

## AIMED TO

Individuals interested in the history, management, engineering or politics of water. More specifically:

Geographers and historians.

Managers and economists.

Engineers.

Students of the above-mentioned disciplines.

Anyone concerned about the sustainable use of water and its historical context.

## DOCUMENTATION

All conferences in the workshop will be included in a book to be published afterwards.

All participants will receive a full provisional version of the book.

## FEES AND RIGHTS OF PARTICIPATION

The registration fee includes the right to assist to the workshop and receive the associated documentation.

### Registration fees

**University students: 100 €\***

**Other participants: 200 €**

\*Students that can provide proof of their current status in their university.

All participants will receive a certificate of assistance.

Payment will be handled by the Caja de Ahorros del Mediterráneo.

## ORGANIZED BY

Institute for Water Technology  
(Polytechnic University of Valencia)

University of Alicante

## VENUE

The workshop will be held at the "Salón de Actos" of the Aulario II building of the University of Alicante, located at its campus in San Vicente del Raspeig.



## WORKSHOP SECRETARIAT

Instituto Tecnológico del Agua  
Universidad Politécnica de Valencia  
Tel.: 963.879.898  
informacion@ita.upv.es

## REGISTRATION

Registration can be arranged through our website. Payment of registration fees can be made by credit card or bank transfer. Please visit:

[www.cursos-agua.com](http://www.cursos-agua.com)

## SUPPORTED BY



## International Workshop

# WATER ENGINEERING AND MANAGEMENT THROUGH TIME. LEARNING FROM HISTORY

ALICANTE, Spain  
30th May - June 1st  
2006

## SPONSORED BY



## CHAIRMAN AND SECRETARY

**Prof. Enrique Cabrera**  
*Chairman, Professor of Fluid Mechanics*

**Dr. Francisco Arregui**  
*Secretary, Researcher*

**Institute for Water Technology**  
*Polytechnic University of Valencia*

## INTRODUCTION

In the 21st century, Society has to face a major challenge, namely, to keep pace with the last decades' economic development without jeopardising the future generations' prospects. In other words, it has to take on commitment to sustainable development. Indeed, this challenge is not an easy one, since the interests of today's Society, mainly concerned with short-term results, are quite different from those of the Society of the future, as has been effectively seen recently. Aiming at the reconciliation between short-term and medium-term goals, and thus being able to build a more prosperous and fair future, in 1987, the UN World Commission on Environment and Development issued a report entitled "Our Common Future", where the main principles that Society in general and political leaders in particular should abide by were set forth. Unfortunately, although those principles were clearly expressed at the time and are well-known now, they still remain ignored.

In this context, water is the major renewable natural resource but the most threatened, which makes it one of the main protagonists of today's world. A Seminar will be held where experts from all over the world will review how water has been managed throughout history and how many warning signs have gone off recently. Water demand is on the increase while its availability dwindles down and, what is worse, its quality and this applies to both superficial and underground water deteriorates. These are not minor difficulties, and if current water policies remain unmodified, things can get worse as a result of climatic changes that nowadays no-one can deny. And this is not just Spain's problem, since it affects populations all around the globe.

The seminar, dealing with the History of Water Management and Engineering, will explore the pair technology / water use (an indivisible pair, since the first member of the binomial determines the second), which, in the light of the knowledge available in the 21st century and with a conception focused on the near future, can go beyond the limits set by nature itself. The history of water reviewed in the context of this Seminar will help understand the importance water has had in every possible context and civilization in the past, an understanding that should undoubtedly lead to appreciate the true value of the most highly prized among natural resources. For the ultimate goal of the Seminar is "to learn from history", approaching the problem from a pragmatic point of view, far from the political and social interests which, unfortunately, are usually linked to water.

## PROGRAMME

### TUESDAY 30 OF MAY

- 09,00 h. Registration
- 09,30 h. Presentation of the workshop
- 09,45 h. **Introduction to the water engineering and management history. Scope of the Workshop**  
*Prof. Enrique Cabrera*  
*Institute for Water Technology, Valencia, Spain.*

### WATER ENGINEERING AND MANAGEMENT THROUGH TIME

- 11,00 h. **Water engineering and management in the early civilizations**  
*Prof. Pierre Louis Viollet*  
*Ecole National des Ponts et Chaussées, Paris, France*
- 12,30 h. **Water engineering and management in the old Egypt**  
*Prof. Larry Mays*  
*Arizona State University, USA*
- 16,30 h. **Water engineering and management in the classic civilizations**  
*Prof. Dr.-Ing. Henning Fahlbusch*  
*University of Applied Sciences, Lübeck, Germany*
- 18,00 h. **Water engineering and management in al-Andalus**  
*Prof. José Roldán*  
*Universidad de Córdoba, Córdoba, Spain*

### WEDNESDAY 31 OF MAY

- 09,00 h. **Water engineering and management in the latest centuries (XIX and XX)**  
*Prof. Willi H. Hager*  
*Swiss Federal Institute of Technology,*  
*Zurich, Switzerland*

### MAIN WATER CHALLENGES FOR THE 21st CENTURY

- 10,30 h. **Water engineering and management. Present and future trends.**  
*Dr. Concepción Bru*  
*Universidad de Alicante, Spain*

- 11,45 h. **Water and agriculture. Present and future trends.**  
*Prof. Martín Sevilla*  
*Universidad de Alicante, Spain*
- 13,00 h. **Water and cities. Present and future trends.**  
*Prof. Steve Buchberger*  
*Dpt. of Civil and Environmental Engineering,*  
*Cincinnati, USA*
- 16,30 h. **Water research needs in Europe. Present and future trends.**  
*Mr. Avelino González*  
*European Commission, Research Directorate General*  
*Brussels, Belgium.*
- 18,00 h. **Water and governance in the XXI century**  
*Dr. José Esteban Castro*  
*University of Newcastle, United Kingdom*

### THURSDAY 1 OF JUNE

- 09,00 h. **The future of long-range hydraulic interconnections.**  
*Dr. Michele Fanelli*  
*Water Engineering Consultant, Milano, Italy*
- 10,30 h. **Water challenges in the XXI century**  
*Dr. Philip Burgi*  
*Water Resources Consultant, Colorado, USA*

### ROUND TABLE

- 12,00 h. **Water engineering and management through time. Learning from history.**

*Chairman: Mr. Juan Antonio Gujjarro*  
*General Director de Aguas de Alicante.*

*All sessions will be simultaneously translated in English and Spanish*