

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

COST Action TD1105

2nd International Workshop *EuNetAir* on

New Sensing Technologies for Indoor and Outdoor Air Quality Control

Palazzo Nervegna-Granafei, Brindisi Municipality Headquarters
ENEA - Brindisi Research Center, Brindisi, Italy, 25 - 26 March 2014

Action Start date: 01/07/2012 - Action End date: 30/06/2016 - Year 2: 1 July 2013 - 30 June 2014

CONCLUSIONS and UPCOMING EVENTS

 **cost**
EUROPEAN COOPERATION IN SCIENCE AND TECHNOLOGY



Michele Penza

Function in the Action: Action Chair

ENEA - Brindisi, Italy



SECOND INTERNATIONAL WORKSHOP on New Sensing Technologies for Indoor and Outdoor Air Quality Control

Brindisi (Italy), 25 - 26 March 2014

Palazzo Nervegna-Granafei (City Mayor Headquarters)
Via Duomo, 20 - 72100 Brindisi, Italy

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| <p>organized by ENEA - Brindisi Research Center</p> |  |
| <p>supported by Brindisi Municipality</p> |  |



| AGENDA | |
|----------------------------------|---------------------------------------|
| 25 March 2014 - Tuesday | |
| 08:30 - 18:00 | REGISTRATION |
| 09:00 - 09:30 | Welcome Address |
| 09:30 - 11:00 | Session 1: Plenary Session |
| 11:00 - 11:30 | <i>Coffee Break</i> |
| 11:30 - 13:00 | Session 2: Oral Presentation |
| 13:00 - 14:30 | <i>Lunch</i> |
| 14:30 - 16:00 | Session 3: Oral Presentation |
| 16:00 - 16:30 | <i>Coffee Break</i> |
| 16:30 - 18:30 | Session 4: Oral Presentation |
| 20:30 - 23:00 | <i>Social Dinner</i> |
| 26 March 2014 - Wednesday | |
| 08:30 - 16:00 | REGISTRATION |
| 09:00 - 11:00 | Session 5: Oral Presentation |
| 11:00 - 11:30 | <i>Coffee Break</i> |
| 11:30 - 13:00 | Session 6: Oral Presentation |
| 13:00 - 14:30 | <i>Lunch</i> |
| 14:30 - 15:30 | Session 7: Poster Presentation |
| 15:30 - 16:00 | <i>Discussion and Coffee Farewell</i> |
| 16:00 | Closure of Meeting |

Summary of Work and Budget Plan - **Year 2: 1 July 2013 - 30 June 2014**

| DECISIONS APPROVED BY COST ACTION TD1105 MC | APPROVED |
|---|----------|
| MC3D01. 18 STSMs : 11 STSMs (5 days) and 7 STSMs (30 days), <i>or equivalently</i> . | YES |
| MC3D02. WG1-WG4 Meeting , European Environment Agency, Copenhagen, DK, 3 - 4 Oct. 2013 - DONE | YES |
| MC3D03. WG1-WG4 Meeting , Cambridge, UK, 18 - 19 Dec. 2013, (joined to 4 th MCM). DONE | YES |
| MC3D04. 2nd Action Workshop on <i>New Sensing Technologies for Indoor and Outdoor Air Quality Control</i> , 25 - 26 March 2014, Brindisi, Italy. DONE | YES |
| MC3D05. 2nd Training School , 31 March - 2 April 2014, Saarland University, Saarbrücken, Germany. PLANNED | YES |
| MC3D06. EMRS-2014 Symposium , 26 - 30 May 2014, Lille, France - 1st Action TD1105 International Conference as planned in MoU (joined to 5 th MCM). PLANNED | YES |
| MC3D07. STATE-OF-THE-ART on <i>Air Quality Monitoring: Models, Methods, Standards and Technologies</i> , June 2014 (To be defined). Release 1. | YES |
| MC3D08. NEWSLETTER: Issue 3 (Nov-Dec. 2013). DONE ; Issue 4 (April-May 2014). PLANNED . LEAFLET/BROCHURE : UPDATED Issues | YES |
| MC3D09. 4th MC Meeting : 20 Dec. 2013, Cambridge, UK, at Queens' College. DONE | YES |
| MC3D10. 5th MC Meeting : 30 May 2014 (tbc), Lille, France, EMRS-2014 Spring Meeting. PLANNED | YES |
| MC3D11. DISSEMINATION & OUTREACH ACTIVITIES | YES |

COST Action TD1105: Related Upcoming EVENTS

New Sensing Technologies for Air-Pollution Control and Environmental Sustainability

- **COST Domain-Specific CMST Strategic Event**

COST Actions: A Great Opportunity as Incubators for Molecular Science and Technology

Brussels (Belgium), 27-28 March 2014

Action TD1105 represented as **Invited Speaker** by Dr. Marco Alvisi, MC Substitute and SIG1 (*Network of Spin-offs*) Leader, ENEA, Brindisi, Italy.

- **COST Domain ESSEM, ISCH, ICT Strategic Event**

Cities of Tomorrow

Turin (Italy), 24-27 September 2014 (tbc !)

Action TD1105 represented as **Invited Speaker** by Prof. Anita Lloyd-Spetz, Action Vice-Chair, Linköping University (Sweden) and Oulu University (Finland).

COST Action TD1105: Related Upcoming EVENTS

New Sensing Technologies for Air-Pollution Control and Environmental Sustainability

- **Air Sensors 2014: A New Frontier**

Workshop Series US EPA: Workshop in the Next Generation Air Monitoring (NGAM)

EPA Campus in Research Triangle Park, North Carolina (USA), 9-10 June 2014

Action TD1105 represented as **Invited Speaker** by Dr. Michele Penza, Action Chair, ENEA, Brindisi, Italy.

- **NATO Advanced Research Workshop**

NATO ARW on Nanotechnology to Aid Chemical and Biological Defense

organized by Prof. Terri A. Camesano, Chemical Engineering, Worcester Polytechnic Institute, USA

Antalya (Turkey), 22-26 September 2014

Action TD1105 represented as **Invited Speaker** by Dr. Michele Penza, Action Chair, ENEA, Brindisi, Italy.

COST Action TD1105: Related Upcoming EVENTS

New Sensing Technologies for Air-Pollution Control and Environmental Sustainability

- **Eurosenors 2014**

XXVIII Edition of Conference Series: *European Forum to cover the entire field of Sensors, Actuators, Microsystems and Nanosystems*

Brescia, (Italy), 7-10 September 2014

General Conference Chair: Prof. G. Sberveglieri

Action TD1105 represented as **Technical Program Committee (TPC) Member** by Dr. Michele Penza, Action Chair, ENEA, Brindisi, Italy

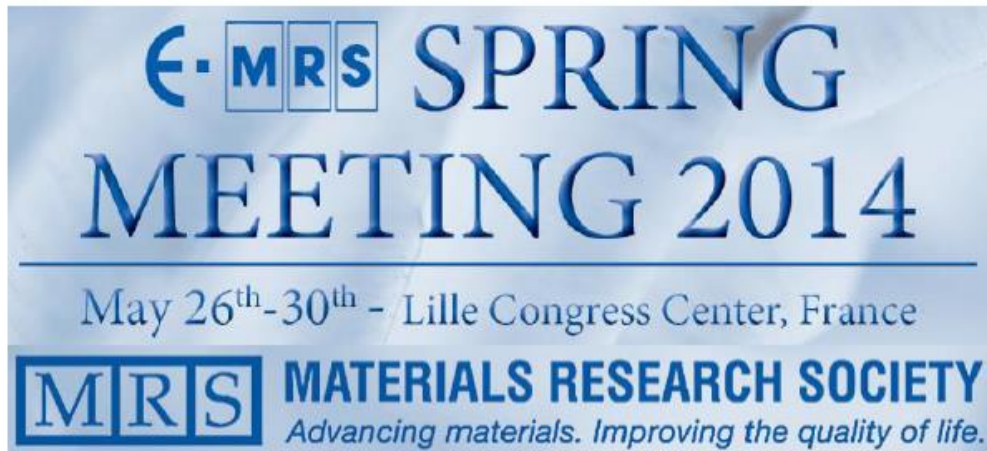
- **IEEE SENSORS 2014**

2014 Edition of Conference Series: *Worldwide Forum*

Valencia (Spain), 2-5 November 2014

Technical Program Chair: Prof. Ignacio R. Matias

Action TD1105 represented as **Track Co-Chair for Europe/Africa (Track 9: **Materials, Processes, Circuits, Signals & Interfaces**)** by Dr. Michele Penza, Action Chair, ENEA, Brindisi, Italy



Call for Abstracts and Papers

Symposium B: Advanced Functional Materials for Environmental Monitoring and Applications

E-MRS - Spring Meeting 2014, May 26 - 30, Lille Congress Center, France

Symposium Organizers and Guest Editors

Michele Penza
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**EMRS-2014 Symposium B Proceedings
In Special Issue JSSS
Journal of Sensors and Sensor Systems**

**Number of EMRS Submissions:
202 Abstracts**



The poster features a green background with a stylized DNA helix and a grid of numbers from 0.2 to 0.9. At the top, it reads 'www.european-mrs.com' and '€·MRS'. The main title is 'SPRING MEETING 2014' with 'Lille Congress Center France' and 'May 26th-30th' below it. A large 'CALL FOR PAPERS' is centered. The poster lists conference chairs: Ian BOYD (U.K.), Gilles DENNLER (France), Roberto FARIA (Brazil), Roberto FORNARI (Germany), and Elvira FORTUNATO (Portugal). It also mentions a bilateral energy conference with Hans RICHTER (Germany) and William TUMAS (USA). The scientific program is divided into several sections: MATERIALS FOR ENERGY AND ENVIRONMENT (A-D), NANOMATERIALS (E-I), MATERIALS AND LIGHT (J-K), HYBRID, ORGANIC AND BIO-MATERIALS (M-S), CRYSTAL GROWTH IN MATERIALS SCIENCE (T-V), and BILATERAL ENERGY CONFERENCE (W-Z).

Deadline for abstract submission: 16 Jan 2014



SPRING MEETING
May 26-30, 2014
Lille

Deadline for
abstract submission:

January 16, 2014

- Special Issue in *Journal of Sensors and Sensor Systems (JSSS)*
- Deadline for JSSS submission of accepted Abstracts: 15 June 2014
- URL: (http://www.journal-of-sensors-and-sensor-systems.net/submission/manuscript_submission.html)

SECOND INTERNATIONAL WORKSHOP *EuNetAir*:

New Sensing Technologies for Air-Pollution Control and Environmental Sustainability

- **Special Issue Urban Climate** (*Elsevier*)

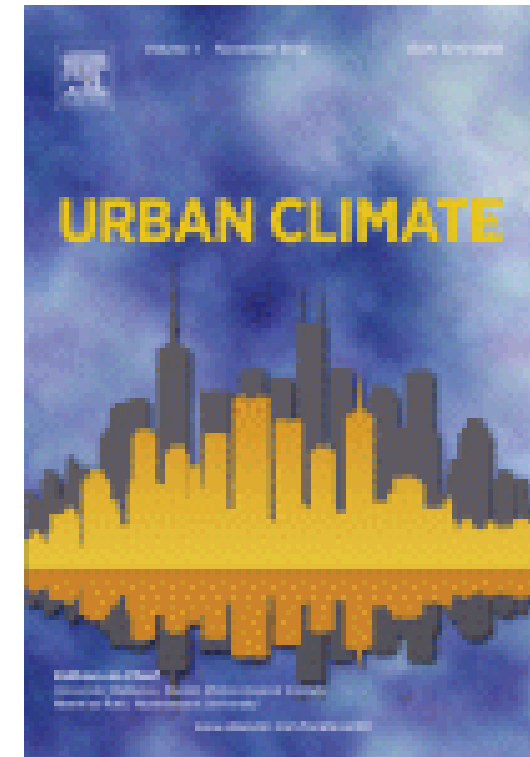
New Sensing Technologies and Methods for Air-Pollution Monitoring

Proceedings of the Action EEA Meeting open to external contributors.

Peer-review process (<http://ees.elsevier.com/uclim/>)

- *Guest Editors*:

- ✓ Michele Penza, ENEA, Italy
- ✓ Anita Lloyd Spetz, Linkoping University, Sweden
- ✓ Ole Hertel, Aarhus University, Denmark
- ✓ Ulrich Quass, IUTA eV, Germany
- Deadline for submission: 28 February 2014 (**Close**)
- Number of Submissions: **20 Manuscripts**
- Expected Publication: *Fall 2014 (Nov-Dec 2014)*



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:

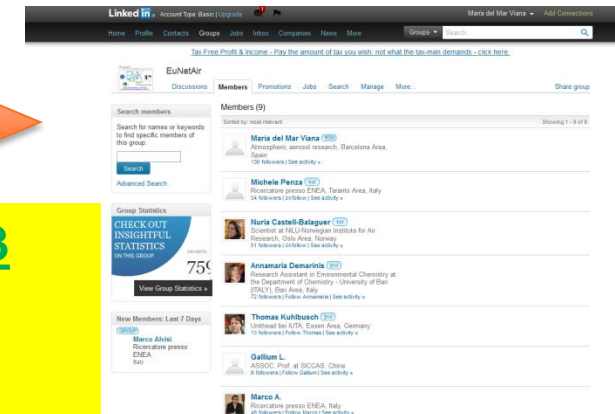
www.cost.eunetair.it

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



2° CALL for Short Exchange Visits launched on Sept. 2013
(STSM - Short Term Scientific Mission)

Dr. Jan Theunis, STSM Coordinator EuNetAir

Issue 1: published on Dec. 2012 ✓

Issue 2: published on June 2013 ✓

Issue 3: published on December 2013 ✓

Issue 4: planned on May-June 2014 ✎



EuNetAir Newsletter

COST Action TD1105 Iss. 1/Dec 2012

Opening Editorial

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

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



Video/Interview at Action Webpages:

www.cost.eunetair.it

Section VIDEO

- **Tim Watkins**

Deputy Director US EPA Air, Climate and Energy Programme

- **Andrea C. Ferrari**

Chairman of Executive Board of Graphene Flagship

- **Cristina Guerreiro**

Coordinator of EEA AQ Report 2012 and 2013

- **Meyya Meyyappan**

Chief Scientist at NASA Ames Research Center

COST Action TD1105 EuNetAir:

2nd Training School at Saarland University, Saarbrücken, Germany, 31 March - 2 April 2014

Open Call for Participation of the Trainees

Deadline for Application of Grants: 14 February 2014 (**Close**)

More info at [Action webpages](#) - Section *Training Schools*



Aveiro Joint-Exercise Intercomparison

Joint-Exercise IDAD with SGX Sensortech

Evaluation of micro-sensors against standard methods for air quality control during field campaigns



- The application of new sensors side by side with standardised equipment in field studies will allow assessing the reliability and uncertainty of these low-cost sensors, especially regarding an accurate detection of pollutant concentration peaks.
- The measurement campaigns of O₃, NO₂, CO/VOC are being conducted in two major Portuguese airports, Lisbon and Oporto, in 6 monitoring sites, from October 2013 to February 2014.

Aveiro Joint-Exercise Intercomparison

EuNetAir Air Quality Joint-Exercise Intercomparison 2014

Air quality campaign at Aveiro city centre 2014



**Continuous measurements CO, benzene, NO_x, SO₂, PM₁₀, VOC
Temperature, humidity, wind velocity, wind direction, solar radiation, precipitation**

**All COST partners are invited to install their micro-sensors
side by side with our air quality standardised equipment.**

COST Action TD1105 EuNetAir:

1st EuNetAir Air Quality Joint-Exercise Intercomparison

Aveiro, Portugal, 14 - 28 April 2014

organized by

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

Contact Persons: Prof. Carlos Borrego, IDAD, (cborrego@ua.pt)

Dr. Anna Margarida Costa, IDAD, (amcosta@ua.pt)

Dr. Michele Penza, ENEA, (michele.penza@enea.it)

Open Call for Participation of the Interested Teams

Deadline for Applications: 31 March 2014

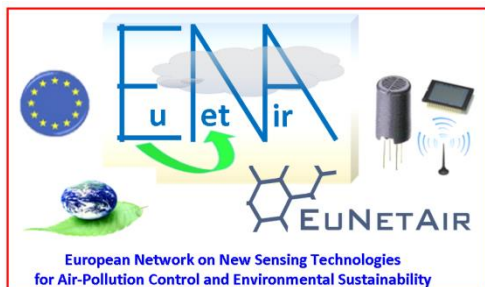
NO FUNDING IS AVAILABLE from COST Action TD1105 (!!!)

More info at Action webpages - Section *Meetings*



Contact Details

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EUROPEAN COOPERATION IN SCIENCE AND TECHNOLOGY



- **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

**WELCOME from Chair addressing the 2nd International Workshop,
Brindisi (Italy), 25 - 26 March 2014**

SEE YOU IN LILLE, 26-30 May 2014

**5th ACTION MC Meeting (30 May 2014) &
Symposium B (26-29 May 2014) at EMRS-2014,
Spring Meeting 2014, LILLE, FRANCE**

LILLE, 26-30 MAY 2014

COST Action TD1105 EuNetAir Workshop at Palazzo Nervegna-Granafei (Municipality of Brindisi) in Brindisi, Italy

Brindisi (Italy), 25 - 26 March 2014



THANK YOU VERY MUCH FOR YOUR KIND ATTENTION!
and SERVE EuNetAir by YOUR TALENT!



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



Municipality of Brindisi