

Online Integrated Modelling of Meteorological and Chemical Transport Processes

Young Scientist Summer School
University of Aveiro, Portugal
6-11 July 2014



PRE-ANNOUCEMENT

<http://aveirosummerschool2014.web.ua.pt>

EuMetChem - COST Action ES1004

European framework for online integrated air quality and meteorology modelling



Aim

To train students and researchers from the numerical weather prediction, air quality and climate communities, and to apply integrated modelling of both meteorological and chemical processes to understand the links between atmospheric composition, weather and climate. The main focus is on regional/urban scale models applied for chemical weather forecasting and feedback mechanisms between meteorological and atmospheric pollution processes.

Programme

Block 1. Fundamentals of atmospheric processes & modelling

Block 2. Surface and atmospheric boundary layer processes

Block 3. Atmospheric chemical transport modelling

Block 4. Aerosol physico-chemistry and modelling

Block 5. Evaluation and application

Six models will be involved in the training exercises:

HARMONIE (<http://hirlam.org/>); BOLCHEM (<http://bolchem.isac.cnr.it>);

EnviroHIRLAM (www.hirlam.org); WRF-Chem (www.acd.ucar.edu/wrf-chem/);

COSMO-Art (www.imk-tro.kit.edu); METRAS (www.mi.uni-hamburg.de/metras).

Scientific Committee

Ana Isabel Miranda, University of Aveiro, Portugal

Alexander Baklanov, World Meteorological Organization/Danish Meteorological Institute

Alexander Mahura, Danish Meteorological Institute, Denmark

Alberto Maurizi, Italian National Research Council, Italy

Roman Nuterman, University of Copenhagen, Denmark

Eigil Kaas, University of Copenhagen, Denmark

Dominik Brunner, EMPA, Switzerland

Jose Maria Baldasano, Barcelona Supercomputing Center, Spain

Heinke Schlünzen, University of Hamburg, Germany

Target audience

Early Stage Researchers (less than Ph.D. +10 years)

Bsc. degree is the minimum requirement

Selection criteria

Background on weather and/or air quality modelling

Motivation letter

Other skills (e.g. programming...)

CV & publications

Registration Deadline 31 March 2014

Language English

Costs no fee*

Please fill the application form at

<http://aveirosummerschool2014.web.ua.pt/applicationform>

*Support from COST ES1004 and WMO GURME is possible