



PROGRAMME

BruHyp Airborne Imaging Spectroscopy Workshop 2012

Tuesday 4 September 2012

Grand Hotel Casselbergh, Bruges - Belgium



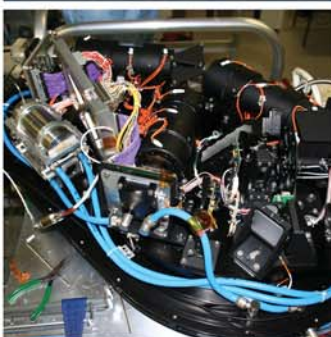
9:00 - 10:00 **Registration and coffee**

10:00 **Opening**
 Johan Stessens, VITO



10:15 Keynote: Hierarchical representation of hyperspectral images using binary partition trees
 (Jocelyn Chanussot - GIPSA-Lab, Grenoble Institute of Technology,
 Silvia Valero - GIPSA Grenoble/UPC Barcelona and Philippe Salembier - UPC Barcelona)

10:45 APEX sensor and data calibration & flight data acquisition to higher level products
 (Andreas Hueni, Koen Meuleman, Sindy Sterckx, Michael Jehle, Kristin Vreys,
 Bart Bomans, Johan Mijndonckx, Bart Michiels, Jan Biesemans, Tim Deroose,
 Michael Schaepepman and the APEX Team)



11:25 Deriving water quality from APEX imagery
 (Els Knaeps, Dries Raymaekers, Sindy Sterckx and Daniel Odermatt)

11:45 Mapping the spatial variability of optical properties in Mantua lakes with the APEX sensor
 (Mariano Bresciani, Claudia Giardino, Erica Matta, Federica Braga and Marco Bartoli)

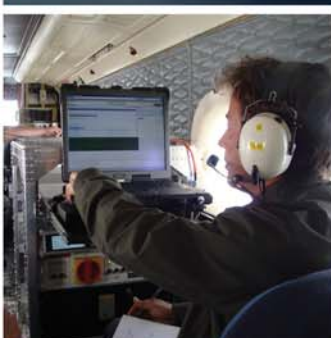
12:05 Littoral bottom mapping and water constituent retrieval in lakes using APEX data,
 the bio-optical model BOMBER and submersed artificial surfaces
 (Sebastian Roessler, Patrick Wolf, Thomas Scheider and Arnulf Melzer)



12:25 - 13:50 **Lunch**

13:50 Improved target detection in urban area using combined LiDAR and APEX data
 (Michal Shimoni and Koen Meuleman)

14:10 Mapping urban land cover from APEX hyperspectral data: a case study on the Woluwe
 catchment, Brussels
 (Luca Demarchi, Jonathan C.-W. Chan and Frank Canters)



14:30 SOC3D: three dimensional soil organic carbon monitoring using VNIR reflectance spectrometry
 (Leonardo Ramirez-Lopez, Kim Knauer, Bas van Wesemael, Martin Schlerf,
 Antoine Stevens, Thomas Udelhoven and Lucien Hoffmann)



- 14:50 Integrated sensing to support fertilization management in precision agriculture
(**Lammert Kooistra**, Jan Verbesselt, Petra van Vliet, Jacob van den Borne and Wilco van der Velde)



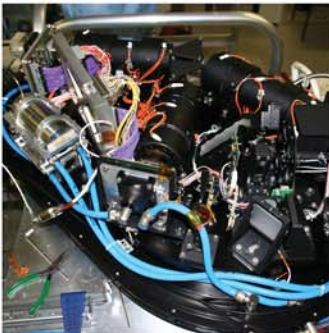
- 15:10 Preparing for the EnMAP satellite mission – test and evaluation of the EnMAP-box for the retrieval of agriculturally relevant biophysical variables using APEX data
(**Tobias Hank**, Katja Richter, Matthias Locherer and Wolfram Mauser)

15.30 - 16.00 Coffee break



- 16:00 APEX for heathland and coastal vegetation monitoring applications: first results and ongoing activities
(**Birgen Haest**, Jeroen Vanden Borre, Toon Spanhove, Luc Bertels, Markus Reinhold, Sebastian Schmidlein, Stephanie Delalieux, Sander Veraverbeke, Els Knaeps and Désiré Paelinckx)

- 16:20 On the use of APEX data for a spatially explicit mapping of vegetational composition and habitat types in a dryland nature reserve
(**Carsten Neumann**, Daniel Spengler and Sibylle Itzerott)



- 16:40 Change detection in the case of continuous gradients in species composition
(**Sebastian Schmidlein**, Ulrike Faude, Hannes Feilhauer and Markus Reinhold)

- 17:00 A multiscale segmentation approach to filling the gap of strip dark line in APEX hyperspectral imageries
(**Zahra Dabiri**, Stefan Lang and Thomas Blaschke)

- 17:20 Retrieving the bioenergy and biomass potentials from energy crops using APEX and HyMap data
(**Thomas Udelhoven**, Miriam Machwitz, Martin Schlerf, Christian Bossung, Laura Giustarini and Lucien Hoffmann)



- 17:40 APEX and LiDAR remote sensing supporting fine-scale forest management
(**Ben Somers**, Pieter Kempeneers, Flore Devriendt, Frieke Vancoillie and Kris Vandekerckhove)

- 18.00 APEX data and animal movement patterns: mapping vegetation quantity and quality in the Swiss National Park
(**Anna-Katharina Schweiger**, Maja Rapp, Alexander Damm, Anita C. Risch and Ruedi Haller)



- 19:00 Tour and dinner in Brewery "De Halve Maan"**