

ITALIAN PHYSICS for EUROPEAN RESEARCH INFRASTRUCTURES

22-23 February 2012

CNR, in collaboration with INFN and ELETTRA, is organizing the two day workshop “**Italian Physics for European Research Infrastructures**” to discuss the current status of research using neutron and synchrotron radiation probes. The workshop will be an opportunity to consult on the potential use of current and future European facilities for research into material science and engineering, soft condensed matter bio-molecular sciences and advanced materials.

The scope is to strategically optimize, reinforce and implement the use and development of Italian research at current and future neutron and synchrotron radiation European facilities, by integrating national RI and fostering the Italian RI innovation potential and human capital. The initiative is intended to foster a public discussion on instrumentation and new projects at current and future neutron and synchrotron radiation sources for applications in science.

The event will bring together the Italian user community as well as International experts and instrument scientists operating at the material engineering facilities currently supported by Italy and working at world leading pulsed and steady neutron and synchrotron radiation sources.

Program

22 FEBRUARY 2012

- 09:00 Registration opens
- 10:30 Introduction Massimo Inguscio (CNR-DMD)
Welcome and opening
Maria Cristina Messa (CNR), Fernando Ferroni (INFN), Carlo Rizzuto (Sincrotrone Ts)
- 11:00 **ITALY AND THE EUROPEAN SR & NEUTRON FACILITIES**
Chair: Alberto Morgante (CNR-IOM, Università di Trieste)
Francesco Sette "*The ESRF in the context of its Upgrade Programme and evolving scenario in synchrotron based science*" (ESRF-Grenoble)
- 12:00 Roberto Caciuffo "*Preparing the future with neutrons*" (JRC Karlsruhe)
- 13:00 Lunch break
- 14/16:00 **SCIENCE**
Chair: Francesco Sciortino (Univ. Sapienza - Roma)
Giancarlo Ruocco "*The contribution of synchrotron radiation to the understanding of disordered systems dynamics*" (Univ. Sapienza - Roma)
Carla Andreani "*Light and heavy particles quantum dynamics in water and ice*" (Univ. di Tor Vergata - Roma)
Carlo Carbone "*Challenges and opportunities in nanomagnetism*" (CNR-ISM-Trieste)
Giovanna Fraconeto "*Structural studies of model biological membranes*" (ILL-Grenoble)

16/18:00 **NEW FACILITIES AND PROJECTS**

- Chair: Marco Zoppi (CNR-ISC)
Massimo Altarelli "*The European X-ray Free-Electron Laser: Progress Report*" (European XFEL GmbH)
Alfonso Franciosi "*The Elettra Laboratory and the FERMI @ Elettra Facility*" (ELETTRA)
Massimo Ferrario "*SPARC-LAB status and future perspectives*" (INFN)
- Chair: Maria Antonietta Ricci (Roma Tre)
Sandro De Silvestri (Politecnico di Milano), Luigi Palumbo (Univ. Sapienza-Roma)
"*Extreme Light Infrastructure - ELI*"
Giorgio Rossi "*NFFA a European Facility for Nanoscience co-located with Synchrotron/FEL/Neutron Fine Analysis Laboratories*" (Univ. degli studi di Milano)
Giorgio Paolucci "*The PIK initiative: an opportunity for the Italian Research Infrastructure users community*" (Sincrotrone Trieste)

18/19:00 **ITALIAN PROJECTS AND BEAMLINES AT IR**

- Chair: Roberta Fantoni (ENEA)
Alessio De Francesco "*BRISP at ILL*" (CNR-IOM-Grenoble)
Francesca Natali "*IN13 at ILL*" (CNR-IOM-Grenoble)
Antonella Scherillo "*INES at ISIS*" (ISIS)

23 FEBRUARY 2012

09:30 **ESS**

- Chair: Paolo Radaelli (University of Oxford)
Caterina Petrillo "*The ESS-European Spallation Source Project*" (Univ. di Perugia)
Santo Gammino "*Ion source for ESS*" (INFN)
Luigi Paolasini "*CNR - The DANTE Project for ESS*" (ESRF)

10:30 **ITALIAN PROJECTS AND BEAMLINES AT IR**

- Chair: Antonio Zoccoli (INFN, Università di Bologna)
Giovanni Mazzitelli "*BTF di Frascati*" (INFN)
Francesco D'Acapito "*GILDA at ESRF*" (CNR-IOM-Grenoble)
Giuseppe Gorini "*CHIPIR and IMAT Beamlines at ISIS*" (Milano Bicocca)

13:00 Lunch break

14:00 **INFRASTRUCTURES FOR CULTURAL HERITAGE**

- Chair: Cristina Sabbioni (CNR-ISAC)
Antonia P. Recchia (MiBAC), Andrea Granelli (COIRICH)

15:00 **LASERLAB EUROPE**

- Chair: Diederik Wiersma (LENS-INO-CNR)
Wolfgang Sandner (Max Born Institute-Berlin)

16:00 **ROUND TABLE** (Massimo Inguscio)

Maria Cristina Messa (CNR), Fernando Ferroni (INFN), Carlo Rizzuto (Elettra),
Francesco Sette (ESRF), Andrew D. Taylor (ISIS), Andrew Harrison (ILL),
Massimo Altarelli (XFEL), Colin Carlile (ESS), Giovanni Lelli (ENEA)

18:30/19:30 **SUMMARY AND CONCLUSIONS**

With **Francesco Profumo**, Ministro dell'Istruzione, Università e Ricerca