

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

WGs & MC Meeting

*New Sensing Technologies for Indoor Air Pollution Monitoring
and Environmental Measurements*

organized and hosted by Bulgarian Academy of Sciences
Sofia, Bulgaria, 16 - 18 December 2015

Action Start date: 01/07/2012 - Action End date: 15/11/2016 - Year 4: 2015-16 (*Extended Action*)

CONCLUSIONS

 **COST**
EUROPEAN COOPERATION IN SCIENCE AND TECHNOLOGY



Michele Penza

Function in the Action: Action Chair

ENEA - Brindisi, Italy





FIFTH SCIENTIFIC MEETING

Working Groups and Management Committee

organized by Bulgarian Academy of Sciences
Institute of Electronics and National Institute for Meteorology and Hydrology
Sofia (Bulgaria), 16 - 18 December 2015

hosted at Bulgarian Academy of Sciences - Conference Hall
11 November Street, 1 - 1000 Sofia, Bulgaria

Meeting AGENDA	
16 Dec. 2015 - Wednesday	
08:30 - 18:00	REGISTRATION
09:00 - 09:30	WELCOME SESSION
09:30 - 11:00	PLENARY SESSION 1: Invited Talks
11:00 - 11:30	<i>Coffee-Break</i>
11:30 - 13:00	PLENARY SESSION 2: Invited Talks
13:00 - 14:30	<i>Lunch</i>
14:30 - 16:30	WG1-WG2 Meeting WG3-WG4 Meeting
16:30 - 17:00	<i>Coffee-Break</i>
17:00 - 18:30	WG1-WG2 Meeting WG3-WG4 Meeting
18:30	<i>Gathering of Day</i>
18:30 - 19:30	<i>Welcome Party</i>
17 Dec. 2015 - Thursday	
09:00 - 18:00	REGISTRATION
09:00 - 09:30	Wrap-Up and Inputs from Action TD1105
09:30 - 10:30	KEYNOTE SESSION
10:30 - 11:00	<i>Coffee-Break</i>
11:00 - 12:30	SIG SESSIONS: SIG1-SIG4 Meeting
12:30 - 14:00	<i>Lunch</i>
14:00 - 15:00	ROUNDTABLE: Which Future for AQ Sensors?
15:00 - 16:00	POSTER SESSION
16:00 - 16:30	<i>Coffee-Break</i>
16:30 - 18:00	Action WGs/SIGs GENERAL ASSEMBLY
18:00	CONCLUSIONS
19:30	<i>Social Dinner</i>
18 Dec. 2015 - Friday	
09:30 - 13:00	8th MANAGEMENT COMMITTEE MEETING
13:00 - 14:00	<i>Lunch</i>
14:30	Meeting Closing

AIM of *EuNetAir* WGs MEETING at Sofia:

New Sensing Technologies for Indoor Air Pollution Monitoring and Environmental Measurements

- **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 Consolidate** on *Future Plans* of the COST Action TD1105 to address **HORIZON 2020** proposals



COST Action TD1105 *EuNetAir*: WGs+MC Meeting Sofia

Statistics of Action WGs+MC Meeting at Sofia:	
e-COST Registered Participants / Total Participants:	58 / 60
Sessions including Plenary, Oral & Poster:	10
Keynote/Invited Speakers:	12
Oral Speakers (Contributed Talks):	27
Poster Presenters:	12
COST Countries involved in WGs Meeting: <i>Bulgaria, Croatia, Czech Republic, Denmark, Finland, France, Germany, Greece, Ireland, Italy, Norway, Poland, Portugal, Serbia, Spain, Sweden, Switzerland, Turkey, UK and Russia (Near Neighbour Country)</i>	20
Gender Balance in WGs Meeting:	15 F (26%) 43 M (74%)
Early Stage Researchers (ESRs):	14 (25%)

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**
- ***RoundTable: Which Future for AQ Sensors***



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

- **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

- **5th SCIENTIFIC MEETING: WGs Meeting and 8th MC Meeting on New Sensing Technologies for Indoor Air Pollution Monitoring and Environmental Measurements** 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 ?**

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

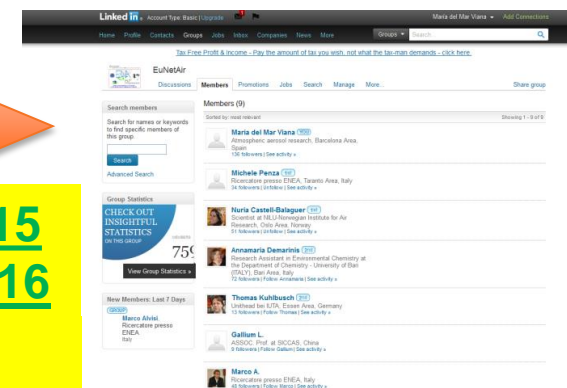
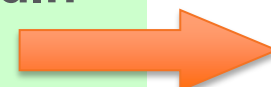
hosted by ENEA

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

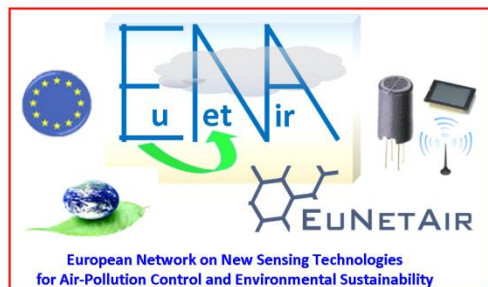
Opening Editorial

- 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 ✓
- Issue 7:** published on Dec. 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: 15 Nov. 2016

www.cost.eunetair.it

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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.

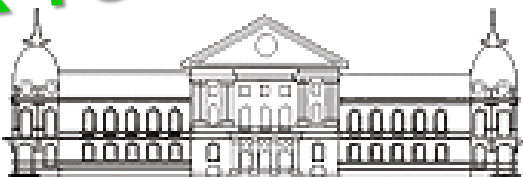
▶ full story

ACKNOWLEDGEMENTS

Sofia, Bulgaria, 16 - 18 December 2015



THANK YOU VERY MUCH FOR YOUR KIND ATTENTION !



**BULGARIAN
ACADEMY
of SCIENCES**
— 1869 —



BAS - Institute of Electronics

**BAS - National Institute for
Meteorology and Hydrology**



SEE YOU SOON at 4° WORKSHOP *EuNetAir*
Wien, Austria, 25 - 26 February 2016



Bulgarian Academy of Sciences, Sofia, 16-18 December 2015

