

## **MEMORIAL SESSION - RADU BĂLESCU**

**Great Hall of the Romanian Academy  
20 September 2012, 10-12**

### Speakers:

Acad. Ionel Haiduc, Prezident of the Romanian Academy  
Acad. Florin Filip, General Director of the Romanian Academy Library  
Acad. Valentin I. Vlad, Viceprezident of the Romanian Academy  
E.S. Philippe Beke, Ambassador of Belgium  
Dirk Aerts, Coordinator, Library of the Catholic University of Leuven  
Prof. Boris Weyssow – EURATOM-EFDA  
Prof. Daniele Carati – Universite Libre de Bruxelles  
Dr. Florin Spineanu – National Institute of Laser, Plasma and Radiation Physics  
Dr. Marian Negrea, University of Craiova  
Dna Maryna Prigogine  
Toma, fizician  
Tudor Ciobanu, medalist of the Olympic Contest on Physics (2012)

## **VERNISSAGE OF THE EXHIBITION: "RADU BĂLESCU, SAVANTUL ȘI OMUL"**

**Library of the Romanian Academy, Hall Th. Pallady  
20 September 2012, 12-14**

## **WORKSHOP "ON BASIC ASPECTS OF FUSION PLASMA PHYSICS"**

**Library of the Romanian Academy, Amphitheatre Ion-Heliade Radulescu  
20-21 September 2012**

20 September 2012

15.00 – 15.50 F. Spineanu, *New methods in the investigation of the general properties of the magnetically confined plasma*

15.50 – 16.20 Heinz Isliker, *Particle and heat transport in turbulent plasma: a unified approach to deterministic, stochastic, and fractional transport*

16:20 - 16:50 **Coffee break**

16:50 - 17:30 M. Vlad, *Stochastic trapping effects on drift turbulence evolution and transport*

18.30 Event Dinner at “Casa Oamenilor de Stiinta”

21 September 2012

- 9:30 - 10:00 F. Zonca, *Nonlinear excitations of zonal structures by Toroidal Alfvén Eigenmodes*  
10.00 -10.30 B. Weyssow, *Fractional calculus representation of transport processes*  
10:30 - 10:50 **Coffee break**  
10:50 - 11:20 I. Petrisor, *Simulations of MHD turbulence. Study of anomalous transport*  
11:20 - 11:50 G. Steinbrecher, *Mean sojourn time of the charged particles in frozen turbulence*  
11:50 - 12:20 N.Pometescu, *Stochastic model for the particle transport in magnetized plasma*

**„EURATOM - MEdC Association Day” Meeting**  
**Great Hall of the Romanian Academy**  
**21-22 September 2012**

14:30 - 15:00 **M. Vlad – Overview of Euratom MEdC Association activities during 2012**  
**Plasma Physics – Chair T. Craciunescu**

- 15:00 - 15:20 D. Constantinescu, UCv - *Development of non-linear MHD models of ELM cycle, including the effect of magnetic or pellet perturbations*  
15:20 - 15:40 G. Steinbrecher, UCv - *ETG instabilities driven by parametric perturbations and the electron heat transport*  
15:40 - 16:00 C.V. Atanasiu, INFLPR - *Response of a 3D thin wall to an external kink mode of rotating plasma*  
16:00 - 16:20 Miron - *The influence of the kinetic effects on the resistive wall modes stabilization*  
16:20 - 16:40 **Coffee break**

**Plasma Wall Interaction– Chair: M. Vlad**

- 16:40 - 17:00 C.Lungu, INFLPR - *Complex characterization of Beryllium containing films of interest for plasma facing components*  
17:00 - 17:20 G. Dinescu, INFLPR - *Plasma torch cleaning: study of conversion/redeposition of removed layers*  
17:20 - 17:40 I.Tiseanu, INFLPR - *Advanced X-Ray imaging of metal coated/impregnated plasma-facing composite materials*  
17:40 - 18:00 M. Dinescu, INFLPR - *Producing and characterization of thin films of ternary and quaternary systems: W/C/Mg/O/N*

22 September 2012

**JET and DIAGNOSTICS – Chair: C. Lungu**

09:00 - 09:20 Costin C, UAIC - *Particular aspects of electrical probes in magnetized plasmas*

09:20 - 09:40 C. Ruset, INFLPR - *The behavior of W coated CFC tiles at cyclic high thermal fluxes*

09:40 - 10:00 Craciunescu T, INFLPR - *Automatic Real-Time Disruption Prediction by Fast Visible Camera Video Image Processing*

10:00 - 10:20 Soare Curuia, ICSI - *JET Gamma-ray diagnostics upgrade*

10:20 - 10:40 Stan Sion, IFIN-HH – *Tritium retention in JET divertor tiles measured by AMS and FCM+SD analyzing methods*

10:40 - 11:00 **Coffee break**

**Materials – Chair: E. Grigore**

11:00 - 11:30 A. Galatanu A, IFTM - *W-steel joining using powder metallurgy routes;  
SiC-W complex composite*

11:30 - 11:50 P. Badica, IFTM - *Spark Plasma Sintering of Fe<sub>9</sub>Cr-0.3Y<sub>2</sub>O<sub>3</sub> and Fe<sub>14</sub>Cr-0.3Y<sub>2</sub>O<sub>3</sub>  
ODS*

11:50 - 12:10 V. Mihalache, IFTM - *Effect of residual process control agent on the  
microstructure and mechanical properties of ODSFS prepared by mechanical  
alloying*

12:10 - 13:00 Final Discussions