



Nanostructured Interfaces and Surfaces



The Science and Technology of Small Particles™



NIS Colloquium

Porous Materials for Selective Separation and Controlled Transport: from Membranes to Nanoparticles

Torino, Friday 9 May 2014,

Aula Avogadro, Via Giuria 7

Local organizers: G. Berlier, V. Brunella, G. Magnacca, D. Scalarone

9.15 – 9.30 **Gloria Berlier** *NIS and Dipartimento di Chimica – Università di Torino*
Introduction to the Colloquium

Chair: D. Scalarone *NIS and Dipartimento di Chimica – Università di Torino*

9.30 – 10.15 **Markus Antonietti** *Max-Planck-Institute of Colloids and Interfaces, Berlin (Germany)*
Materials for membrane technologies

10.15 – 10.35 **Roberto Nisticò** *NIS and Dipartimento di Chimica – Università di Torino*
Preparation and physico-chemical characterization of ordered large-pore silica films for membrane applications

Coffee Break

Chair: G. Magnacca *NIS and Dipartimento di Chimica – Università di Torino*

11.05 – 11.25 **Vittorio Boffa** *Section of Chemistry - Aalborg University (Denmark)*
Porous inorganic membranes for gas-separation systems

11.25 – 11.45 **Nina Fechler** *Max-Planck-Institute of Colloids and Interfaces, Berlin (Germany)*
Salt templated synthesis of porous materials

11.45 – 12.05 **Dominique Scalarone** *NIS and Dipartimento di Chimica – Università di Torino*
Self-assembled nanoporous polymer coatings for the fabrication of composite membranes

12.05 – 12.25 **Miriam Biasizzo** *NIS and Dipartimento di Chimica – Università di Torino*
Hybrid membranes for fuel cell applications

Lunch break

Chair: G. Berlier *NIS and Dipartimento di Chimica – Università di Torino*

14.00 – 14.45 **Mika Lindén** *Inorganic Chemistry II - Ulm University (Germany)*
Mesoporous silica nanoparticles for therapy and imaging

14.45 – 15.05 **Simona Sapino** *Dipartimento di Scienza e Tecnologia del Farmaco - Università di Torino*
MCM-41 nanoparticles for topical delivery of antioxidants

15.05 – 15.25 **Fabrizio Caldera** *NIS and Dipartimento di Chimica – Università di Torino*
Cyclodextrin-based Nanosponges: synthesis, properties and potential applications

15.25 – 15.45 **Enrica Gianotti** *DISIT - Università del Piemonte Orientale*
Functionalized mesoporous silica nanoparticles for Photodynamic Therapy

15.45 – 16.05 **Ivana Miletto** *NIS and Dipartimento di Chimica – Università di Torino*
Fluorescent dye-Zeolite L composites: properties and applications

Coffee Break

Chair: V. Brunella *NIS and Dipartimento di Chimica – Università di Torino*

16.30 – 16.50 **Peter Hesemann** *ICG - Université de Montpellier 2 (France)*
Ionosilicas for Ion Exchange Reactions

16.50 – 17.10 **Alessandro Dani** *NIS and Dipartimento di Chimica – Università di Torino*
From carbon dioxide to cyclic carbonates: a reaction catalyzed by poly(ionic liquid)s

17.10 – 17.30 **Maria Concetta Bruzzone** *Dipartimento di Chimica - Università di Torino*
Functionalized silicas for analytical and environmental applications

17.30 – 17.50 **Katia Martina** *Dipartimento di Scienza e Tecnologia del Farmaco - Università di Torino*
Preparation of cyclodextrin grafted silica: a non conventional approach toward highly functionalized materials

17.50 – 18.00 **Conclusions**

Registration (including coffee breaks) is free but requested: please send an e-mail to giuliana.magnacca@unito.it