

NANOTEC 2008.IT CONFERENCE – 10-13 MARCH 2008

PROGRAMME

Opening Day - Monday, 10 March 2008 – 14.30

Moderator: Luca De Biase, Director Nova 24, Il Sole 24 Ore

Welcome addresses

Pier Francesco Ghetti, Chancellor Ca' Foscari University of Venice

Giancarlo Galan, Governor of Regione Veneto

Conference presentation

Renato Ugo, President AIRI, Italian Association for Industrial Research

Luigi Rossi Luciani, President Veneto Nanotech

Lectures

- **Industry 2015: a Plan to burst Italian growth**
Andrea Bianchi, Head of Competitiveness Department, Italian Ministry for Economic Development
- **The market of nano-related products: situation and forecasts**
Matthew Nordan, CEO Lux Research, USA
- **The commitment of the European Commission to promote European nanosciences and nanotechnology**
Nicholas Deliyankis, DG Research, European Commission
- **National nanotechnology initiatives in industrialised Countries**
Elvio Mantovani, Director Airi/Nanotec IT and Renato Ugo, President AIRI

DEBATE AND DISCUSSION

Tuesday, 11 March 2008 – 9.15 - 12.20

GOVERNING NANOTECHNOLOGY

Chairman: Elvio Mantovani, Director AIRI/Nanotec IT

- 8.30 Registration**
- 9.15 Chairman introduction**
- 9.30 Managing the impact of nanotechnology: an overview**
John Garrod, Department for Environmental, Food and Rural Affairs (DEFRA), UK
- 9.55 The Swiss Action Plan: risk-assessment and risk-management of engineered nanomaterials.**
Christoph Meili, The Innovation Society, Switzerland
- 10.20 US Imperatives for responsible nanotechnology**
Barbara Karn, Georgetown University and USA Environmental Protection Agency (EPA), USA
- 10.45 - 11.05 Coffee break**
- 11.05 A methodological framework for assessing exposure to engineered nanoparticles**
Stefano Zuin, Consorzio Venezia Ricerche
- 11.30 Nanotechnology and risk assessment**
Iolanda Olivato, ECSIN(European Center for Sustainable Impact of Nanotechnology)/Veneto Nanotech and Giorgia Guerra, CIGA (University of Padova)
- 11.55 Trends and needs for research in occupational exposure to nanomaterials**
Sergio Iavicoli, ISPESL (National Institute for Occupational Prevention and Safety), Dep.of Occupational Medicine
- 12.20 - 13.30 Lunch**

POSTERS WILL BE DISPLAYED THE ALL DAY

NANOTECHNOLOGY FOR LIFE SCIENCES

Chairman: Maurizio Denaro, R&D Corporate VicePresident, Bracco Imaging

- 13.30 Chairman introduction**
- 13.45 Towards a true molecular biology: the impact of nanotechnology**
Fabio Beltram, CNR (INFM) NEST (National Enterprise for nanoScience and nanoTechnology)
- 14.10 Nanomedicine changing the practice of healthcare**
Hans Hofstraat, Philips Research Laboratories, The Netherlands
- 14.35 Nanostructures in diagnostic imaging**
Michael Schneider, Bracco-Geneve, Switzerland
- 14.55 Molecular packing effects on the hybridization efficiency of surface-bound DNA: implications for DNA Nano-Arrays**
Loredana Casalis, Sincrotrone Trieste/ Italian Institute of Technology (IIT)
- 15.15 In-Check™ platform: a highly integrated solution for rapid and accurate nucleic acid testing**
Enrico Alessi, STMicronics
- 15.35 - 16.00 Coffee break**
- 16.00 Nanotechnologies for high content cell based assay in functional genomics**
Roberta Carbone, Tethis
- 16.20 Nanocomposite biomaterials for tissue engineering**
Jackie Ying, Institute of Bioengineering and Nanotechnology, Singapore
- 16.40 Polymeric nanoformulates & nanostructured materials in nanomedicine and bioenvironmental applications**
Emo Chiellini, Dep. of Chemistry & Industrial Chemistry, University of Pisa, INSTM
- 17.00 Delivery strategies for siRNA in vivo**
Raymond Schiffelers, Utrecht University, The Netherlands
- 17.20 Cancer polymarkers biochips**
Giorgio Fassina, Xeptagen
- 17.40 - 18.30 Poster session**

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NANOTECHNOLOGY FOR ENERGY EFFICIENCY

Chairman: Ugo Romano, Chief Scientific Advisor - ENI

- 8.30 Registration**
- 9.00 Chairman introduction**
- 9.15 The role of nanotechnology in photovoltaics: efficiency and sustainability issues**
Francesca Ferrazza, ENI
- 9.35 From energy efficiency improvement to alternative energy sources: the SUNtoGRID project**
Pietro Di Grazia, STMicroelectronics
- 9.55 INSTM activities for highly performant SOFC fuel cells**
Ignazio Luciano Fragalà, University of Catania and INSTM
- 10.15 Molten Carbonate Fuel Cells: a call for ideas in nanotechnologies**
Paolo Capobianco, Ansaldo Fuel Cells
- 10.35 Development of new hybrid proton exchange membranes for PEMFCs**
Enrica Fontananova, CNR-ITM (Institute on Membrane Technology)
- 10.55 - 11.10 Coffee break**
- 11.10 Nano- and micro-structured catalytic materials for process intensification**
Enrico Tronconi, Polytechnic of Milano, Dep. of Energy
- 11.30 Nanostructured materials and micro-optics for the development of LED based high efficiency lighting devices**
Sabino Sinesi CRP- Centro Ricerche Plast-Optica
- 11.50 Nanofluids in microchannels - A further chance for heat transfer enhancement**
Gian Piero Celata, ENEA, Energy Dep., Institute of Thermal-Fluid Dynamics
- 12.10 21-st Century nanoValves for high efficiency amplifiers**
Carlo Falessi, Selex Sistemi Integrati
- 12.30 Moth-eye surfaces: antireflection nano-structures to increase efficiency**
Alessandro Patelli, CIVEN (Coordinamento Interuniversitario Veneto per le Nanotecnologie)
- 12.50 - 14.00 Lunch**

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NANOTECHNOLOGY FOR SUSTAINABLE MOBILITY

Chairman: Gianfranco Innocenti,

Advanced Manufacturing & Materials Micro and Nanotechnologies
Department Manager - Centro Ricerche FIAT

14.00 Chairman introduction

14.15 Presentation of the Industry 2015 project “New technologies for sustainable mobility”

Vincenzo Zezza, IPI – Institute for Industrial Promotion – Dept. for Institutional Cooperation/Innovation

14.35 Nanotechnology impact on automotive industry

Ankit A. Shukla, Frost & Sullivan, UK

14.55 Micro and Nanotech – The basics for a successful automotive industry

Carlo Torreggiani, Fiat Group Automobiles SpA

15.15 Nanostructured advanced materials for Proton Electrolyte Membrane Fuel Cells

Vito Di Noto, University of Padova, Dep. of Chemical Sciences

15.35 High surface area materials for hydrogen storage: recent advances

Adriano Zecchina, University of Torino, Dep. of Chemistry, INSTM

15.55 - 16.20 Coffee break

16.20 Nanotechnology and the promise of true multifunctionals engineered materials in aeronautics

Claudio Voto, Alenia Aeronautica

16.40 Use of nanocomposites for the production of RTM structural parts in transport applications

Jose Maria Kenny, European Centre on Nanostructured Polymers, University of Perugia, INSTM

17.00 Advanced materials for a sustainable mobility (provisional title)

Monica Fabrizio, CNR IENI (Istituto per l'Energetica e le Interfasi)

17.20 Nano-scale tuning of catalytic performance of ferrierite based catalysts for CH₄ and NO_x abatement at NG driven engines

Paolo Ciambelli, NANOMATES (Research Centre for Nanomaterials and nanoTechnology at Salerno University)

17.40 Nanosensors for car gas monitoring

Corrado Di Natale, University of Roma “Tor Vergata” and Maria Ilaria Pistelli, Centro Sviluppo Materiali

18.00 - 18.40 Poster session

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Thursday, 13 March 2008 – 9.00 - 13.15

NANOTECHNOLOGY FOR CULTURAL HERITAGE

Chairman: Mauro Matteini, CNR ICVBC (Institute for the Conservation and Promotion of Cultural Heritage)

- 8.30 Registration**
- 9.00 Chairman introduction**
- 9.15 Presentation of the Industry 2015 project “New technologies for cultural heritage”**
Livio Barnabò, PE Group
- 9.35 Nanotechnologies for preservation of cultural heritage - restoration**
Luigi Dei, University of Firenze, Dep. of Chemistry
- 9.55 Nanostructured materials for consolidation and pictorial integration in cultural heritage**
Giovanni Baldi, Colorobbia SpA
- 10.15 Innovative techniques for restoration**
Guido Biscontin, University of Venezia “Ca’ Foscari”, Dep. of Environmental Science
- 10.35 Nanotechnologies toward conservation**
Pietro Vigato, CNR ICIS (Institute of Inorganic Chemistry and Surfaces)
- 10.55 Behaviour of silica nanoparticle used as porous stone consolidant**
Elisabetta Zendri, University of Venezia “Ca’ Foscari”, Dep. of Environmental Science
- 11.15 - 11.45 Coffee break**

Round table:

Chairman: Mauro Matteini, CNR ICVBC, Guido Frigessi Di Rattalma, AIRI

- **Giovanni Baldi, Colorobbia SpA**
- **Luigi Dei, Università di Firenze**
- **Daniela Pinna, Opificio delle Pietre Dure**
- **Pietro Vigato, CNR ICIS**
- **Elisabetta Zendri, Università di Venezia**

13.15 - 14.15 Lunch

Thursday, 13 March 2008 – 14.15 - 18.15

NANOTECHNOLOGY FOR MADE IN ITALY

Chairman: Sesto Viticoli, Director of CNR Molecular Design Department

- 14.15 Chairman introduction**
- 14.30 Presentation of the Industry 2015 project “New technologies for Made in Italy”**
Alberto Piantoni, Project Coordinator - AD Bialetti
- 14.50 Nanotechnology applied to “Made in Italy”: general strategies and the contribution of INSTM**
Teodoro Valente, University of Roma “La Sapienza”, INSTM
- 15.10 Nano devices for the telecom industry**
Stefano Lorenzotti, Pirelli Labs
- 15.30 PET based nanocomposites for food and beverage packaging**
Cosimo Carfagna, CNR ICTP (Institute of chemistry and technology of polymers)
- 15.50 Premium textile products by using nanotechnologies**
Matteo Fontanella, Filatura Miroglio
- 16.10 - 16.30 Coffee break**
- 16.30 Nanotechnologies to increase the value in the footwear manufacturing sector**
Giuseppe Confessore, CNR ITIA (Institute of Industrial Technologies and Automation)
- 16.50 Chromatic properties of nanostructured titanium oxides for design applications**
Maria Vittoria Diamanti, Polytechnic of Milano, Dep. of Chemistry Materials and Chemical Engineering "G.Natta"
- 17.10 Nanofab: a tool to strengthen the Made in Italy. Goals, applications, results**
Diego Basset, Nanofab
- 17.30 - 18.15 Poster session**

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