

## SCIENTIFIC PROGRAMME

Monday, 31 May 2010

9:15 – 10:00

### Opening Session

Welcome address (Co-Directors, Scientific Committee, Organising Committee, Local and University Authorities)

Debbagh A. (General secretary of the Department of High Education Executive Training and Scientific Research, Morocco)

Yahya Zniber M. (General Secretary of the Ministry of the Energy, Mines, Water and Environment, Morocco)

10:00 – 11:15

### Session I: Environmental Security: an overview of emerging risks and responses

Chair & Rapporteur: Dannenmaier E., Pedrazzini F.

Dannenmaier E., (Indiana University, USA) - Environmental Security: defining stakeholders and engaging policymakers

Pedrazzini F. (CNR IFC, Italy) - A view of the main environmental security issues and policies

Glass-Royal D. (FESS, USA & Sierra Leone) - Assessing Environmental Security

11:45 – 13:00

### Session II: Threats to water resource security and connected domains

Chair & Rapporteur: Azzam R., Ammerl T.

Azzam R., (Univ. Aachen, Germany) - The management of the water cycle: pollution, control, drought, re-use

Raco B., (CNR IGG, Italy) - Environmental security issues related to anthropogenic activities: examples from the real world

Ammerl T. (BayFOR, Germany) - Clustering EU-projects for an integrated perspective on climate change and water security in the Mediterranean and neighbouring regions

### LUNCH BREAK

14:30 – 15:45

### Session III: Large scale monitoring of Environmental risks

Chair & Rapporteur: Benveniste J., Casanova J.L.

Pavesi B. (Telespazio, Italy) - Global monitoring for environment and security: a remote sensing perspective

Benveniste J. (European Space Agency) - Space technology put into service for global water resources observations

Casanova J.L. (Univ. Valladolid, Spain) - Remote sensing for environmental monitoring: forest fire monitoring in real time

16:15 – 18:00

### Special Session: Water security simulation, part I

Facilitator: Dannenmaier, E.

Tuesday, 1 June 2010

9:15 – 11:00

### Special Session: Water security simulation, part II

Facilitator: Dannenmaier, E.

11:20 – 13:00

### Session IV: Local scale monitoring technologies: Focus on Water resources

Chair & Rapporteur: Cidu R., Essahlaoui A.

Cidu R. (Univ. Cagliari, Italy) - Overview of the determination of inorganic contaminants in different water fractions

Essahlaoui A. (University Mly Ismail, Morocco) - Geophysical Techniques for the identification and management of groundwater resources

Manstein Y. (IPGGM SB-RAS, Russia) - Groundwater assessment by geoelectrical parameters study

Soldovieri F. (CNR IREA, Italy) - Electromagnetic methods and sensors for water monitoring

### LUNCH BREAK

14:30 – 16:10

### Session V: Challenges for science and technology: an outlook

Chair & Rapporteur: Azaroual M., Abou Rayan M.

Azaroual M. (BRGM, France) - Challenges of artificial recharge of aquifers: reactive transport through soils, fate of pollutants and possibility of the water quality improvement

Abou Rayan M. (Mansoura University, Egypt) - Desalination Technologies as a Response to Water Strategy Problem (Case Study in Egypt)

Wang H.Q. (University of Le Havre, France) - Solid particles transport in porous media: experimentation and modelling

Manstein A. (IPGGM SB-RAS, Russia) - Subsurface permeability for groundwater study using electrokinetic phenomena

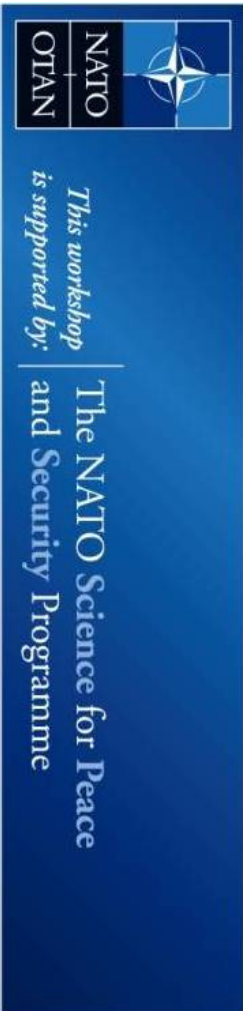
16:30 – 17:45

### Session VI: Case Studies – part 1

Chair & Rapporteur: Fanfani L., Bortnikova S.

Fanfani L. (Univ. Cagliari, Italy) - Arsenic contamination from past mining: the case study of Baccu Locci in Sardinia (Italy)

Bortnikova S. (IPGGM SB-RAS, Russia) - Acid mine drainage (AMD) migration of Belovo zinc factory (South Siberia, Russia): a multidisciplinary study



**Environmental Security: Water Security,  
Management and Control**

**Kenzi Semiramis Hotel**

**Marrakech, 31 May - 2 June 2010**

Thierry D. (BRGM, France) - Regional model of groundwater management in North Aquitanian aquifer system: water resources optimization and implementation of prospective scenarios taking into account climate change

**Wednesday, 2 June 2010**

9:15 – 10:30

**Session VI: Case Studies – part 2**

Chair & Rapporteur: Fanfani L., Bortnikova S.

Dotsika Elissavet (NCSR “Demokritos”, Greece) - Distribution and origin of Boron contents in fresh and thermal water in different areas of Greece

Bachev H. (Agricultural Academy, Bulgaria) - Environmental Management in Bulgarian agriculture: modes, efficiency, perspectives

Ali Ahmed A. (Alexandria University, Egypt) - Chemical Quality of Water resources in Egypt, Case Study of Egypt Southern groundwater oases

10:30 – 13:30

**Session VII: Environmental security: how to convert the priorities of the Mediterranean Dialogue Countries into co-operation potential**

Chair & Rapporteur: Kharaka Y., Ali W.M.

Subiela V. (ITC Canarias, Canary Islands) - Autonomous desalination and cooperation. The ADIRA project

Ali W.M. (Karlsruhe Institute of Technology, Jordan) - Environment & Water Resources in the lower Jordan Valley and its impact on the Dead Sea situation

Bzioui M. (Ministry of Water, Energy and Environment, Morocco) - Challenges and strategies for managing water resources in Morocco: comparative experiences around the Mediterranean region

Kadri M. (Boumerdes University, Algeria) - Means of mobilization and protection of water resources in Algeria

Alouini A. (INAT, Tunisia) - Water resource management in Tunisia

Kharaka Y. (USGS, USA) - Geologic Storage of CO2 to mitigate global warming and related water resources issues

**LUNCH BREAK**

15:30

**WRAPPING-UP: Where science and technology should go for preserving water resources and limiting conflicts in the future**

Summary by Rapporteurs

Round table: agree on plan and roadmap for future actions

Moderators: Bahaj T., Dannenmaier E., El Mansouri B., Scozzari A.

