

Agenda

Thursday 20 November

Welcome: 9 am - 9.30 am

Introduction by Pascal Viné, Director General of Cemagref (FR)

10.30 am – 1 pm/**Session 1**

Water and anthropogenic pressures

The DPSIR model (Decisive, Pressure, State, Impact, Response)

Chaired by Patrick Lavarde/Director General of the National Water and Water Environment Board (ONEMA)/(FR)

This model reports on the status of hydrosystems subjected to anthropogenic pressures, themselves determined by major items of development policies or global change factors (PAC, DCE, etc.). These pressures trigger impacts on the functioning and the dynamic of hydrosystems and bring responses in functional terms. All these components merge in the DPSIR cycle, the functioning of which we will explore, starting off with “pressure”.

▣ Large-scale relationships between anthropogenic pressures and the ecological state of waterways: consequences for stewardship

Jean-Gabriel Wasson/Cemagref (FR)

▣ Consequences of changing public policies on the pressure placed on hydrosystems

Philippe Quevauviller/Environment DG, the European Commission (to be confirmed)

▣ Drought and water shortages, and the consequences for hydrosystems and for water usage

Dr Undala Alam/University of Cranfield (UK)

▣ Ecotoxics and pollutants

Théo Brock/Alterra (NL)

▣ Debate with Gulnara Roll (EE)

▣ Lunch/1 pm – 2.30 pm

2.30 pm – 6 pm/**Session 2**

Water and conflicts of usage

Chaired by Wolfgang Stalzer/International Commission for the Protection of the Danube River (ICPRD)/(AT)

This theme is key to understanding the concurrent allocation of water resources in catchment areas, particularly on an intermediary scale. Competition for access to water resources is also expressed by the game-plan of the players involved, whose stances and behaviours we need to understand in order to better conceive, define, implement and evaluate policies for water and land development. Society is gradually realising that this competition between different forms of

usage globally concerns water environments, the decisive factors involved with them and the services they bring.

▣ **Collective stewardship of water usages, the principle of equity and equality**

Dr Geoff Syme/CSIRO (AU)

▣ **Hydroelectricity and the quality of water environments**

Dr/Pr Stefan Schmutz/BOKU (AT)

▣ **Player strategy and collective decisions on the catchment area scale**

Dr Bruce Lankford/University of East Anglia (UK)

▣ **Irrigation and natural environments: how not to choose.**

Julie Trottier, Cemagref (FR)

▣ **Debate**

▣ **Learning how to share**

Erik Orsenna, writer and member of the Académie Française (FR)

▣ **Closing of the 1st day by Michel Barnier, Minister of Agriculture and Fisheries (FR)**

▣ **Cocktail**

Friday 21 November

▣ **Day opening by Jean-Louis Borloo, Minister of State, Minister for Ecology, Energy, Sustainable Development and Land Development (FR) (to be confirmed)**

▣ **Welcome/9 am – 9.30 am**

10 am – 12.30 pm/**Session 3**

Water and sustainable forms of engineering

Chaired by Juha Kämäri from the Finnish Environment Institute (SYKE)/(FI)

This session is dedicated to ecotechnologies in the field of water stewardship. This is a broad theme which includes, for example, developments for captors to measure, characterise and evaluate flows and run-offs, or again the structuring of information acquired by Environmental IT Systems. Biochemical processes are also covered, as are forms of land development that are directly dedicated to the stewardship of water resources and the related risks.

▣ **Reducing the input of nutrients from farming in water environments. Management techniques and environmental information systems.**

Dr Brian Kronvang/NERI (DK) (to be confirmed)

▣ **Biological purification of water**

Dr/Pr Helmut Kroiss/University of Technology, Vienna (AT)

▣ **Equipment for sustainable irrigation**

Enrique Playan/CSIC Zaragoza (ES)

▣ **The dynamic slowing of flood-waters**

Bernard Chastan/Cemagref (FR)

▣ **Debate with Dominique Gâtel, Veolia Eau (FR)**

▣ **Lunch/12.30 pm – 2 pm**

2 pm – 4.30 pm/**Session 4**

Water and Territories

Chaired by Marc Lucotte from the University of Quebec, Montreal (CA)

The goal of this session is to examine the relationship between our knowledge of how hydrosystems work and territorial functioning in order to shed light on public policies which are themselves split between the two. Dealing with this issue supposes, on the one hand, a systemic approach to the pairing of water and territory and, on the other, inter-disciplinary approaches between universal science, living sciences and economic and social sciences.

▣ **Hydrosystems, the functions of water and the critical links with options for territorial development**

Pr Dietrich Borchardt/UFZ (DE)

▣ **High water, flooding and management of ground occupancy**

Pr Edmund Penning Rowsell/University of Middlesex (UK)

▣ **The notion of crisis in relations between water and territories**

Pr Alan Jenkins/CEH (UK)

▣ **The "developed system": water crossing territory**

Cees Kwakernaak, Alterra (NL)

▣ **Debate with Jean Serret, Chairman of the Community of Communes from the Drôme Valley (FR)**

▣ **Final roundtable discussion and conclusion chaired by Pr Pat Nuttall, Director of the CEH and Chairwoman of PEER/(UK)**

With Arthur Askew (AU), Chairman of the IAHS, Jean Wencker, France Nature Environnement (FR), Diane d'Arras*, Suez-Environnement (FR), Teodoro Estrela*, Director of Water (ES) and André Flajolet* (FR), Member of Parliament

(*to be confirmed)