



## **I<sup>st</sup> Course on Membranes for Fusion Fuel Cycle**

**April 13-14, 2010**

**Associazione EURATOM-ENEA sulla Fusione**

*ENEA Frascati Research Centre, Via E. Fermi, 45, Aula F88, Frascati, Roma, Italy*

### **April 13: Welcome, Membranes, membrane reactors and laboratory visit**

- 8:30 Registration
- 9:00 A. Pizzuto, Welcome of ENEA Fusion Unit
- 9:10 A. Basile, Introduction to membranes
- 10:00 V. Violante, Pd/H interaction
- 10:50 *Coffee Break*
- 11:20 S. Tosti, Pd-based membranes preparation
- 12:10 F. Borgognoni, Pd-based membranes characterization
- 13:00 **Lunch**
- 14:00 S. Tosti, Supported and laminated membranes
- 14:50 A. Basile, Membrane reactors
- 15:40 (Short introduction to Tusculum area) + visit of Tusculum area
- 17:00 Visit/exercise at Lab (membrane preparation: group 1- membrane characterization: group 2)
- 18:00 End of first day
- 19:30 **Social Dinner**

### **April 14: Modelling and design of membrane reactors, laboratory visit**

- 9:00 S. Tosti, Pd-based membrane reactors at ENEA
- 9:50 D. Demange, Pd-based membranes and membrane reactors at TLK
- 10:40 *Coffee Break*
- 11:00 S. Tosti, Modelling of Pd-based membrane reactors
- 11:50 C. Rizzello, Process applications of membrane reactors
- 12:40 **Lunch**
- 13:40 Visit/exercise at Lab (membrane preparation: group 2- membrane characterization: group 1)
- 14:40 (Short introduction to Frascati wine) + Visit of a local winery (15.30-17.00)
- 17:00 Round table/open discussion
- 18:00 End of course
- Free evening events**