# World Weather Open Science Conference (WMO)

http://wwosc2014.org/
16-20 Aug., Montreal, Canada

*This ground-breaking conference will bring together the entire weather science and user communities for the first time to review the state-of-the-art and map out the scientific frontiers for the next decade and more*

**Theme1 Observations and Data Assimilation (ODA)**

- **New technologies and observation instrumentation innovations: from urban to global scales**. (Description)
  Conveners: Susanne Crewell (U. of Cologne, Germany) and Johannes Schmetz (EUMETSAT)
  Keynote speakers: Peng Zhang (CMA, China) and Matthias Rotach (U. of Innsbruck, Austria)
- **Observations and their assimilation in global to convective scale models** (Description)
  Convener: Roger Saunders (Met Office, United Kingdom) and Ron Gelaro (NASA, USA)
  Keynote speakers: Dale Barker (Met Office, United Kingdom) and Florence Rabier (ECMWF)
- **Data assimilation methodology and diagnostic tools**
  Conveners: Mark Buehner (Environment Canada) and Takemasa Miyoshi (RIKEN, Japan)
  Keynote speakers: Andrew Lorenc (Met Office, United Kingdom) and Eugenia Kalnay (U. of Maryland, USA)

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- Theme 2: P&P - Predictability and Dynamical/Physical/Chemical Processes
- Theme 3: ISS - Interactions between Sub-Systems
- Theme 4: NPE - Numerical Prediction of the Earth system: putting it all together
- Theme 5: WHI - Weather-related Hazards and Impacts

## TOPROF - representation

- **Anne Hirsikko**: plans and activities concerning Doppler lidar network and European ceilometer network (WG1 & 2)
- **Susanne Crewell** to represent MWRnet (WG3) and TOPROF overview
- **Roland Potthast**: DA TOPROF activities (WG4)

# ITARS Summer School on Clouds and Precipitation: Observation and Processes

8-17 September 2014, Research Center Jülich

*ITARS - Initial Training on Atmospheric Remote Sensing (Marie Curie Action, itars.net)*

- Theoretical and practical training on clouds and precipitation (instrumentation, retrieval and processes).
- Hands-on training with the instruments from JOYCE/Bonn/Jülich (microwave radiometer, scanning cloud radar, micro rain radar, wind lidar, sodar, infrared spectrometer, X-band radars)
- Specific lectures* on different instrumental techniques, data assimilation and climate processes
- Group work, open discussions and social events: opportunity to discuss with the external lecturers

**Athanasios Nenes, Christine Chiu, Dave Turner, Domenico Cimini, Herman Russchenberg, Pavlos Kollias, Tammy M. Weckwerth, Thijs Heus, Vincenzo Levizzani*

# ITARS Summer School on Clouds and Precipitation: Observation and Processes

*15 external PhD students accepted: application to coordination@itars.net by* ***May 31, 2014***

Idea for ITARS/TOPROF "connection"

- Students will work on an remote sensing instrument-related project during summer school (related to clouds and precip.)
- TOPROF to award "best project"
- 2 Students to take part in next TOPROF WG/MC meeting and present their results in front of plenary
- Supporting ESRs…
- TOPROF logo to appear throughout summer school