



COST

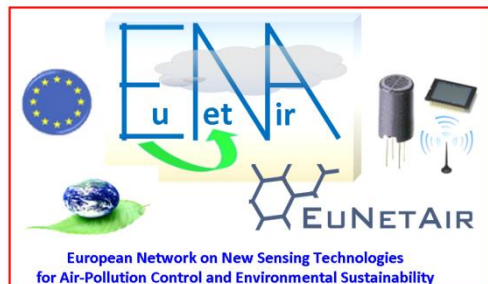
European Network on New Sensing Technologies for Air Pollution Control and Environmental Sustainability - *EuNetAir* COST Action TD1105

MC Meeting at *ENEA Headquarters*, Rome, 6 Dec. 2012

Action Start date: 01/07/2012 - Action End date: 30/06/2016

Year: 2012-2013 (***Starting Action***)

 **cost**
EUROPEAN COOPERATION IN SCIENCE AND TECHNOLOGY



Michele PENZA

Function in the Action: Chair
ENEA / Italy



1. Welcome to Participants



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

FIRST SCIENTIFIC MEETING
4 - 6 December 2012

ENEA Headquarters, Lungotevere Thaon de Revel, 76
00196 ROME, Italy

Abstract

The First Interdisciplinary Scientific Workshop, organized by ENEA, of the European project COST Action TD1105 EuNetAir, coordinated by ENEA, will deal with new sensing technologies for air quality control and environmental monitoring in order to support eco-sustainability. The scientific and technological project EuNetAir is focussed on an innovative paradigm based on the new sensing technologies, at

Programme Committee

Michele Penza - ENEA, Italy
Anita Lloyd Spetz - Linköping University, Sweden
Juan Ramon Morante - IREC, Spain
Andreas Schuetze - Saarland University, Germany
Ole Hertel - Aarhus University, Denmark
Ingrid Bryntse - SenseAir AB, Sweden
Jan Theunis - VITO, Belgium
Gianluigi De Gennaro - University of Bari, Italy

Local Organizing Committee

Annamaria Demarinis - Univ. of Bari, Italy - Action Scient. Secretary
Teresa Frataccia - ENEA, Rome, Italy - Info and Promotion
Annamaria Fagioli - ENEA, Rome, Italy - Info and Promotion
Sebastiano Dipinto - ENEA, Brindisi, Italy - Webmaster Team
Valerio Pfister - ENEA, Brindisi, Italy - Webmaster Team
Gianfranco Zingarelli - ENEA, Brindisi, Italy - Webmaster Team

- **Participating Parties: 21**
- Meeting Participants: 70 (TBC)
- MC Meeting Participants: 40 (TBC)

2. Adoption of Agenda

Agenda

2nd Management Committee Meeting

COST Action TD1105

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

ENEA Headquarters, Lungotevere Thaon de Revel, 76, Rome, Italy

4 - 6 December 2012

Any new Topics to be introduced in Agenda ?

Planned Coffe-break after discussion of the issue 8. APC (from DC)

1. Welcome to participants
2. Adoption of agenda
3. Approval of minutes and matters arising of last meeting
4. Update from the Action Chair
 - a. Status of Action, including participating countries
 - b. Action budget status
 - c. STSM status and new applications
5. Promotion of gender balance and of Early Stage Researchers (ESR)
Update from the Grant Holder
6. Update from the COST Office
7. Update from the DC Rapporteur
8. Annual Progress Conference (preparation and/or feedback from DC)
9. Follow-up of MoU objectives
 - a. Progress report of working groups
10. Scientific planning
 - a. Scientific strategy
 - b. Action Budget Planning
 - c. Long-term planning (including anticipated locations and dates of future activities)
 - d. Dissemination planning (Publications and outreach activities)
11. Requests for new members
12. Non-COST applications to the Actions
13. AOB
14. Location and date of next meeting
15. Summary of MC decisions
16. Closing

3. Approval of minutes and matters arising of last meeting

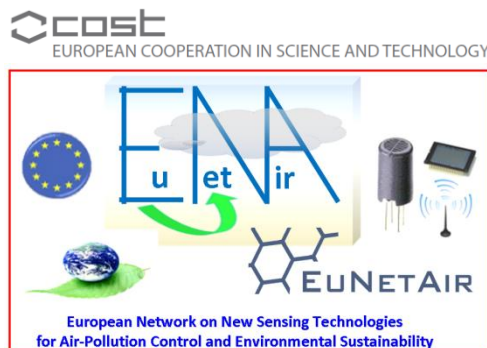
DOODLE Survey to Amendments launched on 7 September 2012

MEETINGS	INIZIAL BUDGET (as in 'Annual Work & Budget Plan')	1° AMENDAMENT (Approved by....)	FINAL (Payed)
SGS 2012	€ 2.550	€ 3500	€ 3884,10
ISQL 2012	€ 2.550	€ 2000	€ 2 572,42
TCM 2012	€ 2.550	€ 3300	€ 4135,50
<i>Totale</i>	€ 7650	€ 8800	€ 10592,02

MC needs to approve the amendments of the budget for the 3 COST Action Events to disseminate inside Workshops (SGS-2012, ISQL-2012, TCM-2012)

4. Update from the Action Chair

a. Status of Action, including participating Countries



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

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:	University of Bari, IT giangi@chimica.uniba.it
Science Officer:	Dr. Basak Kisakurek basak.kisakurek@cost.eu
Administrative Officer:	Dr. Chandrasa Sjamsudin chandrasa.sjamsudin@cost.eu
Rapporteur ESSEM:	Prof. Kostantinos Kourtidis (GR) kourtidi@env.duth.gr
Rapporteur MPNS:	Prof. Joaquim Manuel Vieira (PT) jvieira@cv.ua.pt
Rapporteur CMST:	Prof. Antonio Lagana (IT) lagana05@gmail.com

4. Update from the Action Chair

a. **Status** of Action, including participating Countries



PARTIES

Already accepted MoU: 25 Countries

Belgium, Bulgaria, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Israel, Italy, Latvia, Netherlands, Norway, Poland, Portugal, Romania, Slovenia, Spain, Sweden, Switzerland, Turkey, United Kingdom.

Non-COST Countries

Australia, Canada, China, Russia, USA

Country MC Members (43): *Male (71%) - Female (29%)*

Belgium	Dr Jan THEUNIS; Dr Anne-Claude ROMAIN
Bulgaria	Dr Dimiter SYRAKOV; Dr Ivan NEDKOV
Czech Republic	Dr. Vera KURKOVA
Denmark	Prof. Ole HERTEL
Finland	Prof. Kaarle HAMERI; Prof. Jyrki LAPPALAINEN
France	Prof. Marcel BOUVET; Prof. Jerome BRUNET
Germany	Prof. Andreas SCHUETZE; Dr Thorsten CONRAD
Greece	Prof. George PAPAPOULOS; Prof. Kostas KARATZAS
Hungary	Ms Krisztina LABANCZ; Dr Zita FERENCZI
Iceland	Dr Arngrimur THORLACIUS
Ireland	Dr. Francesco PILLA
Israel	Dr. Liad ORTAR
Italy	Dr Michele PENZA; Prof. G. SBERVEGLIERI; Dr. G. DE GENNARO
Latvia	Dr Iveta STEINBERGA
Netherlands	Dr Sywert BRONGERSMA; Dr. Ernie WEIJERS
Norway	Dr Nuria CASTELL BALAGUER; Dr. Philipp SCHENEIDER
Poland	Dr Monika KWOKA; Prof. Janislaw GAWRONSKI
Portugal	Prof. Bernadete RIBEIRO
Romania	Dr Marcel IONICA; Dr Roxana Mioara PITICESCU
Slovenia	Dr Grisa MOCNIK; Dr Rahela ZABKAR
Spain	Prof. Juan Ramon MORANTE; Prof. Eduard LLOBET VALERO
Sweden	Prof. Anita LLOYD SPETZ; Prof. Ingrid BRYNTSE
Switzerland	Dr Danick BRIAND; Dr. Nicolas MOSER
United Kingdom	Dr John SAFFELL; Prof. Roderic JONES
Turkey	Prof. Zafer ZIYA OZTURK

MC Chair: Michele Penza, ENEA, IT

MC Vice Chair: Anita Lloyd Spetz, Linkoping University, SE

Grant Holder: University of Bari, IT

Kick-off Meeting at Brussels on 16 May 2012

Country MC Substitutes (24)

Belgium	Dr Julien DELVA
Czech Republic	Dr. Roman NERUDA
Denmark	Dr. Lise Lotte SORENSEN
Finland	Prof. Jorma KESKINEN
France	Dr Jean SUISSE Prof. Alain PAULY
Germany	Dr. Daniela SCHONAUER-KAMIN Dr. Thomas KUHMBUSCH
Greece	Prof. George KIRIKIADIS Dr. Roberto SIMMARANO
Italy	Dr. Marco ALVISI Dr. Saverio DE VITO
Poland	Prof. Jacek SZUBER
Romania	Dr. Cristina RUSTI Dr. Marcel Adrian IONICA
Slovenia	Prof. Andrej DOBNIKAR
Spain	Prof. Albert ROMANO-RODRIGUEZ Dr. Jordi LLOSA
Sweden	Dr Ulf THOLE Dr. Marina VOINOVA
Switzerland	Dr Christoph HUEGLIN
UK	Prof. Julian GARDNER Dr Robin NORTH Prof. Florin UDREA

COST Action TD1105 EuNetAir: WORKING GROUPS

WG1: Sensor materials and nanotechnology	Sub-WG1.1: Metal oxides nanostructures for AQC fas sensors
	Sub-WG1.2: Carbon nanomaterials for AQC gas sensors
	Sub-WG1.3: Emerging sensor materials (organic/inorganic, hybrid, nanocomposites, polymers, functional)
WG2: Sensors, devices and systems for AQC	Sub-WG2.1: Gas nanosensors and new transducers
	Sub-WG2.2: Portable gas sensor-systems
	Sub-WG2.3: Wireless technology and AQC sensors network
	Sub-WG2.4: Intelligence algorithms and distributed computing for networked AQC gas sensors
WG3: Environmental measurements and air-pollution modelling	Sub-WG3.1: Environmental measurements at laboratory and in field air-quality stations
	Sub-WG3.2: Air-quality modeling and chemical weather forecasting
	Sub-WG3.3: Harmonisation of environmental measurements
WG4: Protocols and standardisation methods	Sub-WG4.1: Protocols, standards and methods for AQC by analyzers/instruments (no-sensors) technologies
	Sub-WG4.2: Protocols, standards and methods for AQC by sensors (no-analyzers) technologies
	Sub-WG4.3: Benchmarking of new products and market of commercial AQC sensors

4. Update from the Action Chair - a. **Status** of Action

- **SIG 1**: *Network of Spin-offs*
- **SIG 2**: *Smart Sensors for Urban Air Monitoring in Cities*
- **SIG 3**: *Guidelines for Best Coupling Air Pollutant-Transducer*
- **SIG 4**: *Expert comments for the Revision of the Air Quality EU Directive*



Special Interest Groups

Ad-Hoc Groups



MANAGEMENT COMMITTEE:

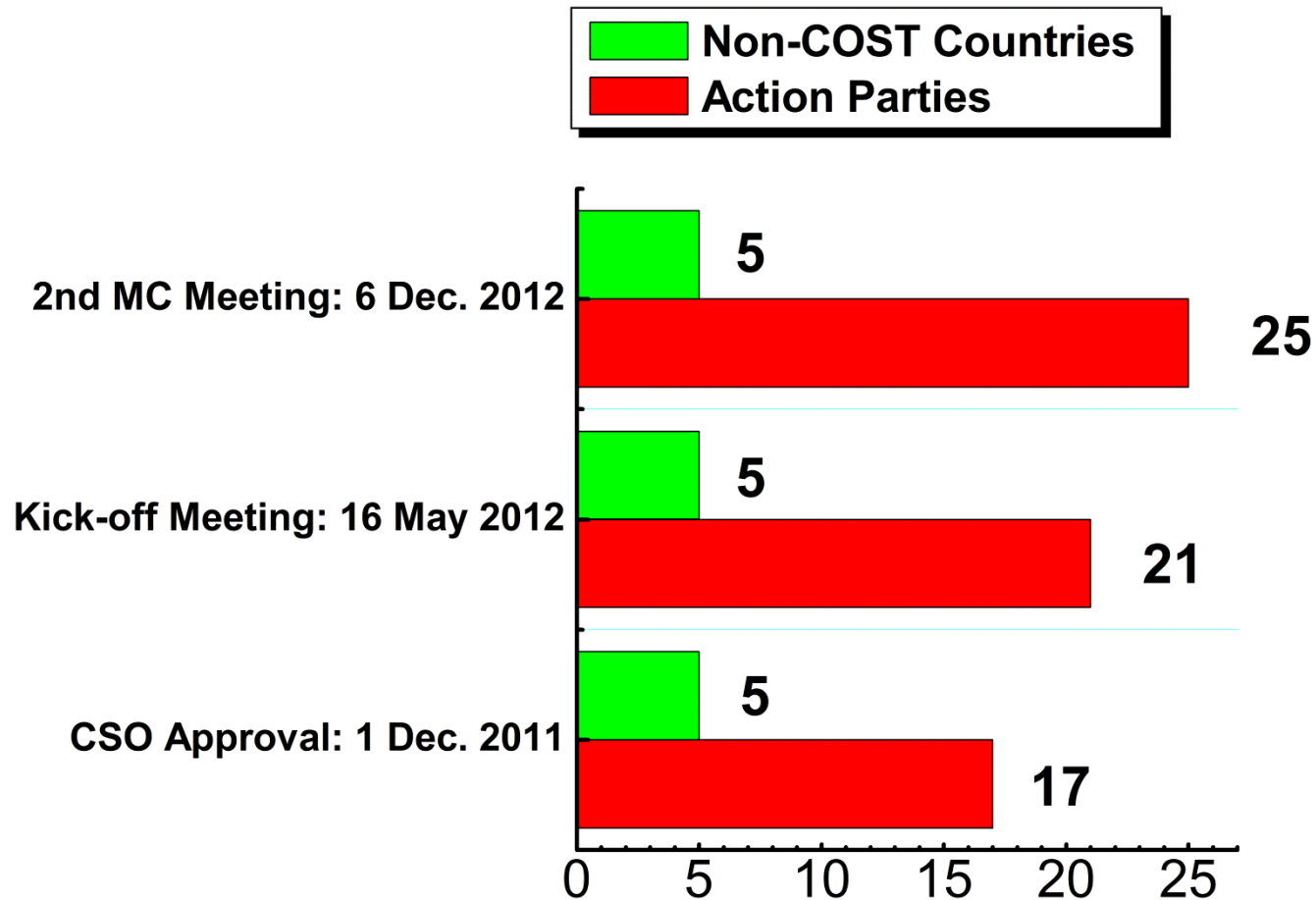
CORE-GROUP & STEERING COMMITTEE

- *Editorial Board*
- *Dissemination Committee*
- *Training Schools Committee*
- *Gender Balance Committee*
- *Short-Term Scientific Mission (STSM) - Early Stage Researchers (ESR) Committee*
 - *Intellectual Property Rights (IPR)*
 - *Local Organizing Committee (LOC)*
 - *International Stakeholders*

4. Update from the Action Chair

a. **Status** of Action, including participating Countries

COST Action TD1105 EuNetAir is growing up



4. Update from the Action Chair

Dr. Annamaria Demarinis

Action Scientific Secretary

b. Action budget status

First instalment from COST Office to GH: 90935 euro (65% of 139900 euro - Action Budget for First Year: 1 July 2012 - 30 June 2013)

	PLANNED	PAID
Meetings	95650	10592.02
Training schools	12400	0
Short Term Scientific Missions	8400	0
Dissemination	4000	0
Other Expenses Related To Scientific Activities	1250	0
Totale	121700	10592.02

% of use: 8.7%



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4. Update from the Action Chair

c. **STSM status** and new applications

CALL for Short Exchange Visits (STSM - Short Term Scientific Mission)

- **Call launched 20/11/12**
- First Period (1 July 2012 - 30 June 2013):
 - **4 STSMs of 5 days and 2 STSMs of 1 month (30 days).**
- New Sensing Technologies for Air-Pollution Control and Environmental Sustainability
 - functional nanomaterials, advanced gas sensors, sensor-systems, artificial intelligence for gas sensing, air-quality modeling, environmental measurements, chemical weather forecasting, standards, methods and protocols for air quality control
- **Who ?**
 - **1. Early Stage Researchers**
 - 2. Experienced scientists
 - assure gender balance, promote “women in science and technology”

4. Update from the Action Chair

c. STSM status and new applications

CALL for Short Exchange Visits (STSM - Short Term Scientific Mission)

- **Where ?**
 - a) *To an Institution in another COST participating Country or formally approved host institution in a Non-COST Country*
 - b) *From a formally approved Home Institution in a Near Neighbour Country (NNC) to another COST participating Country.*
 - 8400 EUR (W&B Plan).
 - **Additional resources from Action, if can !**
- Travelling costs and subsistence:
- Travel: 300 EUR recommended
- Subsistence: 60 to 90 EUR / day
- max. 2500 EUR
- Paid after approval scientific report

<u>1 month visits</u>	
30 days at 60 €/day	2.100 €
travel	300 €
total	2.400 €
2 visits	4.800 €
<u>1 week (5 days) visits</u>	
5 days at 90 €/day	450 €
travel	300 €
total	750 €
4 visits	3.000 €
<u>total</u>	<u>7.800 €</u>
Total budget	8.000 €

4. Update from the Action Chair

c. **STSM status** and new applications

CALL for Short Exchange Visits (STSM - Short Term Scientific Mission)

- **When ?**
 - Open call
 - Periodic decision every 2 - 3 months
 - 31/12/2012
 - 28/02/2013
 - 30/04/2013
 - At least 3-4 weeks before the mission starts
- **How ?**
 - E-mail to COST Action TD1105 Chair – verification of eligibility
 - On-line Registration of applicant (<https://e-services.cost.eu/stsm>)
 - Send Application
 - Assessment and selection
 - More Info on Call for STSM on the Action website (www.cost.eunetair.it)

4. Update from the Action Chair

c. STSM status and **new applications**

- **STSMs submissions coming soon**

Potential STSMs Applicants

NAME	STATUS	Home-Institution	Host-Institution
ESR #1	PhD-student	Aristotle University, Greece Tutor: Prof. K. Karatzas	VITO, Belgium Tutor: Jan Theunis
ESR #2	PhD-student	Aristotle University, Greece Tutor: Prof. K. Karatzas	ENEA, Italy Tutor: M. Penza (TBD)
Zhafira Darmastuti	PhD-student	Linkoping University, Sweden Tutor: Prof. Anita Lloyd-Spetz	TBD....
Donatella Puglisi	Post-Doc	Linkoping University, Sweden Tutor: Prof. Anita Lloyd-Spetz	TBD....
Jens Eriksson	Post-Doc	Linkoping University, Sweden Tutor: Prof. Anita Lloyd-Spetz	TBD....
OTHER APPLICANT INTERESTED
OTHER APPLICANT INTERESTED

5a. Promotion of Gender Balance

Inputs from Action GB Committee

In the action (TD1105) **about 20% of the participants are female**, which is in line with the fact that technological and scientific sector of this action is male-dominated. In order to approach a 50% gender balance, for example the Management Committee Vice-Chair, Prof. Anita Lloyd Spetz, is female.

To achieve better gender balance in Working Groups women researchers are encouraged to participate in Short Term Scientific Missions, Training Schools and the overall COST actions.

5a. Promotion of Gender Balance

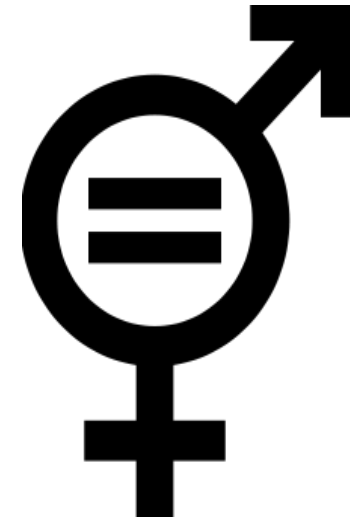
Inputs from Action GB Committee

An example for terms from the **Human Development Report** in the Russian Parliament

- EDEP = Equally Distributed Equivalent Percentage
- Calculating the EDEP for Parliamentary Representation:
- Female: population share: 0.536; Parliamentary share: 8.0%
- Male: population share: 0.464; Parliamentary share: 92.0%
- EDEP for Parliamentary representation:

$$[0.536 \times (8.0)^{-1} + [0.464 \times (92.0)^{-1}]^{-1} = 13.88$$

Then this EDEP is indexed to the ideal value of 50%.



5b. Promotion of Early Stage Researchers (ESRs)

Social Scientific ESRs Network (SSEN) by LinkedIn

- Open Group on [LinkedIn "EuNetAir"](#), launched in October 2012.
- Aim: to promote connections between EuNetAir COST Action's ESRs, to create a community connecting ESRs for current and future Science and Technology activities on AQC Technologies.
- Invitations sent out to Action participants and members.
- 19 Participants to date.

The screenshot shows the LinkedIn interface for the 'EuNetAir' group. At the top, the LinkedIn logo and user profile 'Maria del Mar Viana' are visible. The navigation bar includes 'Home', 'Profile', 'Contacts', 'Groups', 'Jobs', 'Inbox', 'Companies', 'News', and 'More'. Below the navigation bar, there is a search bar and a link: 'Tax Free Profit & Income - Pay the amount of tax you wish...not what the tax-man demands - click here.' The main content area is titled 'EuNetAir' and includes tabs for 'Discussions', 'Members', 'Promotions', 'Jobs', 'Search', 'Manage', and 'More...'. The 'Members' tab is active, showing a list of 9 members. The list includes: Maria del Mar Viana (YOU), Michele Penza (1st), Nuria Castell-Balaguer (1st), Annamaria Demarinis (2nd), Thomas Kuhbusch (2nd), Gallium L., and Marco A. To the left of the members list, there is a 'Search members' section with a search box and a 'Search' button. Below that is a 'Group Statistics' section with a blue banner that says 'CHECK OUT INSIGHTFUL STATISTICS ON THIS GROUP' and a large number '759'. At the bottom left, there is a 'New Members: Last 7 Days' section with a 'GROUP' button and a list of new members, including Marco Alvisi.

MORE ESRs TO BE LINKED !

Mar Viana and Mariacruz Minguillon
Early Stage Researcher Evaluation Committee
Social Scientific ESRs Network Moderator

Updating from the Grant Holder (UNIVERSITY OF BARI - ITALY)



First installment from COST Office to GH: 90935 euro (65% of **139900 euro** - Action Budget for First Year: 1 July 2012 - 30 June 2013)

	PLANNED	PAID
Meetings	95650	10592.02
Training schools	12400	0
Short Term Scientific Missions	8400	0
Dissemination	4000	0
Other Expenses Related To Scientific Activities	1250	0
<i>Totale</i>	121700	10592.02

Dr. Gianluigi De Gennaro

GH Action MC Member

% of use: 8.7%

Updating from the Grant Holder

Status of payments and First-Year budget

SGS 2012	PAID (€)
Dr Radu Ionescu	447.38
Prof. Jyrki Lappalainen	785.61
Prof. Eduard Llobet Valero	275.70
Dr Amadou Ndiaye	501.99
Prof. Zafer Ziya Ozturk	654.08
Dr Michele Penza	536.91
Dr Juan Daniel Prades Garcia	493.43
TOTAL	3 884.10

Σ three events: 10592.02 euro

ISQL 2012	PAID (€)
Prof. Ingrid Bryntse	730.00
Dr Christoph Hueglin	555.90
Dr Michele Penza	480.83
Prof. Jan Theunis	805.70
TOTAL	2 572.42

CM 2012	PAID (€)
Dr Andrea Goldoni	499.59
Prof Juan Ramon Morante	670.63
Dr Michele Penza	657.99
Prof. Albert Romano-Rodriguez	709.58
Ms Cristina Rusti	620.31
Dr John Saffell	977.40
TOTAL	4135.50

FIRST SCIENTIFIC MEETING
Working Groups and Management Committee
Rome, 4 - 6 December 2012



Meetings Expenditure Forecast

N° Participants: about 75
N° Participants to be reimbursed: about 53
Total Travel Costs: 48150 euro
Expenses for meeting organization: 3000 euro
Meeting expenditure forecast: 51150 euro

Next Meetings Expenditure Forecast:

Duisburg: WG3 and WG4 Meeting ⇒ **6500 euro for about 10 Participants**
Barcelona, June 2013: MC Meeting ⇒ **21000 euro for about 30 Participants**
Barcelona, June 2013:
1st International Workshop of COST Action TD1105 on New Sensing
Technologies and Transducers for Air Quality Control ⇒ **0 euro**

6. Update from the COST Office

Science Officer: Basak Kisakurek, ESSEM

- Basak Kisakurek,

7. Update from the DC Rapporteur(s)

ESSEM Rapporteur: Kostantinos Kourtidis, EL - Demokritos University of Thrace

MPNS Rapporteur: Joaquim Manuel Vieira, PT - University of Aveiro

CMST Rapporteur: Antonio Laganà, IT - Università di Perugia

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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:

University of Bari, IT
giangi@chimica.uniba.it

Science Officer:

Dr. Basak Kisakurek
basak.kisakurek@cost.eu

**Administrative
Officer:**

Dr. Chandrasa Sjamsudin
chandrasa.sjamsudin@cost.eu

Rapporteur ESSEM:

Prof. Kostantinos Kourtidis (GR)
kourtidi@env.duth.gr

Rapporteur MPNS:

Prof. Joaquim Manuel Vieira (PT)
jvieira@cv.ua.pt

Rapporteur CMST:

Prof. Antonio Lagana (IT)
lagana05@gmail.com

7. Update from the DC Rapporteur(s)

MPNS Rapporteur: Joaquim Manuel Vieira, PT - University of Aveiro

DC Report from Prof. Joaquim Manuel VIEIRA dated on 11 Sept. 2012

	<i>TDP Actions with MPNS involvement</i>	
TD1105 (ESSEM, MPNS, CMST) European Network on New Sensing Technologies for Air-Pollution Control and Environmental Sustainability – EuNetAir, May 2016	<p><i>draft evaluation welcome but not required</i></p> <p>COMMENT: "ESSEM COST Action TD1105 - European Network on New Sensing Technologies for Air-Pollution Control and Environmental Sustainability – EuNetAir, entered into force on 09/01/2012. The Kick-off meeting was held on 16th May 2012, late. The number of confirmed participations of the Action TD1105 has come to 24 COST countries at the present date. Adhesion to the program of the Action by researchers of institutes in non-COST countries is coming to 7 individual collaborations of researchers of 8 institutions from Australia, Canada, China, Russia Federation and USA . Action TD1105 had a regular start within the time span accordingly to recommendations. The commitment to the Action TD1105 program judged by the numbers of signatory countries and collaboration from countries out-side COST is large. The COST web page of Action TD1105 is under construction at the present time. More detailed information of the approved plan of action of groups, projects and agenda for the first year of activities of COST Action TD1105 could not be accessed by now."</p>	Joaquim Manuel VIEIRA

8. Annual Progress Conference - Preparation and/or feedback from DC

Earth System Science and Environmental Management

Annual Progress Conference 2012

Astir Egnatia Alexandroupolis Hotel
Parko Egnatia, 68100 Alexandroupoli, Greece
20th and 21st June 2012

19th June 2012

20:30 – 23:00 *Welcome reception with buffet at the hotel*

20th June 2012

09:00 – 09:10 Opening by ESSEM Domain Committee Chair, Ipek Erzi
Welcome by the local organiser, Konstantinos Kourtidis

Moderator: Ipek Erzi

09:10 – 09:40 ES1005 | Towards a more complete assessment of the impact of climate change on Earth's climate | Thierry Dudok de Wit (Chair) | Hugo De Boer (Rapporteur)

09:40 – 10:10 ES0805 | The Terrestrial Biosphere in the Earth System | Mihaela Bala (Chair) | Dick Blaauboer (Rapporteur)

10:10 – 10:40 ES0804 | Advancing the integrated monitoring of trace gases in the atmosphere and air quality | Penelope Serrano Ortiz (MC Substitute) | Merbold) | Ulrike Pechinger (Rapporteur)

10:40 – 11:00 *Coffee (including poster review)*

Moderator: Dick Blaauboer

11:00 – 11:30 ES0903 | Spectral sampling tools for vegetation Biophysical measurements in Europe | Loris Vescovo (Chair) | Staytcho Stoyanov (Rapporteur)

11:30 – 11:50 ES1102 | Validating and Integrating Downscaling Methods for Regional Climate Modelling | Douglas Maraun (Chair) | Jean-Pierre Chalou (Rapporteur)

11:50 – 12:10 ES1101 | Harmonizing Global Biodiversity Modelling | Jorn Scharlemann (Chair) | Emil Fulajtar (Rapporteur)

12:10 – 12:30 ES1103 | Microbial ecology & the earth system: collaborating for insight and success with the new generation of sequencing tools | Tom Curtis (Chair) | Yosef Steinberger (Rapporteur)

12:30-13:30 *Lunch*

15:30 - 16:00 *Coffee (including poster review)*

Moderator: Ulrike Pechinger

16:00 – 16:30 ES0802 | Unmanned aerial systems (UAS) in atmospheric research | Phil Anderson (Vice Chair, representing Chair Joachim Reuder) | Dirk Van Speybroeck (Rapporteur)

16:30 – 17:00 ES1004 | European framework for online integrated air quality and meteorology modelling | Alexander Baklanov (Chair) | Teresa Abrantes (Rapporteur)

17:00 – 17:20 TD1105 | European Network on New Sensing Technologies for Air-Pollution Control and Environmental Sustainability - EuNetAir | Michele Penza (Chair) | Konstantinos Kourtidis (Rapporteur)

17:20 – 17:50 ES1006 | Evaluation, improvement and guidance for the use of local-scale emergency prediction and response tools for airborne hazards in built environments | Bernd Leitl (Chair) | Vidmantas Ulecivius (Rapporteur)

17:50 – 18:00 Closing remarks

TD1105 APC 2012: Alexandroupolis, Greece, 20-21 June 2012

TD1105 APC 2013: planned in Germany, June 2013 !

9. Follow-up of MoU Objectives

a. Progress report of working groups

**Rome Workshop addressing this issue.
Updating of Scientific Programme with Action Priorities
will be provided as Annex to Rome Meeting Minutes**

- from WG1 Leader: Definitions of objectives discussed in WG meeting
- from WG2 Leader: Definitions of objectives discussed in WG meeting
- from WG3 Leader: Definitions of objectives discussed in WG meeting
- from WG4 Leader: Definitions of objectives discussed in WG meeting

9. Follow-up of MoU Objectives

a. Progress report of working groups

Definition of composition of WGs, SIGs, Ad-Hoc Groups is going towards consolidation.

.....

See Next Tables !!!

WG1: Sensor Materials and Nanotechnology

NAME	COUNTRY	INSTITUTION
Dr. Phil MARTIN	AUSTRALIA	CSIRO Materials Science & Engineering
Prof. Jyrki LAPPALAINEN	FINLAND	University of Oulu
Prof. Marcel BOUVET	FRANCE	UNIVERSITY of BOURGOGNE
Prof. Jerome BRUNET	FRANCE	UNIVERSITY BLAISE PASCAL
Prof. Alain PAULY	FRANCE	UNIVERSITY BLAISE PASCAL
Dr. Amadou Ndiaye	FRANCE	Université Blaise Pascal, CNRS / IFMA
Prof. George KIRIAKIDIS	GREECE	FOUNDATION FOR RESEARCH AND TECHNOLOGY - HELLAS
Dr. Marco Alvisi	ITALY	ENEA
Dr. Sywert BRONGERSMA	NETHERLANDS	Holst Centre / IMEC
Dr. Monika KWOKA	POLAND	SILESIAN UNIVERSITY of TECHNOLOGY
Dr. Roxana Mioara PITICESCU	ROMANIA	IMNR
Dr. Cristina RUSTI	ROMANIA	IMNR
Dr. Alexey VASILIEV	RUSSIAN FEDERATION	National Research Center - Kurchatov Institute
Dr. Francisco HERNANDEZ Ramírez	SPAIN	CATALONIA INSTITUTE for ENERGY RESEARCH
Prof. Eduard LLOBET	SPAIN	UNIVERSITAT ROVIRA I VIRGILI TARRAGONA
Prof. Albert ROMANO Rodriguez	SPAIN	UNIVERSITY of BARCELONA
Dr. Juan Daniel PRADES	SPAIN	Universitat de Barcelona
Dr. Radu IONESCU	SPAIN	SC IPA SA
Prof. Zafer Ziya OZTURK	TURKEY	GEBZE Institute of Technology
Prof. Julian GARDNER	UNITED KINGDOM	School of Engineering, University of Warwick
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WG2: Sensors, Devices and Systems for AQ

NAME	COUNTRY	INSTITUTION
Dr. Jan THEUNIS	BELGIUM	VITO NV - Vision on technology
Dr. Yongxiang LI	CHINA	Shanghai Institute of Ceramics, Chinese Academy of Sciences
Dr. Zhifu LIU	CHINA	Chinese Academy of Sciences
Dr.Věra Kůrková	CZECH REPUBLIC	Institute of Computer Science, Academy of Sciences of the Czech Republic
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Dr. Jean SUISSE	FRANCE	UNIVERSITY of BOURGOGNE
Prof. Andreas SCHUETZE	GERMANY	SAARLAND UNIVERSITY
Prof. Ralf MOOS	GERMANY	University of Bayreuth - Chair of Functional Materials
Dr. Daniela SCHONAUER-KAMIN	GERMANY	University of Bayreuth
Dr. Thorsten WAGNER	GERMANY	UNIVERSITÄT PADERBORN
Dr. Thorsten CONRAD	GERMANY	3S GmbH
Dr. Christos KOULAMAS	GREECE	ATHENA RC - INDUSTRIAL SYSTEMS INSTITUTE
Dr. Francesco Pilla	IRELAND	Trinity College Dublin
Dr. Gianluigi de Gennaro	ITALY	LEnviroS
Dr. Annamaria Demarinis Lioatile	ITALY	University of Bari
Dr. Sywert BRONGERSMA	NETHERLANDS	Holst Centre / IMEC
Prof. Bernardete Martins Ribeiro	PORTUGAL	Universidade de Coimbra
Dr. Alexey VASILIEV	RUSSIAN FEDERATION	National Research Center - Kurchatov Institute
Dr. Grisa MOCNIK	SLOVENIA	Aerosol d.o.o.
Dr. Branko Šter	SLOVENIA	University of Ljubljana
Dr. Davor Sluga	SLOVENIA	University of Ljubljana
Dr. Uroš Lotrič	SLOVENIA	University of Ljubljana
Dr. Nejc Ilc	SLOVENIA	University of Ljubljana
Prof. Andrej DOBNIKAR	SLOVENIA	University of Ljubljana
Prof. Eduard LLOBET	SPAIN	UNIVERSITAT ROVIRA I VIRGILI TARRAGONA
Prof. Albert ROMANO Rodriguez	SPAIN	UNIVERSITY of BARCELONA
Dr. Juan Daniel PRADES	SPAIN	Universitat de Barcelona
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Prof. Anita LLOYD SPETZ	SWEDEN	University of Linköping
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Prof. Zafer Ziya OZTURK	TURKEY	GEBZE Institute of Technology
Prof. Julian GARDNER	UNITED KINGDOM	School of Engineering, University of Warwick
Dr. Jeff NEASHAM	UNITED KINGDOM	School of Electrical & Electronic Engineering, Newcastle University
Dr. John SAFFELL	UNITED KINGDOM	Alphasense Ltd
Dr. Meyya MEYYAPPAN	UNITED STATES	Centre for Nanotechnology - NASA Ames Research Center

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WG3: Environmental Measurements and Air-Pollution Modelling

NAME	COUNTRY	INSTITUTION
Dr. Jan THEUNIS	BELGIUM	VITO NV - Vision on technology
Dr. Dimiter SYRAKOV	BULGARIA	NATIONAL INSTITUTE OF METEOROLOGY AND HYDROLOGY
Prof. Ole HERTEL	DENMARK	NATIONAL ENVIRONMENTAL RESEARCH INSTITUTE - AARHUS UNIVERSITY
Dr. Thomas A. J. KUHNBUSCH	GERMANY	Air Quality & Sustainable Nanotechnology - IUTA e.V.
Dr. Ulrich QUASS	GERMANY	Air Quality & Sustainable Nanotechnology - IUTA e.V.
Prof. Ralf MOOS	GERMANY	University of Bayreuth - Chair of Functional Materials
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Dr. Krisztina LABANCZ	HUNGARY	HUNGARIAN METEOROLOGICAL SERVICES
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Prof. Giorgio Assennato	ITALY	ARPA
Prof. Iveta STEINBERGA	LATVIA	University of Latvia
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Dr. Ernie Weijers	NETHERLANDS	Energy Research Centre of the Netherlands (ECN)
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Dr. Davor Sluga	SLOVENIA	University of Ljubljana
Dr. Uroš Lotrič	SLOVENIA	University of Ljubljana
Dr. Nejc Ilc	SLOVENIA	University of Ljubljana
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WG4: Protocols and Standardisation Methods

NAME	COUNTRY	INSTITUTION
Prof. Jorma KESKINEN	FINLAND	Tampere University of Technology
Dr. Liad Ortar	ISRAEL	Airbase Systems Ltd.
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Dr. John SAFFELL	UNITED KINGDOM	Alphasense Ltd

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Prof. Ingrid BRYNTSE	SWEDEN	SenseAir AB
Dr. John SAFFELL	UNITED KINGDOM	Alphasense Ltd

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SIG2: Smart Sensors for Urban Air Monitoring in Cities

NAME	COUNTRY	INSTITUTION
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Dr. Jean SUISSE	FRANCE	UNIVERSITY of BOURGOGNE
Prof. Andreas SCHUETZE	GERMANY	SAARLAND UNIVERSITY
Dr. Liad Ortar	ISRAEL	Airbase Systems Ltd.
Dr. Francesco Pilla	IRELAND	Trinity College Dublin
Dr. Gianluigi de Gennaro	ITALY	LEnviroS
Dr. Annamaria Demarinis Loiotile	ITALY	University of Bari
Prof. Giorgio Assennato	ITALY	ARPA
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Dr. Nuria Castell-BALAGUER	NORWAY	NILU - Norwegian Institute for Air Research
Dr. Philippe SCHNEIDER	NORWAY	Norwegian Institute for Air Research
Prof. Stanislaw GAWRONSKI	POLAND	Warsaw University of Life Science
Dr. Alexey VASILIEV	RUSSIAN FEDERATION	National Research Center - Kurchatov Institute
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Prof. Albert ROMANO Rodriguez	SPAIN	UNIVERSITY of BARCELONA
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Dr. Christine ALEPEE	SWITZERLAND	SGX Sensortech S.A.
Dr. Nicolas MOSER	SWITZERLAND	e2v microsensors S.A.
Dr. Christoph HUEGLIN	SWITZERLAND	EMPA
Prof. Zafer Ziya OZTURK	TURKEY	GEBZE Institute of Technology
Prof. Julian GARDNER	UNITED KINGDOM	School of Engineering, University of Warwick
Dr. Jeff NEASHAM	UNITED KINGDOM	School of Electrical & Electronic Engineering, Newcastle University
Dr. Fabio GALATIOTO	UNITED KINGDOM	UNIVERSITY of NEWCASTLE
Dr. John SAFFELL	UNITED KINGDOM	Alphasense Ltd



SIG3: Guidelines for Best Coupling Air-Pollutant and Transducer

NAME	COUNTRY	INSTITUTION
Prof. Jerome BRUNET	FRANCE	UNIVERSITY BLAISE PASCAL
Dr. Amadou Ndiaye	FRANCE	Université Blaise Pascal, CNRS / IFMA
Dr. Thorsten CONRAD	GERMANY	3S GmbH
Dr. Alexey VASILIEV	RUSSIAN FEDERATION	National Research Center - Kurchatov Institute
Prof. Eduard LLOBET	SPAIN	UNIVERSITAT ROVIRA I VIRGILI TARRAGONA
Prof. Albert ROMANO Rodriguez	SPAIN	UNIVERSITY of BARCELONA
Dr. Juan Daniel PRADES	SPAIN	Universitat de Barcelona



SIG4: Expert Comments for the Revision of the Air Quality Directive (2008/50/EC)

NAME	COUNTRY	INSTITUTION
Dr. Dimiter SYRAKOV	BULGARIA	NATIONAL INSTITUTE OF METEOROLOGY AND HYDROLOGY
Prof. Jorma KESKINEN	FINLAND	Tampere University of Technology
Dr. Thomas A. J. KULHBUSCH	GERMANY	Air Quality & Sustainable Nanotechnology - IUTA e.V.
Dr. Ulrich QUASS	GERMANY	Air Quality & Sustainable Nanotechnology - IUTA e.V.
Dr. Zita FERENCZI	HUNGARY	Hungarian Meteorological Service (HMS)
Dr. Krisztina LABANCZ	HUNGARY	HUNGARIAN METEOROLOGICAL SERVICES
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Dr. Gianluigi de Gennaro	ITALY	LEnviroS
Dr. Annamaria Demarinis Loiotile	ITALY	University of Bari
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Dr. Christoph HUEGLIN	SWITZERLAND	EMPA



9. Follow-up of MoU Objectives

a. Progress report of working groups

Definition of composition of WGs, SIGs, Ad-Hoc Groups is going towards consolidation.

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Expression of Commitment !!!

Expression of Commitment

Expression of Commitment to COST Action TD 1105 "EuNetAir"

MC Chair: Dr. Michele PENZA, ENEA - IT

i) Individual's Name: Michele Penza (email: michele.penza@enea.it)

ii) Organization Name & Address:

ENE A, Italian National Agency for New Technologies, Energy and Sustainable Economic Development
Technical Unit of Materials Technologies - Brindisi Research Center
S.S. 7 Appia Km 713.7 - 72100 Brindisi, Italy
PO Box 51 Postal Office Br4 (Correspondence)
Office: +39 0831 201422
Lab: +39 0831 201405
Fax: +39 0831 201423

iii) Contribution:

a) Role in Action: Action Chair

b) Parts of the scientific programme where contributions will be made:

- o Coordination and Project Management of the Action
- o Definition of Scientific Programme and Workplan
- o Contribute to Action objectives:
 - Working Groups activities
 - Special Interest Groups activities
 - Short Term Scientific Missions definition and support
 - Training Schools definition and support
 - Dissemination Plan definition and support
 - Early Stage Researchers activities definition and support
 - Management Committee chairing
 - Workshops and Conferences organization
 - Joint-activities with other COST Actions
 - Relations with COST Office and Domain Committee(s)
 - Reporting and Action scientific and management duties

iv) Deliverables:

- Reporting on Scientific Activities of the Action TD1105
- Recommendations, Priorities and Strategies for core-issues planned in the Action workplan
- Roadmap of Action TD1105
- Management of reporting on State-of-Art on AQC Technologies

- Steering Committee and Core-Group chairing
- Management Committee chairing

v) Timetable:

- According to the Action planned activities in the Timetable of Memorandum of Understanding signed by several participating COST Countries.

vi) Manpower approximately dedicated to the Action:

6-8 weeks per year (Tentative estimation).

vii) Assurance:

The necessary resources to perform the mentioned tasks will be available. The activities concerning the Action will be assured by nationally-funded projects such as PON R&C 2007-2013 BAITAH - *Methodology and Instruments of Building Automation and Information Technology for pervasive models of treatment and Aids for domestic Healthcare*; PON "Smart Cities and Communities and Social Innovation" RES-NOVAE; Industry-2015 ECOAPPLIANCE - *Design and Development of new domestic appliances for energy and water saving at low environmental impact*; Partnership to Industry National Technological Districts on Energy (DITNE) and Aeronautics (DAP).

viii) Foreseen collaboration:

Regional Environmental Protection Agency (Puglia, IT), University of Brescia, IREC, University of Barcelona, VITO, Aristotle University, University of Linköping, IUTA eV, CSIRO, Chinese Academy of Sciences, NASA Ames Research Center and other participants in Action TD1105.

ix) Previous experience:

Individual's Name: Michele Penza

Michele Penza, Degree in Physics in 1990 (University of Bari). First he worked with CNRSM SCpA (IT S&T Park) and then joined ENEA in 2001. He manages currently research projects (regional, national, international) and teams on material science, sensors and solid-state devices in the research centre of Brindisi, Italy. The research interests are in sensor materials, nanomaterials, gas sensors, portable sensor-systems, functional applications, environmental technologies and measurements. Author of 2 filed national patents and 150 scientific publications, 12 invited speakers, 3 book-chapters, co-organizer of scientific meetings, chair of conference-sessions, member of international scientific committees, international expert for FP7-projects and national research agency/council, international reviewer (Elsevier, ACS, IEEE, IOP, AIP, Hindawi, ASP, Wiley), tutor of Bachelor-, Master-, and PhD-students, research manager with SMEs partnership, associate editor for *Journal of Sensors*,

10. Scientific planning - a. Scientific strategy

- **Main Further Activities planned in the First Year (2012-2013):**
- **4 STSMs** of 5 days and 2 STSMs of 1 month (30 days).
- **WG3-WG4 Meeting**, Duisburg, 5-6 March 2013 (joined AirMontech)
- **1st Action Workshop** jointly Transducers-Euroensors, 20 June 2013, Barcelona, Spain
- **1st Training School** *before* Transducers-Euroensors, 14-16 June 2013, Barcelona, Spain
- **EMRS-2014**, May-June 2014, Strasbourg, France - **1st Action TD1105 International Conference** as planned in MoU
- **STATE-OF-THE-ART** *on Air Quality Monitoring: Models, Methods, Standards and Technologies*, June 2013. To be published (e.g., CRC Press or other publishers).
- **NEWSLETTER - Issue 2** on April-June 2013
- **Action TD1105 Outreach** in **INTERNATIONAL INNOVATION**, May-July 2013
- **POSITION PAPER** OF *ACTION TD1105 TOWARDS HORIZON 2020*
- **3rd MC Meeting**, 21 June 2013, Barcelona, Spain, organized by IREC
- **DISSEMINATION ACTIVITIES**

10. Scientific planning - b. Action Budget Planning

DESCRIPTION OF ACTIVITIES	BUDGET (€)
4 STSMs of 5 days and 2 STSMs of 1 month (30 days)	8.400
WG3-WG4 Meeting, Duisburg, 5-6 March 2013 (joined AirMontech)	8.500
1 st Action Workshop jointly Transducers-Euroensors, 20 June 2013, Barcelona, Spain	TBD
1 st Training School before Transducers-Euroensors, 14-16 June 2013, Barcelona, Spain	12.400
EMRS-2014, May-June 2014, Strasbourg, France - 1 st Action TD1105 International Conference as planned in MoU	TBD (2014)
STATE-OF-THE-ART on Air Quality Monitoring: Models, Methods, Standards and Technologies, June 2013. To be published.	5.000
NEWSLETTER - Issue 2 on April-June 2013	500
Action TD1105 Outreach in INTERNATIONAL INNOVATION, May-July 2013	2.500
POSITION PAPER OF ACTION TD1105 TOWARDS HORIZON 2020	500
3 rd MC Meeting, 21 June 2013, Barcelona, Spain, organized by IREC	25.500
DISSEMINATION ACTIVITIES	10.000
TOTAL	73.300

10. Scientific planning

c. Long-term Planning including anticipated locations and dates of future activities.

c1: WG3-WG4 Meeting jointly AirMonTech, 5-6 March 2013, Duisburg, DE, (1/4)

Thomas Kuhlbusch and Ulrich Quass, IUTA eV, Germany involved.

WG no. and title:	WG3 and WG4 Meeting	
Location:	Duisburg, Germany	
	jointly to <i>AirMonTech project Workshop</i>	
Date:	One-day tentative date on February/March 2013 (two-day AMT workshop)	
Number of participants to be reimbursed:		10
Travel costs:		€ 8.500
Organisational support:		€ 850

10. Scientific planning

c. Long-term Planning including anticipated locations and dates of future activities.

c1: WG3-WG4 Meeting jointly AirMonTech, 5-6 March 2013, Duisburg, DE (2/4)

- **WG3 and WG4 Meetings**

Duisburg, Germany, one-day on February/March 2013: The WG3 and WG4 Meeting (WGM) will be held jointly with AirMonTech (AMT) FP7-ENV project workshop. The core-issues of COST Action TD1105 WG3 and WG4 are of interest to AMT consortium and some Action WG3-WG4 participants are already involved in AMT as well. WG3 and WG4 Meeting will discuss on *Environmental Case-Studies and Critical Hot-Spots from Central and Eastern Europe Countries* aiming to provide harmonization of environmental measurements, exchange of best practices, methods and protocols. A plenary session (*full day*) of WG3-WG4 will be organized and open to AMT participants for science and technology discussions on the real critical cases of environmental situations. Speakers, experts and other specialists from environmental agencies, academy and industry from Near Neighbour Countries (NNC) will be encouraged to participate (at least 2 speakers from NNC) and give a Talk on environmental critical hot-spots existing in the Europe. Fruitful discussions between Action TD1105 participants, AMT experts, NNC speakers and international institutional organizations delegates (e.g., WHO Europe, DG ENV, DG RTD, European Environment Agency) are strongly expected. At the open plenary session of Action TD1105 WG3-WG4 Meeting a strong impact on focusing of the critical environmental issues would be mutual benefit.

10. Scientific planning

c. Long-term Planning including anticipated locations and dates of future activities.

c1: WG3-WG4 Meeting jointly AirMonTech, 5-6 March 2013, Duisburg, DE (3/4)



Joint
AirMonTech – EuNetAir
workshop
Duisburg, 4-6 March 2013

10. Scientific planning

Dr. Ulrich Quass

Sub-WG3.3 Leader

c. Long-term Planning including anticipated locations and dates of future activities. c1: WG3-WG4 Meeting jointly AirMonTech, 5-6 March 2013, Duisburg, DE (4/4)



Tentative Schedule

	Tentative Time	Block Topics
	10-12	Measurement techniques & Monitoring Devices
March 4	13-15	Air Quality Modelling with regard to Urban Environment
	15-17	Current regulatory approach...linking different approaches
	9-11	Linking AQ monitoring to epidemiology/health effects monitoring
March 5	11-13	Research Roadmap for next 10 Years
	14-17	COST EuNetAir Session "Environmental Case Studies from Central and Eastern Europe"
March 6	9-15	COST EuNetAirWG3/WG 4 Meeting

10. Scientific planning

c. Long-term Planning including anticipated locations and dates of future activities.

c2: Action Workshop jointly Transducers-Eurosenors, 20 June 2013, Barcelona, Spain (1/3)

- **MC Meeting 2 connected to Action Workshop 1**

Barcelona, 21 June 2013: The second MC Meeting (MCM) will be held at Barcelona (Spain), connected to *Action Workshop 1*, presumably to be held on 20 June 2013 as *embedded* satellite-event in the big international conference *Transducers 2013* (over 1000 delegates). The *Transducers 2013* edition will be jointly organized with *Eurosenors 2013* (European Conference on Sensors held annually in Europe with over 300 delegates). The program of the *Action Workshop 1* will last a full-day (20 June 2013) and compatibly one-day before MC Meeting (21 June 2013). The *Transducers 2013* General Chair (Prof. Juan Ramon Morante, IREC, Spain) is also a MC member and therefore the organizing aspects would be facilitated and promoted. At the *Action Workshop 1*, at least 1 Invited Speaker from Non-COST partners, e.g. CSIRO (Australia) as Reciprocal Agreement (RA) Country, will be involved to give a Talk on current state-of-the-art of the Action S&T core-issues. Outstanding participation from

10. Scientific planning

c. Long-term Planning including anticipated locations and dates of future activities.

c2: Action Workshop jointly Transducers-Eurosenors, 20 June 2013, Barcelona, Spain (2/3)

worldwide S&T community is highly expected with strong dissemination of Action activities towards international and specialized target audience. Moreover, the **Action Workshop 1** - *1st International Workshop of COST Action TD1105 on New Sensing Technologies and Transducers for Air Quality Control* - will be organized one full-day before MC Committee 2 at Barcelona, presumably as embedded event and linked to *Transducers 2013*. This Workshop should be at *no-cost for budget of Action* and will benefit from the presence of many involved MC members invited to participate at MC Committee at Barcelona on 21 June 2013, after closing of big international conference *Transducers 2013* (16 - 20 June 2013), edition jointly organized with *Eurosenors 2013* (European Conference on Sensors held annually in Europe).

Very good visibility for the COST Action TD1105 should be provided by the *Transducers 2013* Conference Committee such as the logo of COST and/or Action TD1105 in the conference website, Action special session embedded, Action presenters included in conference program, and other expenditures for dissemination of achieved Action results.

10. Scientific planning

c. Long-term Planning including anticipated locations and dates of future activities.

c2: Action Workshop jointly Transducers-Euroensors, 20 June 2013, Barcelona, Spain **(3/3)**

- from Action Chair for Action Workshop, Barcelona, June 2013:

Prof. Juan Ramon Morante

..... Details and definitions are in progress

10. Scientific planning

c. Long-term Planning including anticipated locations and dates of future activities.

c3: Training School before Transducers-Euroensors, 14-16 June 2013, Barcelona, Spain (1/2)

- from Action Chair for 1st
TRAINING SCHOOL
COST Action TD1105,
Barcelona, June 2013:
Prof. Albert Romano-
Rodriguez, J, Daniel
Prades, Mariacruz
Minguellon, Mar Viana

- **Training School**
Barcelona, Spain, 14 - 16 June 2013: The *three-day* Training School from Friday to Sunday, before Action Workshop 1, to be held at Barcelona, will be organized towards at least 14 reimbursed trainees and at least 4 reimbursed trainers, mainly from COST partnership. The Training School will be devoted to specific core-issues of COST Action TD1105 such as nanostructures, sensor materials, sensing technologies, environmental modeling of air-pollution, models, standards and protocols. Graduated students, PhD students, Post-Doc, Early Stage Researchers will be involved from COST partnership and a fruitful exchange of knowledge and research experiences from senior teachers to young trainees is highly expected. The Training School will be organized under supervision of University of Barcelona (Department of Electronics, MIND group), Action TD1105 partner, and is strongly connected to Action Workshop 1 to be organized *embedded* in *Transducers 2013* conference (Barcelona, 16-20 June 2013) under General Chair as Prof. Juan Ramon Morante (IREC), that is MC Member. The *Transducers 2013* edition will be jointly organized with *Euroensors 2013* (European Conference on Sensors held annually in Europe). Furthermore, this one-day Action Workshop 1 could be organized as satellite event to *Transducers 2013*, probably on *day before Action MC*. Additionally, the Training School is connected not only to Action Workshop 1 but also to MC Meeting 2 to be held at Barcelona as well (tentatively on 21 June 2013, day after *Transducers* closing). These Action events will be held together and connected one another in order to save money and increase the number of participants to more events in the framework of COST Action TD1105. In the case of remaining budget at the end of First Period due to saving management, this will be preferably used to increase the amount of trainees to be reimbursed from the Action partners.

10. Scientific planning

c. Long-term Planning including anticipated locations and dates of future activities.

c3: Training School before Transducers-Euroensors, 14-16 June 2013, Barcelona, Spain (2/2)

- from Action Chair for 1st TRAINING SCHOOL COST Action TD1105, Barcelona, June 2013: Prof. Albert Romano-Rodriguez, J, Daniel Prades, Mariacruz Minguillon, Mar Viana

..... Details and definitions are in progress

10. Scientific planning

c. Long-term Planning including anticipated locations and dates of future activities.

c4: EMRS-2014, May-June 2014, Strasbourg, France

1st Action TD1105 International Conference as planned in MoU

..... Details and definitions are in progress



Linköping University
INSTITUTE OF TECHNOLOGY



UNIVERSITY of OULU
OULUN YLIOPISTO

Prof. Anita Lloyd Spetz, Action Vice-Chair
University of Oulu / Finland
and Linköping University / Sweden

- **Title:** Nanomaterials, Sensor-Systems, Measurements and Modeling for Environmental Monitoring and Functional Applications
- **Suggested journal for publication of manuscripts:** Journal of Sensors and Sensor Systems (JSSS)
- **Suggested symposium organizers:**
 - **Michele PENZA**, ENEA, Brindisi, Italy
 - **Anita LLOYD SPETZ**, Linköping Univ/ Univ of Oulu, Sweden/ Fínland
 - **Albert ROMANO-RODRIGUEZ**, University of Barcelona, Spain
 - **Yongxiang LI**, Shanghai Institute of Ceramics - Chinese Academy of Sciences
 - **Meyya MEYYAPPAN**, NASA Ames Research Center, USA

- **Introduction:** ...The urban environment has a profound effect on people's health and well-being...**tools to collect more detailed information on the urban environment**...decisions on personal actions and lifestyle...
- Nanotechnologies ... create a new generation of **nanosensors** for air quality control. **Functional nanomaterials** ...with new sensing properties (detection at ppb-level, high sensitivity), **self-heating** and durable operations for **low powered** ... devices ... for indoor and outdoor air quality monitoring...geo-tagged data ... collected by networked stationary or mobile smart devices... novel **air quality monitoring and mapping techniques** of gas molecules and particulate matter...complementary to the existing official high-cost high-quality air quality monitoring stations...**used by public authorities, scientists or community groups**...
- **Tentative list of plenary and invited speakers** and, if possible, the title of the presentations (The Cost network is large and competent, many possible speakers)
- **Tentative list of scientific committee members:** Professor Giovanni Cuniberti, Technical University Dresden, Germany, g.cuniberti@tu-dresden.de
- **Procedure for selecting the winners of the Graduate Student awards (GSA).** Any experience of this?
- **Tentative budget:** Tentative list of major sponsors (to be solicited), anticipated income, Anticipated Expenditure

- **Hot topics to be covered by the symposium (600 characters):**
 - Advanced gas sensing nanomaterials
 - New (nano)sensors for monitoring gaseous pollutants.
 - New sensors for monitoring fine and ultrafine particles
 - Single-chip devices and portable gas-sensor systems.
 - Modeling of materials, sensors and sensor systems, air quality
 - Computational intelligence for sensor devices and modules
 - Air quality mapping using traditional instruments
 - Protocols and standardization methods for air quality monitoring by gas and particle sensors and systems
- **Other events taking place in 2013 focusing on the same or similar topics**
- **IMCS** (International Meeting on Chemical Sensors) 2014 will take place in Argentina in March. However, the proposed conference session will include more technologies like mapping of environment to produce reference data. Also, new protocols and standardization methods will have a strong focus.
- **Eurosenors** normally takes place in September, same discussion as above.

10. Scientific planning

c. Long-term Planning including anticipated locations and dates of future activities.

c5: STATE-OF-THE-ART on Air Quality Monitoring: Models, Methods, Standards and Technologies, June 2013

Proposal from Action Chair **for STATE-OF-THE-ART on AQC Tech** as described in MoU

10. Scientific planning

d. Dissemination Planning (Publications and outreach activities).

d1: Action website: www.cost.eunetair.it



Action website:

www.cost.eunetair.it

hosted by ENEA

Dr. Marco Alvisi, Webmaster Coordinator

Sebastiano Dipinto, Valerio Pfister, Gianfranco Zingarelli, Webmaster Team

10. Scientific planning

d. Dissemination Planning (Publications and outreach activities).

d2: NEWSLETTER, LEAFLET, BROCHURE



Opening Editorial

Issue 1:

finished and published - Dec. 2012 ✓



Brochure

Leaflet

Release 1:

will be finished and published after MC Meeting - mid of December

10. Scientific planning

d. Dissemination Planning (Publications and outreach activities).

d2: NEWSLETTER, LEAFLET, BROCHURE



Contents

Editorial

Opening Editorial
Foreword by Editor-In-Chief

Focus On

AirMonTech

News

Gender Balance
Sensor, Devices and Systems for AQC
Network of spin-offs
NASA Ames Research Center

FOCUS ON

Advancements & current hot topics in Science & Technology

NEWS

News, comments, opinions, discussions...
...of each Working Group
...of each Special Interest Group

SCIENCE & TECH TALK

Special case of current “science & tech” topics...
News, comments, opinions, discussions...
...of Ad-Hoc Groups (ESR, STSM, GB,...)
...of Action Participants

EVENTS

Reports about past EuNetAir Action events
- like special sessions and STSMs

ANNOUNCEMENTS

Calls of STSM, international conferences, workshops,...
Calendar of upcoming events

Science & Tech Talk

Volatile Organic Compound Indoor Discrimination Sensor

Collaboration within EuNetAir

Dosimeter-type low level NO_x detection

Dioxins Nano-Sensors

Events

Past EuNetAir Events

Announcements

Social ESRs Scientific Network

Short Term Scientific Missions

10. Scientific planning

d. Dissemination Planning (Publications and outreach activities).

d2: NEWSLETTER, LEAFLET, BROCHURE

Next steps of Editorial Board:

April – June 2013: Newsletter - Issue 2

...including **NEWS** of **each** WG, SIG and Ad-Hoc Group

- ⇒ so the Editorial Board needs your **input** and also the input of **all** Action participants
- ⇒ let us know **your ideas** about interesting topics related to the Action EuNetAir
- ⇒ success of **EuNETAir** dissemination depends on your contribution

June 2013: State-of-the-Art in Air Quality Monitoring – Release 1

10. Scientific planning

d. Dissemination Planning (Publications and outreach activities).

d3: INTERNATIONAL INNOVATION, June-July 2013

..... Details and definitions are in progress

EuNetAir Contribution to **2013 International Innovation report**

many sub topics of environment monitoring research, the different areas include: climate and **environmental monitoring and modeling**, access to **research infrastructures and services**, **environmental collaboration** and collaborative policy development related to **pollution**, management, reduction and policy, atmospheric research, **collection and sharing of data for stakeholders and education**, **environmental technologies**, collaboration in addressing environment and climate issues, **modeling interoperability and standards**, decision support tools, policy recommendations, **driving the science**, etc.

- Report will be **distributed to over 30'000 key stakeholders** across all European countries and internationally (USA, Russia, Norway, Switzerland, Turkey etc), **additional 10'000 digital edition readerships** (mainly Africa, Asia and Latin America).
- **Open access** to accelerate the barrier-free dissemination of scientific knowledge.
- **Can be read and distributed at no charge for the reader.**
- Report: **3 page article** with images and graphics dedicated to your project :
 - *1 page joint interview with ACTION Chair and perhaps another 2-3 representatives from the project (10-12 questions describing the historic development, aims of the project, the partners, the different work packages, the developments etc.).*
 - *2 page case study written by the expert editorial team at Research Media covering all aspects of the project, objectives, challenges, stakeholder engagement and format, collaborations, impact and relevance to all the stakeholders receiving the report etc.*

EuNetAir Contribution to **2013 International Innovation report**

- The **deadline** for finalising the article production is the **22nd May 2013**.
- Expected budget of **6-7 hours of time in total** over the coming months to support the development of the report/document.
- The **total cost** for your involvement in this report is fixed at only **€2250 Euros**.
- Digital media: **video and audio dissemination**. able to embed any video/multimedia you may have from the project in your article/report in the online/digital version of the publication which is hosted indefinitely on our dedicated publication website.
- You can supply **up to a 10 minute video** to include in the online version of the publication.
- Entire volume size A4, perfect bound, full colour gloss and approx. 80 pages.

Some suggestions of formats to be developed:

- ✓ *Specific Case Study discussing application of results of theories developed.*
- ✓ *Project Profile*
- ✓ *Overview of the Project white paper*
- ✓ *Interview with work package leader/Key project member/Coordinator*

Additional Services/Deliverables included in the proposal:

- *Complimentary development of dissemination brochure*
- *All partners receive full copyright use of the PDF of your article once it is published*
- *All partners receive physical copies of the report*
- *Coordinator receives 100 copies of the final publication*
- *Full project contact details included in a summary panel at the end of the article*

10. Scientific planning

d. Dissemination Planning (Publications and outreach activities).

d4: DISSEMINATION PLAN

Action events participation so far in 2012

- *Two special EuNetAir sessions* (12 invited speakers contributed) as part of the 14th International Meeting on Chemical Sensors (IMCS), May 20-23, 2012 in Nuremberg, Germany (hosted by Prof. Ralf Moos).
- *Open special session* chaired by Prof. Eduard Llobet and Dr. Michele Penza given to the VIII International Workshop on Semiconductor Gas Sensors (SGS), September 11-15, 2012 in Cracow, Poland.
- *Satellite event* at AIAE 2012, ISQL Workshop, Halkidiki, Greece, September 27-30 Sept. 2012 (hosted by Prof. Kostas Karatzas).
- *Satellite event* at the 4th International Symposium on Transparent Conductive Materials (TCM), held from October 21 to 26, 2012 in Hersonissos, Crete, Greece (hosted by Prof. George Kiriakidis).

10. Scientific planning

d. Dissemination Planning (Publications and outreach activities).

d4: DISSEMINATION PLAN: **Past EuNetAir Events 2012: IMCS-2012**

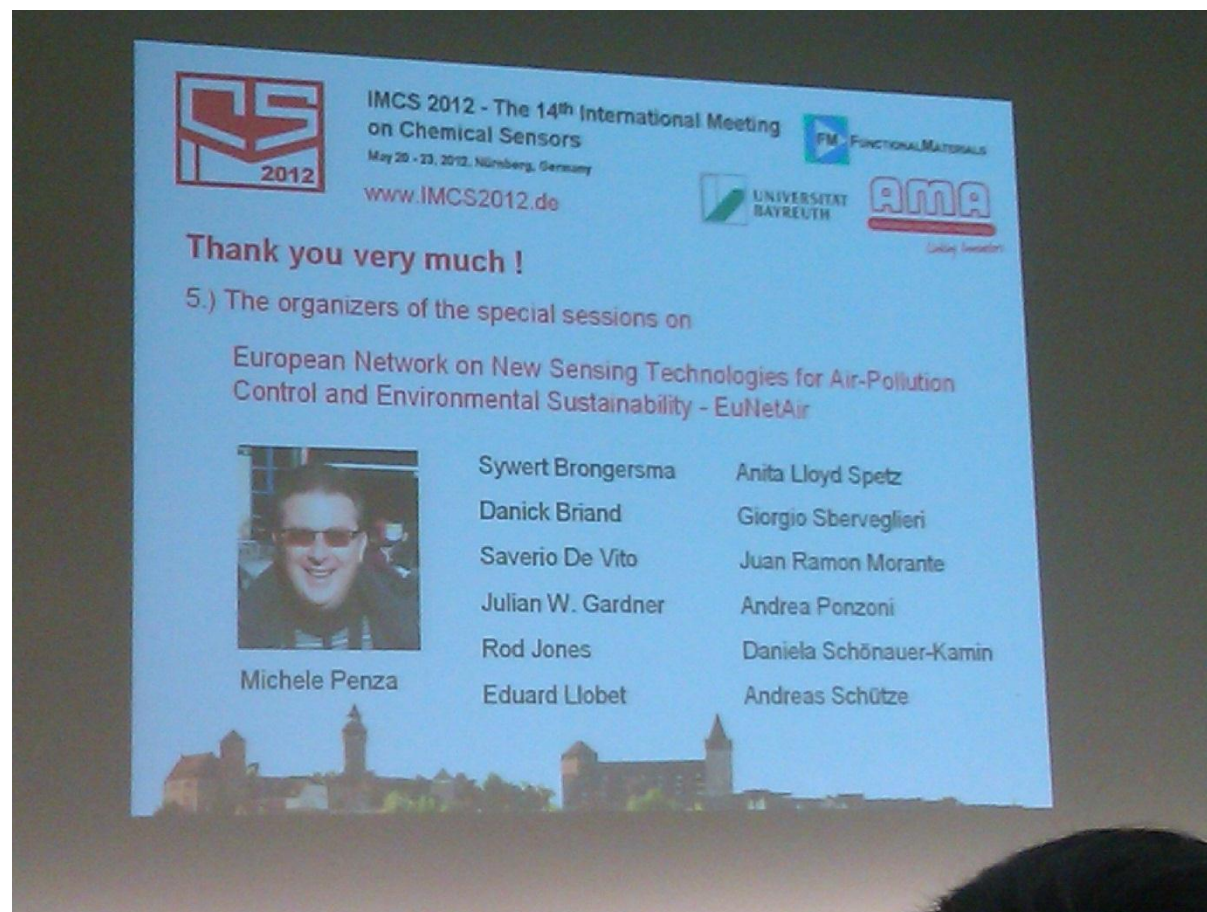
Pictures of the Speakers, Chairs and Organizers for the **Action TD1105 EuNetAir TWO** Special Sessions inside **IMCS-2012 Conference**, Nuremberg, Germany, 20-23 May 2012.



Action Chair



Action Vice-Chair



10. Scientific planning

d. Dissemination Planning (Publications and outreach activities).

d4: DISSEMINATION PLAN: **Past EuNetAir Events 2012: SGS-2012**

Picture of the Speakers, Chairs and Organizers for the **Action TD1105 EuNetAir Special Session inside SGS-2012 Conference, at Cracow, Poland, 14 September 2012.**

From left: Jyrki Lappalainen (OULU University, FI), Monika Kwoka (Silesian University of Technology, PL), Amadou L. Ndiaye (Université Blaise Pascal, CNRS, FR), Tilman Sauerwald (Saarland University, DE), Jerome Brunet (Université Blaise Pascal, CNRS, FR), Radu Ionescu (Universitat Roviri I Virgili, ES), Michele Penza (ENEA, IT), Eduard Llobet (Universitat Roviri I Virgili, ES), Zafer Ziya Ozturk (GEBZE, TR), J. Daniel Prades (University of Barcelona, ES), Jacek Szuber (Silesian University of Technology, PL), Marco Alvisi (ENEA, IT), and Sadullah Ozturk (GEBZE, TR).



10. Scientific planning

d. Dissemination Planning (Publications and outreach activities).

d4: DISSEMINATION PLAN: **Past EuNetAir Events 2012: ISQL-2012**

Picture of the Speakers, Chairs and Organizers for the **Action TD1105 EuNetAir** Tutorial inside **ISQL-2012** Workshop, at Halkidiki, Thessaloniki, Greece on 29 September 2012.

From left. 2 PhD students (Aristotle University of Thessaloniki, EL), Kostas Karatzas (Aristotle University of Thessaloniki, EL), Jan Theunis (VITO, BE), Vera Kurkova (Czech Academy of Sciences, CZ), Michele Penza (ENEA, IT), 1 PhD student (Aristotle University of Thessaloniki, EL), Ingrid Bryntse (SenseAir SA, SE) and Christoph Hueglin (EMPA, CH).



10. Scientific planning

d. Dissemination Planning (Publications and outreach activities).

d4: DISSEMINATION PLAN: **Past EuNetAir Events 2012: TCM-2012**

Picture of the Speakers, Chairs and Organizers for the **Action TD1105 EuNetAir** Open Satellite Workshop inside **TCM-2012** Conference, at Hersonissos, Crete, Greece on 21 October 2012.

From left: Vassilis Binas (IESL/FORTH), George Kiriakidis (IESL/FORTH, EL), John Saffell (Alphasense, UK), Andrea Goldoni (ELETTRA, IT), Juan Ramon Morante (IREC, ES), Michele Penza (ENEA, IT), Cristina Rusti (IMNR, RO), and Albert Romano-Rodriguez (University of Barcelona, ES).



d. Dissemination Planning (Publications and outreach activities).

d4: DISSEMINATION PLAN

Action events participation so far in 2012

EuNetAir Contribution	Event	Date
<i>Two special sessions (hosted by Prof. Ralf Moos)</i>	<i>14th International Meeting on Chemical Sensors (IMCS)</i>	<i>May 20-23, 2012 Nuremberg, Germany</i>
<i>Open special session</i>	<i>VIII International Workshop on Semiconductor Gas Sensors (SGS)</i>	<i>September 11-15, 2012 Cracow, Poland</i>
<i>Satellite event</i>	<i>AIAE 2012</i>	<i>Sep 20-25, 2012 Greece</i>
<i>Satellite event</i>	<i>4th Internat. Symposium (TCM) on Transparent Conductive Materials</i>	<i>October 21-26, 2012 Hersonissos, Greece</i>

Action outreach activities so far in 2012

- *ACTION Website*
- *EuNetAir Newsletter - Issue 1 / December 2012*
- *Launched a call for tender for Short-Term Scientific Missions (STSM)*

Suggested events – 2013

EuNetAir Contribution	Event	Date
Attendance, ?	<i>Air Quality Monitoring, “Opening opportunities through new technologies and data analysis”</i>	December 12-13, 2012 - London, UK
Att., ?	<i>IEEE International Solid-State Circuits Conference</i>	February 17-21, 2013 - San Francisco, US
in conjunction with EuNetAir	<i>3rd AirMonTech Workshop on “Air Quality Monitoring Technologies for Urban Areas”</i>	March 4-5, 2013 - Duisburg, Germany
Att., ?	<i>AQE 2013, The Air Quality Show; Conference, Exhibition</i>	March 13-14, 2013 - Telford, UK
Att., ?	<i>Pittcon, with Session on Environmental Analysis</i>	March 17-21, 2013 - Philadelphia, US
Att., ?	<i>Sensor und Test - The Measurement Fair and Sensor Conference.</i>	May 14-16, 2013 - Nuremberg, Germany
Att., ?	<i>Final AirMonTech Conference</i>	May 16, 2013 - Brussels
Att., ?	<i>E-MRS 2013 SPRING MEETING, Technical sessions</i> <i>Deadline for abstract submission: January 16, 2013</i>	May 28-30, 2013 - Strasbourg, France
1 st Int. Works., 3 rd MCM	<i>Transducers 2013 and Eurosensors XXVII</i>	June 16-20, 2013 - Barcelona, Spain
Att., ?	<i>Conference of ISEE, ISES and ISIAQ</i>	August 20-23, 2013 - Basel, Switzerland
Att., ?	<i>16th IUAPPA World Clean Air Congress</i>	29Sep - 4Oct , 2013 - Cape Town, S.Africa
Att., ?	<i>International Semiconductor Conference CAS 2013</i>	October 2013 - Romania

Action outreach activities for 2013

- *Position paper, EuNetAir Contribution to 2013 International Innovation report*
- *EuNetAir Newsletters (Issue 2 / June 2013, Issue 3 / December 2013)*
- *1st Training / Summer School*
- *1st International Workshop of EuNetAir COST Action*

Other potential events of interest – 2013

- *2013 IEEE Sensors Applications Symposium (SAS), 19-21 February 2013, TX, USA <http://sensorapps.org/>*
- *ICNSC 2013 : IEEE 10th International Conference on Networking, Sensing and Control, 10-12 April 2013, Evry, France, <http://www.icnsc2013.org/>*
- *CEST2013, 13th International Conference on Environmental Science and Technology, 5-7 September 2013, Athens, Greece, <http://cest2013.gnest.org/>*
- *IEEE Sensors 2013 Conference - 3-6 November 2013, Baltimore, MD, United States*

Suggested events – 2014

- *EUROSENSORS 2014 (Brescia)*
- *E-MRS 2014 (STRASBOURG). EuNetAir Proposal for Symposium (Deadline 15 Dec 2012)*

10. Scientific planning

d. Dissemination Planning (Publications and outreach activities).

D5.1: INTERVIEW Action Chair with Dr. Meyya Meyyappan, NASA Ames Research Center, CA, USA

- **INTERVIEW on Nanotechnologies and nanosensors for Air quality monitoring has been recorded and will be uploaded in Action website (www.cost.eunetair.it) very soon !**



10. Scientific planning

d. Dissemination Planning (Publications and outreach activities).

D5.2: INTERVIEW of Action Chair, Dr. Meyya Meyyappan, NASA Ames Research Center, CA, USA, and Dr. Hans-Guido Mucke, WHO Europe, Berlin, Germany

- **INTERVIEW on NEWS of Action Meeting to ENEA Web-TV**

<http://www.enea.it/it>

<http://www.youtube.com/eneanews>

<https://www.facebook.com/pages/ENEA-WebTV/107480772614976>

<https://twitter.com/ENEAWebTV>



10. Scientific planning

d. Dissemination Planning (Publications and outreach activities).

d6: POSITION PAPER OF ACTION TD1105 TOWARDS HORIZON

POSITION PAPER should involve Steering Committee, Editorial Board, WGs and SIGs Leaders and All Action Participants.

11. Requests for new members

List of New WGs Members (1/3)

13 NEW AFFILIATIONS - COST ACTION TD1105 EUNETAIR ON MCM in Rome, 4-6 Dec. 2012

NAME	ORGANIZATION	COUNTRY	EXPERTISE / KEYWORDS	WG INTERESTED	E-MAIL
Tambouratzis Tatiana	Department of Industrial Management & Technology, University of Piraeus & Department of Nuclear Engineering, Chalmers University of Technology	GREECE	Artificial and computational intelligence, signal analysis and system simulation, safety in (energy) systems	WG2, WG3	tatianatambouratzis@gmail.com, tatiana@unipi.gr
Lee John	School of Informatics, University of Edinburgh	UNITED KINGDOM	Proposing, designing/ developing, testing and evaluating low cost sensor systems>; indoor air quality	WG3	J.Lee@ed.ac.uk
João Paulo Teixeira	Environmental Health Department National Institute of Health	PORTUGAL	Indoor Air Quality (IAQ), impact of IAQ in human health	WG3, WG4	jpft12@gmail.com
Jost Valentin Lavric	Max-Planck-Institute for Biogeochemistry	GERMANY	Design and integration of high-precision analytical set-ups, knowledge of various greenhouse and other gas measurement techniques, operation and maintenance of facilities for molecular compound analysis, IRMS and associated periphery	WG3	jlavric@bgc-jena.mpg.de
Burkhard Wrenger	University of Applied Sciences Ostwestfalen-Lippe	GERMANY	Development and application of Unmanned Aerial Systems (UAS) for environmental monitoring (atmospheric boundary layer meteorology and air chemistry), urban area investigations, development and integration of sensor systems for UAS	WG2, WG3	burkhard.wrenger@hs-owl.de

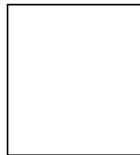
11. Requests for new members

List of New WGs Members (2/3)

Carlos Borrego	Institute for Environment and Development, University of Aveiro	PORTUGAL	Air quality models, air quality monitoring, indoor environmental quality, sustainability assessment of built environments	WG3, WG4	cborrego@ua.pt
Miguel Coutinho	University of Aveiro	PORTUGAL	Atmospheric pollution and mesoscale meteorological modeling	WG3	mcoutinho@ua.pt
Rossignol Jérôme	Laboratoire interdisciplinaire Carnot de Bourgogne Département Nanosciences-GERM	FRANCE	Gas sensing, new transduction method, microwave transduction, pollutant detection in liquid and gas, damage detection in composite material, scanning microwave microscopy	WG1, WG2, WG4	jerome.rossignol@u-bourgogne.fr
Zdenek Zelinger	Academy of Sciences of the Czech Republic J. Heyrovsky institute of Physical Chemistry	CZECH REPUBLIC	Spectroscopic studies and laser analytics	WG3	zelinger@jh-inst.cas.cz
Philippe Karpe	ETHERA	FRANCE	Chemical nanoporous chemical sensors to measure and eliminate indoor air pollutant; innovative methods for determination of formaldehyde in indoor air	WG3, WG4	info@ethera-labs.com
Thu-Hoa Tran-Thi	CEA-Saclay, SPAM	FRANCE	Nanomaterial sensors	WG1, WG2	thu-hoa.tran-thi@cea.fr
Cristina Maguas	University of Lisbon, Environmental Biology	PORTUGAL	Fingerprint of multisource atmospheric pollution; spatial modeling of PAHs in lichens	WG3	cmhanson@fc.ul.pt
Nadine Locoge	Ecole des Mines de Douai Dpt Chimie-Environnement	FRANCE	VOC and odours chemical analyses (outdoor/indoor). New innovative organic electronic gas sensors. Continuous monitoring of air quality in real-world environmental conditions by multi-sensors system. Indoor Air Quality.	WG1, WG2, WG3	nadine.locoge@mines-douai.fr

11. Requests for new members

List of New WGs Members (3/3)



COST Action TD1105 Affiliation/Information Form

Photo is optional.

COST Action TD1105 Information Form for New Action Participants and New Working Group Members

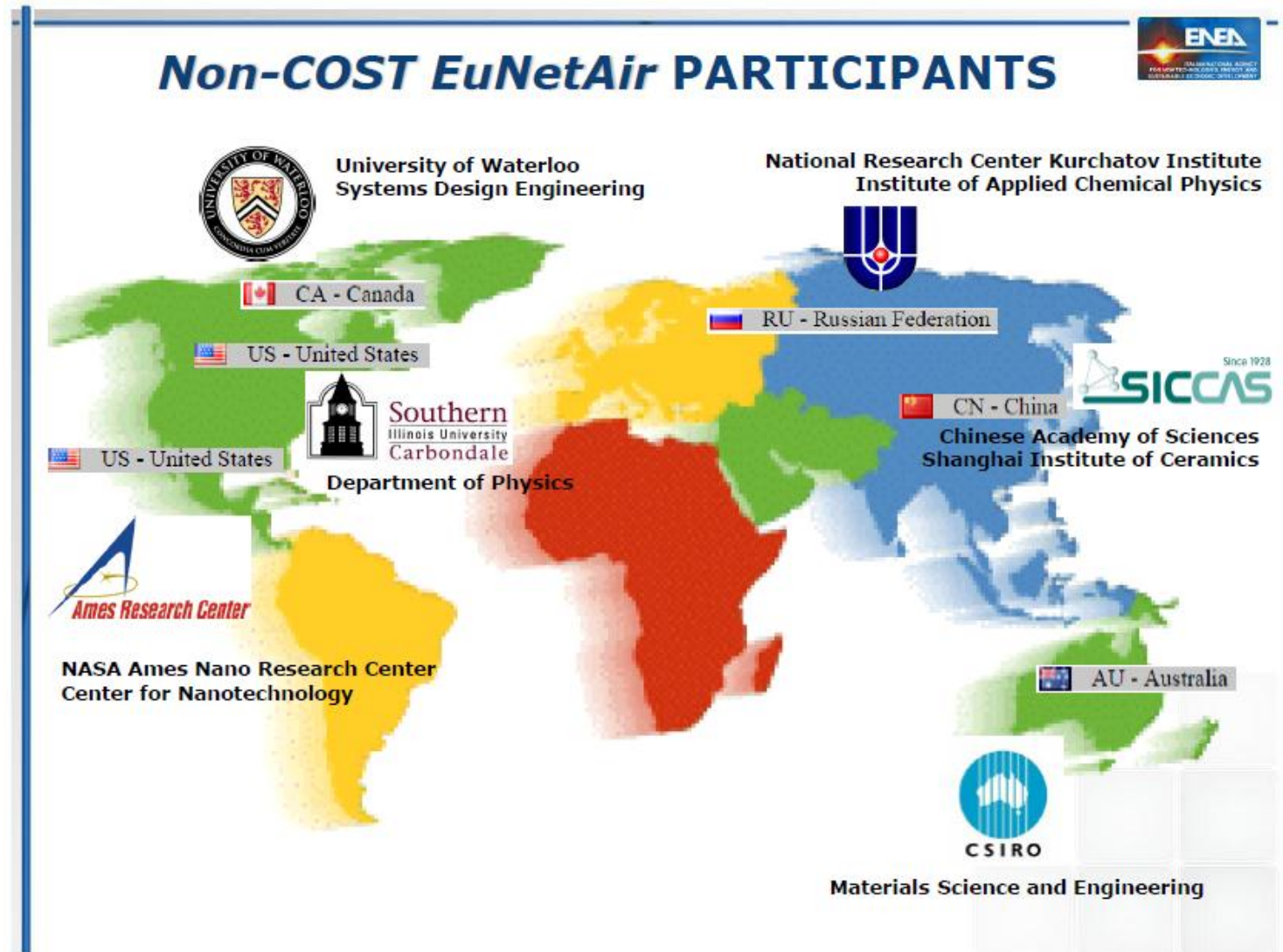
Personal Details	
1. Surname	
2. First name(s)	
3. Email	
4. Institute/company	
5. Address	
6. Postal address	
7. Telephone	
8. Fax	
9. Mobile	
Background related to the COST Action (research activities, institute/company background in relation to COST Action, etc)	
(Max 10 lines)	
Personal Activities related to the COST Action	
(Max 10 lines)	
Planned contribution to the COST Action	
(Max 10 lines)	
Involved member of:	
MC	<input type="checkbox"/>
CG	<input type="checkbox"/>
SC	<input type="checkbox"/>
WG 1	<input type="checkbox"/>
WG 2	<input type="checkbox"/>
WG 3	<input type="checkbox"/>
WG 4	<input type="checkbox"/>
SIG 1	<input type="checkbox"/>
SIG 2	<input type="checkbox"/>
SIG 3	<input type="checkbox"/>
SIG 4	<input type="checkbox"/>
OTHER	<input type="checkbox"/>
Remarks	
(Max 10 lines)	

Application Form filled by New Members asked by email and replied filled.

Please, New WG Member and/or Action Participant should provide own CV (max 1 page)

12. Non-COST applications to the Action

List of Non-COST Members and New NCM ??



13. AOB of the Action - List of AOB

- **ERC Calls 2013:**
 - **Synergy Grant, deadline 10 January 2013**
 - **Consolidator Grant, deadline 21 January 2013**
- **Spin-offs activities** from *Action TD1105*: **at least 4 FP7 NMP research proposals** have been submitted for funding on October 2013 at the first-stage level. Results of Application are expected on December 2012 or January 2013 !

13. AOB of the Action - List of AOB

- **Joint-Publications** should be encouraged more. **Some examples:**
 - **BOOKS**
 - *M. Penza, P. Martin, J. Yeow, Gas Sensing Fundamentals*, Book Chapter: *Carbon Nanotube Gas Sensors*, edited by Springer, 2012.
 - *M. Penza, Anita Lloyd Spetz, Jing Li, Meyya Meyyappan, Juan Ramon Morante, Nanomaterials for Environmental Protection*, Book Chapter: *Nanomaterial-Enabled Sensors for Air Quality Control*, J. Wiley & Sons 2013 (planned).
 - **PAPERS**
 - A. Lloyd Spetz, A. Schuetze, et al, *Sensors and Actuators B* 2012. doi: 10.1016/j.snb.2012.10.078
- **Other JOINT-PUBLICATIONS are HIGHLY welcomed !**

14. Location and date of next MC Meeting



Institut de Recerca en Energies de Catalunya
Catalonia Institute for Energy Research

Jardins de les Dones de Negre, 1, 2a pl.
08930 Sant Adrià de Besòs, Barcelona (Spain)
T. +34 933 562 615

3rd MC Meeting, 21 June 2013, Barcelona, Spain, organized by IREC

- Letter of Commitment

Barcelona November 19, 2012

to host 3rd MC Meeting
from Prof. Juan Ramon
Morante, IREC

Action WG1 Leader and
Chair of **Transducers &
Eurosensors 2013**

COST Action TD1105 Eu Net Air

Dr. Michele Penza

ENEA

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

PO BOX 51 Br-4 (Postal correspondence)

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

I-72100 Brindisi, Italy

Phone: +39 0831 201422

Fax: +39 0831 201423

E-mail: michele.penza@enea.it

Dear Chair of the Cost Action TD1105:

It is a pleasure for me to communicate that the local committee of the next Transducers&Eurosensors to be held in Barcelona the next June 2013, agrees in accommodate the next Management Technical Committee in Barcelona taking advantage that many of the members will be attending to this international event facilitating synergy between EuNetAir Costg action members and this significant international forum on sensors and their applications.

Do not hesitate to contact with me for any question. Technical details about this accommodation will be discussed and people from my team will contact you about it shortly.

Best regards

J.R.Morante

The 17th International Conference
on Solid-State Sensors,
Actuators and Microsystems



June 16-20, 2013, Barcelona, Spain



EUROPEAN COOPERATION IN SCIENCE AND TECHNOLOGY

Chair Transducers&Eurosensors

Head of the Advanced Materials for Energy. IREC

Professor, Faculty of Physics, University of Barcelona

15. Summary of MC decisions 2nd MC Meeting, 6 Dec. 2012, Rome, Italy

DESCRIPTION OF DECISIONS DISCUSSED BY ACTION TD1105 MC	APPROVED
MC2D0. Approval of Amendments to Workshops Budget	YES
MC2D1. 4 STSMs of 5 days and 2 STSMs of 1 month (30 days)	YES
MC2D2. WG3-WG4 Meeting , Duisburg, 5-6 March 2013 (joined AirMontech)	YES
MC2D3. 1st Action Workshop jointly Transducers-Euroensors, 20 June 2013, Barcelona, Spain	PENDING
MC2D4. 1st Training School before Transducers-Euroensors, 14-16 June 2013, Barcelona, Spain	YES
MC2D5. EMRS-2014 , May-June 2014, Strasbourg, France - 1st Action TD1105 International Conference as planned in MoU	YES
MC2D6. STATE-OF-THE-ART on Air Quality Monitoring: Models, Methods, Standards and Technologies, June 2013. To be REVISED STYLE AND FORMAT.	YES
MC2D7. NEWSLETTER - Issue 2 on April-June 2013	YES
MC2D8. Action TD1105 Outreach in INTERNATIONAL INNOVATION , May-July 2013	NO
MC2D9. POSITION PAPER OF ACTION TD1105 TOWARDS HORIZON 2020	NO
MC2D10. 3rd MC Meeting , 21 June 2013, Barcelona, organized by IREC	YES
MC2D11. DISSEMINATION ACTIVITIES	YES
MC2D12. AOB	YES

16. Closing

2nd MC Meeting, 6 December 2012, Rome, Italy, organized by ENEA

WELCOME from Chair addressing the 2nd MC Meeting, Rome.

SEE YOU IN BARCELONA, 20-21 June 2013

3RD ACTION MC MEETING AT IREC

BARCELONA, 21 JUNE 2013