



# Update from the COST Office

**Jacob RIAMBAU SANTACANA, Administrative Officer**  
**Caroline M. WHELAN, Science Officer MPNS – apologies**

MC Meeting of COST Action MP1106

**“Smart and green interfaces - from single bubbles and drops to industrial, environmental and biomedical applications (SGI) ”**

**Dublin (IE), 13-14 September, 2012**

- COST Office Staff for the Action
- News from the COST Office
- New Actions update
- The Open Call
- International dimension of COST
- Reciprocal Agreement Schemes
- ESR: Conference Grant
- Action Status
- Action Budget: planning & status
- APC



# COST Office staff for Action MP1106

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# News from the COST Office

- NON-COST applications NEW **online system** approved by May CSO meeting
- COST received additional EUR 10 million from European Commission <http://www.cost.esf.org/library/newsroom/10million>
- COST included in the Horizon 2020 proposal submitted by the EC to the Council and the European Parliament [http://ec.europa.eu/research/horizon2020/index\\_en.cfm?pg=home](http://ec.europa.eu/research/horizon2020/index_en.cfm?pg=home)
- 'Plan for Strategic Activities' approved at 184<sup>th</sup> CSO Meeting (March, 2012), two categories, 'Science and Technology driven Strategic Activities' initiated by DCs and 'Policy driven Strategic Activities' *initiated by the CSO President, CSO members or the COST Office Director.*



# oc-2011-2 for MPNS

Pre-proposal submitted Sept. 30, 2011 (DC assessment)

Full proposal invited 28 Nov. 2011 (deadline 27 Jan. 2012)

**EEP assessment 28-29 Feb. 2012**

**DC Hearings 16 March 2012**

544 (usually 500-600) pre-proposals submitted

47 (usually 45-50) MPNS

10 (8) full proposals invited

5 (5) DC Hearings

*Exceptionally 5+2 (2-3) CSO approval*

# oc-2011-2, New Actions on *standby*

- MP1201 Nanoscale Superconductivity: Novel Functionalities through Optimized Confinement of Condensate and Fields (NanoSC)


1<sup>st</sup> MC and Kick-Off meeting 19 Oct. @ COST

- MP1202 Rational design of hybrid organic-inorganic interfaces: the next step towards advanced functional materials

1<sup>st</sup> MC and Kick-Off meeting TBD @ COST

- MP1203 Advanced X-ray spatial and temporal metrology

1<sup>st</sup> MC and Kick-Off meeting 16 Nov. @ COST

-  MP1204 TERA-MIR Radiation: Materials, Generation, Detection and Applications

1<sup>st</sup> MC and Kick-Off meeting 21 Sept. @ COST

- MP1205 Advances in Optofluidics: Integration of Optical Control and Photonics with Microfluidics

1<sup>st</sup> MC and Kick-Off meeting 22 Oct. @ COST

- TD1201 Colour and Space in Cultural Heritage (COSCH)

1<sup>st</sup> MC and Kick-Off meeting 7 Nov. @ COST

- TD1204 Modelling Nanomaterial Toxicity (MODENA)

1<sup>st</sup> MC and Kick-Off meeting 24 Oct. @ COST

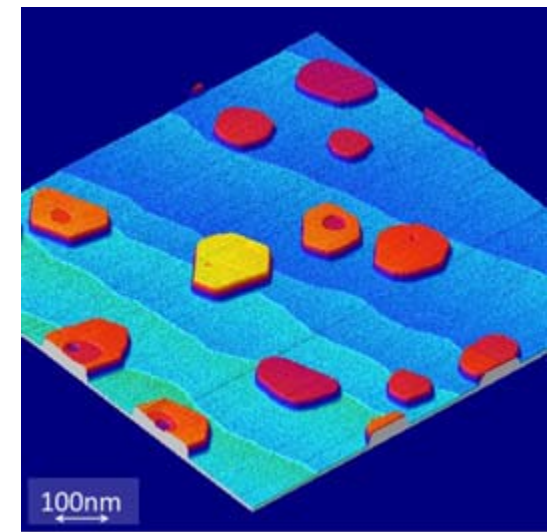
For details see [http://www.cost.eu/domains\\_actions/mpns/Actions](http://www.cost.eu/domains_actions/mpns/Actions)

# MP1201 Nanoscale Superconductivity: Novel Functionalities through Optimized Confinement of Condensate and Fields (NanoSC)



## Objective

To streamline science and technology in the field of superconductivity and contribute to the development of novel applications of nanostructured superconductors beneficial to European industry and society



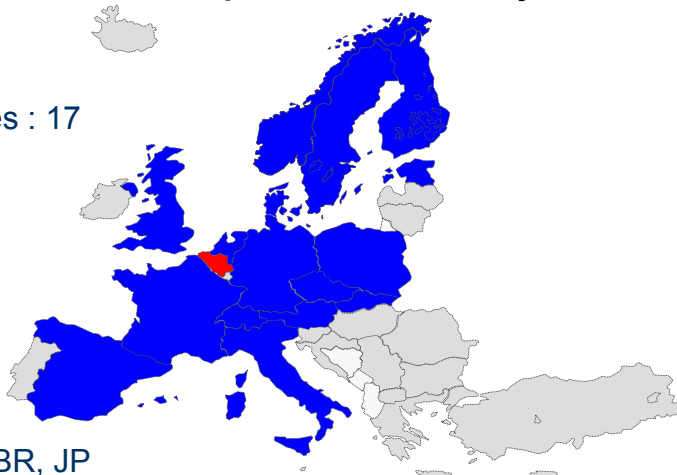
Interested Countries : 17

Proposer : **BE**

AT, CH, CZ,  
DE, DK, EE,  
ES, FI, FR, IT,  
NL, NO, PL, SK,

SE, UK

NON-COST : AU, BR, JP



- |     |   |
|-----|---|
| WG1 | Design and fabrication of new SC nanostructures |
| WG2 | Characterization of nanostructures              |
| WG3 | Modeling tools                                  |
| WG4 | SME's/Industry relations - demonstrator devices |
| WG5 | Coordination, dissemination & teaching          |

# MP1202 Rational design of hybrid organic-inorganic interfaces: the next step towards advanced functional materials

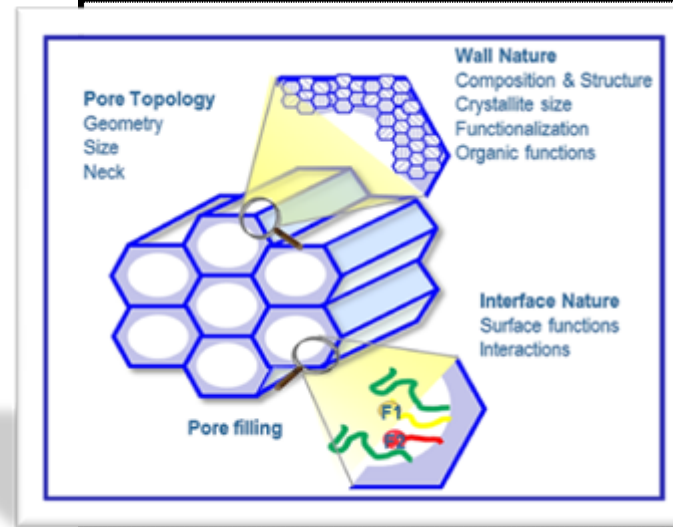
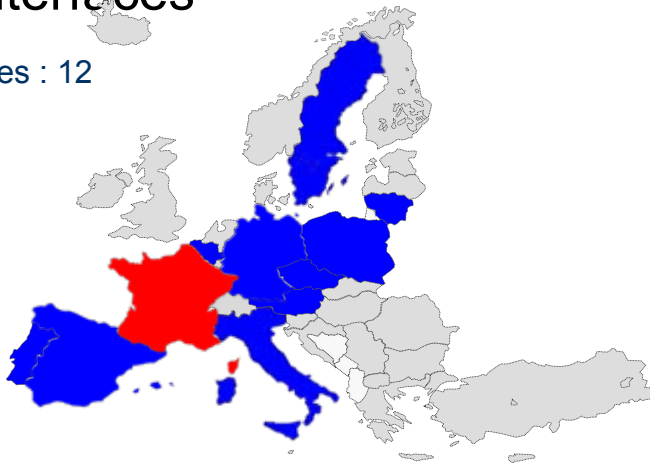
## Objective

To develop a European interdisciplinary platform for scientific added value and improvement of industrial applications of hybrid organic-inorganic materials via a detailed understanding of the properties and dynamics of their multi-scale interfaces

Interested Countries : 12

Proposer : FR

AT, BE, CZ, DE,  
ES, IL, IT, LT, PL,  
PT, SE



- WG1 New routes for synthesis, structuring and characterization of hybrid interfaces
- WG2 Computer simulation of hybrid interfaces
- WG3 In Situ study of dynamics of hybrid interface formation
- WG4 Process optimization, devices and applications



# MP1203 Advanced X-ray spatial and temporal metrology

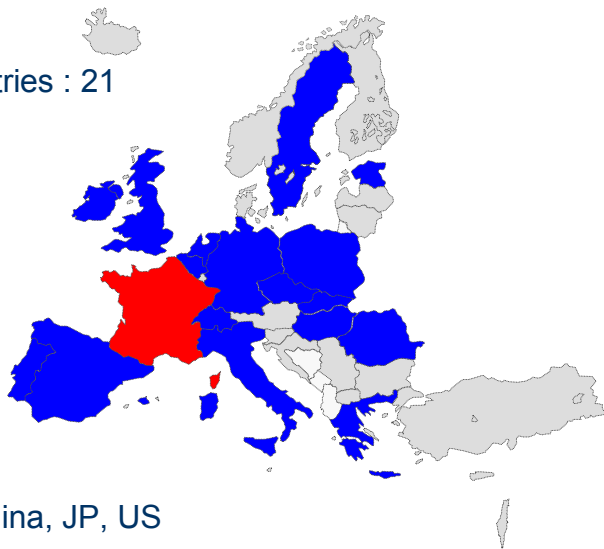
## Objective

To aggregate, in an active consortium, European and International laboratories, large-scale facilities and firms so as to trigger a significant leap forward on spatial and temporal X-ray metrology and the relevant standardization

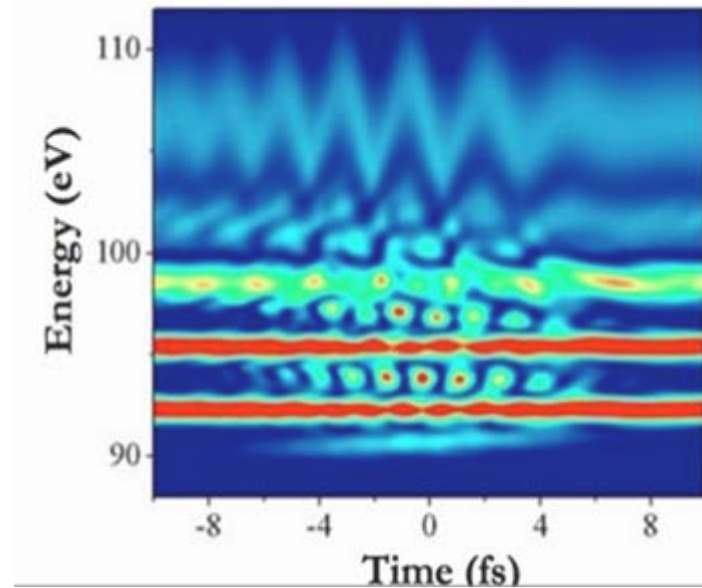
Interested Countries : 21

Proposer : **FR**

BE, CH, CZ, DE, EE, EL, ES, HU, IE, IT, NL, PL, PT, RO, SE, SK, UK



NON-COST : China, JP, US



- |     |  |
|-----|--|
| WG1 | X-ray spatial metrology of optics  |
| WG2 | Spatial and temporal metrology of X-ray sources  |
| WG3 | X-ray coherent and incoherent imaging diagnostics                                      |
| WG4 | Damage on X-ray optics   |
| WG5 | High brightness and coherent X-ray sources for advanced spatial and temporal metrology |
| WG6 | Dissemination  |

# MP1204 TERA-MIR Radiation: Materials, Generation, Detection and Applications

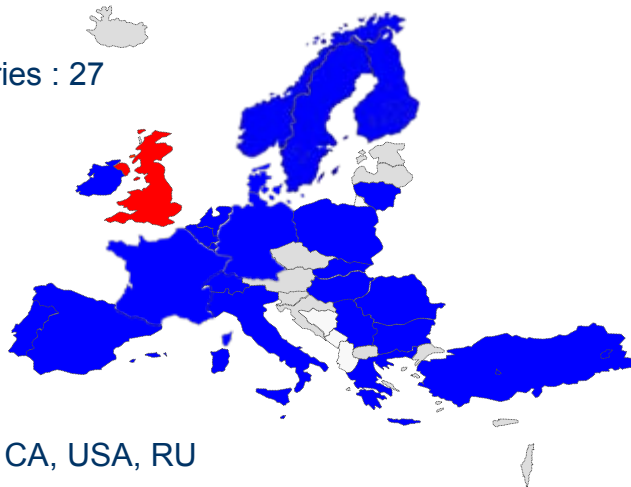
## Objective

To advance novel materials, concepts and device designs for generating and detecting THz and Mid Infrared radiation and to unify these two spectral domains from their common aspects of sources, detectors, materials and applications

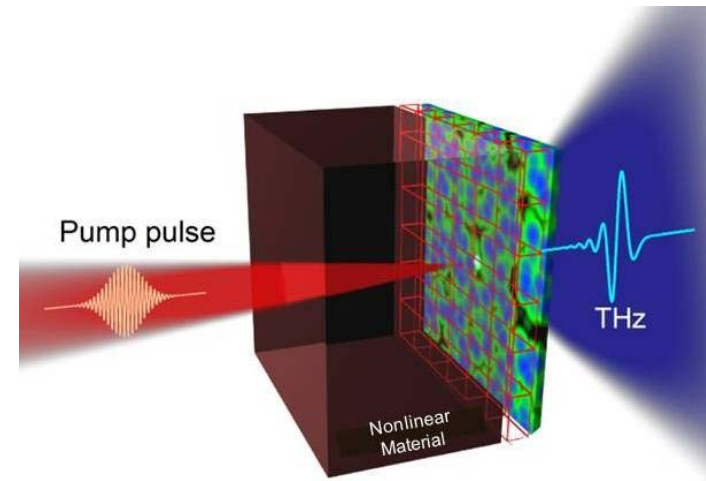
Interested Countries : 27

Proposer : **UK**

BE,BG,CH,D  
E,EL,ES,FI,F  
R,HU,IE,IT,LT  
,LU,MT,NL,N  
O,PL,PT,RO,  
SE,SK TR



NON-COST : BR, CA, USA, RU



- WG1 Intersubband materials and devices with applications to fingerprint spectroscopy
- WG2 Metamaterials, photonic crystals and new functionalities
- WG3 Nonlinearities and interaction of radiation with matter including biomaterial
- WG4 Generation and Detection based on Nitrides and Bismides

Pereira, Mauro <M.Pereira@shu.ac.uk>

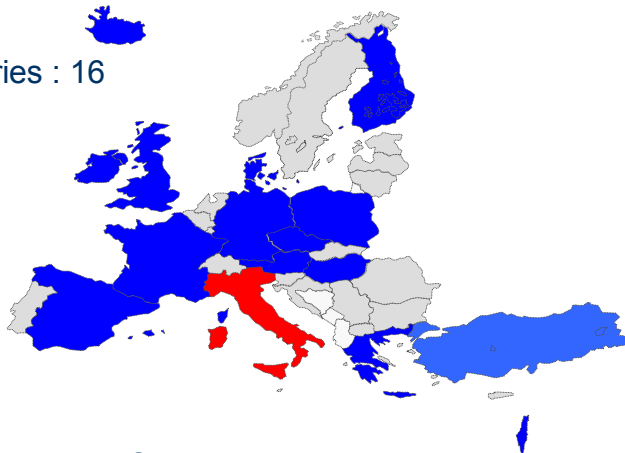
# MP1205 Advances in Optofluidics: Integration of Optical Control and Photonics with Microfluidics

## Objective

To create active interlinks among scientific and industrial bodies working in the fields of micro and optofluidics, optical tweezers, nanoscience and photonics, bio and soft materials, in order to promote long term development of these fields in Europe focusing their work on alternative approaches to optofluidics to design multifunctional platforms and lab-on-chip systems

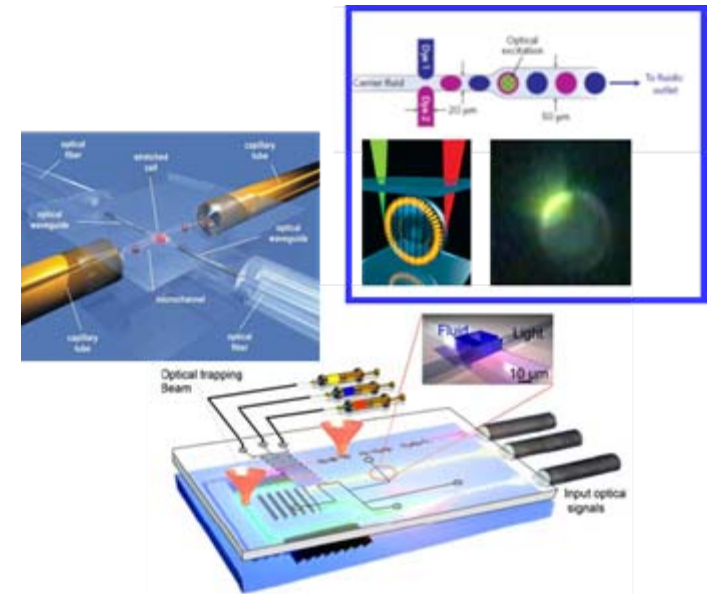
Interested Countries : 16

Proposer : **IT**  
AT, CZ, DE, DK,  
ES, FI, FR, GR,  
HU, IE, IL, IS,  
PL, TR, UK



NON-COST : AU, MX, US

Gabriella Cipparrone <[gabriella.cipparrone@fis.unical.it](mailto:gabriella.cipparrone@fis.unical.it)>

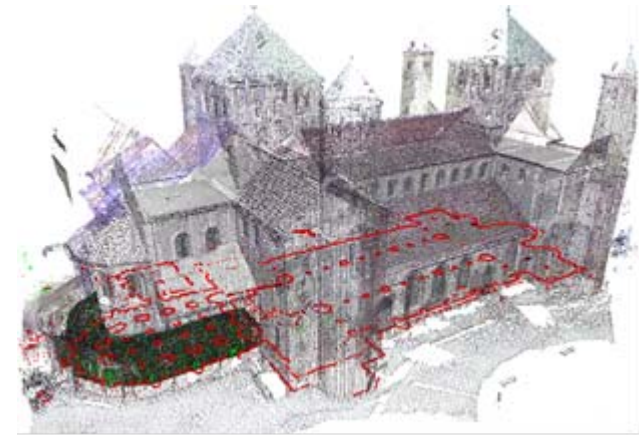


- WG1 Integrated microfluidic photonics (new concepts of optofluidics)
- WG2 Optical control in microfluidics
- WG3 Materials (soft, bio and nano) and technologies for optofluidic devices

# TD1201 Colour and Space in Cultural Heritage (COSCH)

## Objective

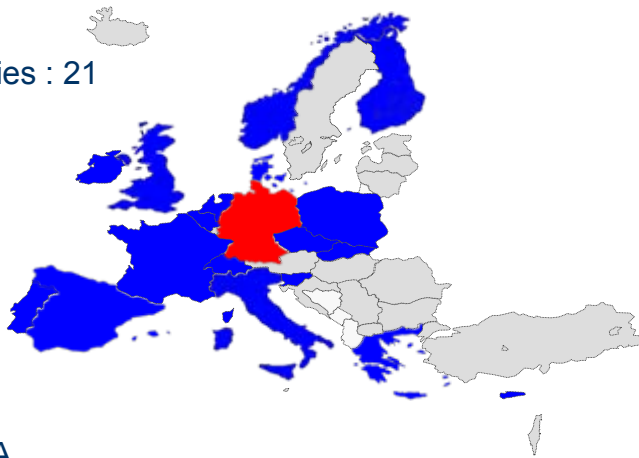
To promote research, development and application of optical measurement techniques – adapted to the needs of heritage documentation – based on an interdisciplinary cooperation, on a concerted European level and to offer a novel and reliable, independent and global knowledge base facilitating the use of today's and future optical measuring techniques to support the documentation of European heritage



Interested Countries : 21

Proposer : **DE**

BE, CH, CZ, DE,  
DK, ES, FL, FR,  
GR, IRE, IT, NL,  
NO, PL, PT, SL,  
SK, UK, CYP



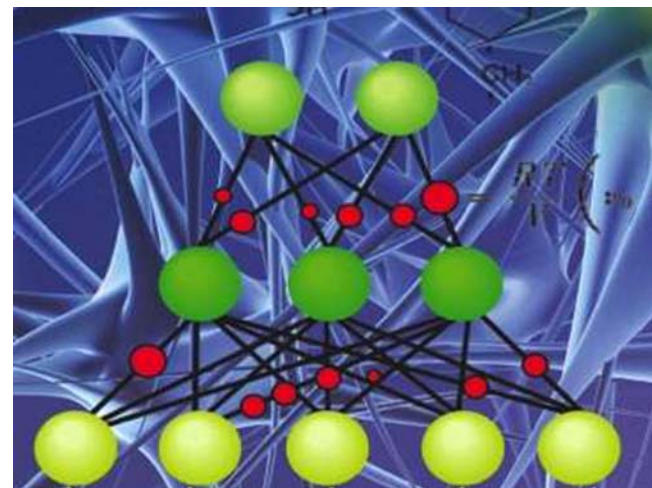
NON-COST : MA

- |     |   |
|-----|---|
| WG1 | Spectral object documentation                       |
| WG2 | Spatial object documentation                        |
| WG3 | Algorithms and procedures                           |
| WG4 | Analysis and restoration of CH surfaces and objects |
| WG5 | Visualisation of CH objects and its dissemination   |

# TD1204 Modelling Nanomaterial Toxicity (MODENA)

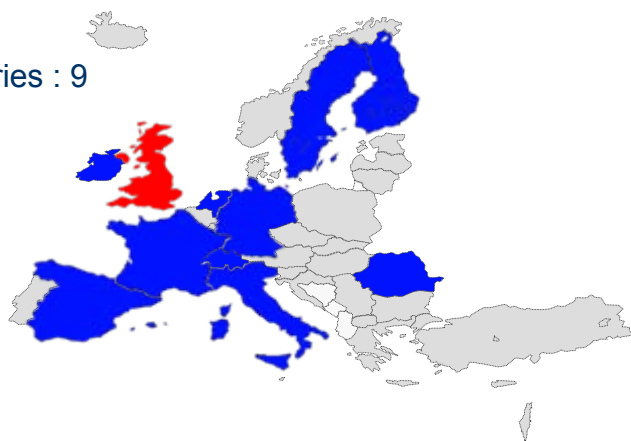
## Objective

to produce Quantitative Nanostructure-Toxicity Relationships (QNTR) models for nanomaterials, through the coordination of inter-disciplinary collaborations of different stakeholder parties



Interested Countries : 9

Proposer : **UK**  
DE, ES, FI, FR,  
IE, IT, NL, RO,  
SE



- |     |  |
|-----|--|
| WG1 | Synthesis and Characterization of engineered nanomaterials (ENM) |
| WG2 | Toxicity of ENM  |
| WG3 | QNTR Modelling and Database                                      |



## International dimension of COST

- The participation of Institutions from non-COST countries is welcome and is based on *mutual benefit*
- Non-COST country participants can be classified as:
  - **Near Neighbour countries** (Balkan and Eastern countries, Mediterranean and North-African countries: *Albania, Algeria, Armenia, Azerbaijan, Belarus, Egypt, Georgia, Jordan, Lebanon, Lybia, Moldova, Montenegro, Morocco, The Palestinian Authority, Russian Federation, Syria, Tunisia, Ukraine*)
  - **Countries with Reciprocal Agreements** (*Australia, Argentina, New Zealand and South Africa*)
  - **The rest of the world**



## Reciprocal Agreement Schemes

- STSM to Australia, New Zealand, South Africa and Argentina are paid from a centralized budget (not the Action budget)
- Participation from a Reciprocal Agreement (RA) country into a COST Action meeting within Europe is paid from the RA Country's Implementing Agent
- **Prerequisite is that the RA Institution has been accepted as an non-COST Institution officially part of the Action**

[http://www.cost.eu/about\\_cost/reciprocal\\_agreements](http://www.cost.eu/about_cost/reciprocal_agreements)



## ESR: Conference Grant (1)

- Each Domain offers 3 **supporting grants** (max. 3000 € each) for Early Stage Researchers (< **PhD + 8 years postdoc experience**) per year to participate in an International Conference (oral contribution) outside the COST Action activities.
- Grant can be used to cover travel and subsistence costs, conference fees, and the costs of conference workshops.
- Selection process by written procedure.
- After the conference: applicant must send **report** to Action for MC approval to be forwarded to the COST Office for DC.





## ESR: Conference Grant (2)

- Details to submit to the COST Office by the MC Chair:
  - MC approval of the application
  - CV applicant
  - Motivation letter: role of the applicant in the Action and including financial breakdown of expected expenses (flight, accommodation, conference fees)
  - Description of the conference
  - Proof of conference acceptance for oral presentation
  - Copy of submitted abstract
- MPNS DC Core Group assesses the applications during the year

# Status of Action MP1106

CSO Approval date 01/12/2011

Entry into force 06/01/2012

Start of Action 11/05/2012

End of Action 10/05/2016

DC rapporteurs: Prof. Witold Łojkowski (PL)

Action Chair: Prof. Thodoris D Karapantsios (EL)

Action Grant Holder Institution: Aristotle University Thessaloniki (EL)

Please inform DC Rapporteur and SO of meeting dates as soon as agreed within MC *before e-cost invitations are sent*

Parties : 27							
Country	Date	Country	Date	Country	Date	Country	Date
Austria	30/01/2012	Belgium	09/02/2012	Bulgaria	20/01/2012	Croatia	11/01/2012
Czech Republic	10/02/2012	Denmark	29/03/2012	Estonia	11/04/2012	Finland	03/05/2012
France	23/03/2012	Germany	18/01/2012	Greece	23/01/2012	Hungary	05/03/2012
Ireland	16/01/2012	Israel	27/12/2011	Italy	13/01/2012	Luxembourg	27/04/2012
Netherlands	17/01/2012	Norway	02/02/2012	Poland	18/01/2012	Portugal	06/01/2012
Romania	15/03/2012	Serbia	24/02/2012	Slovakia	23/03/2012	Slovenia	05/01/2012
Spain	04/01/2012	Turkey	15/03/2012	United Kingdom	09/12/2011		

**Action Budget: planning & status MP1106**  
**02/06/2012-01/06/2013**  
**EUR172 500**

Summary Budget

<b>Instrument</b>	<b>Quant.</b>	<b>Budget</b>
Meetings	4	107 500.00 EUR
Training Schools	1	30 000.00 EUR
STSMs	10	10 000.00 EUR
Dissemination	1	2 000.00 EUR
Other Expenses Related to Scientific Activities	1	500.00 EUR
<b>SCIENCE EXPENDITURE:</b>		<b>150 000.00 EUR</b>
Financial and Scientific Administration and Coordination (MAX. 15%)	15.00 %	22 500.00 EUR
<b>TOTAL EXPENDITURE:</b>		<b>172 500.00 EUR</b>



**Thank you for your attention!**