

.European Network on New Sensing Technologies for Air Pollution Control and Environmental Sustainability - *EuNetAir*  
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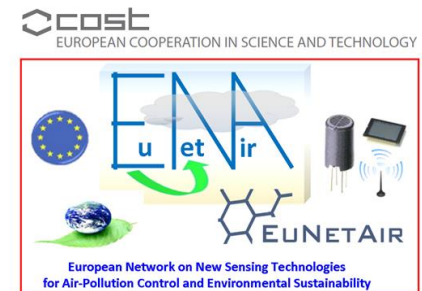
## The Role of Project Technical Advisers (PTAs) in EU Projects and Clusters

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Round Table  
Discussion on  
EC Policy of the  
EU Clusters



# .PTAs in EU Projects

## .Background:

since FP5 scientific-technical support of NMP Project Officers (POs) by Project Technical Assistants (PTAs), in FP7 called Project Technical Advisers, NMBP POs became Program Managers;

## .PTA Selection and Duties:

FP6: NMP call for tenders, personal application for specific topics, contract with COM; FP7 NMP call for tenders of consortia e. g. for “Nanotechnology”, contract with agencies; proof of at least 5 years of professional experience of the core PTA team members..., confidentiality undertaking...conflict of interests...; **tasks:**

1) Review reports and deliverables; 2) Keep regular contacts, attend meetings – feed back to the PO; 3) Intervene in case of problems; 4) Coordinate with similar projects. Horizon 2020: expert reviewers contracted through Expert Management Module (EMM);

# Challenges and Highlights in my Projects

- FP6 STREP **PhotoNanoTech**: “Photozyme Nanoparticle Application for... Textile Finishing, Biomaterials Coating...”, 2007-2010, PO Heico Frima, contract with COM; challenge: 13 partners, insolvencies of two SMEs...;
- FP7 EU-Russia sensor projects: **INgENiOuS**: “...optical sensors” for PAH, BTX; **SAWHOT**: LGS; **S3**: “...nano-MOX gas sensors...toxic and explosive agents”; 2009-2011, PO Hans-Hartmann Pedersen; agency MindPulse; challenge: different regulations, funding periods etc.; highlights: common summer schools, workshops at EUROSENSORS 2011 in Athens and at SENSOR&TEST 2012 in Nuremberg; PhD agreement (Brescia Univ. and Moscow State Univ. (MSU));
- FP7 EU-Russia multiscale multi-physics modelling projects: **COMPANOCOMP**, **IM3OLED** and **ViNaT**, 2011-2014, PO H-H P; agency MindPulse; highlights: symposium at FEMS EUROMAT 2013 in Seville; several PhD agreements (TU Eindhoven and Univ. Ulm with MSU);
- FP7 sensor projects: **IAQSense** and **SENSIndoor**, 2013/2014-2016, PO H-H P, agency OPTIMAT; highlight: common workshop at EUROSENSORS 2015, Freiburg

# .Why Clustering - from the EC Perspectives?

- .Increase the visibility and impact of EC activities and help the cluster participants to increase their own!
- .Promote the EC programme activities and the potential benefits they create for industry and society in a given field!
- .Greater impact of dissemination actions if performed by a group with similar views than by individual persons or projects or organisations;
- .Valuable feedback from networks or clusters on policy making and research programme definition (also on the national and international level) – more important than from individual organisations;
- .Better tackling of horizontal issues - like Standards, regulation, safety, training and education – in a consolidated approach;

# NMBP Clusters I

## Nanotechnology and nanofabrication clusters (+ PTAs):

1. Nano for photovoltaic (Ian Weir; <http://www.eupvclusters.eu/>)
2. Nano for thermoelectrics (Jiri Navratil; <http://www.nano4te-cluster.eu>)
3. Nano4water (Sergey Gordeyev; [www.nano4water.eu](http://www.nano4water.eu))
4. Nanomedicine (Silke Krol; <http://www.etp-nanomedicine.eu> )
5. Sensors (Rudolf Frycek; [www.cluster-essc.eu](http://www.cluster-essc.eu) )
6. Energy technologies (Ian Weir)
7. Engineering and upscaling (Gerhard Goldbeck and Bojan Boskovic)
8. Nanometrology and instrumentation (Costas Charidis and Rudolf Frycek; <http://characterizationcluster.eu/>)
9. Nanosafety(Costas Charidis and Rudolf Frycek, [www.nanosafetycluster.eu](http://www.nanosafetycluster.eu))
10. Nanoscale measurement technology (Costas Charidis)



# .NMBP Clusters II

## .Advanced materials clusters (+PTAs):

1. Cultural and creative industries (Sara Giordani)
2. Joining dissimilar materials (Peter Sheard)
3. Materials modelling council (Gerhard Goldbeck; [www.emmc.eu](http://www.emmc.eu) )
4. Raw materials (Peter Ramaekers)
5. Advanced materials for high temperature power generation
6. Batteries (Deborah Creamer)
7. Biomaterials
8. Carbon fibers
9. Catalysis (Sylvia Gros)

# .PTAs for Clusters

## .Tasks:

**identify** synergies, opportunities, issues, technology outlook, future priorities, **moderate** existing clusters (vision, road map, action plan), etc. - based on a number of thematically close projects and on (motivated) experts within and outside of these projects, there are e.g. 15 running sensor projects;

**support** the process of establishing new knowledge and technologies and the process of their actual implementation and commercialisation in industrial applications and products;

**.Meetings:** “Workshop on PTAs for clusters of NMBP projects”; 9.-10. 09.2014 in BXL (involving already Rudolf Frycek for the Sensor Cluster and me for IAQSense and SENSIndoor), tel/co 03.11.2014 preparation of the “Characterization Cluster Workshop” 27.11.2014 in BXL, the initiation of the “Sensor Cluster” (PO Hans-Hartmann Pedersen);

**.Thank you for your interest and patience!**