



HELLENIC REPUBLIC
MINISTRY OF NATIONAL EDUCATION
AND RELIGIOUS AFFAIRS

GENERAL SECRETARIAT FOR RESEARCH & TECHNOLOGY



NATIONAL CENTER FOR SCIENTIFIC RESEARCH
"DEMOKRITOS"

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2nd Workshop on
“Fusion Energy Materials Science”
N.C.S.R. “Demokritos”, Athens, 13-15 January 2010

From the 13th to 15th January 2010 the 2nd Workshop of the European Project “Fusion Energy Materials Science” will take place at the National Center for Scientific Research “Demokritos”. Seventy top European Fusion Materials Researchers from **twenty-seven** Universities and Research Centers and from 17 European Community member states will participate in order to discuss the results of co operations so far and to determine further collaborative activities on Fusion Materials for the second project year

Fusion Energy production offers vital advantages as no carbon emission, no air pollution, unlimited fuel, and intrinsically safe. ITER, being built in France by an International Consortium, is a large-scale scientific experiment that aims to demonstrate that it is possible to produce commercial energy from fusion. Thus, the development of fusion energy is at a stage where the capabilities of materials will be dictating the further progress and the time scale for the attainment of fusion power. The “Fusion Energy Materials Science” project overarching objective is the creation of a European research environment in which fusion materials Science for the realization of fusion power can be carried out with optimum effect.

To enforce this objective, the goals of the project are:

- Use of advanced material characterization methods available at Large Scale Facilities, such as Synchrotron and Neutron Sources, irradiation facilities, state of the art electron microscopy centers and advanced mechanical testing centers.
 - Development of a strong European network involving Institutions and Large Scale Facilities outside of the present European Fusion Programme.
 - Development of multilateral collaborative activities.
 - Contribution to the formation of lasting and efficient European structure for fusion materials and development in close collaboration with the European Fusion Development Agreement (EFDA).
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The Project-Consortium is led by Max-Planck-Institut für Plasmaphysik (IPP), Garching, Germany. NCSR "Demokritos" co-ordinates the prominent work-package "Neutron based methods" and actively participates in other work-packages.

By supporting this Project the European Community clearly shows its commitment with the quest for new energy resources in order to guarantee a sustainable future for the Humanity. The **FEMaS-CA** started in October 2008 in the framework of the European Fusion programme and will run for 3 years with a budget of 3,25 M€ supported on 65% by the EC under FP7.

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