



BILATERAL S&T COOPERATION BETWEEN



AND



UNDER THE GENERAL COOPERATION AGREEMENT FOR SCIENTIFIC RESEARCH BETWEEN THE INSTITUTUL DE FIZICĂ ATOMICĂ (IFA), ROMANIA AND THE COMMISSARIAT À L'ENERGIE ATOMIQUE ET ENERGIES ALTERNATIVES (CEA) FRANCE

2nd JOINT SYMPOSIUM

17-18 October 2012, Magurele (IFA Council Room), Romania

The Symposium is dedicated to the progress of the running projects funded under the IFA-CEA General Agreement for Scientific Research, the presentation of the obtained results and the perspectives of the collaborations.

The program of the event includes also two invited lectures, an invited presentation, visits in the laboratories on the Magurele Physics Platform, announcements and information about the 3rd CEA-IFA Call launched on 1st of October 2012 and discussions.

The Symposium can be attended by all scientists/people interested in the cooperation between Romanian research institutions and CEA units.

Preliminary program of the Symposium:

October 17, 2012

09.00-09.30	Opening of the Symposium
09.30-10.15	<i>Invited lecture:</i> CEA involvement in French laser Science, J-P. Duraud, CEA
10.15-11.00	<i>Invited lecture:</i> Status of the ELI-NP project, Gh. Cata-Danil, University "Politehnica" Bucharest
11.00-11.20	Coffee break
11.20-13.00	Project presentations (first 5 projects) C1-01: Photosensitive azopolymers for biological applications C1-02: Study of the influence of forced and natural convection on impurity segregation and coating stability in the ingot growth of multicrystalline Silicon for photovoltaic applications C1-03: Numerical Simulations for Radioactive Waste Disposal C1-04: Electrochemical study of iron monosulfide dissolution C1-06: Efficient Handling and Processing of PetaByte-Scale Data for the Grid Centers within the FR Cloud
13.00-14.00	Lunch break

14.00-15.20 Project presentations (next 4 projects)
C1-07: TiO₂-based nanoparticles for applications in photovoltaic cells or bactericide elements
C1-08: Ferroelectric and diluted magnetic semiconductor based multiferroic heterostructures for energy applications
C1-09: Investigation of metal-ferroelectric interface at macro and nanoscale
C2-09: Study of new physics cases and preparation of SPIRAL2 experiments using the PARIS array

15.20-15.40 Coffee break

15.40-17.00 Project presentations (next 4 projects)
C2-08: Actinides and Heavy Metals interactions on proteins and their Biosensing
C2-07: Incorporated surface plasmons into core-shell fluorescent nanoparticles using microemulsion assisted photoreduction technique
C2-01: Development of innovative binders for the stabilization / solidification of low- or intermediate-level radioactive wastes containing aluminium
C2-02: Functional surfaces obtained by electroplating of nano – sized dispersed ceramic phases with metals for use in the nuclear industry to increase the corrosion and tribocorrosion resistance

17.00-19.00 Visits in laboratories, discussions

October 18, 2012

09.00-09.30 *Invited presentation:* The WEST project: the Tore Supra upgrade as a full actively cooled tungsten divertor machine, C. Grisolia, CEA

09.30-10.10 Project presentations (next 2 projects)
C1-05: Plasma and Laser Processing of Powders for Nuclear Applications
C2-04: AMS analyses of concentrations of hydrogen isotopes and other elements in tiles dismantled from the Toroidal Pump Limiter at Tore Supra Tokamak

10.10-10.30 Coffee break

10.30-11.10 Project presentations (last 2 projects)
C2-05: Creation of national standards for some emerging pharmaceutical radionuclides to ensure the radioprotection of patients and medical staffs
C2-06: Development and characterization of solid apatite matrices capable of storing inorganic pollutants: structure and adsorption processes

11.10-11.30 Closing discussions

Further information available on the web site www.ifa-mg.ro/cea.