

**IV INTERNATIONAL EXPERTS' MEETING
"WATER MANAGEMENT AND CLIMATE CHANGE:
DEALING WITH UNCERTAINTIES"**

**Zaragoza, 28 February, 1, 2 March 2011
Edificio Cajalón, Coso 29, Zaragoza**

Monday, 28 February

9.00 Registration

9.30 **Opening session (open to the public)**

Prof. Asit K. Biswas
President
Third World Centre for Water Management

H. E. Alfredo Boné-Pueyo
Minister of Environment
Government of Aragon

10.30 Keynote Lecture

Mr. Loïc Fauchon, President, World Water Council, Marseille, France.
"Water resources management and climate fluctuations"

11.15 Coffee break

Session I. Water Management and Climate Change: A Global Vision

**Chair: Dr. Rafael Izquierdo-Aviñó, Director, Aragon Water Institute,
Ministry of Environment of Aragon, Zaragoza, Spain.**

11.45 Mr. Avinash Tyagi, Director, Water Resources Department, World
Meteorological Organisation (WMO), Geneva, Switzerland.

"Decision-making in water sector under changing climate and
uncertainty"

12.15 Prof. Malin Falkenmark, Professor, Stockholm International Water
Institute (SIWI), Sweden.

"Societal water security under altering climate: mastering the twin
challenge of creeping change and increasing variability"

12.45 Discussions

14.00 Lunch

**Session II. Planning of Water Resources in relation to Climate Change –
International Experiences**

Chair: Mr. Avinash Tyagi, Director, Climate and Water Department, WMO, Geneva, Switzerland

15.30 Dr. Goh Pin Cheh, Assistant Director, Policy and Planning, Public Utilities Board (PUB), Singapore.
“Meeting the challenges of climate change in Singapore”

16.00 Dr. Pierre Chevallier, Director of Research, Institut de Recherche pour le Développement, Montpellier, France.
“Water management in the Himalayas under climate constraints: case studies in Pakistan and Nepal”

16.30 Dr. Felipe Arreguín, Deputy Director General for Technical Affairs, National Water Commission, Mexico City, Mexico.
“Impacts of climate change in the hydrologic cycle in Mexico”

17.00 Mr. Luc Bas, Director of European Programmes, The Climate Group, Brussels.
“Mitigation and Adaptation competing for Water”

17.30 Discussions

18.30 End of working day

20.30 Welcoming dinner

Tuesday, 1 March

Session III. Planning of Water Resources in relation to Climate Change – Spanish Experiences

Chair: Mr. Francisco Aranda-Martín, Head, Planning and Development Department, Aragon Water Institute, Zaragoza, Spain

9.00 Dr. Ernesto Rodríguez-Camino, Head, Department of Climate Evaluation and Modelling, Spanish Meteorological Agency (AEMET), Madrid, Spain.
“Regional projections of climate change: implementation in terms of water resources”

9.30 Dr. Miguel García-Vera, Head, Office of Water Planning, Ebro River Basin Confederation, Zaragoza, Spain.
“Hydrological planning as a tool for climate change adaptation: the case study of the Ebro river basin”

10.00 Prof. José M. Cuadrat, University of Zaragoza, Zaragoza, Spain.
“Water scarcity and droughts in the Ebro Valley”

10.30 Prof. Domingo F. Rasilla-Álvarez, University of Cantabria, Santander, Spain.

“Initial assessment of monthly streamflow changes of Iberian rivers from two climate model outputs”

11.00 Discussions

11.30 Coffee break

Session IV. Experiences on Water Management in terms of Adaptation to Climate Change

Chair: Dr. Pierre Chevallier, Director of Research, Institut de Recherche pour le Développement, Montpellier, France.

12.00 Mr. Aalt Leusink, Director, LOASYS, Management & Advice in Water and Environment, The Hague, the Netherlands.

“The interconnected delta system of the Netherlands, present and future developments”

12.30 Dr. Kevin Parris, Principal Economist, Policies and Environment Division, Trade and Agriculture Directorate, OECD, Paris.

“Climate change and water: implications for agriculture across OECD countries”

13.00 Dr. Anil Kumar Singh, Deputy Director General (NRM), ICAR, KAB II, IARI Campus, New Delhi, India.

“Impact of global climate change on Indian agriculture”

13.30 Discussions

14.00 Lunch

Session V. The Role of the Regional Governments in Water Management and Climate Change

Chair: Ms. Marina Sevilla-Mollet, Director General, Environmental Quality and Climate Change, Ministry of Environment of Aragon, Zaragoza, Spain.

15.30 Mr. Francisco Aranda-Martín, Head, Planning and Development Department, Aragon Water Institute, Zaragoza, Spain.

“Water management and climate change in the Aragon Strategy of Climate Change and Clean Energies”

16.00 Dr. Iñaki Gili, Deputy for Technical Affairs, Catalonia Office for Climate Change, Government of Catalonia, Spain.

“Towards and strategy of adaptation in Catalonia: Reflections on water resources”

16.30 Dr. Emanuele Cimatti, Expert on Water Resources, Protection and Conservation Service of Water Resources of Emilia-Romagna, Bologna, Italy.

“The WATER CoRe Project. An European opportunity of regional cooperation”

- 17.00 Ms. Maruxa Cardama, Secretary General, nrg4SD-Network of Regional Governments on Sustainable Development, Brussels, Belgium.
“Experiences of regional collaboration with Latin America and the Caribbean regions”
- 17.30 Discussions
- 18.30 End of working day

Wednesday, 2 March

Session VI. Experiences on Water Management in terms of Adaptation to Climate Change

Chair: Dr. Kevin Parris, Principal Economist, Policies and Environment Division, Trade and Agriculture Directorate, OECD, Paris, France.

- 9.00 Prof. Juan Valdés, Department of Hydrology and Water Resources, University of Arizona, United States.
"Climate variability and change in semi-arid regions hydroclimatology"
- 9.30 Mr. Javier Celma-Celma, Director, Agency of Environment and Sustainability, Government of the city of Zaragoza, Spain.
“Adaptation to climate change in the sustainable management of water resources in Zaragoza”
- 10.00 Dr. James Horne, Former Deputy Secretary, Water, Department of Sustainability, Environment, Water Population and Communities, Australian Government, Canberra.
“Australian Water Policy in a climate change context”
- 10.30 Dr. Rajiv Gupta, Secretary General, Department of Climate Change, Government of Gujarat, India.
"Climate change and water resources management in Gujarat: A case study"

11.00 Discussions

11.30 Coffee break

Session VII. Experiences on Water Management in terms of Adaptation to Climate Change

Chair: Mr. José Ramón Picatoste, Head, Adaptation Department, Spanish Office for Climate Change, Spanish Ministry of Environment, Marine and Rural Affairs, Madrid, Spain.

- 12.00 Dr. Evangelos Baltas, Associate Professor, School of Agriculture, Aristotle University of Thessaloniki, Greece.
“Impact of climate change on water resources in Greece”

12.30 Dr. Rosa Pino-Otín, Director, Institute of Environment, University of San Jorge, Zaragoza, Spain.

“Evaluation of water quality in the Ebro river basin and its relation to the Aragon Wastewater Management Plan”

13.00 Dr. Helena Caballero, Advisor, UN-Water Decade Programme on Advocacy and Communication, United Nations Office to Support the International Decade for Action "Water for Life" 2005-2015, Zaragoza, Spain.

"Information and communication of adaptation strategies for climate change: good practices”

13.30 Discussions

14.00 **Closing Session (open to the public)**

Prof. Asit K. Biswas, President, Third World Centre for Water Management, Atizapán, Mexico.

Summary of the discussions

Final Statements

Dr. Alfredo Boné-Pueyo, Minister of Environment, Government of Aragon.