



COST

European Network on New Sensing Technologies for Air Pollution Control and Environmental Sustainability - *EuNetAir*

COST Action TD1105

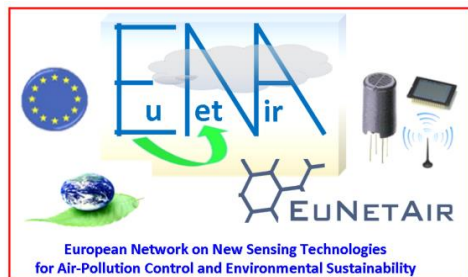
WRAP-UP of Presentations from COST Special Session

Duisburg, 6 March 2013

Environmental Case Studies from Mediterranean, Central and Eastern Europe

Action Start date: 16/05/2012 - Action End date: 15/05/2016

 **cost**
EUROPEAN COOPERATION IN SCIENCE AND TECHNOLOGY



Michele Penza

Chair of COST Action TD1105

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



Wrap-up of presentations of Special Session COST on March 5, 2013 (1/2)

- **Michele Penza, ENEA, Italy.** He gave a presentation on overview of COST Action TD1105 EuNetAir focussing on plans and future Agenda of scientific activities.
- **Annette Borowiak, JRC-Ispra, Italy.** She presented activities of AQUILA Network on Air Quality Assurance and Quality Control Programmes in Europe.
- **Olena Turos, Marzeyev Institute for Hygiene and Medical Ecology, Kiev, Ukraine.** She was absent due to personal reasons.
- **Helena Gawronska, Warsaw University of Life Science, Warsaw, Poland.** She presented results on measurements of the PM pollutants accumulated on plants leaves in the Poland.
- **Zita Ferenczi, Hungarian Meteorological Service, Budapest, Hungary.** She presented results on Air Quality Monitoring and Modelling in Hungary (Budapest). International/European regulations of monitoring activity was reported to address harmonization of the environmental measurements.
- **Rahela Zabkar, University of Ljubljana, Liubljana, Slovenia.** She presented results on Air Quality Modelling in Slovenia.

Wrap-up of presentations of Special Session COST on March 5, 2013 (2/2)

- **Sergey Chicherin, Main Geophysical Observatory / MGO - St. Petersburg, Russia.** He gave a presentation on overview of assessment of Air Quality in Cities of Russian Federation with special focus on monitoring, modeling and health aspects.
- **Olga Kislova, SEPI Mosecomonitoring, Department for Nature Resources Management and Environmental Protection, Moscow, Russia.** She presented activities of the Air Quality monitoring system in the Moscow region with special focus on measurement methods and techniques.
- **Dimiter Syrakov, Bulgarian Academy of Sciences, Sofia, Bulgaria.** He gave a presentation on results of the Bulgarian Emergency Response System (nuclear accident) and Bulgarian Chemical Weather Forecast System. Examples of application of the tools were reported.
- **Iveta Steinberga, University of Latvia, Riga, Latvia.** She presented results on Air Quality Modelling in Latvia by focussing on challenges and failures with special mention on air-pollution dispersion models and meteorology.
- **Grisa Mocnik, Aerosol dooo, Ljubljana, Slovenia.** He presented results on the source apportionment of carbonaceous aerosols and other pollutants in Central Europe. Environmental data of experimental campaigns were presented and discussed.
- **Igor Atanasov, Ministry of Environment and Physical Planning, Skopje, Republic of Macedonia.** He presented results on Air Quality Monitoring in the Republic of Macedonia with focus on State Ambient Air Quality Automated Monitoring System (SAQAMS) of air stations network. Methods, data and future activities in the Republic of Macedonia were reported as well.

DUISBURG, Germany - March 6, 2013

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



09:00 - 13:00

COST Event Registration

09:00 - 09:10

Wrap Up - **Michele Penza**, Action Chair, ENEA, Italy

09:00 - 11:00

WG3: Environmental Measurements and Air-Pollution Modelling

Chairman: Christoph Hueglin, Action WG3 Member - EMPA, Duebendorf, Switzerland

09:10 - 09:30

ECRA - European Climate Research Alliance: Overview and Trends

Paolo Ruti, ENEA, Rome, Italy

09:30 - 09:45

Enabling Participatory Urbanism through Novel Use of Environmental Sensor Technologies

Nuria Castell-Balaguer, Sub-WG3.1 Leader, NILU - Norwegian Institute for Air Research, Kjeller, Norway

09:45 - 10:00

Issues on Harmonisation of Environmental Measurements and Modelling in Hungary

Krisztina Labancz, Hungarian Meteorological Service, Budapest, Hungary

10:00 - 10:15

Using Mobile Measurements for Air Quality Mapping: Methodological Issues

Joris Van den Bossche, VITO, Mol, Belgium

10:15 - 10:30

Air Quality Monitoring in Municipalities and Industrial Plants in Portugal

Miguel Coutinho, Institute of Environment and Development, Aveiro, Portugal

10:30 - 10:45

Environmental Measurements at Laboratory and In-Field Air-Quality Stations in Spain

Mariacruz Minguillon, CSIC-IDAEA, Barcelona, Spain

10:45 - 11:00

The Spatial Distribution of PAHs and Other Pollutants in Lichens for Fingerprinting of Air-Pollution

Cristina Maguas, University of Lisbon, Lisbon, Portugal

11:00 - 11:30

GROUP PICTURE BEFORE Coffee-Break



EUROPEAN COOPERATION IN SCIENCE AND TECHNOLOGY

DUISBURG, Germany - March 6, 2013



09:00 - 13:00

COST Event Registration

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Wrap Up - **Michele Penza**, Action Chair, ENEA, Italy

11:30 - 13:00

WG4: Protocols and Standardisation Methods

Chairman: Grisa Mocnik, Sub-WG4.1 Leader - Aerosol doo, Ljubljana, Slovenia

11:30 - 11:50

European Standard EN 15267: Performance criteria and test procedures for measuring ambient air quality

Karsten Pletscher, TÜV Rheinland Energie und Umwelt GmbH, Cologne, Germany

11:50 - 12:00

A Robust Low-Cost NDIR Platform for sub-ppm Gas Detection

Henrik Rodjégard, SenseAir SA, Delsbo, Sweden

12:00 - 12:10

Protocols, Standards and Methods for Odour Monitoring by Sensor Technologies

Anne-Claude Romain, Action Sub-WG4.2 Leader, Université de Liège, Arlon, Belgium

12:10 - 12:20

New Commercial Sensors for Indoor Air Quality Monitoring

Philippe Karpe, Ethera, Grenoble, France

12:20 - 12:30

New Commercial Sensors for Air Quality Monitoring and Industrial Applications

Matthias May, UST Umweltsensortechnik GmbH, Geschwenda, Germany

12:30 - 12:40

Benchmarking of New Products and Market of Commercial AQC Sensors

John Saffell, Action Sub-WG4.3 Leader, Alphasense Ltd, Essex, UK

12:40 - 12:50

IoT for a distributed air quality monitoring: present and future solutions

Marco Brini, EnvEve SA, Bioggio, Switzerland

12:50 - 13:00

CONTROLODOR® & ODORTEL®: new systems for odour impact assessment

Simona Catino, Lenviros srl, Bari, Italy



14:00 - 16:00

Action TD1105 WG3-WG4 JOINT-DISCUSSIONS

Chairman: Michele Penza, Action Chair - ENEA, Brindisi, Italy

Environmental Research for Innovation: Best Practices, Methods and Protocols to support Harmonization of Measurements and Environmental Sustainability in Europe

14:00 - 14:20

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

Michele Penza, COST Action TD1105 Chair, ENEA, Brindisi, Italy

14:20 - 14:40

MEGAPOLI FP7 Project: The Environmental Impact of MEGACITIES. Case Study of Recent Experimental Campaign at Paris

Nicolas Moussiopoulos, International Hellenic University, Thessaloniki, Greece

14:40 - 15:00

Inputs from COST Action ES1004 EuMetChem: European Framework for Online Integrated Air Quality and Meteorology Modelling and AQMEII Initiative

Stefano Galmarini, COST Action ES1004 Member, JRC, Ispra, Italy

15:00 - 15:20

The INTERREG project NANOFORCE: Nanotechnology for Chemical Enterprises - How to link scientific knowledge to the business in the Central Europe space

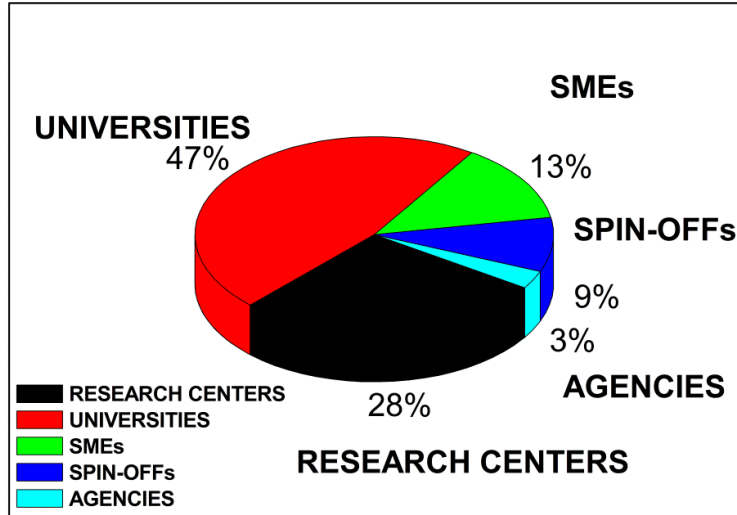
Irina Nunberger, Chemie-Cluster Bayern, Munich, Germany

15:20 - 16:00

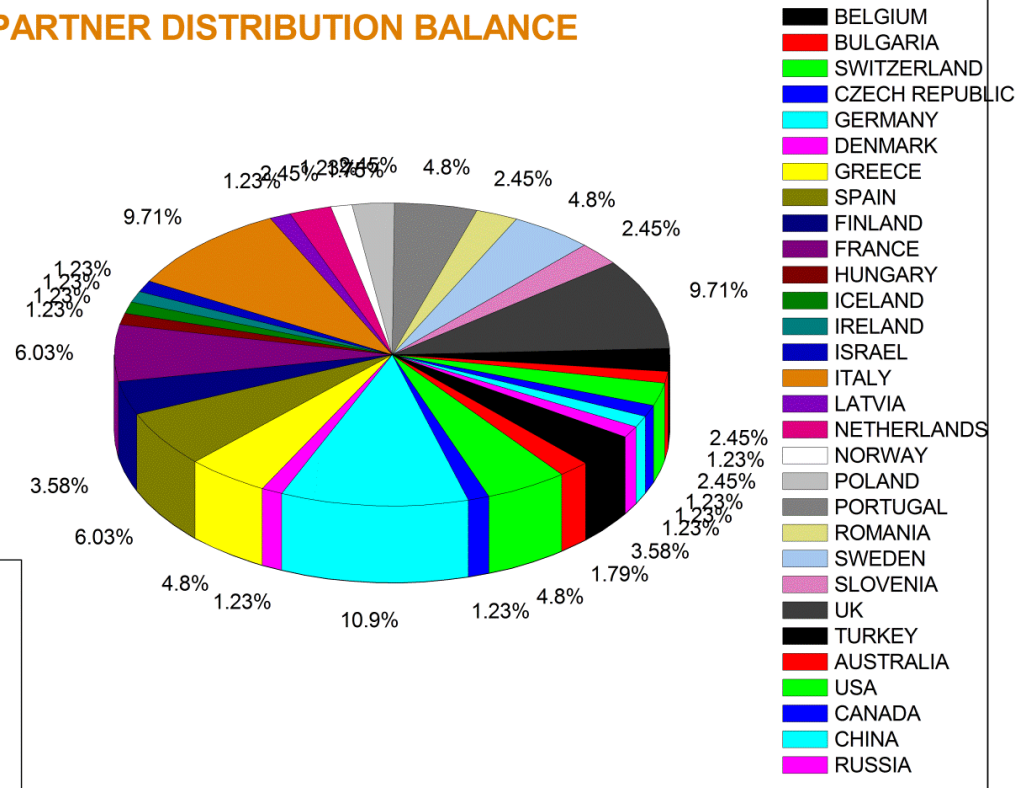
Discussion of Action Participants: Comments, Opinions and Inputs on Priorities, R&D Needs, Strategies, Roadmap for future joint-activities of Action TD1105 EuNetAir

COST Action TD1105 *EuNetAir*: STATISTICS

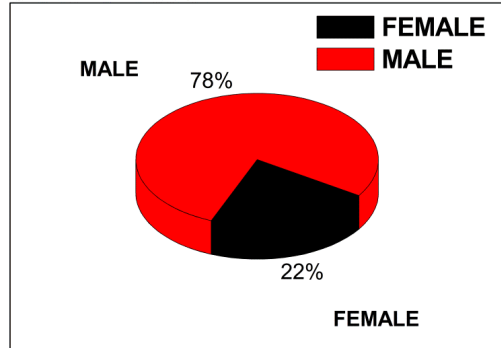
PARTNERSHIP



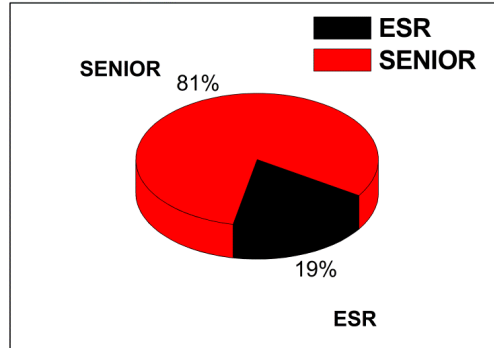
COUNTRY PARTNER DISTRIBUTION BALANCE



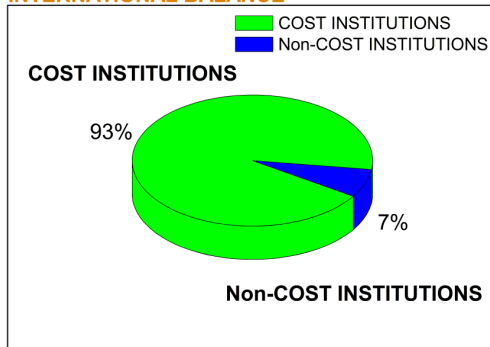
GENDER BALANCE



ESR BALANCE



INTERNATIONAL BALANCE



PARTIES: 25
Action Coordinating Partner: IT (ENEA)
Grant Holder: IT (University of Bari)



COST ACTION TD1105 DISSEMINATION EVENTS



IMCS 2012
The 14th International Meeting on Chemical Sensors
 May 20 - 23, 2012, Nürnberg/Nuremberg



Special Session: Chemical Sensors and New Technologies for Air-Pollution Control

COST Action TD1105 EuNetAir

European Network on New Sensing Technologies for Air-Pollution Control and Environmental Sustainability

IMCS 2012 - The 14th International Meeting on Chemical Sensors, May 20-23, 2012 - Nuremberg, Germany



VIII International Workshop on
Semiconductor Gas Sensors
 11-15 September 2012, City Hotel Cracow, Poland

SGS 2012

**VIII International Workshop on
 Semiconductor Gas Sensors**

September 11 - 15, 2012, Cracow, Poland



**3th Intelligent Systems for Quality of Life information
 Services Workshop (ISQL 2012)**

**8th AIAI Conference, September 27- 30, 2012,
 Halkidiki, Greece**



TCM 2012

**The 4th International Symposium on Transparent
 Conductive Materials**
October 21- 26, 2012, Hersonissos, Crete, Greece



COST ACTION TD1105 EVENTS



COST ACTION TD1105 *EuNetAir*

Kick-off Meeting of Action Management Committee

COST Office, 16 May 2012, Brussels (BE)

COST ACTION TD1105 *EuNetAir*

First Meeting and 2nd Management Committee and Working Groups

ENEA Headquarters, 4-6 December 2012, Rome (IT)

COST ACTION TD1105 *EuNetAir*

WG3-WG4 Meeting joined to AirMonTech project

Fraunhofer Inhaus Zentrum, 4-6 March 2013, Duisburg (DE)

COST ACTION TD1105 *EuNetAir*

**Third Meeting of Action Management Committee,
Action Workshop (TBC) and Training School**

Transducers-2013, 14-21 June 2013, Barcelona (ES)

ACKNOWLEDGEMENTS

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Rapporteur CMST:

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***KICK-OFF MEETING of Action TD1105
at Brussels on 16 May 2012***

TD1105 MANAGEMENT COMMITTEE



Link of COST Action TD1105 EuNetAir:

UPDATING AND BREAKING NEWS from Action TD1105

COST Action TD1105 - EuNetAir

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

Action website:

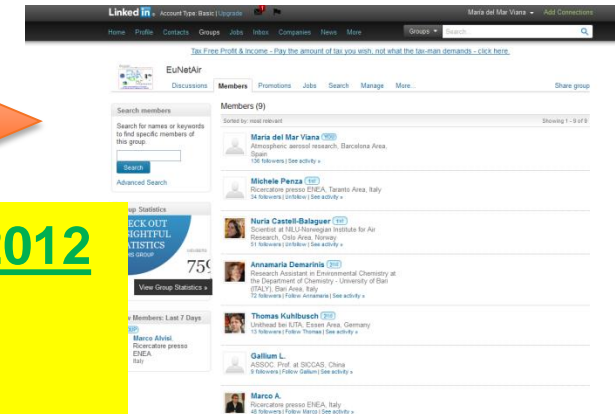
www.cost.eunetair.it

hosted by ENEA

Dr. Marco Alvisi, *Webmaster Coordinator*

Sebastiano Dipinto, Valerio Pfister, Gianfranco Zingarelli, *Webmaster Team*

Social Scientific ESRs Network (SSEN) by LinkedIn
Moderator(s): Mar Viana, Mariacruz Minguillon



CALL for Short Exchange Visits launched on 20 Nov. 2012
(STSM - Short Term Scientific Mission)

Dr. Jan Theunis, STSM Coordinator EuNetAir



EUROPEAN COOPERATION
IN SCIENCE AND TECHNOLOGY



European Network on New Sensing Technologies
for Air-Pollution Control and Environmental Sustainability

 EuNetAir Newsletter

COST Action TD1105 Iss. 1/Dec 2012

Opening Editorial

Issue 1: finished and published - Dec. 2012 ✓

Issue 2: planned on April - June 2013

Prof. Ralf Moos, *Editor-in-Chief*

Dr. Daniela Schonauer-Kamin, *Editorial Board Manager*

NOLOGY

Timeline of Air-Pollution EU Policy

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



Harmonisation
through
Data Base

Recommendation for
Revision of AQD

Research Map and
FP 8 Recommendations
In view of DG ENV and AQD 2018

Start of FP8
Revision of AQD

Revision of AQD

THANK YOU VERY MUCH FOR YOUR KIND ATTENTION!

2010

2012

2013

2018

2013: Year of Air

declared by European Environment Agency and EC

EU Thematic Strategy on Air Pollution

<http://ec.europa.eu/environment/air/quality/index.htm>

Consultation by EC DG ENV from

Citizens and Experts

Deadline for Consultation: April 03, 2013

Winner of 'Imaginair' youth prize



ADVICE from COST Action TD1105 EuNetAir

1. We kindly remind to

- **ALL COST Special Session *inside* AMT Speakers**
- **WG3-WG4 Meeting Speakers**
- **Round-Table Speakers**

to provide for Action webpages (www.cost.eunetair.it) the **Presentation file (ppt or pdf)** to:

• **Action Scientific Secretary:**

Annamaria Demarinis (annamaria.demarinis@uniba.it)

• and **Action Chair** (copy in cc):

Michele Penza (michele.penza@enea.it)

2. Group Picture of COST Action Meeting on March 6, after WG3 Session (11 local time) and before Coffee-Break.

..... ALL PARTICIPANTS are cordially invited