



## Governing the Development of Nanotechnologies

March 16th 2010, iCavour Congress Centre, Rome

The workshop, jointly organised by AIRI/Nanotec IT and Istituto Superiore di Sanità, Department of Environment and Prevention, is one of the six events that will be held in Europe to present the final results of the FP7 project FramingNano: an international multistakeholder dialogue platform framing the responsible development of Nanotechnologies.

The expectations on nanotechnologies are high. It is widely shared that the promised benefits will fully materialise only if there is a governance system in place which addresses, in a timely manner, the potential risks and concerns associated with the development of nanosciences and nanotechnologies and the corresponding nanotechnology induced changes.

FramingNano, run by six international partners, started in May 2008, aimed to address the challenges of nanotechnology governance at the European level. The main outcome of the FramingNano project is the proposal for a Governance Platform.

The FramingNano Governance Platform is to enable the responsible development of nanotechnologies, making possible the realisation of the benefits they promise, while limiting the risks and concerns associated with them and remaining sensitive to public concerns and changes induced by these technologies. The Governance Platform provides a framework of principles, procedures and responsibilities which indicate how to define and implement a model of responsible nanotechnology governance in Europe and beyond.

Talks from representatives of national authorities and organisations involved in nanotechnology governance and regulation, and international experts on the matter are foreseen.

### THE WORKSHOP AIMS TO:

- present the FramingNano Governance Platform
- illustrate and discuss national activities in nanotechnology regulation and governance
- discuss the implementation of the Governance Platform in European countries
- foster dialogue and synergies among stakeholders

### CONFERENCE ORGANISERS:

- AIRI/Nanotec IT:  
*Elvio Mantovani, Andrea Porcari*
- Istituto Superiore di Sanità, Dep of Environment and Prevention:  
*Achille Marconi, Loredana Musmeci, Alessandro Di Domenico*

## PROGRAM

Registration (9.00-09.45)

Opening & welcome (09.45-10.00)

*Istituto Superiore Sanità  
AIRI/Nanotec IT*

Governing nanotechnologies (10.00 -11.00)

**The future of Nano-industries in the European Union: why implementing the Nanotechnology Governance Continuum is critical**

*Francoise Roure, Ministere de l'Economie, des Finances et de l'Emploi (France) and  
OECD - Working Party on Nanotechnologies (WPN)*

**The FramingNano Governance Platform**

*Elvio Mantovani, AIRI/Nanotec IT*

Coffee break (11.00 - 11.20)

Activities toward a responsible development of nanotechnologies (11.20 - 12.30)

**Potential health effects of nanomaterials**

*Loredana Musmeci, Dep. of Environment and Prevention, Istituto Superiore di Sanità  
Velio Macellari, Dep. of Technology and Health, Istituto Superiore di Sanità*

**Occupational, safety and health (OSH) issues in nanotechnologies**

*Sergio Iavicoli, National Institute of Occupational Prevention and Safety (ISPESL)*

**Emerging risks of nanotechnologies in the occupational settings**

*Giuseppe Castellet y Ballarà, Italian Workers' Compensation Authority (INAIL)*

**Nanoregulation: the approach of a chemical industry**

*Virginio Sarto, BASF Italia*

Discussion (12.30 - 13.30)

conference closing (13.30) and light lunch

Information and registration

[www.nanotec.it](http://www.nanotec.it) - [info@nanotec.it](mailto:info@nanotec.it) - [www.framingnano.eu](http://www.framingnano.eu)

**Dr Françoise Roure**  
Ministère de l'Économie, des Finances et de l'Emploi  
OECD - Working Party on Nanotechnologies

Dr Françoise ROURE, economist, chairs the “Technology and Society” Committee of the French High Council for industry, energy and technology. She has been elected as Vice-Chairperson of the OECD Working party on Nanotechnology (WPN) since 2007, under the Committee for Science and Technology Policy (CSTP). She represents France to the International Dialogue on Responsible Development of Nanosciences and Nanotechnologies since 2004. She chairs the European Observatory Nano Governing Board since November 2009. With Professor Jean-Pierre Dupuy, she is co-author of a report on “Nanotechnologies, ethics and industrial foresight”. She took part to the European Commission’s High Level Expert Group addressing the 2020 Next Technology Wave, and contributed to the report on “Converging Nanotechnology, a preliminary risk analysis”. Previously, she served as Secretary general of the French national regulatory authority for electronic communications, and as Head of unit for International and European relations within the Directorate general for energy and raw materials of the ministry in charge of industry

*She presented several contributions related to nanotechnology governance: “The international nanotechnology economy and public initiatives”, “New ethics for nanoscience and the future of information technologies” (published by European Science Foundation), “Between responsibility and game, converging technologies for a diverse Europe”, “Towards an appropriate corporate and public governance of Nano Risks : promoting and strengthening a multilateral approach”, “Survey on french nanotechnology governance”, “The economics of intangibles and patents : the case of nanotechnologies”, “The debate on Nanosciences and Nanotechnologies, or the legitimate trust at stake”, in December 2006 for the France-Stanford Foundation, an essay on “ Industrial economics of nanotechnology: hyperchoice and milestones for the manufacturing world at the nanoscale” and, in La revue du CNRS Droit et Nanotechnologies , « l'accès à la connaissance dans le domaine des nanotechnologies : un défi pour le droit international. (2008). “Nanotechnology governance at the crossroads”. Towards a structured dialogue on nanotechnology-induced change.(2008). « La gouvernance internationale des nanotechnologies : panorama des dynamiques institutionnelles en 2008 et perspectives » (2008). She coordinated a publication of Realités industrielles - Annales des mines, “From nanotechnology to synthetic biology : towards a responsible innovation” (2010).*

She holds two PhDs in Industrial economics and international economics from University Paris-I Pantheon Sorbonne.

**Dr Elvio Mantovani**  
AIRI/Nanotec IT

Elvio Mantovani is Managing Director of Nanotec IT (Italian Centre for Nanotechnology), a structure created in 2003 by AIRI (Italian Association for Industrial Research) to promote nanoscience and nanotechnology in Italy. To this end Nanotec IT contributes to disseminate information, foster contacts, promote cooperation and technology transfer.

Dr Mantovani has a long experience in research and research planning. He earned his University degree (“Dottore”) in chemistry at Rome University “La Sapienza” and thereafter remained in Academia for several years: as a fellow researcher at the University of Rome, post doc at York University of Toronto (Canada), and Lecturer in General Chemistry at University of Perugia.

From University he moved to industry to work first with Ciba-Geigy (now Novartis) in Basel (Switzerland) and then with ENI (Ente Nazionale Idrocarburi) in Rome. At ENI he was at the beginning senior scientist and responsible of the physical chemistry department at the Corporate Research Centre in Monterotondo (Rome) and then at the Company Headquarter (Rome) in the Development, Planning and Control division of the holding with senior managerial positions for research activities. After leaving ENI, Dr Mantovani has started an activity as a consultant in the field of technology planning and technology management. He is member of the Royal Society of Chemistry of UK (MRSC) and author or co-author of more than 20 scientific papers, 1 book, 2 patents.

**Velio Macellari**  
(ISS) Istituto Superiore di Sanità

Degree in Electronics Engineering (University of Rome, 1973).

Director of the Department of Technology and Health of the Istituto Superiore di Sanità (Italian National Institute of Health).

*Research activity:* Study and development of biomedical instrumentation and methods for the acquisition and analysis of biophysical parameters; starting from biotelemetry with implantable devices, has continued prevalently in the field of biomechanics of human movement, to include motor rehabilitation engineering and telemedicine.

Holds four patents for movement measurement instruments.

Council member of the International Society on Biotelemetry. Member of the International Society of Biomechanics, the Institute of Electrical and Electronics Engineers (IEEE), the IEEE Engineering in Medicine and Biology Society.

Reviewer for: Italian Government Institutions; Clinical Biomechanics; Medical and Biological Engineering and Computing; IEEE Transaction on Biomedical Engineering; Gait and Posture; IEEE Transaction on Neural Systems and Rehabilitation Engineering; IEEE Transactions on Control Systems Technology.

Coordinator of Italian and international research projects.

Acted as expert for the Council of Europe (2000-02) and as evaluator for various EC research programmes (1993-2010).

Has published over 150 scientific papers, in addition to congress communications and internal reports.

**Sergio Iavicoli**  
(ISPESL) National Institute of Occupational Prevention and Safety

**Job Title:** Director of Department of Occupational Medicine at ISPESL

**Organization/Institution:** ISPESL - Italian National Institute for Occupational Safety and Prevention. Department of Occupational Medicine

**EDUCATION**

1993-1998: **Ph.D. in Occupational Medicine and Industrial Toxicology** Department of Occupational Medicine - University of Cagliari - Italy. Thesis entitled: "Stress and neuroimmunomodulation: the role of C.R.H." 1989-1993: **Occupational Medicine**

**Residency**

University of Rome "La Sapienza". Thesis entitled: "Effect of low doses of cadmium and chromium on human lymphocyte activation". Graduate *Cum Laude* (70/70 Cum Laude)

1983-1989: **M.D. - Degree in Medicine and Surgery**

School of Medicine - University of Rome "La Sapienza". Thesis entitled: "Clinical epidemiological Study of a Garbage Collectors Company". Graduate *Cum Laude* (110/110 Cum Laude)

**INTERNSHIP AND CLERKSHIPS**

1989: Department of Occupational Health, University of Rome "La Sapienza".

1988: Clerkship University of London.

1986-1987: Department of Allergy and Immunology, University of Rome "La Sapienza".

**SCHOLARSHIPS AND FELLOWSHIPS**

1995: CNR Comitato Nazionale delle Ricerche- Abroad Research Fellowship

1988: University of London - Middlesex Hospital Clerkship

1988: University of Rome Exchange Student Program Fellowship

1986-1988: ENPAM Medical Student Scholarship

**LICENSE AND CERTIFICATION**

Dec. 1994: License for Medical Surveillance of Exposed to Ionizing Radiation. Rome - Italy Nov. 1989: National Medical Licensing Exam Rome- Italy

**WORK EXPERIENCE**

1994-present: **ISPESL**, National Institute for Occupational Safety and Prevention, Rome - Italy.

## **Giuseppe Castellet y Ballarà** **Italian Workers' Compensation Authority (INAIL)**

Giuseppe Castellet y Ballarà has worked as a geologist at the Italian Workers' Compensation Authority (INAIL) - Risk Assessment and Prevention Technical Advisory Office (CONTARP), since 1994, where he attends to detection and risk assessment in the workplace mainly. He is responsible for problems related to exposure assessment and sampling of particulate matter with regard to fine particles, ultrafine and nanoparticles, as well as problems related to exposure to airborne fibers. He was a member of the Regional Fiber Group (GIF) for the study of health and safety concerns associated with contact and inhalation of glassy synthetic fibers. Also he was a work group member in the research project about the presence and concentration of silica in some building materials and levels of exposure associated with typical jobs done in restructuring construction in collaboration with ISPESL and the ISS. He is a member of the Italian Network for Silica (NIS) for the study of health and safety issues associated with inhalation of dust containing free crystalline silica and the Working Group "Best Practices" in the construction industry. He is chief scientist of the assessment of the risk of inhalation of airborne dust in the project, "Review and testing of aircraft. Risk analysis in flight operations" with ENAC. He is a member of the Commission UNI U22 "Nanotechnologies" and coordinator of the Working Group GL3: "Health, Safety and environmental aspects of Nanotechnology". He is the scientific coordinator of training courses on the risks from exposure to nanoparticles. He is a member of the Technical Committee ISO TC 229 Nanotechnologies and the Working Party on Manufactured Nanomaterials (WPMN) OECD. He is a member of the Working Group of the Nanotechnology Technical Committee of Coordination REACH (Registration, Evaluation, Authorization of Chemical) of the Ministry of Health. He coordinates the INAIL National Working Group, "Emerging risks on nanotechnologies" and he is author of over 50 publications on topics of industrial hygiene and safety.

## **Virginio Sarto**

### **BASF Italia Srl**

#### **Actual position in BASF Italia Srl:**

- Business Centre Europe South Responsible Care® Coordination
- Site Manager of BASF Italia Srl - Cesano Maderno Site
- Responsible of Management Systems (Quality - Environmental - Safety - Privacy)

#### **Jobs before the current position**

- for about nine years: responsible of Quality and HES
- from 1989 to 1999: responsible of chemical laboratories (quality - research & development - ecological) in a production site of BASF Italia in Cesano Maderno

#### **Before BASF:**

- about two years in a food company, responsible for chemical laboratories and quality control
- about eight years in a Chemical Laboratory of a Public Research Institution. Mainly research activities in synthesis, derivatization and chemical characterization of carbohydrates, polymers, immobilization and characterization of enzymes

#### **Personal details**

Born in 1956 in Alessandria (Italia); chemical studies in the high school and Università Statale of Milan. Languages spoken: English and German.