



BIOSYSTEMS, ENERGY, AND CULTURAL HERITAGE: MATERIALS ENHANCEMENT FOR TECHNOLOGICAL APPLICATION

July 3rd, 2013 – Università di Roma Tor Vergata
Aula Magna Macroarea di Scienze - Via della Ricerca Scientifica 1, 00133 Roma



9.00 Registration

Welcome address

- 9:10 S. Licoccia, Director, NAST Center
R. Lauro, Rector, Univ. of Rome Tor Vergata

Chair: P. Morales, ENEA Casaccia

- 9:20 S. Licoccia, Univ. of Rome Tor Vergata
Research and training at the NAST Center

- 9:30 P. Picozza, Univ. of Rome Tor Vergata
Heralding a new era in cosmic ray physics: PAMELA, JEM-EUSO and CSES Missions
- 10:00 R. Zamboni, CNR-ISOF
Multifunctional Composites Materials

10:30 Coffee Break

The META Project

Chair: S. Licoccia, U. of Rome Tor Vergata

- 10:50 G. Balestrino, Univ. of Rome Tor Vergata
Materials interphase enhanced properties

- 11:10 P. Morales, ENEA Casaccia
Nanotechnology for the bio-inorganic surface

- 11:30 M. Venanzi, Univ. of Rome Tor Vergata
Peptide self-assembled monolayers as a new tool for bioinspired nanotechnology

- 11:50 R. Senesi, Univ. of Rome Tor Vergata
Inelastic neutron scattering on porous anode SOFC materials at the Spallation Neutron Source – ORNL

- 12:10 C. Arcangeli /F. Buonocore, ENEA Casaccia, Rome
Ab initio calculations and molecular dynamics simulation of peptide-TiO₂ interaction

12:30 Lunch

Other Projects

Chair: A Canini, U. of Rome Tor Vergata

- 14:00 G.Novelli/M. Talamo, Univ. of Rome Tor Vergata
Improving quality of life by a translational medicine perspective

- 14:20 A. Desideri/M. Falconi, Univ. of Rome Tor Vergata
Temperature dependent protein encapsulation in self-assembled DNA nanocages

- 14:40 M. Bottini/N. Rosato, Univ. of Rome Tor Vergata
"Bionano" research lines
- 15:00 R. Lelli, Univ. of Rome Tor Vergata
Ancient biomolecules and the reconstruction of human population history
- 15:20 L. Bruno, Univ. of Rome Tor Vergata
A multidisciplinary approach for the conservation and valorization of Cultural Heritage

15:40 Coffee Break

Chair: C. Andreani, U. of Rome Tor Vergata

- 16:00 S. C. Smith, Director, CNMS (ORNL, USA)
The Center for Nanophase Materials Science: a strategic overview

- 16:30 U. Santamaria, F. Morresi, Lab. Diagnostica Musei Vaticani
From 2D-3D imaging UV/VIS/IR to microsampling analysis

- 16:50 G. Festa, Univ. of Rome Tor Vergata
Neutron and X-ray imaging for Cultural Heritage research

- 17:10 A. Mosca, Univ. of Rome Tor Vergata
Ab-initio computational methods for the calculation of optical properties applied to cultural heritage

17:30 Concluding Remarks

please register to: segreteria@centronast.it

