

LUXEMBOURG EARTH OBSERVATION AND INTEGRATED APPLICATIONS DAY

SPACE APPLICATIONS IN ENVIRONMENTAL MANAGEMENT

19 APRIL 2018

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This year's conference will address the current and future status of space applications, among others in the areas of Crisis Management, Precision Agriculture and Environmental Monitoring and Management, with a particular focus on the integration of satellite, airborne, UAV drones and field data together with global navigation satellite systems and satellite-based communication systems.

An overview of the ESA and Copernicus programmes, the current status of Luxembourg EO activities, such as the Collaborative Ground Segment, and an insight into recent advances in remote sensing research and applications will be provided.

Objectives

The conference aims to increase awareness among users and service providers within the Greater Region of the potential that space technologies offer in the domain of environmental monitoring and management. Representatives from the private and public sectors, institutional entities and academia will have the opportunity to present their activities in the Earth Observation domain.

Program

This event will include the following activities:

- Round table entitled "Which are the business opportunities in EO?"
- Invited oral presentations given by public and private actors from the Greater Region and abroad.
- Poster session open to participants to present their activities in the space sector

IMPORTANT DATES Poster abstract submission: **29 March 2018**

REGISTRATION FEE Free of charge

VENUE

Mondorf Parc Hotel
Bâtiment Al Thermen
Avenue des Bains
L-5601 Mondorf-les-Bains

CONTACT

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More details and registration on
www.list.lu/en/event/leoday2018/

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PROGRAM

OPENING SESSION

Chair: Chair: Carlos LOPEZ-MARTINEZ, Lead of the Remote Sensing and Natural Resources Modelling Group, Luxembourg Institute of Science and Technology (LIST)

08.50 Welcome address from LIST

Prof. Dr Lucien HOFFMANN, Director of Environmental Research and Innovation Department, Luxembourg Institute of Science and Technology

09.00 Overview of Luxembourg's space policy

Marc SERRES, Space Affairs, Ministry of Economy (L)

09.15 How FNR funding tools can contribute to excellent research collaborations

Dr Andreea MONNAT, FNR (L)

09.30 Introduction to the Integrated Application Programme (IAP)

Norbert HÜBNER, Head of Feasibility Studies Section, Downstream Business Applications Department, European Space Agency (NL)

09.45 The Luxembourg Copernicus collaborative ground segment hub

adwäisEO, Ministry of Economy, Luxembourg Institute of Science and Technology (L)

10.00 Presentation of the Copernicus program

Emanuele BARRECA, Policy Officer - Space Data for Societal Challenges and Growth European Commission - Space Policy, Copernicus and Defence Directorate I @ DG GROW (B)

10.15 Round table "Which are the business opportunities in EO?"

11.00 Coffee-break

PRECISION AGRICULTURE

Chairs: Olivier BECU, European Space Agency and Miriam MACHWITZ, Luxembourg Institute of Science and Technology

11.30 WatchITgrow®: monitoring potatoes from space

Isabelle PICCARD, VITO (B)

11.45 Weed detection and classification using high resolution UAV imagery

Gilles ROCK, GEOCOPTIX (D)

12.00 YPANEMA: Sentinel-2 data for site specific wheat management

Bernard TYCHON, Arlon Campus Environment, Université de Liège (B)

12.15 BIOSCOPE: A farmers' perspective to remote sensing

Tamme VAN DER WAL, AeroVision B.V. (NL)

12.30 Lunch and posters session

OPENING AFTERNOON SESSION

Chair: Carlos LOPEZ-MARTINEZ, Lead of the Remote Sensing and Natural Resources Modelling Group, Luxembourg Institute of Science and Technology (LIST)

14.00 Introduction to EO science for society element of earth observation

Guenther LANDGRAF, European Space Agency.

CRISIS MANAGEMENT

Chair: Renaud HOSTACHE, Luxembourg Institute of Science and Technology

14.15 Using artificial intelligence, earth observation and other data to maximise extraction of property structural characteristics for the insurance industry

Benjamin HOURTE, Technology Director, EarthLab Luxembourg S.A. (L)

14.30 Hydras+: Multi source satellite data assimilation for drought monitoring

Dominik RAINS - University of Gent (B)

14.45 Ground displacement monitoring exploiting multi-temporal stacks of SAR images

Ruben IGLESIAS, DARES Technology (SP)

15.00 Unlocking the full potential of complementary data streams during the Harvey flood disaster: integration of EO, modeling and social media

Guy SCHUMANN, RSS-Hydro (L) - Patrick MATGEN, Luxembourg Institute of Science and Technology (L)

15.15 Coffee-break

ENVIRONMENTAL MONITORING AND MANAGEMENT

Chair: Thomas TAMISIER, Luxembourg Institute of Science and Technology

15.45 - SAP HANA Spatial: Location-based business platform

Thomas HAMMER, SAP (DE)

16.00 - LIS-L – A Land Information System for Luxembourg

Stefan KLEESCHULTE, Space4Environment (L)

16.15 - Global vessel monitoring: Is AIS a valuable data source for protecting the marine environment?

Gerd EIDEN, LuxSpace (L)

16.30 - The GomX4 satellites for multispectral earth observation and AIS and ADSB data acquisition

Jan THOEMEL, Gomspace (L)

16.45 - Closing Session