



Action TD1105
Earth System Science and
Environmental Management

COST Grant System
17 July 2012

Action TD1105 Fact Sheet

Title

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

Contacts

MC Chair

Dr Michele PENZA
Tel. +39 0831 201422
Fax. +39 0831 201423
michele.penza@enea.it

Science Officer:

Dr Basak KISAKUREK
COST Office
Basak.Kisakurek@cost.eu
+32 2 5333831

Administrative Officer:

Chandrasa SJAMSUDIN
COST Office
chandrasa.sjamsudin@cost.eu
+32 2 533 38 41

Details

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Start of Action: 16/05/2012

Entry into force: 09/01/2012

End of Action: 15/05/2016

CSO approval date: 01/12/2011

Objectives

This Action will focus on a new detection paradigm based on sensing technologies at low cost for Air Quality Control (AQC) and set up an interdisciplinary top-level coordinated network to define innovative approaches in sensor nanomaterials, gas sensors and devices, wireless sensor-systems, distributed computing, methods, models, standards and protocols for environmental sustainability within the European Research Area (ERA). The state-of-the-art showed that research on innovative sensing technologies for AQC based on advanced chemical sensors and sensor-systems at low-cost, including functional materials and nanotechnologies for eco-sustainability applications, the outdoor/indoor environment control, olfactometry, air-quality modelling, chemical weather forecasting, and related standardisation methods is performed already at the international level, but still needs serious efforts for coordination to boost new sensing paradigms for research and innovation. Only a close multidisciplinary cooperation will ensure cleaner air in Europe and reduced negative effects on human health for future generations in smart cities, efficient management of green buildings at low CO₂ emissions, and sustainable economic development. The objective of the Action is to create a cooperative network to explore new sensing technologies for low-cost air-pollution control through field studies and laboratory experiments to transfer the results into preventive real-time control practises and global sustainability for monitoring climate changes and outdoor/indoor energy efficiency. Establishment of such a European network, involving Non-COST key-experts, will enable EU to develop world capabilities in urban sensor technology based on cost-effective nanomaterials and contribute to form a critical mass of researchers suitable for cooperation in science and technology, including training and education, to coordinate outstanding R&D and promote innovation towards industry, and support policy-makers.



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Parties							
Country	Date	Country	Date	Country	Date	Country	Date
Belgium	19/01/2012	Bulgaria	23/03/2012	Denmark	19/01/2012	Finland	10/04/2012
France	10/02/2012	Germany	17/01/2012	Greece	14/02/2012	Hungary	06/01/2012
Iceland	11/01/2012	Italy	09/01/2012	Latvia	23/01/2012	Netherlands	17/01/2012
Norway	31/01/2012	Poland	09/03/2012	Portugal	04/07/2012	Romania	28/02/2012
Slovenia	05/01/2012	Spain	03/01/2012	Sweden	16/01/2012	Switzerland	24/01/2012
Turkey	05/04/2012	United Kingdom	19/12/2011				

Total: 22

Intentions to accept the MoU							
Country	Date	Country	Date	Country	Date	Country	Date

Total: 0

Working Groups
None

Website
None

Management Committee	
Chair Dr Michele PENZA ENEA Technical Unit Brindisi Technologies for Materials, SS.7, Appia, km 706 I-72100 Brindisi Italy michele.penza@enea.it	Vice Chair Prof. Anita LLOYD SPETZ Dept of Physics, Chemistry and Biology, Linkping University Linkping University SE 581 83 Linkping Sweden spetz@ifm.liu.se
Domain Committee Rapporteurs	
Prof. Joaquim Manuel VIEIRA DC Rapporteur of TD1105 MPNS Department of Ceramic and Glass Engineering University of Aveiro Campus de Santiago 3810-193 Aveiro Portugal jvieira@cv.ua.pt	Prof. Antonio LAGANA DC Rapporteur of TD1105 CMST Computational Dynamics and Kinetics, Department of Chemistry, Faculty of MM FF NN Sciences, University of Perugia Via Elce di sotto 8 06123 Perugia Italy lagana05@gmail.com
Prof. Konstantinos KOURTIDIS DC Rapporteur of TD1105 ESSEM Demokritos University of Thrace Dept. of Environmental Engineering, School of Engineering, 12 Vas. Sofias str. 67100 Xanthi Greece kourtidi@env.duth.gr	

Belgium	
Mr Jan THEUNIS MC Member VITO Flemish Institute for Technological Research Boeretang 200 B-2400 Mol Belgium jan.theunis@vito.be	Dr Anne-Claude ROMAIN MC Member ULg, Campus Arlon avenue de longwy 185 6700 Arlon Belgium acromain@ulg.ac.be
Mr Julien DELVA MC Substitute Member Odometric 185 avenue de longwy 6700 Arlon Belgium julien.delva@odometric.be	



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Bulgaria	
<p>Prof. Dimiter SYRAKOV MC Member National Institute of Meteorology and Hydrology 66, Tzarigradsko shose Bulvd. 1784 Sofia Bulgaria dimiter.syrakov@meteo.bg</p>	<p>Prof. Ivan NEDKOV MC Member Institute of Electronics, Bulgarian Academy of Sciences 72, Blvd. Tzarigradsko Chaussee 1784 Sofia Bulgaria nedkov@ie.bas.bg</p>

Denmark	
<p>Prof. Ole HERTEL MC Member Department of Environmental Science, Aarhus University Frederiksborgvej 399 4000 Roskilde Denmark Ole.Hertel@dmu.dk</p>	<p>Dr Lise Lotte SORENSEN MC Substitute Member (not yet registered) lls@dmu.dk PENDING</p>

Finland	
<p>Prof. Kaarle HAMERI MC Member kaarle.hameri@helsinki.fi</p>	<p>Prof. Jyrki LAPPALAINEN MC Member University of Oulu Erkki Koiso-Kanttilankatu 3, Tietotalo 1, Linnanmaa FIN-90570 Oulu Finland jyla@ee.oulu.fi</p>
<p>Prof. Jorma KESKINEN MC Substitute Member jorma.keskinen@tut.fi</p>	

France	
<p>Prof. Marcel BOUVET MC Member University of Burgundy ICMUB, 9, avenue Alain Savary 21078 Dijon cedex France marcel.bouvet@u-bourgogne.fr</p>	<p>Dr Jerome BRUNET MC Member Institut Pascal - Universit Blaise Pascal Universit Blaise Pascal/CNRS/IFMA, 24 Avenue des Landais 63171 AUBIERE France brunet@lasmea.univ-bpclermont.fr</p>
<p>Dr Jean SUISSE MC Substitute Member Universit de Bourgogne ICMUB Institut de Chimie Molculaire de l'Universit de Bourgogne, 9, avenue A. Savary 21078 DIJON France Jean.Suisse@u-bourgogne.fr</p>	<p>Prof. Alain PAULY MC Substitute Member Universit BLAISE PASCAL Institut Pascal, 24 Avenue des Landais, Campus des Czeaux 63177 AUBIERE France pauly@lasmea.univ-bpclermont.fr</p>

Germany	
<p>Prof. Andreas SCHUETZE MC Member Saarland University Lab for Measurement Technology, Campus Building A5 1 66123 Saarbruecken Germany schuetze@imt.uni-saarland.de</p>	<p>Mr Thorsten CONRAD MC Member 3S GmbH Fuchstaelchen 2 D-66123 Saarbruecken Germany conrad@3s-ing.de</p>
<p>Ms Daniela SCHONAUER-KAMIN MC Substitute Member University of Bayreuth, Functional Materials Univesittstrae 30 95447 Bayreuth Germany Daniela.Schoenauer-Kamin@Uni-Bayreuth.de</p>	<p>Dr Thomas KUHNBUSCH MC Substitute Member IUTA e.V. Airborne Particles / Air Quality Bliersheimer Strase 60 47229 Duisburg Germany tky@iuta.de</p>



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Greece	
<p>Prof. Konstantinos KARATZAS MC Member Informatics Systems and Applications Group, Faculty of Engineering, Aristotle University Egnatia Str., Box 483 54124 Thessaloniki Greece kkara@eng.auth.gr</p>	<p>Prof. George PAPAPOPOULOS MC Member Industrial Systems Institute, ATHENA/ISI Patras Science Park 26504 Rion Greece papadopoulos@ece.upatras.gr</p>
<p>Prof. George KIRIAKIDIS MC Substitute Member FORTH 100,N. Plastira str, Voutes, 70013 Heraklion Greece kiriakid@iesl.forth.gr</p>	

Hungary	
<p>Ms Krisztina LABANCZ MC Member Hungarian Meteorological Service P.O.BOX 39. 1675 Budapest Hungary labancz.k@met.hu</p>	<p>Dr Zita FERENCZI MC Member Hungarian Meteorological Service Division for Analysis of Atmospheric Environment N/A - Please update this record, P.O.BOX 39. 1675 Budapest Hungary ferenczi.z@met.hu</p>

Iceland	
<p>Dr Arngrimur THORLACIUS MC Member Agricultural University of Iceland Hvanneyri 311 Borgarnes Iceland arngrimur@lbhi.is</p>	

Italy	
<p>Prof. Giorgio SBERVEGLIERI MC Member University of Brescia Via Valotti,9 25133 Brescia Italy giorgio.sberveglieri@ing.unibs.it</p>	<p>Dr Gianluigi DE GENNARO MC Member University of Bari via Orabona, 4 70125 Bari Italy giangi@chimica.uniba.it</p>
<p>Mr Roberto SIMMARANO MC Substitute Member Sensichips srl Via delle Valli 46 04011 Aprilia (RM) Italy roberto.simmarano@sensichips.com</p>	<p>Dr Marco ALVISI MC Substitute Member ENEA - Italian National Agency for New Technology, Energy and Sustainable Development ss 7 Appia km 712, c/o Cittadella della Ricerca 72100 Brindisi Italy marco.alvisi@enea.it</p>

Latvia	
<p>Dr Iveta STEINBERGA MC Member University of Latvia Alberta street 10 LV1010 Riga Latvia iveta.steinberga@lu.lv</p>	

Netherlands	
<p>Dr Sywert BRONGERSMA MC Member Holst Centre/imec High Tech Campus 31 5656AE Eindhoven Netherlands brongers@imec-nl.nl</p>	<p>Dr Ernie WEIJERS MC Member weijers@ecn.nl</p>



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Norway	
<p>Dr Philipp SCHNEIDER</p> <p>MC Member NILU - Norwegian Institute for Air Research Instituttveien 18 2027 Kjeller Norway ps@nilu.no</p>	<p>Dr Nuria CASTELL-BALAGUER</p> <p>MC Member NILU-Norwegian Institute for Air Research Instituttveien 18 2007 Kjeller Norway ncb@nilu.no</p>

Poland	
<p>Dr Monika KWOKA</p> <p>MC Member Silesian University of Technology Akademicka 2A 44-100 Gliwice Poland Monika.Kwoka@polsl.pl</p>	<p>Prof. Stanislaw GAWRONSKI</p> <p>MC Member (not yet registered) stanislaw_gawronski@sggw.pl PENDING</p>
<p>Prof. Jacek SZUBER</p> <p>MC Substitute Member Silesian University of Technology, Institute of Electronics Akademicka 16 44-100 Gliwice Poland Jacek.Szuber@polsl.pl</p>	

Portugal	
<p>Prof. Bernardete RIBEIRO</p> <p>MC Member University of Coimbra Department of Informatics Engineering, Faculty of Sciences and Technology, R Silvio Lima, Polo II 3030-290 Coimbra Portugal bribeiro@dei.uc.pt</p>	

Romania	
<p>Mr Marcel IONICA</p> <p>MC Member SC IPA SA- RESEARCH DEVELOPMENT, ENGINEERING AND MANUFACTURING FOR AUTOMATION EQUIPMENT AND SYSTEMS Calea Floreasca 169, Corp P1, et. 4, cam. 1, sect. 1, Bucuresti,Romania, 014459 Bucharest Romania marcel.ionica@ipacv.ro</p>	<p>Dr Roxana Mioara PITICESCU</p> <p>MC Member National R&D Institute for Nonferrous and Rare Metals 102 Biruintei Blvd. Pantelimon, judetul Ilfov, PC 077145 Romania roxana@imnr.ro</p>
<p>Ms Cristina RUSTI</p> <p>MC Substitute Member National R&D Institute for Non-Ferrous and Rare Metals 102 Biruintei blvd. Pantelimon, Ilfov, Romania 077145 Pantelimon Romania crusti@imnr.ro</p>	<p>Mr Radu Adrian IONICA</p> <p>MC Substitute Member SC IPA SA-Research development , engineering and manufacturing for automation equipment and systems Bucuresti,Calea Floreasca Street No.169, Corp P1, et.4, cam 1, Sector 1 014459 Bucharest Romania raduadrian20@yahoo.com</p>

Slovenia	
<p>Dr Grisa MOCNIK</p> <p>MC Member Aerosol d.o.o. Kamniska 41 SI-1000 Ljubljana Slovenia Grisa.Mocnik@aerosol.si</p>	<p>Dr Rahela ZABKAR</p> <p>MC Member University of Ljubljana, Faculty of Mathematics and Physics Jadranska 19, Ljubljana 1000 Ljubljana Slovenia rahela.zabkar@fmf.uni-lj.si</p>
<p>Prof. Andrej DOBNIKAR</p> <p>MC Substitute Member University of Ljubljana, Faculty of Computer and Information Science Traka 25 1000 Ljubljana Slovenia andrej.dobnikar@fri.uni-lj.si</p>	



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Spain	
<p>Prof. Juan Ramon MORANTE MC Member Fundacio Institut de Recerca en Energia de Catalunya, IREC Jardins de les dones de negre, 1, junction C/Llull and C/Sant Ramon de Penyafort 08930 Sant Adri del Bess Spain jrmorante@irec.cat</p>	<p>Prof. Eduard LLOBET VALERO MC Member University Rovira i Virgili Avda Paisos Catalans, 26 43007 Tarragona Spain eduard.llobet@urv.cat</p>
<p>Prof. Albert ROMANO-RODRIGUEZ MC Substitute Member Universitat de Barcelona MIND-IN2UB-Departament dElectrnica, Mart i Franqus, 1 08028 Barcelona Spain aromano@el.ub.es</p>	<p>Mr Jordi LLOSA MC Substitute Member jllosa@worldsensing.com</p>
Sweden	
<p>Prof. Anita LLOYD SPETZ MC Member Dept of Physics, Chemistry and Biology, Linkping University Linkping University SE 581 83 Linkping Sweden spetz@ifm.liu.se</p>	<p>Prof. Ingrid BRYNTSE MC Member ingrid.bryntse@senseair.com</p>
<p>Mr Ulf THOLE MC Substitute Member ulf.thole@sensic.se</p>	<p>Dr Marina VOINOVA MC Substitute Member (not yet registered) marina.voinova@chalmers.se PENDING</p>
Switzerland	
<p>Dr Danick BRIAND MC Member Ecole Polytechnique Fdrale de Lausanne Rue Jaquet-Droz, 1, P.O. Box 526 CH-2002 Neuchtel Switzerland danick.briand@epfl.ch</p>	<p>Mr Nicolas MOSER MC Member nmoser@microchemical.com</p>
<p>Dr Christoph HUEGLIN MC Substitute Member Empa Swiss Federal Laboratories for Materials Science and Technology, Laboratory for Air Pollution and Environmental Technology 8600 Duebendorf Switzerland christoph.hueglin@empa.ch</p>	
Turkey	
<p>Prof. Zafer Ziya OZTURK MC Member GEBZE INSTITUTE OF TECHNOLOGY FACULTY OF SCIENCE DEPT OF PHYSICS, CAYIROVA CAMPUS L BLOK 213, CAYIROVA GEBZE 41400 KOCAELI Turkey zozturk@gyte.edu.tr</p>	



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United Kingdom	
<p>Dr John SAFFELL MC Member Alphasense Ltd. 300 Avenue West, Skyline 120 CM77 7AA CM77 7AA United Kingdom jrs@alphasense.com</p>	<p>Prof. Roderic JONES MC Member University of Cambridge Dept of Chemistry, Lensfield Road, Cambridge CB2 1EW Cambridge United Kingdom rlj1001@cam.ac.uk</p>
<p>Prof. Julian GARDNER MC Substitute Member Warwick University School of Engineering, Gibbet Hill Road, Coventry CV4 7AL Coventry United Kingdom J.W.Gardner@warwick.ac.uk</p>	<p>Dr Robin NORTH MC Substitute Member Imperial College London Centre for Transport Studies, Skempton Building SW72BU South Kensington United Kingdom robin.north@imperial.ac.uk</p>
<p>Prof. Florin UDREA MC Substitute Member florin.udrea@ccmoss.com</p>	

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