



Co-funded by the European Commission – FP6

International Conference

Present Situation and Forecasts of Nanotechnology in: Materials, Health and Medical Systems, Energy

*November 4-5, 2004
Rome (Italy)*

Project Co-ordinator:

[AIR/Nanotec IT](#)

Project Partners:

[Institute of Nanotechnology \(UK\)](#)

[MATIMOP \(IL\)](#)

[Technology Centre \(CZ\)](#)

[VDI/VDE \(DE\)](#)

[VTT \(FI\)](#)

[Willems & van den Wildenberg \(ES/NL\)](#)

[Yole Développement \(FR\)](#)

conference programme

Endorsed by



MIUR

Italian Ministry of Education, University and Research

PRESENTATION

Nanotechnology is widely considered as a key enabling technology they will impact dramatically on the majority of industrial sectors and every day life. The two days International Conference will offer the opportunity to present the first results of the Nanoroadmap (NRM) project highlighting the present situation and forecasts together with relevant examples of the current research activity presented by a score of selected experts from both the research and industrial community.

NRM, co-funded by the European Commission within the VI Framework Programme (FP6), has started in January 2004 with the objective to provide coherent scenarios and technology roadmaps for the application of nanotechnology in the three selected fields (materials, health and medical system, energy) up to the year 2014 that will help the European players, both in public institutions and industry, to optimise their efforts in the three selected areas.

The picture given will be far reaching. Nanoroadmap is in fact conducted by an International Consortium formed by eight leading organisations representing eight European countries and Israel.

The Conference, organised by AIRI/Nanotec IT, will cover the following topics:

- *Nanotechnology in the world today (based on 35 country reports);*
- *Present situation and forecasts of nanotechnology and its applications in
materials
health and medical services
energy.*

The picture given will be far reaching since Nanoroadmap is conducted by an International Consortium formed by eight leading organisations representing eight European countries and Israel.

The event will bring together researchers, both from industry and academia, industry representatives (product developers and suppliers) and planners and will give ample room to a thorough discussion between the experts that are expected to participate and the flour to enrich the debate.

A dedicated poster session will offer a further opportunity to present recent developments and applications of nanotechnology in the three fields.

PROGRAMME

Thursday morning, 4 November 2004

8.30 Registration of the delegates

9.00 OPENING ADRESSES

Guido Frigessi di Rattalma
Vice President of AIRI

Fabio Pistella
President of CNR

Renzo Tomellini
Head of the Nanotechnology Unit, European Commission

9.30 INTRODUCTORY LECTURE

Elvio Mantovani
Director of Nanotec IT, Italy
Nanotechnology in the world today

MATERIALS

Laszlo Bax - Key Lecture Speaker and Session Chairman
W&W , Spain/The Netherlands
NRM materials team leader
Sectorial report: Materials

10.30 Coffee break

11.00 PLENARY LECTURES

Helmut Schmidt

Institute of New Materials, Germany

Han Hofstraat

Philips Research Laboratories, The Netherlands

Nanotechnology – from materials to applications

Dante Gatteschi

INSTM/University of Florence, Italy

Nanomagnets: the molecular way

Ian Newington

R&D Kodak Ltd, UK

Nanotechnology in Pictures

OPEN DISCUSSION

13.30 Lunch

Thursday afternoon, 4 November 2004

14.30 HEALTH AND MEDICAL APPLICATIONS

Günter Külzhammer - Key Lecture Speaker and Session Chairman

VDI/VDE-IT, Germany

NRM health and medical devices team leader

Sectorial report: Health and medical system

PLENARY LECTURES

Friedrich Simmel

University of Munich, Germany

DNA-based molecular machines and devices

Salvo Coffa

STMicroelectronics, Italy

Novel technologies for DNA microarrays

Rainer Hanselmann

Sarastro GmbH, Germany

Nanotechnological base materials and product developments for medical applications

OPEN DISCUSSION

Friday morning, 5 November 2004

9.00 ENERGY

Esko Kauppinen - Key Lecture Speaker and Session Chairman

VTT, Finland

NRM energy team leader

Sectorial report: Energy

PLENARY LECTURES

Andrew Mills

University of Strathclyde, UK

Nanosemiconductor materials for energy production and conservation

Joop Schoonman

Delft University of Technology, The Netherlands

Nanostructured materials for conversion and storage of sustainable energy

10.30 Coffee break

11.00 Piero Perlo

CRF- FIAT Research Center, Italy

Novel perspective for energy generation in transportation

Helge Lemmetyinen

Tampere University of Technology, Finland

Photovoltaic devices based on organic/polymeric materials

OPEN DISCUSSION

12.000 GENERAL OPEN DISCUSSION

Elvio Mantovani, Chairman

CLOSING REMARKS

Renzo Tomellini

Head of the Nanotechnology Unit, European Commission

13.30 Lunch

Friday afternoon, 4 November 2004

POSTER SESSION

GENERAL INFORMATION

Conference venue

The Conference will be held at the CNR, Piazzale Aldo Moro 7, in Rome.

Language

English will be the official language of the Conference.

Exhibition and sponsorship

An Exhibition is planned in conjunction with the Conference. Organisations dealing with nanotechnology (materials, processes, equipments) will have the opportunity to inform the delegates of their latest developments. For further information please contact:

Mr. Sergio La Chiusa, Honegger S.r.l.
Via F. Carlini, 1
20146 Milano - Italy
Tel.: 02 - 47791470
Fax: 02 - 48953748
info@honegger.it

The event will offer also sponsorships opportunities and the organisations interested are kindly requested to visit the Conference website: www.nanoroadmap.it

Conference proceedings

The texts of the key lectures and the abstracts of the plenary lectures and posters will be handed to the delegates on arrival at the Conference.

Registration fees

Delegate (full rate)	Euro 400.00 (+VAT 20%)
Academic and author	Euro 300.00 (+VAT 20%)
Student *	Euro 150.00 (+VAT 20%)

Registration fees include entrance to technical sessions, poster sessions and exhibition, Conference bag (including a copy of the conference proceedings), coffee breaks and lunches.

**Students will have to provide valid proof of student status.*

Conference dinner

On the evening of the 4 November 2004, a Conference dinner will be served at the restaurant **Cecilia Metella** on Via Appia Antica.

The Conference dinner price is **Euro 55.00** per person, including transfer by bus from the Conference venue (pick-up at 19.30) to the restaurant and back.

Payment and remittance

- by non-transferable bank draft or cheque, negotiable in Italy, to the order of AIRI-Associazione Italiana per la Ricerca Industriale
- by bank transfer, to the order of AIRI-Associazione Italiana per la Ricerca Industriale at "Banca Popolare di Bergamo, Gruppo BPU", Branch Roma Nomentana - Roma, account no. 000000000154 - ABI 05428 - CAB 03205 - CIN W, IBAN: IT52W0542803203000000000154, swift code BEPOIT22. The transfer order must specify the name of the delegate and the reference "NRM 2004".

A copy of the transfer order must be sent to AIRI, together with the Registration Form.

- by credit card (Carta Si, Visa, MasterCard).

Registration

Those planning to participate at the Conference should send the enclosed Registration Form by fax to the Conference Secretariat or fill it in the Conference website at their earliest convenience, but **not later than the 20 October 2004**.

Separate forms for each participant must be used. Photocopies are also accepted.

Cancellation and refund policy

A refund, less a **20%** deduction for administrative costs, will be issued for written cancellations received by **22 October 2004**. No refund is due to the delegates who notify their cancellation after **22 October 2004** or will not attend the Conference. They will receive a copy of the proceedings after the event.

Insurance

The Conference Secretariat cannot assume any responsibility for personal accident, loss or damage to the private property of participants and accompanying persons, which may either occur during or arise from the conference. Participants should therefore take whatever steps they consider necessary as regards insurance.

Hotel accommodation

An allotment of rooms has been reserved for the period of the conference for the delegates at following hotels in Rome:

Category	Hotel	Address	Single bed BB Euro/night VAT included	Double bed BB Euro/night VAT included	Allotment valid up to
4 stars	Millennium	Viale delle Provincie 103-Roma Tel: +39 0644292670 Fax: +39 0644292606	125.00	148.00	October 10
3 stars	Laurentia	Largo degli Osci 63-Roma Tel: +39 064450218 Fax: +39 064453821	110.00	125.00	October 15
3 stars	Tulip Inn Roma Globus	Viale Ippocrate 119-Roma Tel: +39 064457001 Fax: +39 064941062	85.00	95.00	October 6
3 stars	Galles	Viale Castro Pretorio 66-Roma Tel: +39 064454741 Fax: +39 064456993	130.00	166.00	October 1

The hotels reservation must be done privately and the reported costs will be applied quoting "AIRI Conference".

Accompanying person programme

A special reserved tour will be available for accompanying persons on **4 November**. The tour will carry the participants inside the Vaticano buildings to visit the **Musei Vaticani, Gallerie Vaticane, Cappella Sistina** and **Biblioteca Vaticana**.

The tour will last 4 hours, starting at 9.15 a.m. and the cost will be **Euro 42.00** per person (bus transfer from conference venue and back, English speaking guide, included).

Conference Secretariat AIRI/Nanotec IT

Viale Gorizia, 25/c – 00198 Rome (Italy)

Tel: +39 068546662 – 068848831

Fax: +39 068552949 E-mail: info@nanoroadmap.it)

Web: www.nanoroadmap.it

REGISTRATION FORM

International Conference

**Present situation and Forecasts of Nanotechnology in:
Materials, Health and Medical Systems, Energy**

Rome, 4-5 November 2004

First Name.....
Last Name.....
Affiliation.....
Fiscal Address.....
Zip/Postal Code.....Town.....Country.....
VAT n. (for invoice).....
Phone.....Fax.....E-mail.....

I will attend the Conference as:

- Delegate (full price) Euro 480.00 VAT incl. Euro.....
 Academic/Author Euro 360.00 “ “ Euro.....
 Student Euro 180.00 “ “ Euro.....

and I will participate to:

- Conference dinner Euro 55.00 “ “ p.p. Euro.....
 Accompanying person progr. Euro 42.00 “ “ p.p. Euro.....

Total Euro.....

Payment made by:

- non-transferable bank cheque, negotiable in Italy, to the order of AIRI
 bank transfer, to the order of AIRI at “Banca Popolare di Bergamo - Gruppo BPU”, Branch Roma Nomentana, account n. 000000000154 – ABI 05428 – CAB 03205 – CIN W – IBAN IT52W0542803205000000000154 – swift code BEPOIT22.
The transfer order must specify the name of the delegate and must be sent to AIRI, together with this Registration For
 credit card: CartaSì VISA MasterCard

n. expiration date: month (mm).....year (yy).....

cardholder: first name last name.....

signature.....

With reference to the law 675/96 we inform you that your personal data will be used within AIRI normal institutional activities. We also inform you that your personal data will be inserted in the list of participants relative to the present conference. If you do not want your name to appear on said list, please check the following box .

Date

Signature.....