

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

COST Action TD1105

INTERNATIONAL WG1-WG4 MEETING on

New Sensing Technologies and Methods for Air-Pollution Monitoring

European Environment Agency - EEA

Copenhagen, Denmark, 3 - 4 October 2013

CONCLUSIONS OF COST ACTION TD1105 EEA MEETING

Action Start date: 01/07/2012 - Action End date: 30/06/2016 - Year 2: 2013-2014 (*Ongoing Action*)

EuNetAir EEA MEETING: UPCOMING EVENTS

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EUROPEAN COOPERATION IN SCIENCE AND TECHNOLOGY



Michele Penza

Function in the Action: Action Chair

ENEA - Brindisi, Italy



15. Summary of MC decisions 3rd MC Meeting, 21 June 2013, Barcelona, Spain

DECISIONS APPROVED BY COST ACTION TD1105 MC	APPROVED
MC3D01. 15 STSMs : 9 STSMs (5 days) and 6 STSMs (30 days), or equivalently .	YES
MC3D02. WG1-WG4 Meeting , European Environment Agency, Copenhagen, DK, 3 - 4 Oct. 2013	YES
MC3D03. WG1-WG4 Meeting , Cambridge, UK, 18 - 19 Dec. 2013 (joined to 4 th MCM)	YES
MC3D04. 2nd Action Workshop on <i>New Sensing Technologies for Indoor and Outdoor Air Quality Control</i> , 25 - 26 March 2014 (to be confirmed), Brindisi, Italy	YES
MC3D05. 2nd Training School , 09 - 11 April 2014 (tbc), Saarbrucken, Germany	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)	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); Issue 4 (April-May 2014) LEAFLET/BROCHURE : UPDATED Issues	YES
MC3D09. 4th MC Meeting : 20 Dec. 2013, Cambridge, UK, organized at Queens' College	YES
MC3D10. 5th MC Meeting : 30 May 2014 (tbc), Lille, France, EMRS-2014 Spring Meeting	YES
MC3D11. DISSEMINATION & OUTREACH ACTIVITIES	YES
MC2D12. NEW 2 PARTIES : Serbia, The Former Yugoslav Republic of Macedonia	YES
MC2D13. NEW GRANT HOLDER: EURICE (Germany)	YES

Joint Research Center (JRC) Ispra (VA), Italy, 19 November 2013



JOINT RESEARCH CENTRE

Institute for Environment and Sustainability (IES)



09:00 Welcome & Introduction: The MACPoll project –A. Borowiak/M. Gerboles/J. Walden

Micro-Sensors & Air Pollution – (WP 4 of MACPoll)

Workshop MACPoll, 19th November @ JRC Ispra

Chair: Michele Penza. Rapporteur: Jan Theunis

(Amphitheatre or Room 2, tbc)

09:15 *EuNetAir* – Michele Penza, ENEA, IT

09:35 *Sensor principles and sensor system performance* – Andreas Schuetze, Saarland University, DE

10:05 *On the use of Sensors* – Jan Theunis (VITO)

10:35 COFFEE BREAK

11:00 *The graphene sensor* – Serguei Novikov, University of Aalto, FI

11:30 *Calibration of Small Resistive Commercial Sensors to measure O₃*, Manuel Aleixandre, CSIC, ES

11:45 *O₃ and NO₂ sensor validation* – Laurent Spinelle, JRC, EC

12:15 *Summary and discussion* – Michele Penza, Jan Theunis, Michel Gerboles

12:45 LUNCH BREAK

New Sensing Technologies and Methods for Air-Pollution Monitoring



The poster features a green background with a stylized DNA double helix and a diffraction pattern. The text is arranged in a clear, hierarchical manner, starting with the event title and dates, followed by the call for papers announcement and a detailed scientific program.

www.european-mrs.com
€-MRS

SPRING MEETING

2014

Lille
Congress Center
France

May 26th-30th

CALL FOR PAPERS

Conference chairs:
Ian BOYD, Univ. of Brunel, U.K.
Gilles DENNLER, IMRA Europe, France
Roberto FARIA, Univ. of São Paulo, Brazil
Roberto FORNARI, IKZ-Berlin, Germany
Elvira FORTUNATO, FCT-UNL, Portugal

Bilateral Energy conference: €-MRS
Hans RICHTER, GFNW, Germany
William TUMAS, NREL, USA

SCIENTIFIC PROGRAMME

MATERIALS FOR ENERGY AND ENVIRONMENT

- A. Thin film chalcogenide photovoltaic materials
- B. Advanced functional materials for environmental monitoring and applications
- C. Solid state ionics: thin films for energy and information applications
- D. Phonons and fluctuations in low dimensional structures

NANOMATERIALS

- E. Defect-induced effects in nanomaterials
- F. Established and emerging nanocolloids: from synthesis & characterization to applications
- G. Carbon- or nitrogen-containing nanostructured thin films
- H. AUTECH 2014 - Analytical techniques for precise characterization of nano-materials
- I. Solution processing and properties of functional oxide thin films and nanostructures

MATERIALS AND LIGHT

- J. Laser interaction with advanced materials: fundamentals and applications
- K. Challenges for group III nitride semiconductors for solid state lighting and beyond
- L. Chromogenic materials and devices

HYBRID, ORGANIC AND BIO-MATERIALS

- M. Molecular materials - Towards quantum properties
- N. Converging technology for nanobioapplications
- O. Computational modelling of organic semiconductors: from the quantum world to actual devices
- P. Carbon materials: surface chemistry and biomedical applications
- Q. Hybrid materials engineering in biology, chemistry and physics
- R. Towards lightweight and flexible electrochemical devices
- S. Nanostromaterials, mechanisms and devices for unconventional computing

CRYSTAL GROWTH IN MATERIALS SCIENCE

- T. Non-classical nucleation and crystallization*
- U. Crystal growth related twins and point defects in semiconductors and dielectrics*
- V. Effect of natural and forced convection in materials crystallization*

BILATERAL ENERGY CONFERENCE

- W. Materials research for group IV semiconductors: growth, characterization and technological developments
- X. Advanced materials and characterization techniques for solar cells II
- Y. Crystals for energy conversion and storage*
- Z. Materials and complex interface architectures for solar thermal and solar fuel devices
- AA. Organic photovoltaics / polymer solar cells

*Partly supported by the European Commission for the Special Joint EU FP7

WORKSHOP: grand challenges in materials

Deadline for abstract submission: 16 Jan 2014



SPRING MEETING

May 26-30, 2014

Lille

Deadline for
abstract submission:

January 16, 2014

14. Location and date of next MC Meeting

4rd MC Meeting, 20 December 2013, and
WG1-WG4 Meeting, 18-19 December 2013
Queens' College, Cambridge, UK

- **Letter of Commitment**
to host 4th MC Meeting
and **WG1-WG4 Meeting**
from Prof. Rod Jones, Cambridge
Action SIG2 Leader and UK MC Member

18-20 December, 2013, Cambridge, UK



Professor Roderic L. Jones
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University of Cambridge
CENTRE FOR ATMOSPHERIC
SCIENCE

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Monday, May 27, 2013

Dr. Michele Penza (Chair)

COST Action TD1105 Eu Net Air,
ENEA,

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

PO BOX 51 Br-4 (Postal correspondence)

SS7, Appia, km 706,13 (Location address)

I-72100 Brindisi, Italy

E-mail: michele.penza@enea.it

**Letter of invitation to host a COST Action TD1105 meeting at
Cambridge on 18-20 December 2013**

Dear Michele,

I am delighted to be able to offer Queens' College, Cambridge as the venue for a COST Action TD1105 meeting to be held in Cambridge on 18-20, December 2013. The intention is that this meeting will be formally hosted by me, but local arrangements will be made through the Queens' College Catering Department, with whom I understand you have had discussions.

This invitation is based on the assumption that all costs will be covered by the COST Action TD1105, with no costs falling to either the University of Cambridge or Queens' College Cambridge.

I look forward to a very successful meeting in highly conducive surroundings, perhaps even matching those of Rome last year!

Best wishes,

Roderic L. Jones
Professor of Atmospheric Science
Department of Chemistry
Cambridge

cc Tim Shorey,

Queens' College Catering Manager

COST Action TD1105 *EuNetAir* WG1-WG4 MEETING:

New Sensing Technologies and Methods for Air-Pollution Monitoring

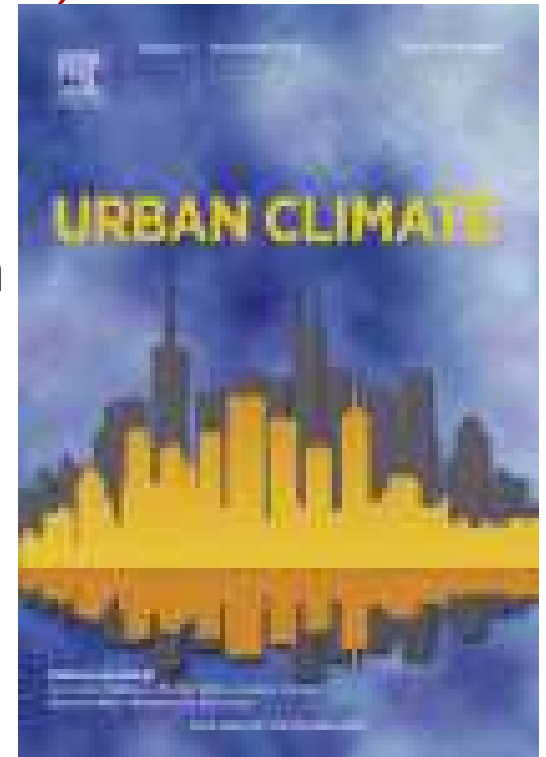
- **Special Issue Urban Climate (Elsevier)**

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: 30 November 2013**
- Expected Publication: *June 2014*





Closing of EEA WGs Meeting

WELCOME from Chair addressing the WGs Meeting

European Environment Agency (EEA) Copenhagen, 3-4 October 2013

SEE YOU IN CAMBRIDGE, 18-20 Dec. 2013

**4th ACTION MC Meeting & WG1-WG4 Meeting
at Queens' College, CAMBRIDGE, UK**

CAMBRIDGE, 18-20 December 2013

Closing of EEA WGs Meeting

European Environment Agency (EEA) Copenhagen, 3-4 October 2013

THANK YOU VERY MUCH !



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

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 Eurice GmbH, DE c.hahn@eurice.eu
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Rapporteur CMST:	Prof. Antonio Lagana (IT) lagana05@gmail.com

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