



cost
EUROPEAN COOPERATION
IN SCIENCE AND TECHNOLOGY

cost
EUROPEAN COOPERATION IN SCIENCE AND TECHNOLOGY



COST Office
Avenue Louise 149
1050 Brussels, Belgium
t: +32 (0)2 533 3800
f: +32 (0)2 533 3890
office@cost.eu

www.cost.eu

COST Action TD1105
European Network on New Sensing Technologies for Air-Pollution Control and Environmental Sustainability - EuNetAir

1st EuNetAir Air Quality Joint-Exercise Intercomparison
Aveiro, 13 - 27 October 2014

IDAD - Institute of Environment & Development, Campus Universitário, Aveiro, Portugal

AGENDA	
13 October 2014 - Monday	Start of the 1st EuNetAir Air Quality Joint-Exercise Intercomparison
09:00 - 10:00	Group meeting: Technical requirements for Joint-Exercise Intercomparison
10:00 - 12:00	Installation of AQ sensors
12:00 - 13:00	<i>Lunch</i>
13:00 - 15:00	Installation of AQ sensors (cont.)
15:00 - 17:00	Planning the outputs of the 1st EuNetAir Air Quality Joint-Exercise
19:00	<i>Social Dinner</i>
13 - 27 October 2014	Experimental Campaign in AQ Mobile Laboratory in Aveiro city
27 October 2014 - Monday	End of the 1st EuNetAir Air Quality Joint-Exercise Intercomparison
09:00 - 10:00	Group meeting: Technical constraints of the Joint-Exercise Intercomparison
10.00 - 12.00	AQ sensors removal
12.00 - 13.00	<i>Lunch</i>
13:00 - 15:00	AQ sensors removal
15:00 - 17:00	Outlook on the results of the 1st EuNetAir Air Quality Joint-Exercise
17:00 - 18:00	Planning future activities
18:00	Closure of the Joint-Exercise Intercomparison



Background and goals

About COST Action TD1105 EuNetAir

COST Action TD1105 *EuNetAir*, a Concerted Action on *New Sensing Technologies for Air-Pollution Control and Environmental Sustainability*, is a running Networking funded in the framework *European Cooperation in the field of Scientific and Technical Research* (COST) during 2012-2016.

The main objective of the Concerted Action is to develop new sensing technologies for Air Quality Control at integrated and multidisciplinary scale by coordinated research on nanomaterials, sensor-systems, air-quality modelling and standardised methods for supporting environmental sustainability with a special focus on Small and Medium Enterprises.

This international Networking, coordinated by ENEA (Italy), includes over 80 big institutions from 28 COST Countries (EU-zone: *Austria, Belgium, Bulgaria, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Israel, Italy, Latvia, The Former Yugoslav Republic of Macedonia, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovenia, Spain, Sweden, Switzerland, Turkey, United Kingdom*) and 7 International Partners Countries (extra-Europe: *Australia, Canada, China, Morocco, Russia, Ukraine, USA*) to create a S&T critical mass in the environmental issues.

1st EuNetAir Air Quality Joint-Exercise Intercomparison, Aveiro, Portugal, October 13-27, 2014

COST Action TD1105 *EuNetAir* is organizing the first *Air Quality Joint-Exercise Intercomparison on Evaluation and Assessment of Environmental Gas/PM MicroSensors versus Standardised AQ Referenced Methods through an Experimental Urban Air Quality Monitoring Campaign* to be held in Aveiro (Portugal) on 13 - 27 October 2014. This Joint-Exercise will be organized under management of IDAD - Institute for Environment and Development, and University of Aveiro, coordinated by Prof. Carlos Borrego.

The main goals of the 1st EuNetAir Air Quality Joint-Exercise Intercomparison are:

- To evaluate AQ micro-sensors measurements against standardised AQ methods
- To study and assess protocols and methods devoted to low-cost gas sensors for AQC with definitions of guidelines for standards
- To develop guidelines for AQ micro-sensors comparison against standardised AQ methods
- To establish joint publications and networking activities (e.g. meeting on results, others)

An Air Quality Mobile Laboratory will be placed at an urban traffic location in Aveiro city centre (<https://mapsengine.google.com/map/edit?mid=zwT19PZ1SwT.E.kHCx6behQ1s8>) in the scope of the Experimental Urban Air Quality Monitoring Campaign, to conduct continuous measurements with standardized equipment and referenced analyzers of the following variables: CO, NO_x, O₃, SO₂, PM₁₀, Benzene, VOC, temperature, humidity, wind velocity/direction, solar radiation, precipitation (rain).

All COST Action *EuNetAir* partners are kindly invited to install their microsensors and sensor-systems side-by-side with air quality standardized equipment in the IDAD Air Quality Mobile Laboratory and to perform the 2-week Experimental Urban AQ Monitoring Campaign at Aveiro city.

A **Call for Participation** has been opened to invite producers/manufacturers of high-performance AQ devices and researchers/scientists from Action partnership and MoU-signed Countries including NNC approved institutions. COST Action will financially support at least *1 person* from each involved team for networking activities, and no funding for research is established.

An **Application Form** as Technical Draft (containing: *Name of Participant Institution; Names of the Institution Members that will travel to Aveiro; Requests/Specifications for Sensors/Equipment Installation; Gas/Variables Measured; Other Remarks*) is cordially requested from the interested Researchers/Experts to be submitted to the Action management by deadline of **30 September 2014** to:

- **Michele Penza**, Action Chair, ENEA, Brindisi, Italy: michele.penza@enea.it
- **Carlos Borrego**, Local Organizer, IDAD, Aveiro, Portugal: cborrego@ua.pt
- **Ana Margarida Costa**, Local Co-Organizer, IDAD, Aveiro, Portugal: amcosta@ua.pt

More Information:

Dr. Michele Penza

MC Chair/Proposer of *COST Action TD1105 EuNetAir*

ENEA - Italian National Agency for New Technologies, Energy and Sustainable Economic Development

Technical Unit for Materials Technologies - Brindisi Research Centre

PO BOX 51 Br-4, I-72100 Brindisi - ITALY

Email: michele.penza@enea.it

Prof. Carlos Borrego

Local Organizing Committee Chair

IDAD - Institute for Environment and Development, Aveiro, Portugal

Campus Universitario Aveiro, Portugal

Email: cborrego@ua.pt

1st Air Quality Joint-Exercise Intercomparison of COST Action TD1105



**Air Quality Campaign at Aveiro city centre
IDAD, Aveiro, Portugal**



Aveiro, Portugal