



International Congress on Nanotechnology and Research Infrastructures

Barcelona, 26 - 28 May 2010

Draft Programme

May 26th

17:00-21:00 Registration

19:00-21:00 Welcome Reception

May 27th

09:00-09:30 Opening Lecture

Local Host: Carlos Jaime, Vicerector of Strategical Projects and Planning at Universitat Autònoma de Barcelona, Spain

Lecturer: Andreu Mas-Colell, Secretary General, European Research Council, Spain

09:30-11:00 Opening Ceremony

Welcome Addresses:

- Felipe Pétriz, Secretary of State for Research, Ministry of Science and Innovation, Spain
- Ana Ripoll, Rector of Universitat Autònoma de Barcelona, Spain
- Rafael Rodrigo Montero, President of the Consejo Superior de Investigaciones Científicas (CSIC), Spain
- Joan Roca, General Director for Research, Catalonia, Spain

Chairman: Pal Schmitt, Vice President European Parliament, Hungary

Introduction: Helmut Dosch, Director General DESY & GENNESYS Chair, Germany

Chairman: Rafael Rodrigo Montero, President of the Consejo Superior de Investigaciones Científicas (CSIC), Spain

Panel:

- Paul Rübiger, Chairman of EP-ITRE-STOA, Austria (video message)
 - Rudolf Strohmeier, Deputy Director General for Research, European Commission
 - Vlastimil Ruzicka, Vice-Minister of Education, Youth and Sports, Czech Republic
 - Lars Valdemar Kolte, Danish Agency for Science, Technology and Innovation, Denmark
 - Beatrix Vierkorn-Rudolph (tbc), Federal Ministry for Education and Research, Germany
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11:00 – 11:30 Coffee Break

11:30 - 12:45 Nanotechnology and Research Infrastructures - European and Global Challenges

Chairman: Ramon Pascual, Chairman of the Executive Commission of ALBA Synchrotron, Spain

Keynote Speaker: Cora Marrett, Deputy Director National Science Foundation, USA

Panel:

- Teruo Kishi, Advisor to NIMS (National Institute for Materials Science), JST, CSTP, Japan
 - Iain Mattaj, Chair of EIROforum and Director General EMBL, Germany
 - Robin Batterham, Chair IEA Expert Group on Science for Energy, President, Australian Academy of Technological Sciences and Engineering
 - Hervé Pero, Director (Acting) of Directorate B - European Research Area: research programmes and capacity, European Commission
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12:45-14:00 Lunch Break

14:00-17:00 Future Challenges in Nanomaterials Design

Chairman: Christos Tokamanis, Head of Unit - Operational Unit Nanosciences and Nanotechnologies, DG Research, European Commission

Introduction: Mihail Roco, Science Advisor to National Science Foundation, USA

Chairman: José Rivas, Director General of the International Iberian Nanotechnology Laboratory (INL), Portugal & Carles Miravittles, Former Director of the Institute of Materials Science of Barcelona (ICMAB of CSIC), Spain

Panel:

Topic 1: Bio/Nanomaterials for Medical Applications

- Peter Fratzl, Director Max-Planck Institute of Colloids and Interfaces, Germany

- Josep Samitier, Professor of the Universitat de Barcelona, Spain
(in collaboration with Josep Planell, Director Institut de Bioenginyeria de Catalunya, Spain)

Topic 2: Challenges in Environmental Sciences

- Guy Brasseur, Director of Climate Research Centre, Germany
(in collaboration with A.R. Ravishankara, Director of the US-DOC National Oceanic and Atmospheric Research Centre, USA)

Topic 3: Future Energy Concepts – NanoScience Research and Technology for Energy Needs – Energy Frontier Research Centre

- Eric Isaacs, Director of Argonne National Laboratory, USA
- Jens Gobrecht, Paul Scherrer Institut, Switzerland
(in collaboration with Harald Bolt, Director Forschungszentrum Juelich, Germany)

Topic 4: New Materials for Transport Technologies

- Wolfgang Kaysser, Director of GKSS, Germany
(in collaboration with Joerg Esslinger, Director Materials Engineering, MTU Aero Engines GmbH, Germany)

Topic 5: Breakthroughs in Information and Communication Technology

- Laurent Malier, Director of LETI Institute Grenoble, France
(in collaboration with Guenther Bauer, Director Solid State Physics Institute, Linz, Austria)

Topic 6: New Strategies for Nanomaterials Design: Synthesis & Simulation

- Horst Hahn, Director Institute for Nanotechnology, KIT, Germany
(in collaboration with Giorgio Rossi, Coordinator NFFA Design Study, Trieste, Italy)
- Nieves Casañ, Director of the Department of Chemistry of Solids at the Institute of Materials Science of Barcelona (ICMAB of CSIC), Spain
- Pablo Ordejón, Research Professor at the Centre d'Investigació en Nanociència i Nanotecnologia (CIN2 of CSIC and Institut Català de Nanotecnologia -ICN-), Spain

17:00-17:30 Coffee Break

17:30-19:00 Advanced Photon & Neutron Sources and Laser RIs: User Facilities for Grand Challenges in NanoScience and Technology

Chairman: Carlo Rizutto, Chair of ESFRI and Chairman of ELETTRA, Italy
Introduction: Michel van der Rest, Chair of ERF and Director General SOLEIL, France

Chairman: Hervé Pero, Director (Acting) of Directorate B - European Research Area: research programmes and capacity, European Commission

Panel: Laboratory Directors representing SR, Neutrons and Lasers

- Hideo Ohno, SPring-8/JASRI, Japan
- J. Murray Gibson, Director Advanced Photon Source (APS), USA

- José Luis Martínez Peña, Director Institut Laue-Langevin (ILL), France
 - Christian Vettier, European Spallation Source (ESS-S), Sweden
 - Massimo Altarelli, Managing Director, European XFEL, Germany
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20:00 - 23:00 Gala Dinner

May 28th

8:30-10:30 Industry Challenges in the World of Open Innovation

Chairman: Leopold Demiddeleer, Chair of the European Industrial Research Management Association (EIRMA), Belgium

Introduction: Walter Riess, IBM Research Lab Zurich, Switzerland
(in collaboration with Guenther Bauer, Director Solid State Physics Institute, Linz, Austria)
Philip Withers, Material Research Centre, University of Manchester, UK

Chairman: Manuel Serrano, Head of Returns of Scientific Programmes and Large Facilities in CDTI, Spain

Panel: Industrial Representatives

Topic 1: Chemical Industry – meeting the challenges of the future

- Ruediger Iden, Senior Vice President BASF SE, Germany
- Ramon Bacardit, Corporate Senior Vice President - Henkel AG & Co. KgaA, Germany

Topic 2: Nanomaterials for Automotive Applications

- Pietro Perlo Research Director, Fiat, Italy
- Shigeru Kimura, JASRI, Japan

Topic 3: Nanometrology and Standardisation - Needs for Infrastructures

- Gérard Rivière – Former President of CEN-STAR, Belgium
(in collaboration with Peter Hatto, CEN / Ion Bond Ltd)

10:30-11:00 Coffee Break

11:00-13:00 Nanotechnology: Societal Challenges

Chairman: Pal Schmitt, Vice President EP, Hungary

Introduction: Joël Chevrier, Vice-President Research of the Grenoble Universities Consortium, France

Chairmen: Jean Etourneau, University of Bordeaux, France *and*
Yvan Bruynseraede, K.U. Leuven, Belgium

Panel: International Authorities from Academia, Industry

Topic 1: An Assessment of US Nano-Education Directions

- Stephen J. Fonash, US/NSF Director, Centre for Nanotechnology Education - Penn State, USA

Topic 2: Nano Education in Europe

- Lars Montelius, Director Øresund University & NanoConnect Scandinavia, President NanoScale Science Division of IUVSTA
- Juergen Becker, Head of Institute for Information Processing Technology, Karlsruhe Institute of Technology KIT, Germany
(*in collaboration with Eberhard Umbach, Director General of Karlsruhe Institute of Technology (KIT), Germany*)

Topic 3: Nanotechnology: Social Awareness and Ethical issues

- Alain Pompidou, President of the Academy of Technologies and UNESCO NanoEthics Expert committee
- Anna García Hom, Governance of Risk Research Center, UAB, Spain

Topic 4: Nanosafety

Bio/Nano-Interactions:

- Kenneth Dawson, Director of the Centre for BioNano-Interactions, University College Dublin, Ireland

Medical and Pharmaceutical Aspects:

- Kostas Kostarelos, FRS & FIoN, Chair of Nanomedicine at the School of Pharmacy, London University, UK

13:00-14:00

Lunch Buffet

14:00-16:00 European & International Needs

Chairman: Francesco Fedi, President of the EU-COST Committee of Senior Officials

Topic 1: European Nanoscience and Technology Research Infrastructures

- Jean-Philippe Bourgoin, Director NanoTechnology Centre CEA, France

Topic 2: European Industrial Nanotechnology Platform at Research Infrastructures

- Leopold Demiddeleer, Chair of EIRMA, Belgium

Topic 3: European NanoScience Schools

- Farid Ouabdessalam, President of Grenoble University Consortium, France

Topic 4: Nanoscience and Technology Programme – Global Vision

- Mikhail Popov, Head of Agency for Coordination of National Nanotechnology Network, Russian Research Center Kurchatov Institute, Russia
- Pedro Montano, Director Scientific User Facilities Division, DoE, USA

First Congress Conclusions/Wrap-Up: Towards a European Action Plan

Chairman: Jose M.F. Labastida, General Director of "Plan Nacional I+D+i", Ministry of Science and Innovation, Spain

Panel:

- Carlo Rizzuto, Chair ESFRI and Chairman ELETTRA, Italy
- Christos Tokamanis, Head of Unit - Operational Unit Nanosciences and Nanotechnologies, Directorate General Research, European Commission
- Marc Van Rossum, IMEC Research Centre, Belgium

16:00-16:15 Concluding Remarks

- Montserrat Torné, General Director for International Cooperation and Institutional Relations, Ministry of Science and Innovation, Spain
- Jordi Marquet, Director of UAB Research Park, Spain

End of Congress 16:15

Registration will be opened from 8:00 till 16:00 on the 27th of May and from 8:00 till 12:00 on the 28th of May

Exhibition Poster session will be opened from 9:00 till 19:00 h on the 27th of May and from 9:00 till 15:00 on the 28th of May