

Contents

- Welcome address
- SENERES Events
- Call for Proposals
- Important Events
- Euraxess
- Public Private Partnership (PPP)
- Recently Published

Welcome address

Welcome to the third issue of the SENERES Newsletter. SENERES is the project founded within frames of FP7 Capacities RegPot Programme. The main objective of the SENERES project is to reinforce and develop research and demonstration potential of the Institute of Power Engineering (Poland) and to set up the **Sustainable Energy Research and Development Centre SENERES** focused on high efficient low-carbon energy technologies: energy generation from biomass, clean coal technologies and fuel cells.

The SENERES Newsletter is a source of periodical information about SENERES project activities. It disseminates results of SENERES Centre research work and the Centre's development. It also delivers the most important information about the development of research, events and possibilities of research funding in SENERES thematic area.



SENERES Events

Secondments of research staff

In connection with the plan of visits agreed between the Institute of Power Engineering and Partner Institutions the following events took place in the summer period:

13 July – 6 August 2012 – PV Aravind from Delft University of Technology (The Netherlands) has visited the Institute of Power Engineering (IEn). The visit was aimed at developing the cooperation between the Solid Oxide Fuel cell (SOFC) groups of IEN and TU Delft within and outside the SENERES project.

1 July – 31 July 2012 – Profesor Bartłomiej Glowacki visited the Institute of Power Engineering - Ceramic Department (CEREL) and Thermal Processes Department (CPC).



<http://commons.wikimedia.org/wiki/File:Biofuels.jpg>
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Scientific Seminar

27th July 2012

The scientific seminar was organised in the Institute of Power Engineering. The leading topic of the seminar covered following field: Enabling Technologies for Superconductivity Applications:

Hydrogen technologies, Publications and Patents. The seminar was conducted by Bartłomiej A. Glowacki MA(Cantab) DrPhys Professor(Belweder) Professor (Cantab) FInstP FIMMM CEng MWhEC, University of Cambridge. The seminar had a form of discussion, involving the exchange of experience connected with the presentations topics.

Call for Proposals

The below mentioned Calls have been published on 10th July 2012:

- ❖ FP7-ENERGY-2013-1: a general call focusing on research with a long-term horizon;
- ❖ FP7-ENERGY-2013-2: a general call focusing on research with a short-term horizon and on demonstration;

Additionally energy-related Calls for Proposals have been published on 10th July 2012:

- ❖ FP7-SMARTCITIES-2013: a call in the framework of the SET-Plan Smart Cities and Communities Initiative;
- ❖ FP7-ENERGY-2013-IRP: a call to support integrated research programmes in the energy field;
- ❖ FP7-FISSION-2013: a call focusing on nuclear fission research;
- ❖ FP7-2013-NMP-ENV-ICT-EeB: a cross-thematic call on Energy-efficient Buildings in the context of the EU Recovery Plan;
- ❖ FP7-2013-OCEAN: a cross-thematic call on marine and maritime research including an energy relevant topic;
- ❖ FP7-ERANET-2013-RTD: a joint call on ERA-NETs.

The call information is available on the following website:

http://ec.europa.eu/research/conferences/2012/energy_infoday/infoday_energy_en.htm



Important Events

July 9-10, 2012, FP7 Information Day on Research PPPs'

Joint Information days on research PPPs were organised in Brussels. There were more than 800 participants from EU and beyond. Industrial partners and commission representatives had an opportunity to present the PPPs progress, successes and to discuss future plans.

http://ec.europa.eu/research/industrial_technologies/fp7-information-day-for-ppp-2012_en.html

July 26-27, 2012, Green Blocks – biomass investments

"Green Blocks - big and little biomass investments," conference was held in Szczecin. During the conference SC Experts Consultancy / PowerMeetings.pl shared the experience from the area of process of conducting investment both in Professional Energetics and in Enterprises of the thermal power industry. One of the most important topics concerned financial investments.

More information is available on the website:

<http://scc.com.pl/konferencje/en/dlr/>

August 23, 2012, Katowice, Workshop Cogeneration - Today and Tomorrow. Prospects of the development. The Planned changes to the law.

On 23rd of August in Katowice there was organised a workshop "Cogeneration - Today and Tomorrow. Prospects of the development. Planned changes to the law".

In the course of this workshop the main discussions concerned the following fields:

- ❖ current and designed decisions and EU directives;
- ❖ directions of changes and supplements to the system of the support;
- ❖ cogeneration in the draft of the new energy law;
- ❖ principles of using the system of supporting today and tomorrow;
- ❖ accounting for the duty;
- ❖ other regulations supporting the cogeneration.

More information is available on the website:

<http://scc.com.pl/konferencje/en/kog/zaproszenie>

October 9-10, 2012, Science & Research Conference on the Innovation in the Energy Sector, Warsaw, Poland

The Science - Research Conference on the Innovation in the Energy Sector, organized in Hotel Sofitel Warsaw, is addressed to all Energy Sector representatives, including power plants, energy companies, boiler manufacturers, repair facilities and R&D sector.

Scope of the Conference

Research funding and commercialization

- ❖ Biomass in current power sector- development trends
 - Co-combustion with fossil fuels in pulverized bed or fluidized bed boilers
 - Gasification in reactor with moving bed – the possibilities and limitations
- ❖ Fuel cells for the distributed cogeneration – current stage and perspectives
 - High temperature fuel cells (SOFC) and membrane fuel cells
 - Fuel cell based cogeneration systems
 - Direct carbon fuel cells (DCFC)
- ❖ Clean coal technologies

Objectives of the Conference

Presentation of the results of the project: “Modernization and development of the new Energy Techniques Laboratory in the Institute of Power Engineering”

Presentation of MNiSW (Ministry of Science and Higher Education) research policy and the role of NCBiR (the National Centre for Research and Development) in the research for industry and the research results commercialization)

Integration of scientific and industry environments

Presentations and guests

There are planned presentations of representatives of the Ministry of Economy, Ministry of Science and Higher Education, the National Centre for Research and Higher Education and Wroclaw Research Centre EIT+. The presentation will encourage the commercialization of research results. The representatives of the Institute of Power Engineering will also present selected technologies and carried out research.

Laboratory for New Energy Technologies

Laboratory for New Energy Technologies, operating under the Institute, has been recently modernized and expanded as a result of participation in one of the European funds – Innovative Economy.

The project shows how the research infrastructure can directly influence the realization of research-implementation works and innovative technologies development (renovation of the fuel cell laboratory is a good example of that).

Contact person: Ms Maria Goćłowska:

maria.gocłowska@ien.com.pl

Euraxess Poland**Poland welcomes Researchers**

The European Portal Euraxess is a path to interesting for researcher’s careers in Europe. Currently Euraxess is giving a career opportunity for Polish Researchers. Euraxess Poland Portal supports the mobility of Polish researchers and provides access to information related to the transnational and intersectoral changing jobs. This change is easier, when researchers have an institutional support. Researchers and their families gain support from the side Euraxess in legal and practical matters related to mobility experience.

Website provides the information about key issues: Jobs, Services, Rights and Links.

More information about Euraxess Poland and careers is available on the website:

<http://www.euraxess.pl/>

Public Private Partnership (PPP)

The European Commission began three Public-Private Partnerships (PPP) in 2009, in order to face the consequences of the global crisis. PPP's objective was to fund research and innovation in three key sectors: manufacturing, construction and automotive, to increase competitiveness and promote employment in these sectors in accordance with the principles of sustainable development. Previous PPP's were implemented under FP7 and received grants in the amount of:

- 1.2 billion EUR in support of innovation in the industry, the future of FOF Factory;
- 1 billion EUR to promote energy-efficient buildings EEB green technologies and the development of energy-efficient systems and materials;
- 5 billion euros Green Cars (GC).

Based on the experience of the first generation of PPP, approaching a successful conclusion, it can be said that the PPP has increased the share of industry in European research and development and effectively engaged large industries and research institutions and universities.

It is important that in a number of projects submitted patent applications enabled the introduction of new technologies.

More information about PPP is available on the website:

http://ec.europa.eu/research/industrial_technologies/ppp-in-research_en.html

Recently Published

- ❖ Daniëls, B.W.; Tieben, B.; Weda, J.; Hekkenberg, M.; Smekens, K.E.L.; Vethman, P.; Costs and benefits of CO₂ - abatement measures; ECN-E--12-008, may 2012; 161;
<http://www.ecn.nl/docs/library/report/2012/e12008.pdf>
- ❖ Hagemann, M.; Coninck, H.C. de; Visser, E. de; Bakker, S.J.A.; Bilateral and multilateral processes between developed and developing countries and their progress towards achieving effective implementation of CCS; ECN-W--12-020, may 2012; p. 10.;
- ❖ Daza Montano, C.M.; Pels, J.R.; Fryda, L.E.; Zwart, R.W.R.; Evaluation of Torrefied Bamboo for Sustainable Bioenergy Production; ECN-M--12-013, may 2012; p. 11.; Presented at: World Bamboo Congress, Antwerp, Belgium, 10-15 april 2012.
- ❖ Eecen, P.J.; Bijleveld, H.; Sanderse, B.; Wind energy research developments of advanced design tools;
ECN-V--12-008 EN may 2012; 5; Published in: Europhysics News (EDPS), 2012, Ed.March-April, p.18-21.
<http://www.ecn.nl/docs/library/report/2012/v12008.pdf>
- ❖ Galagan, Y.; Coenen, E.W.C.; Sabik, S.; Gorter, H.; Barink, M.; Veenstra, S.C.; Kroon, J.M.; Andriessen, R.; Blom, P.; Evaluation of ink-jet printed current collecting grids and busbars for ITO-free organic solar cells; ECN-W--12-011; april 2012; p. 7.; Published in: Solar Energy Materials & Solar Cells (Elsevier), 2012, Ed.104, 32-38.
- ❖ Ehinger, A.; Brink, R.W. van den; Persoglia, S.; EERA joint programme on CO₂ Capture and Storage: Recent advances and the road ahead; ECN-L--12-017 may 2012; 28 Presented at: 2nd European Energy Conference, Maastricht, The Netherlands, 17 - 20 April 2012.
<http://www.ecn.nl/docs/library/report/2012/l12017.pdf>