic conductivity patterns in a heterogeneous and mountainous catchment. Case study Ribeira Seca, Santiago Island, Cape Verde"
Research theme: Disaster Management (DMAN)
- **Ms. Mila Luleva (Bulgaria)**
"Tracing Soil Particle Movement using Potassium Nitrate and Infrared Spectral Response"
Research theme: Earth Systems Science
- **Mr. Ma Xiaogang (China)**
"Taking more gold out of rock: modelling the compositing of borehole metal-grade intervals"
Research theme: Earth Systems Science

11:00 Coffee break (Poster session)

11:20 **Session 2: Natural Resources**

Chair: Prof.dr. Andrew Skidmore

- **Mr. Babak Naimi (Iran)**
"Positional Uncertainty Propagation Analysis in Habitat Distribution Modelling"
Research theme: Biodiversity in Fragmenting Landscapes
- **Mr. Mobushir Riaz Khan (Pakistan)**
"Remote sensing and GIS based analysis for mapping agricultural land use"
Research theme: Food Security and Environmental Sustainability
- **Ms. Claudia Pittiglio (Italy)**
Title to be provided
Research theme: Biodiversity in Fragmenting Landscapes
- **Ms. Tyas Basuki (Indonesia)**
"Optimizing estimation of tropical forest biomass using spectral mixture analysis"
Research theme: Biodiversity in Fragmenting Landscapes

12:40 Lunch¹ (Poster session)

13:30 **Keynote 2:**

- **Dr. Joseph Akinyede**, ITC PhD alumnus 1990, Executive Director, African Regional Centre for Space Science and Technology Education (ARCSSTE-E), Ile-Ife, Nigeria
"On being a scientist: life after PhD at ITC"

14:00 **Session 3: Governance and Climate**

Chair: Prof.dr. Jaap Zevenbergen

- **Ms. Christine Richter (Germany)**
"Spatial Data Infrastructure in urban planning practices in India"
Research theme: Informed Multilevel Governance of Urban Regions
- **Ms. Monica Lengoiboni (Kenya)**
"Pastoralism within Land Administration in Kenya: The missing link"
Research theme: Land Administration for Informed Governance
- **Mr. Yaseen Mustafa (Iraq)**
"BNMFGE: Bayesian Network Modeling for Improving Forest Growth Estimates"
Research theme: Carbon Cycle and Climate

15:00 Tea break (Poster session)

15:20 **Session 4: Water Resources**

Chair: Prof.dr. Bob Su (to be confirmed)

- **Mr. Fouad AlKhaier (Syria)**
"Using water temperature in observation groundwater level fluctuation in shallow groundwater systems"
Research theme: Water Cycle and Climate
- **Mr. J. Timmermans (Netherlands)**
"Retrieval of Land Surface Parameters over complex Landcovers: The Benefit of Multi-Directional Viewing"
Research theme: Water Cycle and Climate

16:00 **Keynote 3:**

- **Prof.dr.ir. Peter-Paul Verbeek**, Center for Philosophy of Technology and Engineering Science (CEPTES), University Twente
"Technology and Morality: Understanding and Designing the Ethics of Technologies"

16:45 Discussion and conclusions

17:00 End of day, drinks in Annex

Presentation of the "best oral presentation" and "best poster" awards

¹ Lunch provided for keynote speakers, PhD presenters, organizing committee, chairs, and ITC PhD students (on registration). Other staff and MSc students are requested to use the normal restaurant facilities.

Contributions to poster session:

Alain Frances (WCC)

1. *"Spatio-temporal groundwater recharge assessment using pyEARTH-2D"*
2. *"Hard rock aquifer characterization using hydrogeophysics and numerical model"*
3. *"Topsoil thickness prediction by data-integration of field survey, geophysics and remote sensing"*

Mustafa Gokmen (WCC)

"Towards an improved mapping of evaporative fraction and evapotranspiration in semi-arid regions"

Mila Luleva (ESS)

"Tracing Soil Particle Movement using Potassium Nitrate and Infrared Spectral Response"

Yaseen Mustafa (C-Cycle)

"Bayesian Network Modeling for Improving Forest Growth Estimates"

Khamarrul Razak (DMAN)

"The effectiveness of airborne laser scanning data for landslide mapping over tropical rainforest"

Sumbal Saba (DMAN)

"Spatio-temporal landslide detection after a major earthquake"

Rishiraj Dutta (DAQUAL)

"Effects of Plant Age and Environmental and Management Factors on Tea Yield in North East India"

Mobushir Riaz Khan (FSES)

1. *"Quantitative monitoring of crop production systems"*
2. *"Integrating soil information in a model for mapping crop areas"*

Jury for the "best oral presentation" and "best poster" awards:

The chairpersons, each for the oral presentations in their own session and all posters:

Prof. Freek van der Meer
Prof. Andrew Skidmore
Prof. Bob Su (to be confirmed)
Prof. Jaap Zevenbergen (to be confirmed)

Staff (all oral presentations and posters):

Dr. Paul van Dijk, Head Research
Dr. David Rossiter, coordinator Module 11

PhD students (all oral presentations and posters):

Sabrina Carvalho
Clarisse Kagoyire
Pankaj Jaiswal