

# GENNESYS

International Congress on  
Nanotechnology and Research  
Infrastructures

Barcelona, 26–28 May 2010

CCIB, Barcelona, Spain



A Grand European Initiative  
on Nanoscience and Nanotechnology  
using Neutron and Synchrotron  
Radiation Sources

<http://www.gennesys2010.eu>



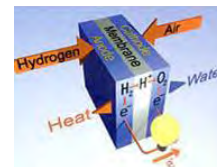
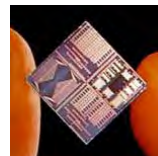
## The Mission of GENNESYS

*Establishing a strategic partnership between nanomaterials research laboratories, universities, industry and the European Research Infrastructures for the advancement of nanomaterials science and technology.*

The GENNESYS\* project has provided a European and worldwide vision for future strategies in nanoscience and nanotechnology in order to master the grand challenges of our society.

Together with more than 600 authors from universities, research labs and industry, GENNESYS has designed detailed research and technology roadmaps devising a new strategic role for existing and emerging research infrastructures – in particular, synchrotron radiation, laser and neutron facilities – which are mandatory for overcoming the key barriers in the development of advanced nanomaterials for better technologies.

The first International GENNESYS Congress on Nanotechnology and Research Infrastructures will be held in Barcelona on 26–28 May 2010 under the auspices of the Ministry of Research and Innovation of



Spain, during the Spanish EU Presidency. The congress will bring together renowned experts, key decision- and policy-makers to highlight and discuss the major conclusions and recommendations of the GENNESYS foresight project.

The GENNESYS Congress will make key recommendations on how to structure and organise nanomaterials development in Europe and how to embark on long-term research, common training strategies and open innovation. The aim is to promote a new culture in the world of nanomaterials whereby discoveries in research will smoothly be transferred into industrial innovations through human-resource networks forming around modern research infrastructure platforms.

Helmut Dosch – GENNESYS Chairman  
Jordi Marquet – Congress Chairman



\* GENNESYS White Paper,  
Editors: H. Dosch, M. H. Van de Voorde  
Max-Planck-Institute for Metals Research,  
ISBN: 978-3-00-027338-4



## Programme

### 26 May 2010

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**Registration and Welcome Reception** (in the evening)

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### 27 May 2010

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#### Opening Ceremony

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#### **Nanomaterials for New Technologies and the Role of Research Infrastructures**

- A European View
  - A Global View
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#### **Future Challenges in Nanomaterials Design: Overview – Nanomaterials Science/Technology – Perspectives/Breakthroughs**

- New Generation Energy Sources
  - New Materials for Transport Technologies
  - Challenges in Environmental Sciences
  - Future Information and Communication Technologies
  - Biomaterials/Nanomaterials for Medical Applications
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#### **Future Role of Research Infrastructures for the Advancement of Nanotechnologies**

- Synchrotron Radiation
  - Neutron Source
  - X-Ray Laser Facilities
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#### **Gala Dinner**

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### 28 May 2010

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#### **Industry Challenges in the World of Open Innovation: Nano-Industry and its bridges with Research Infrastructures**

- Promotion of Nano-Chemical Industry
  - Industrial Automotive Innovations
  - New, Modern Infrastructures for Nanomaterials Science and Technology
  - Needs for Nano-Metrology and Standardisation at Research Infrastructures
  - New Analytical Tools for Nano-Electronics and Photonics
- 

#### **Societal Implications of Nanomaterials Science and Technology**

- Challenges for Education: American, Asian and European Nano-Schools Networks
  - Socio-Economic Aspects of Nanotechnology
  - Nano-Toxicology and Consumer Risks
- 

#### **European and International Needs for Action – GENNESYS Post-Congress Strategy**

- Architecture of Modern Nanotechnology Research Infrastructures – The Need for European Nano-Centres
  - Future Development of Research Infrastructures for Nanotechnology
  - Pan-European Nanoscience and -technology Programming
  - European Industrial Nanotechnology Platforms at Research Infrastructures
  - European and International Action Plan
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#### **Concluding Remarks**

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The congress programme follows the major ideas delineated in the GENNESYS White Paper. World-renowned speakers will give introductory talks followed by a panel session with top-class representatives from science, industry or politics. The invited speakers, panel members and chairmen are authorities mainly from European countries, as well as from the Americas and Asia. All contributions given at the congress are of strategic relevance for shaping and structuring the nanomaterials research landscape.

An exhibition and poster session for industry and research institutions will be held parallel to the congress.

The congress operates under the auspices of the Spanish EU Presidency, and the opening speech will be given by Cristina Garmendia Mendizábal, Minister of Science and Innovation, Spain.

For further information,  
please visit the website  
**<http://www.gennesys2010.eu>**



## Venue of the Congress

The location of the congress is the Centro de Congresos Internacional de Barcelona (CCIB) which offers a modern, technologically advanced and architecturally unique conference venue. The conference centre was inaugurated in 2004 and is located on Barcelona's new seafront esplanade, Diagonal Mar, with approx. 2,500 hotel rooms available in its immediate surroundings.



## Barcelona as host city of the congress

The city of Barcelona offers suitable infrastructures and locations (international airport, accommodations, conference sites, etc.) to host major conferences. It boasts an attractive urban atmosphere which will highly contribute to the success of this event.



## Participation at the GENNESYS Congress

### Congress fee:

Early registration (until 31 March 2010): €200

Late registration: €250

The congress fee includes all sessions, the conference welcome package, the program booklet as well as lunches and coffee breaks. To participate in the gala dinner, we request a co-payment of €15.

### Contact:

#### GENNESYS Congress Secretariat

c/o CSIC – ICMAB

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#### Professional Conference Agency

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08006 Barcelona, Spain

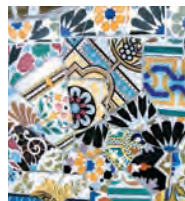
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Email: [gennesys2010@pacifico-meetings.es](mailto:gennesys2010@pacifico-meetings.es)

### Exhibition/Poster Session

The International GENNESYS Congress will provide an excellent platform for presenting your company or your institution. We look forward to sending you more information, or please consult our website at <http://www.gennesys2010.eu>.

**Please register at**  
**<http://www.gennesys2010.eu>**



## GENNESYS Congress Committees:

### International GENNESYS Council

Chair: Felipe Pétriz,

Secretary of State at the Ministry of Science and Innovation, Spain

### Scientific and Industrial Advisory Board

Chair: Helmut Dosch,

Chairman of the Board of Directors at DESY, Hamburg

### Event Steering Group

Chair: Jordi Marquet,

Director of UAB Research Park, Barcelona

## Organisers:

- Institut de Ciència de Materials de Barcelona (ICMAB) del Consejo Superior de Investigaciones Científicas (CSIC), Spain  
<http://www.icmab.es>
- Deutsches Elektronen-Synchrotron DESY, Hamburg, Germany  
<http://www.desy.de>
- UAB Research Park, Barcelona, Spain, <http://parc.uab.cat>
- International Iberian Nanotechnology Laboratory, Braga, Portugal  
<http://www.inl.int>



## Partners:

- Generalitat de Catalunya



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