



# **Exploratory Workshop**

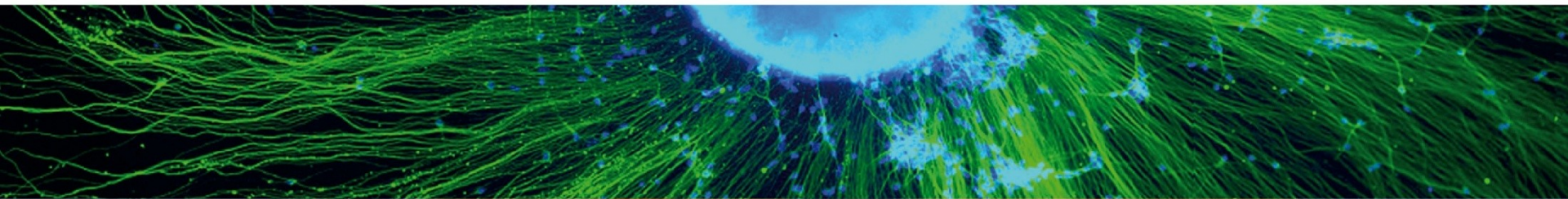
## **Polaritonics: From Basic Research to Device Applications**

*Roma, Marino, 20-23 March 2012*

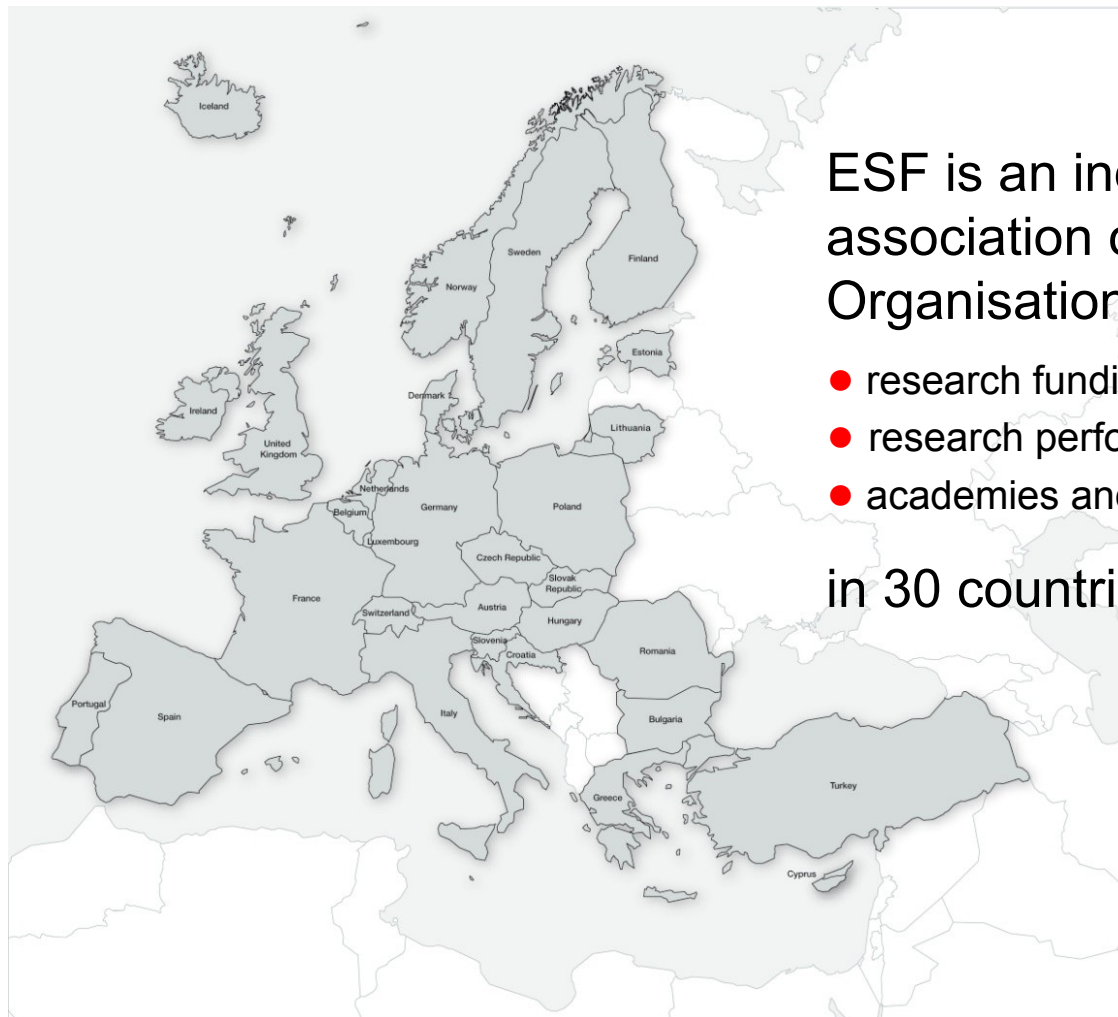
**Dr. Ana Helman**  
**PESC Science Officer**



# European Science Foundation



# ESF Member Organisations



ESF is an independent association of 72 Member Organisations

- research funding organisations
- research performing organisations
- academies and learned societies

in 30 countries

## A time of change

At the moment ESF is in a period of transition and is currently developing a multiannual plan which will be presented in 2012.

It is continuing discussions with its Member Organisations and the recently launched **Science Europe** to define future roles and activities.

In the meantime, ESF's existing commitments will be unaffected by these developments.

Updates regarding ESF developments and activities are available on our website:

<http://www.esf.org/about-esf/latest-esf-developments.html>



## Current role of ESF

Until a future strategy has been defined, the role of the European Science Foundation is to provide a common platform for its Member Organisations in order to:

- **advance European research**
- **explore new directions for research at the European level**

Through its activities, the ESF serves the needs of the European research community in a global context.

Its mandate is underpinned by the values of excellence, openness, responsiveness, pan-European, ethical awareness and human values. It coordinates the programmes that are funded directly by national organisations.

# ESF covers all scientific domains

## Standing Committee domains

- Humanities
- Life, Earth & Environmental Sciences
- Medical Sciences
- Physical and Engineering Sciences
- Social Sciences

## Expert Board/Committee domains

- Marine Sciences
- Materials Science and Engineering
- Nuclear Physics
- Polar Sciences
- Radio Astronomy
- Space Sciences

# Budget in 2012

**Total budget managed by ESF: 57 M€**

- **4 M€** for core scientific activities facilitated by 32 staff members
- **53 M€ for the following other activities:**
  - “à la carte” activities funded by Member Organisations on a voluntary basis
  - Institutional partnerships (conferences)
  - External contracts, mainly with the European Commission (including COST, see last slide)

## Current ESF Activities

### SCIENCE STRATEGY

Exploratory  
Workshops

Science Policy  
Briefings

Forward Looks

### SCIENCE SYNERGY

Research Networking  
Programmes

Research  
Conferences

EUROCORES  
Research Programmes

### SCIENCE MANAGEMENT

Peer Review  
support

Coordination of  
EC projects

Implementing agent  
for COST through EC  
contract

Member Organisation Fora



## Exploratory Workshops

- One-off specialist meetings
- Spearheading 'Bottom-up' topics based on open calls
- Aiming to catalyse significant and strategic activities
- 25-30 scientists per workshop
- Funding per event: 15 k€



► [\*\*www.esf.org/workshops\*\*](http://www.esf.org/workshops)



# PESC's EW follow-up strategy

- All Convenors of PESC Exploratory Workshops invited to submit a proposal for a follow-up activity:
  - Activities which are essential for the full delivery of the output of the EW
  - Activities meant to promote the implementation of ideas which have emerged during the Workshop.
- Selection by the PESC Core Group
- 3-4 awards per year of up to 5k€ each
- Annual Strategic Workshop with PESC Core Group and EW Convenors

## Research Networking Programmes

- Enable scientific endeavours over a 4-5 year period
- Supported by Member Organisations and other research and academic institutions
- Include workshops, conferences, exchange visits, summer schools, dissemination
- Can link to other initiatives, including the EC programmes
- Funding of 100-130 k€ per year per programme
- On average 11 000 participants per year in 60-70 programmes
- *A decision about the 2012 call will be made in the first half of 2012*

► [\*\*www.esf.org/programmes\*\*](http://www.esf.org/programmes)

# PESC's relevant activities

- Research Networking Programme :

***Common Perspectives for Cold Atoms, Semiconductor Polaritons and Nanoscience (POLATOM)***

Duration: June 2010-2012

Chair : Prof. Georgios Kavoulakis, TEI Crete, Greece

[www.esf.org/polatom](http://www.esf.org/polatom)

***Possibility to organise networking activities (summer schools, workshops, conferences) and fund exchange grants (students, PhDs, senior scientists)***

***Open network : applications can be submitted by everyone provided that the topic is relevant (priority is given to applicants from countries participating in the RNP)***

## PESC's related activities

### Quantum Spin Coherence and Electronics (QSpICE)

06/2009 - 06/2014

Chair: Prof. Bjorn Trauzettel, Würzburg University, Germany

### Exploring the Physics of Small Devices (EPSD)

03/2009 - 03/2014

Chair: Prof. Christian Van den Broeck, Hasselt University, Diepenbeek, Belgium

### New Trends and Applications of the Casimir Effects (CASIMIR)

04/2008 - 04/2013

Chair: Dr Astrid Lambrecht, Université Pierre et Marie Curie, CNRS, Paris, France

### Nanoscience and Engineering in Superconductivity (NES)

05/2007 - 05/2012

Chair: Prof. Victor V. Moshchalkov, Katholieke Universiteit Leuven, Belgium

## Research Conferences

- Interdisciplinary scheme in collaboration with institutional partners
- Stimulate dialogue between early-stage researchers and scientific leaders worldwide
- Cover topics proposed by the scientific community
- Grants of 20-60 k€ per conference, including specific support for early-stage researchers
- Organisation by ESF conference unit

► ***[www.esf.org/conferences](http://www.esf.org/conferences)***

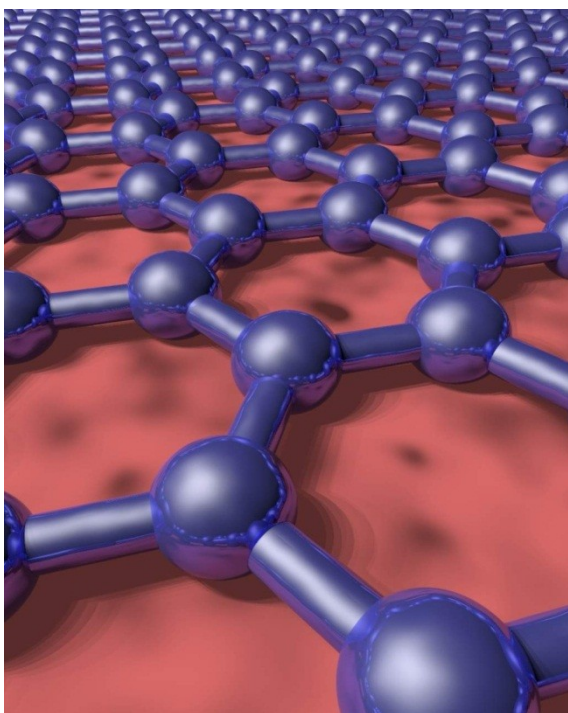


## **EUROCORES** (European Collaborative Research Programmes)

- Unique investigator-driven collaborative research scheme covering all scientific disciplines
- Opportunity for scientists to submit themes for collaborative research programmes
- International and joint peer review
- Research funding remains national, coordination and networking funded through ESF
- Any one programme includes about 15-40 individual projects from several countries
- Channels 5-10 M€ over 3 years
- 47 EUROCORES programmes have been created involving 67 funding agencies in over 30 countries in and outside Europe (more than M€230 national research funding)
- *In anticipation of decisions on the future strategy of ESF, no call for themes will be launched in 2012*

► [\*\*www.esf.org/eurocores\*\*](http://www.esf.org/eurocores)

# EuroGRAPHENE EUROCORES



<b>Participating Funding Organisations</b>	<b>14</b>
<b>Research budget</b>	<b>6.3 M€</b>
<b>Total Networking &amp; Dissemination budget</b>	<b>427 k€</b>
<b>Collaborative Research Projects</b>	<b>7</b>
<b>Individual Projects</b>	<b>32</b>
<b>Associated Partners</b>	<b>9</b>
<b>Duration</b>	<b>June 2010-13</b>

**<http://www.esf.org/eurographene>**

## Science Policy Briefings

- Addressing science policy issues of key concern to Member Organisations and the scientific community
- Drawing on the advice and expertise of top-level European researchers
- Providing evidence-based strategy recommendations to policy makers



► [www.esf.org/spb](http://www.esf.org/spb)

## Forward Looks

- Medium to long-term scientific perspectives
- Multidisciplinary topics viewed at a European level
- Connecting scientists with policy makers
- Wide consultation of stakeholders
- Producing major reports and action plans



ESF Forward Look – ESF-COST 'Frontier of Science' joint initiative  
**Responses to Environmental  
and Societal Challenges for  
our Unstable Earth (RESCUE)**



Forward Look  
**Gene-Environment Interaction  
in Chronic Disease**



► [\*\*www.esf.org/flooks\*\*](http://www.esf.org/flooks)



SCIENCE  
STRATEGY

SCIENCE  
SYNERGY

SCIENCE  
MANAGEMENT

## ESF Member Organisation Fora

- Output-oriented discussion platforms for
- Member Organisations to develop joint actions on specific issues, involving others as appropriate
- To contribute to strategy development
- and/or lead to the development of
  - Good practice e.g. peer review
  - Common procedures
  - Joint activities
- Duration: typically two years
- Recent results: European Code of Conduct for
- Research Integrity • European Peer Review Guide
- Research Careers in Europe Landscape and Horizons



Member Organisation Forum

**European Peer Review Guide**  
Integrating Policies and Practices  
into Coherent Procedures



**integrity** [in-  
tē-jē-tee] the quality of being h  
integrity.

**The European  
Code of Conduct for  
Research Integrity**

► [www.esf.org/mo-fora](http://www.esf.org/mo-fora)



## SCIENCE MANAGEMENT

# Science Management

ESF serves the academic community by creating synergies between funding agencies and by assisting cross-border cooperation.

- Peer Review support for funding organisations
- Coordination of ERA-NETs and other EC projects
- Implementing agent for COST through a European Commission contract





## SCIENCE MANAGEMENT

# Peer Review services for external academic clients

- Provision of data: information on experts
- End-to-end process of Calls for proposals: Call management, peer review, outcome (ranking lists, recommendations)
- Ex-post evaluation of research funding and/or performing organisations

### Why ESF?

- Quality controlled and standardised peer review process
- Quality controlled database of international referees
- Experienced scientific staff and efficient management of workflow processes

► [\*\*www.esf.org/peer-review\*\*](http://www.esf.org/peer-review)



## European Cooperation in Science and Technology

- Intergovernmental Framework, governed by its Member States (35 COST Member States and 1 cooperating state, Israel)
- The Committee of Senior Officials (CSO) is the decision-making body responsible for the strategic development of COST
- Approximately 250 on-going Actions
- Meetings, workshops, conferences, short term scientific visits, training schools.
- Between 65 and 300 k€ per year over 4 years
- Continuous open call with collection dates in March and September
- Approximately 9-month decision period

► **[www.cost.eu](http://www.cost.eu)**



# PESC

## **Standing Committee for Physical and Engineering Sciences (PESC)**

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***www.esf.org***