



**Workshop on sharing experiences, challenges
and solutions on operating RI site
at the 6th ENVRI week,
on Thu 17th morning to Fri 18th noon, May 2018
Zandvoort, Netherlands**

Tentative agenda

Scope of the workshop: This hands-on workshop is targeted for technical RI site managers and aims to discuss technical challenges, exchange experience and agree on possible solutions on specific topics like energy source solutions, operating cabled and stand-alone observatories in remote areas, data related challenges (data acquisition, data transfer and storage), calibration and maintenance procedures in harsh and challenging environmental conditions.

Thursday 17th May 2018

09:00-09:10 Welcome + Introduction to workshop topics (*Anca Hienola/Ulpu Leijala*)

Session I – Ongoing opportunities

Chair: TBC

This session is dedicated to reporting and sharing knowledge on ongoing opportunities on exchange programs, as well as experiences and best practices related to multi-disciplinary access and cross-cutting research at joint stations.

09.10-10:10 Presentations including discussion

- Exploring innovative research opportunities at the frontier of different environmental disciplines through multi-disciplinary access (*Sabine Philippin*) 15 + 5 min
- ENVRIplus staff exchange (*Robert Huber*) 15 + 5 min

- Challenges, experiences, and benefits of cross-cutting research at joint observation platforms (*Janne Levula, Jean-Pierre Cammas, Giuseppe Puglisi, Abad Chabbi*) 15 + 5 min

10:10-10:30 Discussion and Summing-up session I

10:30-11:00 Coffee break (in the lobby)

Session II – Metrology and data transmission

Chair: Heikki Lihavainen

This session aims at identifying and sharing knowledge on challenges related to metrology and data. Measurement standards, capabilities and challenges related to data harvesting, data bases, and data transmission from the stations to the data centers will be discussed.

11.00-12:20 Presentations including discussion

- UNAVCO's experiences and current activities developing research infrastructure for geodetic data (*Charles Meertens*) 15 + 5 min
- Standards and metrology in Polar regions (*Vito Vitale*) 15 + 5 min
- Hurricanes, Fires, and Farm Equipment – Ideas to ensure data quality, infrastructure integrity, and staff safety after stochastic events (*Matt Schroeder*) 15 + 5 min
- Data transmission methods used within ENVRplus RIs (*Robert Huber*)

12:20-12:40 Discussion and Summing-up session II

12:40-13:30 Lunch (in the restaurant)

Session III – Energy sources for remote sites/stations

Chair: TBC

The purpose of this session is to encourage the exchange of ideas and information on energy efficiency and renewable energy for stations located in various environments (from polar to desert, from urban to boreal forest, from subarctic to Himalayas, from land to ocean). What powers your station? Do harsh environmental conditions and technological barriers limit the penetration of renewable energy sources?

13.30-14.30 Presentations including discussion

- Catalogue of 25 operational solutions for energy in isolated scientific stations: terrestrial and oceanic – Concrete operational examples and advices on energy to save you time (*Olivier Gilbert*) 15 + 5 min

- Remote Energy Ecology – Considerations for operating solid oxide fuel cell, solar, and diesel generator systems at remote field sites (*Matt Schroeder*) 15 + 5 min
- Xxx (*TBC*) 15 + 5 min

14:30-14:50 Discussion and Summing-up session III

14:50-15:30 Coffee break (in the lobby)

Poster session (on the 7th floor)

15:30-17:00 Poster presentations and discussion on various topics around the themes of the workshop. *Snacks will be served.*

Friday 18th May 2018

Session IV – Technical and cultural challenges

Chair: Hank Loescher

Research stations differ immensely in size, remoteness, economical and human resources and are subjected to different national legislative regimes, logistical challenges, environmental and climatic conditions, hazards, risks and cultural, social or emotional challenges. This session aims at understanding how technical problems and cultural differences influence the attitudes and the decisions made in a specific station/situation.

09:00-10:00 Presentations including discussion

- Learning experiences from setting up RI sites in different cultures (*Heikki Lihavainen*) 15 + 5 min
- Challenges in building, developing and maintaining a multidisciplinary station (*Janne Levula*) 15 + 5 min
- Xxx (*Nagruk Harcharek*) 15 + 5 min

10:00-10:20 Discussion and Summing-up session IV

10:20-10:50 Coffee break (in the lobby)

Session V – Miscellaneous

Chair: TBC

10:50-11:50 Presentations including discussion

- Xxx (*TBC*) 15 + 5 min

- Xxx (TBC) 15 + 5 min
- Xxx (TBC) 15 + 5 min

11.50-12:00 Wrap-up of the workshop

12.30-13:15 Lunch (in the restaurant)

More info of the projects organizing the event can be found from: <http://www.coop-plus.eu/> and <http://www.envriplus.eu/>

Warmly welcome to the workshop!