

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

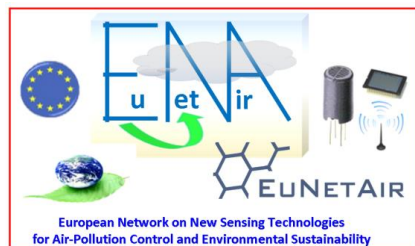
COST Action TD1105

3rd International Workshop *EuNetAir* on *New Trends and Challenges for Air Quality Control* University of Latvia - Faculty of Geography and Earth Sciences Riga, Latvia, 26 - 27 March 2015

CONCLUSIONS

Action Start date: 01/07/2012 - Action End date: 30/06/2016 Year 3: 1 July 2014 - 30 June 2015

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EUROPEAN COOPERATION IN SCIENCE AND TECHNOLOGY



Michele Penza

Function in the Action: Action Chair
ENEA - Brindisi, Italy



THIRD ACTION WORKSHOP: RIGA, Latvia

hosted at Faculty of Geography and Earth Sciences - University of Latvia
supported by Riga Technical University



AGENDA

| 26 March 2015 - Thursday | |
|--------------------------|--|
| 09:00 - 18:00 | REGISTRATION |
| 09:30 - 10:00 | Welcome Address |
| 10:00 - 11:00 | Session 1: Plenary Session |
| 11:00 - 11:30 | <i>Coffee Break</i> |
| 11:30 - 13:00 | Session 2: Oral Presentations |
| 13:00 - 14:30 | <i>Lunch</i> |
| 14:30 - 16:00 | Session 3: Oral Presentations |
| 16:00 - 16:30 | <i>Coffee Break</i> |
| 16:30 - 18:30 | Session 4: Oral Presentations |
| 20:00 - 23:00 | <i>Social Dinner</i> |
| 27 March 2015 - Friday | |
| 09:00 - 16:00 | REGISTRATION |
| 09:30 - 11:00 | Session 5: Oral Presentations |
| 11:00 - 11:30 | <i>Coffee Break</i> |
| 11:30 - 13:00 | Session 6: Oral Presentations |
| 13:00 - 14:30 | <i>Lunch</i> |
| 14:30 - 16:00 | Session 7: Poster Presentations |
| 16:00 - 16:30 | <i>Discussion and Coffee Farewell</i> |
| 16:30 | Closure of Meeting |

THIRD ACTION WORKSHOP

New Trends and Challenges for Air Quality Control

- **Welcome Address from COST Action TD1105 EuNetAir**
- Dr. Michele Penza, Action Chair
ENEA, Technical Unit for Materials Technologies, Brindisi (Italy)



AIM of the *EuNetAir* THIRD ACTION WORKSHOP

New Trends and Challenges for Air Quality Control

- **Provide** from Action TD1105 *EuNetAir* an Overview of the *Best Available Sensing Technologies, Modelling, Methods and Best Practices on **Air Pollution Monitoring*** to International Organizations (IOs), Policy Makers and Public Institutions, Local Managers.
- **Discuss** on new *Trends and Challenges for AQ* and on starting *European SENSOR SYSTEM CLUSTER (ESSC)* related to COST Action TD1105



COST Action TD1105 *EuNetAir*: THIRD ACTION WORKSHOP

New Trends and Challenges for Air Quality Control

Statistics of Action Workshop at Riga:

| | |
|--|--------------------------|
| e-COST Registered Participants / Total Participants: | 49 / 55 |
| Sessions including Plenary, Oral & Poster: | 7 |
| Keynote/Invited Speakers: | 6 |
| Oral Speakers (Contributed Talks): | 18 |
| Poster Presenters: | 13 |
| Round-Table Speakers: | 2 |
| Reimbursed Participants: | 23 |
| COST Countries involved in WGs/MC Meeting: <i>Belgium, Bulgaria, Croatia, Czech Republic, Estonia, France, Germany, Greece, Hungary, Italy, Latvia, FYR Macedonia, Norway, Poland, Portugal, Serbia, Spain, UK</i> | 18 |
| Live Video Chat with Brussels: <i>Hans Hartmann Pedersen, DG R&I Officer</i> | 1 |
| Gender Balance in Workshop: | 18 F (37%) 31 M (63%) |
| Early Stage Researchers (ESRs): | 18 (37%) |

Topics of Workshop

- **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 3: Scientific Planning of *EuNetAir* (1/3)

Meetings/Workshops/Training Schools planned for upcoming year
([Year 3: 1 July 2014 - 30 June 2015](#)):

- **WG1-WG4 Meeting** on *New Sensing Technologies for Air-Pollution Monitoring and Start of the Air Quality Joint-Exercise Intercomparison* at IDAD - University of Aveiro, Aveiro (**Portugal**), 13 - 15 Oct. 2014.
- The **3rd International Workshop of the COST Action TD1105** on *New Trends and Challenges on Air Quality Control* at University of Latvia, Riga (**Latvia**), 26 - 27 March 2015.
- The **Action 3rd International Training School** on *Atmospheric Aerosol Physics, Measurements and Sampling* at Hyytiala Station of the University of Helsinki, Helsinki (**Finland**), 1 - 8 May 2015.

Year 3: Scientific Planning of *EuNetAir* (2/3)

MC/WG Meetings planned for the upcoming year

(Year 3: 1 July 2014 - 30 June 2015):

- **3rd SCIENTIFIC MEETING: WGs Meeting and 6th MC Meeting on Indoor Air Quality Monitoring** at Bahcesehir University and GEBZE Institute of Technology, Istanbul (Turkey), 3 - 5 Dec. 2014.
- **4th SCIENTIFIC MEETING: WGs Meeting and 7th MC Meeting on Outdoor Air Quality Monitoring** at Linkoping University, Linkoping (Sweden), 3 - 5 June 2015.
- **Special Session EuNetAir / Core-Group Meeting** to EUROSENSORS 2014, Brescia (Italy), 7 - 10 September 2014.
- **Special Session EuNetAir / Smart Cities Sensors** to IEEE SENSORS 2014, Valencia (Spain), 2 - 5 November 2014.

MC/WG Meetings planned for the upcoming year

(Year 3: 1 July 2014 - 30 June 2015):

- ***EuNetAir* FOCUS GROUP: Data Analysis of Aveiro Air Quality Sensors Intercomparison** hosted at WHO Collaborating Centre for Air Quality Management and Air Pollution Control - Federal Environment Agency, Berlin (Germany), 17 April 2015. Expected Persons: 10.
- ***EuNetAir* FOCUS GROUP: Innovation on Environmental Sensor Technologies** hosted at Siemens AG, Munich (Germany), 29 April 2015. Expected Persons: 10.
- ***EuNetAir* FOCUS GROUP: ISOEN 2015 - International Symposium on Olfaction and Electronic Noses**, Dijon (France), 28 June - 1 July 2015. Expected Persons: 5 (3 Speakers + 2 Flash Presenters).

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

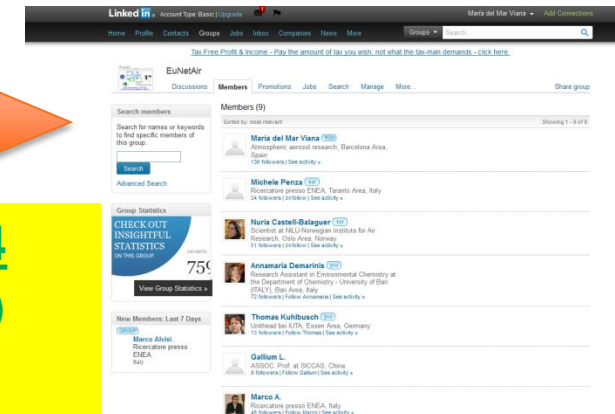
hosted by ENEA

Dr. Marco Alvisi, Webmaster Coordinator

Sebastiano Dipinto, Valerio Pfister, Gianfranco Zingarelli, Webmaster Team

Social Scientific ESRs Network (SSEN) by LinkedIn

Moderator(s): Mar Viana, Mariacruz Minguillon



3^o CALL for Short Exchange Visits launched on June 2014
(STSM - Short Term Scientific Mission - by 30 June 2015)

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 ✓

Prof. Ralf Moos, Editor-in-Chief

Dr. Daniela Schonauer-Kamin, Editorial Board Manager

Contact Details

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

www.cost.eunetair.it

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

EuroNanoForum 2015

Riga, 10 - 12 June 2015



EuroNanoForum
2015

10-12 June 2015, Riga, Latvia

www.euronanoforum2015.eu

**under Latvian Presidency of the EU Council
hosted and organized by University of Latvia
supported by EC DG R&I**

ACKNOWLEDGEMENTS

Riga, Latvia, 26 - 27 March 2015



THANK YOU VERY MUCH FOR YOUR KIND ATTENTION !



SEE YOU SOON at
4th SCIENTIFIC MEETING *EuNetAir*
Linköping, Sweden, 3 - 5 June 2015

