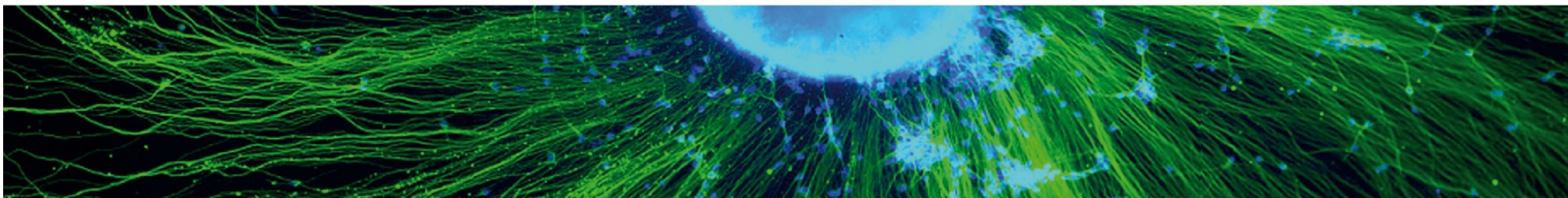




# European Science Foundation





## **ESF Exploratory Workshop:**

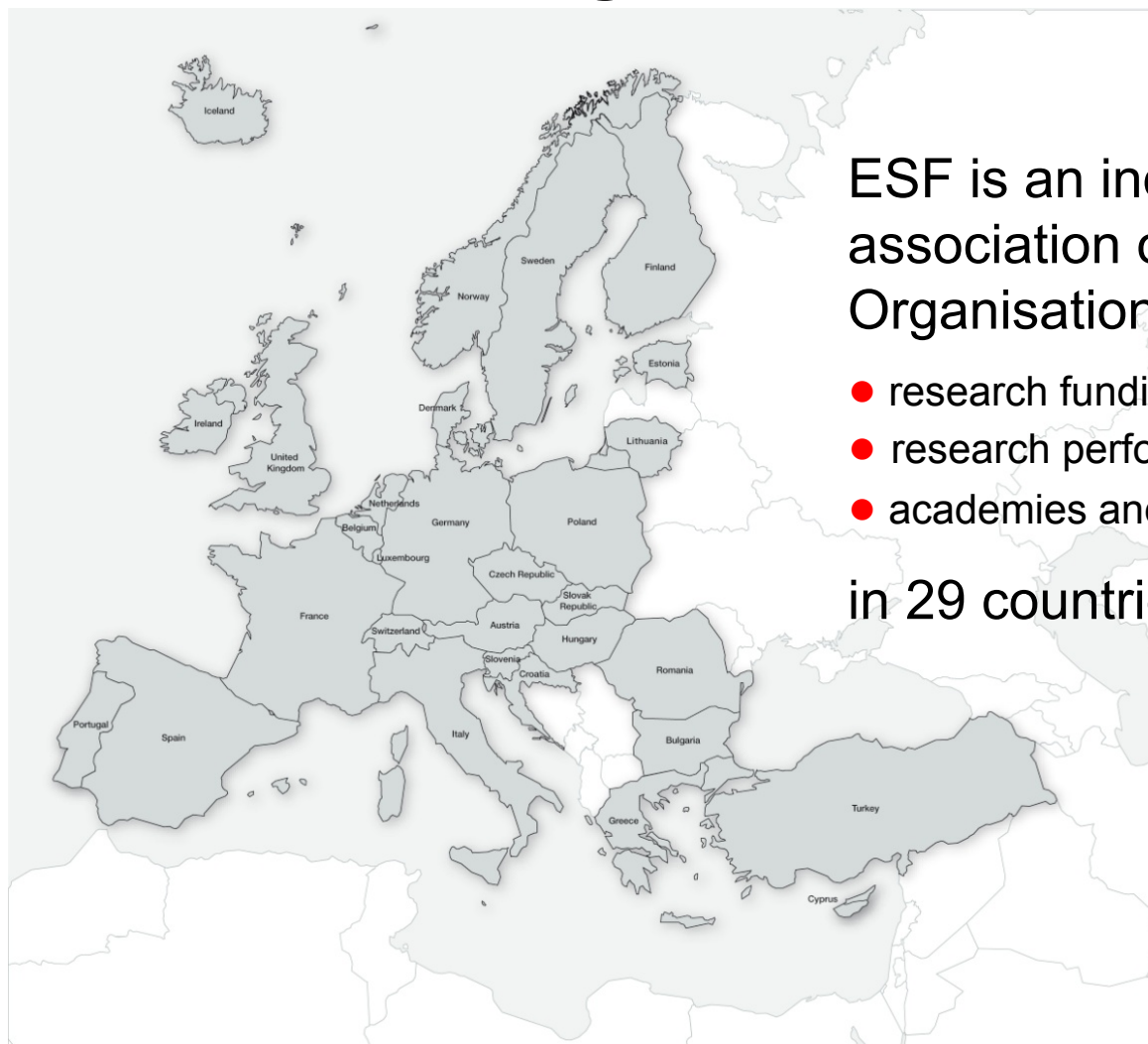
# **Multi-Scale Methods For Waves And Transport Processes In Fusion Plasmas: The Legacy Of Grigory Pereverzev**

*Garching (Germany), 13-16 October 2013*

**by Prof. Dr. Roland Diehl**

***representing ESF/SRG-PEN for this event***

# ESF Member Organisations



ESF is an independent association of 67 Member Organisations

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

in 29 countries





## A time of change

In parallel with the development of Science Europe – the Brussels-based policy organisation launched early 2012 - ESF has commenced the winding-down of a number of its activities in accordance with the Multi-annual Plan 2013-2015.

The Multi-annual Plan takes into consideration the commitments that ESF has made until the end of 2015 with the aim of ensuring that they are honoured and executed with the level of quality that ESF has always delivered.

# Scientific Committees

ESF has replaced its former Scientific Standing Committees with smaller **Scientific Review Groups**.

## Scientific Review Group (SRG) domains

- Humanities (HUM)
- Life, Earth & Environmental Sciences (LEE)
- Biomedical Sciences (MED)
- Physical and Engineering Sciences (PEN)
- Social Sciences (SOC)



# SRG-PEN

## Chair

Professor Mats GYLLENBERG, University of Helsinki, Finland

## Members

Professor Stefan JÄHNICHEN, Technische Universität Berlin, Germany

Professor Maria KAMINSKA, University of Warsaw, Poland

Professor Kenneth RUUD, University of Tromsø, Norway

Professor Sauro SUCCI, CNR, Roma, Italy



## **SRG-PEN (**P**hysics and **EN**gineering) ACTIVITIES in 2013**

- **Forward Looks: 1**
- **Exploratory workshops: 5**
- **Research Networking programmes: 24**
- **EUROCORES: 4**

***Email: [pen@esf.org](mailto:pen@esf.org)***

## Budget in 2013

**Total budget managed by ESF: 52 M€**

- Allows for the transition of strategic activities to Science Europe, such as Forward Looks and MO Fora, as well as the completion of on-going commitments until end of 2015
- **4 M€** for core scientific activities facilitated by 26 staff members
- **48 M€** for the following other activities:
  - ‘à la carte’ activities (e.g. RNPs, EUROCORES) funded by Member Organisations on a voluntary basis
  - Institutional partnerships (conferences)
  - External contracts, mainly with the European Commission (including COST)





## Activities

### Ongoing Commitments

- Research Networking Programmes
- EUROCORES Research Programmes
- Research Conferences
- Science Policy Briefings
- Finalising EURYI awards

## 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 (e.g. MERIL)
- Implementing agent for COST through a European Commission grant agreement



## Mapping the European Research Infrastructure Landscape (MERIL)

- A continuously updated inventory of the most excellent research infrastructures (RIs) in Europe of more-than-national relevance, covering all scientific domains.
- A valuable source of publicly available information for policy-makers and scientists.
- Initial development of the database and portal supported by the European Commission (2010-2012) – further development and exploitation in 2013 supported by ESF member organisations.

### Why ESF?

- Recommendations on requirements and standards for research infrastructures from MO Forum.
- Able to mobilise and support pan-European, multi-stakeholder effort.

## 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
- *No Calls for new Research Networking Programmes are anticipated*

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

## **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)
- *No Calls for new EUROCORES themes are anticipated*

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

## 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)



## 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)



# Activities

## Exploratory Workshops

- Call for proposals to be issued in March 2013 for workshops in 2014
- 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)





## European Cooperation in Science and Technology

- Intergovernmental Framework, governed by its Member States (35 COST Member States and 1 cooperating state, Israel)
- Annual total turnover: approx 30 M€ at present; 240 M€ over 7 years
- 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)

***www.esf.org***