

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

COST Action TD1105

INTERNATIONAL WG1-WG4 MEETING on

Air Quality Monitoring and Calibration:

Horizons in Sensing Technologies, Methods and Modelling

organized by VINCA Institute and Public Health Institute of Belgrade
hosted by Faculty of Mechanical Engineering, University of Belgrade
Belgrade, Serbia, 13 - 14 October 2015

Action Start date: 01/07/2012 - Action End date: 30/06/2016 - Year 3: 2014-15 (*Ongoing Action*)

Conclusions

Michele Penza

Function in the Action: Action Chair

ENEA - Brindisi, Italy

 **COST**
EUROPEAN COOPERATION IN SCIENCE AND TECHNOLOGY



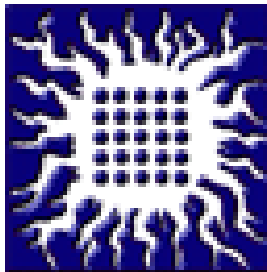
WORKING GROUPS MEETING

Air Quality Monitoring and Calibration: Horizons in Sensing Technologies, Methods and Modelling

2nd EuNetAir Air Quality Joint-Exercise Intercomparison

Belgrade (Serbia), 13 - 14 October 2015

organized by VINCA Institute and Public Health Institute of Belgrade
hosted by Faculty of Mechanical Engineering, University of Belgrade
16 Kraljice Marije, 11120 Belgrade 35, Serbia



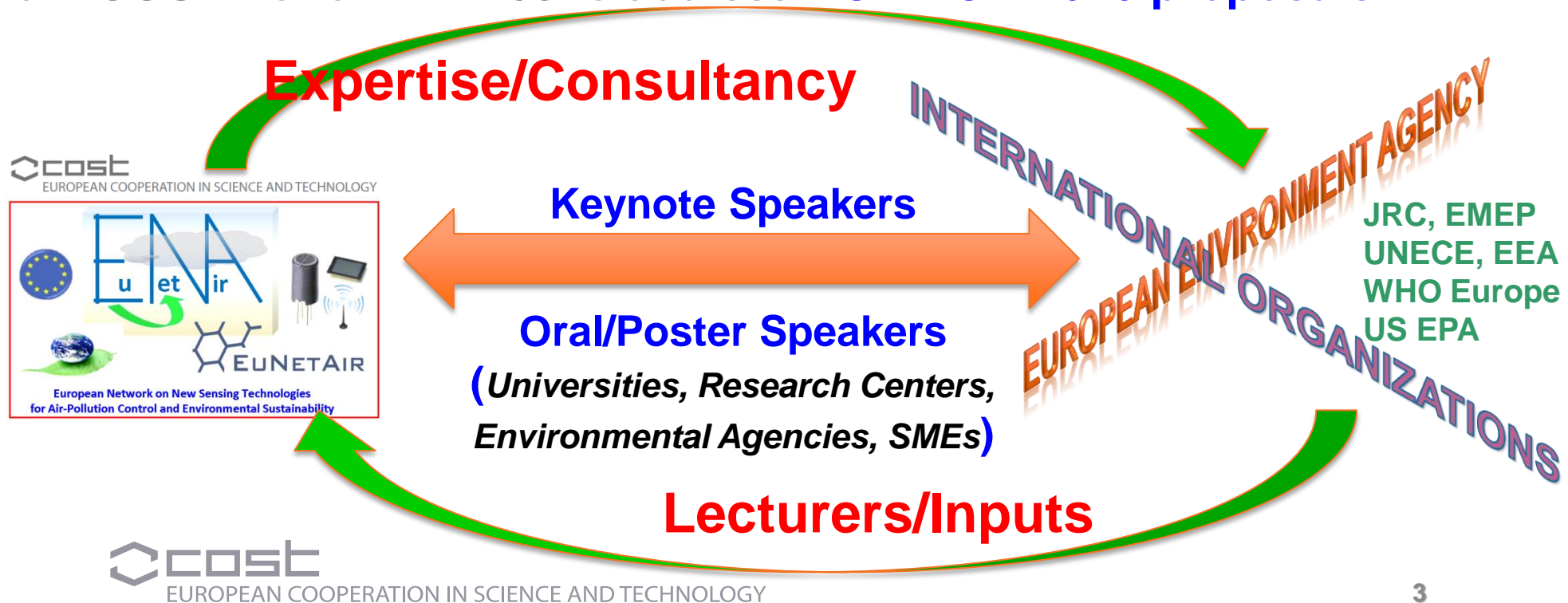
Meeting AGENDA

12 October 2015 - Monday	
09:00 - 14:00	Arrival to Belgrade
15:00 - 17:00	Installation of Sensors in AQ Monitoring Station - Part 1
20:30	Free Dinner
13 October 2015 - Tuesday	
09:00 - 18:00	REGISTRATION
09:00 - 13:00	Installation of Sensors in AQ Monitoring Station - Part 2
13:00 - 14:00	Light Lunch offered by COST Action organization
14:00 - 15:00	REGISTRATION
15:00 - 15:30	Session 1: Welcome Address
15:30 - 16:30	Session 2: Oral Presentations
16:30 - 17:00	Coffee Break
17:00 - 18:00	Session 3: Oral Presentations
20:00	Social Dinner
14 October 2015 - Wednesday	
09:00 - 17:00	REGISTRATION
09:00 - 10:30	Session 4: Oral Presentations
10:30 - 11:00	Coffee-break
11:00 - 13:00	Session 5: Oral Presentations
13:00 - 14:30	Light Lunch offered by COST Action organization
14:30 - 16:50	Session 6: Oral Presentations
16:50 - 17:00	Session 7: Conclusions
17:00	End of the WG1-WG4 Meeting and Farewell

AIM of *EuNetAir* WGs MEETING at Belgrade:

Air Quality Monitoring and Calibration: Horizons in Sensing Technologies, Methods and Modelling

- **Provide** from Action TD1105 *EuNetAir* an Overview of the *Best Available Sensing Technologies, Methods and Best Practices on **Clean Air for Smart Cities in Europe*** to International Organizations (IOs), Policy Makers and Public Institutions, Local Managers.
- **Discuss and Investigate** on ***Joint-Exercise Sensors-versus-Analyzers*** from COST Action TD1105 to address **HORIZON 2020** proposals



COST Action TD1105 *EuNetAir*: WGs Meeting at Belgrade

Statistics of Action WGs Meeting at Belgrade:	
e-COST Registered Participants / Total Participants:	20 / 30
Sessions including Plenary, Oral & Poster:	7
Keynote/Invited Speakers:	9
Oral Speakers (Contributed Talks):	9
Poster Presenters:	8
COST Countries involved in WGs Meeting: <i>Croatia, Bulgaria, Greece, Italy, Latvia, Norway, Portugal, Serbia, Turkey, UK and Australia (International Partner Country)</i>	11
Joint-Exercise Teams: <i>Greece, Italy, Serbia, Spain, UK</i>	5
Gender Balance in WGs Meeting:	10 F (33%) 20 M (67%)
Early Stage Researchers (ESRs):	10 (33%)

Topics of Meeting



- **Functional Materials for AQ Sensors**
- **Gas Sensors and Sensor-Systems**
- **Air Pollution Modelling**
- **Methods, Standards, Protocols, Guidelines**
- **Environmental Measurements and Data Fusion**
- **Health Effects of Air Pollution**
- **Environmental Sustainability Applications**
- ***ESSC - European Sensor Systems Cluster***



Year 4: Scientific Planning of *EuNetAir* (1/2)

Meetings/Workshops/Training Schools planned for upcoming year
(Year 4: 1 July 2015 - 15 May 2016): **EXTENSION: 15 Nov. 2016 - tbc!**

- **WG1-WG4 Meeting** on *Air Quality Monitoring and Calibration: Horizons in Sensing Technologies, Methods and Modelling - Start of the 2nd EuNetAir Air Quality Joint-Exercise Intercomparison* organized by the VINCA Institute, Belgrade (**Serbia**), 13 - 14 Oct. 2015. Local organizer: Dr. Milena Jovasevic-Stojanovic, VINCA and Anka Cvetkovic, Public Health Institute of Belgrade
- The **4th International Workshop of the COST Action TD1105** on *Innovations and Challenges for Air Quality Control Sensors* at FFG (National AT COST Office), Wien (**Austria**), 25 - 26 February 2016. Local organizer: Dr. Anton Kock, MCL
- The **Action 4th International Training School** on *Modelling, Methods and Technologies for Air Quality Control* at Emdrup Campus in Copenhagen, by Aarhus University (**Denmark**), 19 - 22 April 2016. Local organizer: Prof. Ole Hertel, Aarhus University. Trainees: 13-15 expected. Trainers: 3-4 expected.

Year 4: Scientific Planning of *EuNetAir* (2/2)

MC/WG Meetings planned for the upcoming year

(Year 4: 1 July 2015 - 15 May 2016): EXTENSION: 15 Nov. 2016 - tbc!

- **5th SCIENTIFIC MEETING: WGs Meeting and 8th MC Meeting on New Sensing Technologies for Indoor Air Quality Monitoring: Trends & Challenges** at Bulgarian Academy of Sciences, Sofia (Bulgaria), 16 - 18 Dec. 2015. Local organizers: Prof. Ivan Nedkov and Prof. Dimiter Syrakov, BAS
- **6th SCIENTIFIC MEETING: WGs Meeting and 9th MC Meeting on New Sensing Technologies for Outdoor Air Quality Monitoring** at Czech Academy of Sciences, Prague (Czech Republic), 5 - 7 October 2016. Local Organizers: Prof. Zdenek Zelinger, Dr. Vera Kurkova, Dr. Roman Neruda, CAS
- **Special Session EuNetAir / Core-Group Meeting** to **EUROSENSORS 2015**, Freiburg (Germany), 6 - 10 September 2015

Action Recommendations: *Roadmap 2015-2020*

- **Micro-Sensors should not substitute but supplement routine environmental monitoring equipments/devices**
- **Future Routine Environmental Networks** may look very different from today and **include low-cost and accurate Sensors ?**
- **Green Routes through the city** or access to information about **air-pollution load** at specific local address **might be future goals**
- **Pervasive low-cost Micro-Sensors for Indoor Energy Efficiency should be a must for future Green-Buildings**
- What do we want to provide (e.g. **AQI**) on the long-term in relation to **Routine Monitoring** and **Public Information to enhance Environmental Awareness ?**

EU Sensor Systems Cluster: *Future Research & Innovation*

- **Advanced Functional Materials for Sensor Technologies**
- **Wearable Sensors to Monitor Air-Pollution Personal Exposure**
- **Mobile Sensing (Smartphones, Tablets, Watches)**
- **Fixed Sensor Nodes in Urban Wireless Networks**
- **Mobile Sensor Nodes on Public Transports (Buses, Trams, etc.)**
- ***Sensing City* (bikes, city guardians, citizens, etc.)**
- **Indoor Energy Efficiency Sensors (VOCs, Formaldehyde, etc)**
- **Sensors for Greenhouse Gases Monitoring (CO₂, CH₄, N₂O, etc.)**
- **Sensors for Odour Monitoring**
- **Sensors for PM Detection at Low-Cost**

OUTREACH ACTIVITIES 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

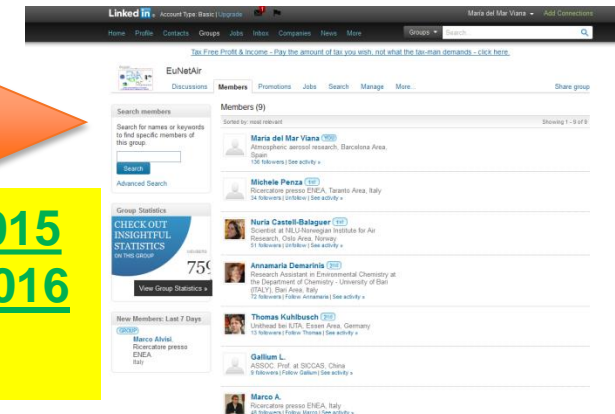
hosted by ENEA

Dr. Marco Alvisi, Webmaster Coordinator

Sebastiano Dipinto, Valerio Pfister, Gianfranco Zingarelli, Webmaster Team

Social Scientific ESRs Network (SSEN) by LinkedIn

Members: >80 - Moderators: M. Viana, M. Minguillon



4° CALL for Short Exchange Visits launched on September 2015
Short Term Scientific Mission: **9 TO BE FUNDED by 30 April 2016**

Dr. Jan Theunis, STSM Coordinator EuNetAir



 EuNetAir Newsletter

COST Action TD1105 Iss. 1/Dec 2012

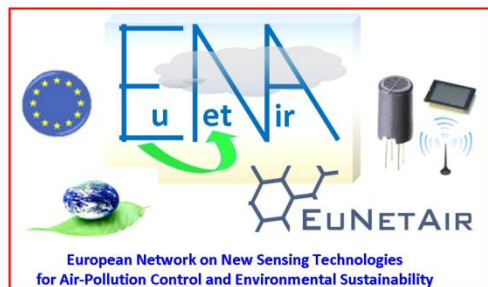
Opening Editorial

- Issue 1: published on Dec. 2012 ✓
- Issue 2: published on June 2013 ✓
- Issue 3: published on Dec. 2013 ✓
- Issue 4: published on June 2014 ✓
- Issue 5: published on Dec. 2014 ✓
- Issue 6: published on June 2015 ✓

Prof. Ralf Moos, Editor-in-Chief

Dr. Daniela Schonauer-Kamin, Editorial Board Manager

Contact Details



CSO Approval: 01 Dec. 2011
Kick-off Meeting: 16 May 2012
Start of Grant: 01 July 2012
End of Grant: 30 April 2016

www.cost.eunetair.it

MC Chair:

Dr. Michele Penza, ENEA, IT
michele.penza@enea.it

MC Vice Chair:

Prof. Anita Lloyd Spetz
Linköping University, SE
spetz@ifm.liu.se

Grant Holder:

Dr. Corinna Hahn, Dr. Juliane Rossbach
Eurice GmbH, DE
c.hahn@eurice.eu; j.rossbach@eurice.eu

Scientific Secretary:

Dr. Annamaria Demarinis Loiotile
annamaria.demarinis@uniba.it

Science Officer:

Dr. Deniz Karaca
deniz.karaca@cost.eu

Administrative Officer:

Dr. Andrea Tortajada
andrea.tortajada@cost.eu

http://www.cost.eu/domains_actions/essem/Actions/TD1105

Top Story 
▶ all stories

***TD1105 selected as Top-Story
by COST Association***



Taking charge of air quality control in Europe's smart, green cities



A COST funded network of European spin-offs, SMEs, agencies, research centres and universities is working on developing cheaper and energy efficient sensors for air quality control in Europe's future smart cities.

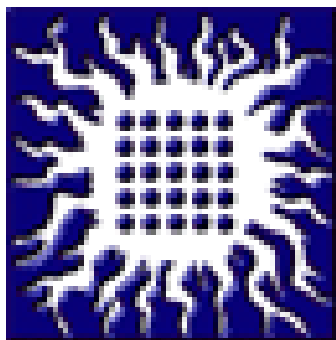
▶ full story

ACKNOWLEDGEMENTS

Belgrade, Serbia, 13 - 14 October 2015



THANK YOU VERY MUCH FOR YOUR KIND ATTENTION !



VINCA Institute



**Public Health
Institute of Belgrade**



University of Belgrade



SEE YOU SOON at **WGs + MC MEETING** *EuNetAir*

Sofia, Bulgaria, 16 - 18 December 2015

