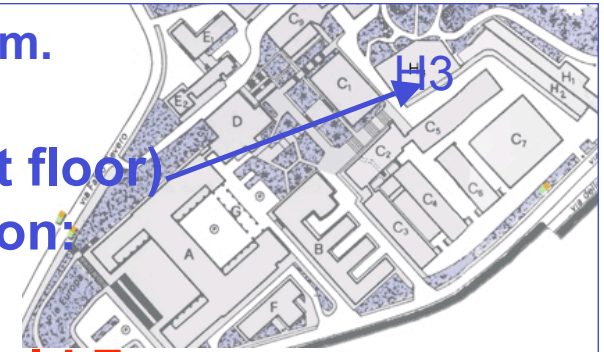




Monday 28 May 2007, 4.00- 6.00 p.m.  
University of Trieste  
Building H3, Lecture Room 1A (first floor)  
Special International Presentation:



**HIGHLIGHTS** of the **G8-UNESCO World Forum**  
on 'Education, Research and Innovation: New Partnership for  
Sustainable Development', held in Trieste, May 2007  
(In English) All students, researchers, lecturers are cordially invited

#### Program

- 16,00 Introduction: Education-Research-Innovation - **Gianrossano GIANNINI (TS/Italy)** (10')
- 16,10 Why UNESCO? Why Africa? Why Trieste?- **Paolo ALESSI (TS/Italy+UNESCO)** (10')
- 16,20 Education in the Knowledge-Based Society - **Gabriele GARBIN (TS/Italy+UNESCO)**(10')
- 16,30 Environment: Global Challenges - **Gianrossano GIANNINI (TS/Italy)** (10')
- 16,40 Innovation and Society - **Rachel OBED (Nigeria+ICTP)** (10')
- 16,50 Sustainable Development and Health - **Omer A. Ali (Sudan+ICTP)** (10')
- 17,00 Sustainable Development and Energy - **Gabriele GARBIN (TS/Italy+UNESCO)** (10')  
& **Anna Maria Novello (TS/Italy)** (5')
- 17,15 Research and Innovation: Role of Governments-**Patrizia TIBERI VIPRAIO (UD/Italy)** )(5')  
& **Rachel OBED (Nigeria+ICTP)** )(5')
- 17,25 Knowledge and Sustainable Development **Gianrossano GIANNINI (TS/Italy)** (10')
- 17,35 Science/Technology/Innovation: Perspectives for Africa-**Elie SIMO (Cameroon+ICTP)** (15')
- 17,50 Knowledge for Sustainable Development: The future **Patrizia TIBERI VIPRAIO(UD/Italy)**(10')
- 18,00 End

**Thursday, 10 May**

**Environment: Global Challenges**

*How to develop an integrated approach for research, education and innovation to meet global environmental challenges, including impacts of climate change, air and water pollution, acid rain, rain forest destruction, hazardous waste and overpopulation?*

**Chair**



**Professor Walter R. ERDELEN**  
Assistant Director-General  
for Natural Sciences, UNESCO  
PARIS

**Keynote Speakers**



**Professor Laura MARCHETTI**  
Under-Secretary  
Ministry of the Environment and  
Protection of Land and Sea  
Italy



**Mr. Michael W. OSBORNE**  
Director of the International  
Futures Programme and  
the Global Science Forum  
Organisation for Economic  
Co-operation and Development (OECD)  
FRANCE



**Lord Julian Hunt  
of Chesterton, CB, FRS**  
Professor of Climate Modelling  
Former Director-General and  
Chief Executive of the  
Meteorological Office U.K.



**Mr. Giuseppe MORSILLO**  
Head of the Director's General  
Policy Office  
European Space Agency (ESA)  
PARIS

**Rapporteur**



**Professor Sverker SÖRLIN**  
Professor of Environmental  
History  
Division of History of  
Science and Technology

School of Architecture and the Built  
Environment  
Royal Institute of Technology SWEDEN



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School of Architecture and the Built  
Environment  
Royal Institute of Technology SWEDEN

**UN multidimensional action for Environment: S&T cooperation, natural resources management, environ.l policies, assistance, climate change, health, contamination, energy, capacity building, financial assistance. Impact of human activities.**

**A fourth element in the triangle of knowledge – the concept of preservation – preservation of local knowledge, cultural heritage diversity, biodiversity, etc. → 3R's: Recover, Recycle, Reuse.**

**Integrated approach to global challenges through knowledge management. Holistic, interdisciplinary scientific approach to global challenges: climate, energy, population, poverty, health, economic growth, national security. Importance of Ethics.**

**A distinction should be made between hazard (natural severity) and vulnerability (impact on community). Integrated responses to climate changes must be developed. Start mitigation (~30 y). Risk Warning /Reduction/Adaptation. Network with Insurances.**

**Connection between Space and the Triangle of Knowledge; space-based science can have many human benefits (see slide).**

**To invest in Education/Science *is* to invest in the Environment. Urban parks study in Stockholm: best for environment is to be populated by active, well educated citizens, well organized, belonging to civic groups. Worldwide network: Stockholm, Capetown, New York, Delhi, Helsinki, New Orleans, Istanbul. Key: Motivated Citizens**

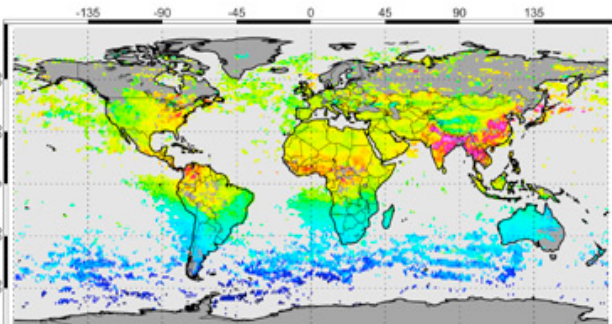
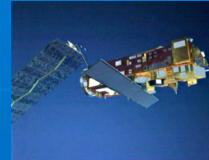


**Mr. Giuseppe MORSILLO**  
 Head of the Director's General  
 Policy Office  
 European Space Agency (ESA)  
 PARIS

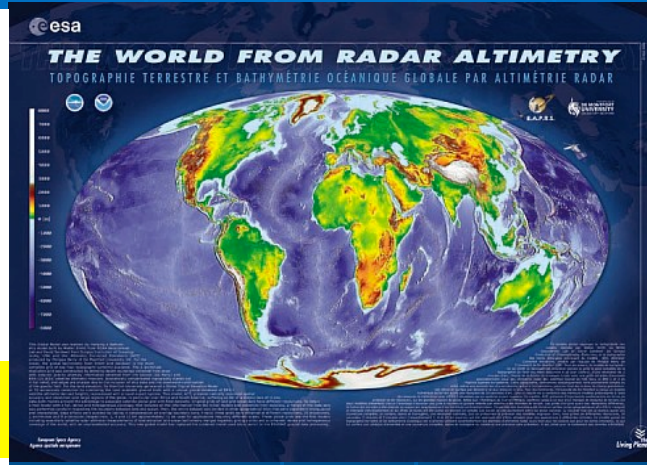
# Environment: Global challenges, the role of space *(Giuseppe Morsillo)*

## Space provides global responses to today's environmental challenges

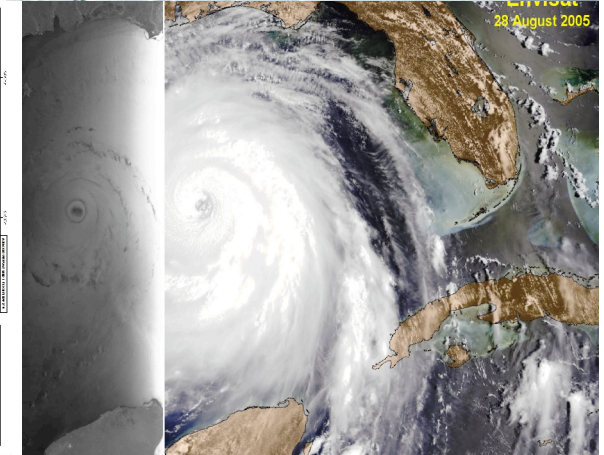
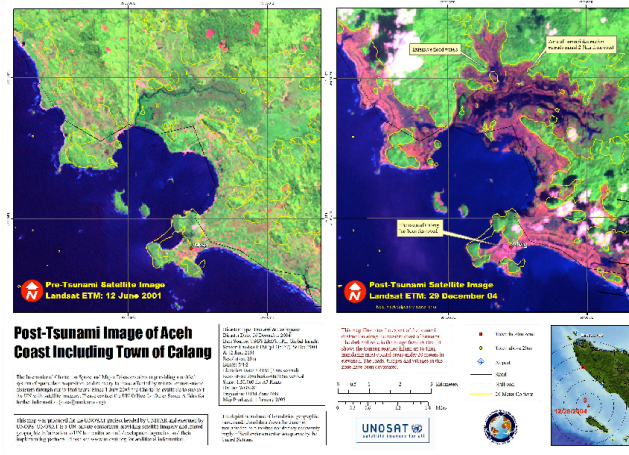
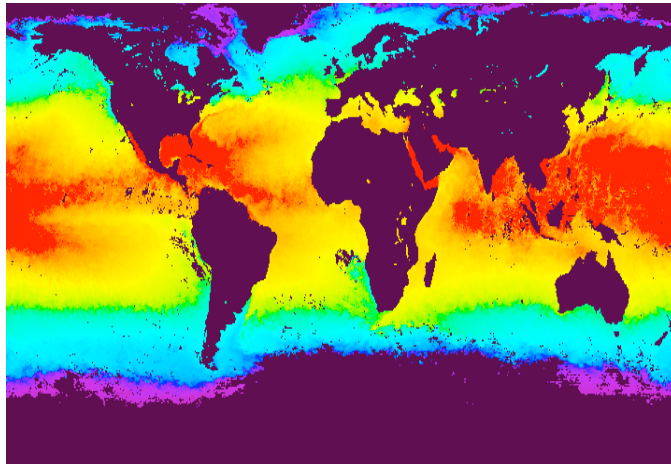
- S&T for environment / climate change
- Space-based Earth observation
- Monitoring climate change from space



**Global Concentration of Methane  
 (Envisat, courtesy KNMI)**



**Collapse of the Larsen Ice Shelf  
 (Envisat, court. Univ. Innsbruck)**



**Envisat  
 28 August 2005**

**Friday, 11 May**

## **Innovation and Society**

*How to strengthen the innovation culture in our society?*

*What role can the public sector play to accelerate innovation changes in our society and raise the level of citizens' inclusion and participation?*

*What kind of governance is necessary at national and international level to make innovation policies more effective in our societies?*

### **Chair**



**Ing. Giancarlo MICHELLONE**  
President  
AREA Science Park  
Trieste  
ITALY

### **Keynote Speakers**



**Hon. Mr. Luigi NICOLAIS**  
Minister for Reform  
and Innovation  
ITALY



**Umberto PAOLUCCI**  
Senior Chairman,  
Microsoft EMEA  
Vice President for Corporate  
and Government Strategy,  
Microsoft Corporation



**Dr. Mihail C. ROCO**  
Senior Advisor  
for Nanotechnology  
The National Science  
Foundation U.S.A.



**Dr. Robert AYMAR**  
CERN Director General  
GENEVA

### **Rapporteur**



**Professor  
Goolam T. G. MOHAMEDBHAI**  
President  
International Association of  
Universities, UNESCO PARIS



**Dr. Bruno LANVIN**  
Advisor  
Global Information &  
Communication Technologies  
World Bank