



MINISTERIO DE
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DIRECCIÓN GENERAL DE OBRAS
HIDRÁULICAS Y CALIDAD DE LAS
AGUAS



International Congress on Conservation and Rehabilitation of Dams

MADRID

NOVEMBER 11TH-13TH, 2002

SOCIEDAD ESPAÑOLA
SEPREM
DE PRESAS Y EMBALSES



Second Announcement

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Spain has, nowadays, approximately about one thousand Big Dams, plus a large number of Reservoirs of a smaller size. Our country, has a well known tradition in the construction and operation of dams, with an important number of them since the Roman Empire. Two of them: Proserpina and Cornalbo, probably built in the II Century a.C , still provide the water supply to the city of Mérida. Also, the dam of Tibi, works concluded in 1594 and 41 m. high, was for two centuries the highest in the world.

These and many other dams, which are not necessarily so old, have suffered all along the years the destructive action of nature, with the result of a more or less important gradual and logic damage. Therefore, there is a constant and essential need of conservation, supervision and rehabilitation services in order to guarantee the operation, supply and security measures.

It is well known that during this past Century, the 60's, Spain has kept a high dam construction rate which has decreased in the last decade. The recently approved National Hydrologic Plan contemplates the construction of dams and other works in order to correct the hydrographic differences in the diverse areas of the country. In any case, the important heritage of dams in our country, require more and more attention, therefore it is expected that the conservation and rehabilitation of these dams will be main goals for scientists, technicians, consultants and constructors in the coming years, not only in Spain but in any other country where there is a certain number of dams several years old.

For this reason, the Spanish Ministry of Environment, by way of the Secretary of State for Water and Coasts, Directorate General of Hydraulic Works, and the Spanish Association of Dams and Reservoirs organize this International Congress on the Conservation and Rehabilitation of Dams as an international forum for the exchange of experiences, research works and information on this subject.

On behalf of the organizers, I am happy to invite you to attend to this Congress, enjoy a pleasant stay in Madrid, and if you still have some spare time, to join us in the Technical Tour to the Main Spanish Hydrographic Basins of the rivers Tajo, Guadiana and Guadalquivir.



Mr. José Antonio Llanos Blasco
Chairman of the Organising Committee

Introduction

Water, a natural resource, has long since stopped being a free resource and turned into an economic good, related to the needs which in specific areas can be a restrictive factor for economic growth. An efficient application of this resource, either for alternative use as well as for the allocation of investments in order to guarantee the availability of water, to avoid negative impacts on its quality and on the environment, are the major demands which should be taken into consideration in all the water policies of modern societies.

The water planning provided by dams regulates this resource. Nevertheless, this is always a matter of debate where all points of view are involved, financial, environmental and sociological.

A dam is designed and constructed for its operation in compliance with the regulations in place for conservation, maintenance, inspection and all other requirements.

The operation of dams and reservoirs is a complicated task, which comprises many different aspects as well as varied and multiple circumstances.

The management of water supply, control of floods and droughts and security measures are the main tasks during the average life span of a dam or reservoir, as well as the maintenance and conservation of the infrastructure and facilities. All these aspects have to be interrelated and integrated as a whole.

Any type of construction has a limited life span during which all the functions for which it is designed should operate to complete satisfaction. Once this period is over, and sometimes even before, operating failures, more or less important, may occur and have to be repaired. This may force a revision of the criteria adopted for the original design, and to study structural and non-structural measures which have to take into consideration the environmental, operational and security aspects.

The **Spanish Society of Dams and Reservoirs (SEPREM)** is a participative and open association for all professionals and entities whose activities are related to dams and reservoirs, with the aim of contributing to make the public conscious of the importance of dams and reservoirs. Therefore, some of SEPREM's main objectives are to consider and debate water resources as a financial source, the importance of hydraulic infrastructure, technology in the design, construction, maintenance and operation, the social and environmental implications, sustainability and compliance with future needs.

In consequence, the **Spanish Society of Dams and Reservoirs (SEPREM)**, in cooperation with the Secretary of State for Water and Coasts, the Directorate General for Hydraulic Works and Water Quality of the Spanish Ministry of Environment, is organizing the **International Congress on Conservation and Rehabilitation of Dams**, to be held in Madrid, from November 11 - 13th, 2002, at the **Palacio de Congresos de Madrid**, and has the pleasure to invite you to attend.



Mr. Joaquín Díez-Cascón
President of SEPREM

Organising Committee

- Chairman** His Excellency Mr. José Antonio Llanos Blasco
Chairman of the Hydrographic Confederation of the Tagus
Ministry of the Environment
- Members**
- Mr. Fidel Sáenz de Ormijana y Valdés
Vice-President of the Spanish Association of Dams and Reservoirs
 - Mr. José María Díaz Ortiz
Assistant General Manager of Projects and Works of the General Office of Hydraulic Works and Water Quality
 - Mr. Ramón Pérez-Cecilia Carrera
Technical Director of the Hydrographic Confederation of the Duero
 - Mr. Gonzalo Soubrier González
Technical Director of the Hydrographic Confederation of the Guadiana
 - Mr. Arturo Canalda González
Executive Manager of Canal de Isabel II
 - Mr. Miguel Cabrera Cabrera
Head of the Area of Hydraulic Public Domain Management of the Hydrographic Confederation of the Tagus
- General Secretary**
- Mr. Jesús Penas Mazaira
Inspector of Dams of the General Office of Hydraulic Works and Water Quality

Technical Committee

- Chairman** Mr. Jesús Yagüe Córdova
Assistant General Manager of Hydraulic Public Domain Management
General Office of Hydraulic Works and Water Quality.
Ministry of the Environment
- Members**
- | | |
|-------------------------------------|----------------|
| Mariano de Andrés Rodríguez-Trelles | Spain |
| Francisco Rodrigues Andriolo | Brazil |
| Cándido Avendaño Salas | Spain |
| José Ignacio Díaz-Caneja Rodríguez | Spain |
| Jorge García Orna | Spain |
| Arturo Gil García | Spain |
| Felipe Mendaña Saavedra | Spain |
| José de Castro Morcillo | Spain |
| Jean-Paul Morin | Canada |
| Laurent Mouvét | Switzerland |
| José Rocha Afonso | Portugal |
| Moisés Rubín de Célix Caballero | Spain |
| Giovanni Ruggeri | Italy |
| Geoffrey P. Sims | United Kingdom |
| Chris Veesaert | United States |

Congress Topics

Structure of Sessions

TOPIC 1

PREPARATORY WORK AND REGULAR MAINTENANCE, to include:

- Applicable laws.
- Surveillance, inspection and diagnosis tasks.
- Risk assessment and prioritisation of investments.
- Maintenance and preservation. Regular actions on basin, vessel and dam.

TOPIC 2

IMPROVED DAM CAPACITY AND FUNCTIONING OF DRAINAGE SYSTEM,

to include:

- Land filling of dams and drainage systems and extraction of deposits.
- Recovery of functioning of drainage systems.
- New trends in the design and building of hydromechanical units.
- Improved drainage capacity and lamination of waterways.
- Adaptation to bear spills due to overflows.
- Rise of dams.

TOPIC 3

IMPROVED STABILITY AND IMPERMEABILITY, to include:

- Deterioration evolution processes.
- Actions on vessel.
- Actions on foundation.
- Actions on masonry dams.
- Actions on concrete dams.
- Actions on loose material dams.

All aspects will be considered from the technical, financial and environmental perspectives, with special attention to practical experiences and results obtained.

Languages

- Sessions will be held in ENGLISH and SPANISH, with simultaneous translation.
- Written communications will be presented in English and/or Spanish, with a summary in English and Spanish. Authors are encouraged to submit their articles in English to facilitate the international dissemination of their work.

Monday, November 11TH

8:30 - 9:30	Registration
9:30 - 11:30	Opening session
12:00 - 12:45	CONFERENCE: <i>Our response to the demand by society for efficient dams</i> Geoffrey P. Sims Vice-President International Commission on Large Dams Consultant, Brown and Root. United Kingdom
12:45 - 13:30	General Talk on Topic 1 Giovanni Lombardi Honorary President International Commission on Large Dams Lombardi Engineers. Switzerland
13:30 - 15:00	Lunch
15:00 - 16:45	Presentation of selected lectures on Topic 1 and debate
16:45 - 17:15	Coffee break
17:15 - 18:30	Presentation of selected lectures on Topic 1 and debate
20:30	Welcome reception

Tuesday, November 12TH

9:00 - 9:45	CONFERENCE: <i>Addressing hydrologic inadequacy</i> Chris Veesaert Manager Inspections and Emergency Management Group United States Bureau of Reclamation
9:45 - 10:30	General Talk on Topic 2 Jesús Granell General Director, Jesús Granell. Consultant Engineering. Spain
10:30 - 11:00	Coffee break
11:00 - 13:30	Presentation of selected lectures on Topic 2 and debate
13:30 - 15:00	Lunch
15:00 - 18:30	Presentation of selected lectures on Topic 2 and debate
21:00	Dinner

Wednesday, November 13TH

9:00 - 9:45	CONFERENCE: <i>Some experiences in stability and impermeability improvement</i> José Polimón López Technical Director. Dragados O.P.
9:45 - 10:30	General Talk on Topic 3 Francisco Rodrigues Andriolo Concrete Technology and Concrete Construction Specialist President of Andriolo Ito Engenharia SC Ltda. São Paulo. Brazil
10:30 - 11:00	Coffee break
11:00 - 13:30	Presentation of selected lectures on Topic 3 and debate
13:30 - 15:00	Lunch
15:00 - 18:30	Presentation of selected lectures on Topic 3 and debate
18:30	Closing Session

Thursday 14TH - Saturday 16TH

Optional study trip (further information on page 8)

Presentation of Lectures

The authors of the presentations accepted must forward the full text of their lecture by June 15th, 2002, preferably by e-mail, to Congress Secretariat:

TILESA OPC, S.L.

c. Londres, 17 - 28028 Madrid (Spain)
Tel. +34 913 612 600 - Fax: +34 913 559 208
e-mail:sepremadrid@tileasa.es
www.tileasa.es/sepremadrid

The guidelines to prepare the presentations will be communicated directly to the authors of the presentations selected and will be posted on the Congress website. The Technical Committee will select the presentations to be presented orally, once all the proposals received have been analysed.

Study Trip

An optional study trip is planned for November 14th-16th, with the following programme:

Thursday, November 14th

		PRICES	
8:30	Departure from Madrid.	DOUBLE ROOM - Price per person	400 €
11:30	Arrival in Trujillo and visit.		
12:30	Departure from Trujillo.	SINGLE ROOM	500 €
13:00	Visit to Guadiloba Dam.		16% VAT included
14:30	Lunch in Cáceres.		
16:30	Arrival at Cáceres Parador. Accommodation		
20:30	Dinner in Cáceres. Night tour around the old city.		

Friday, November 15th

9:00	Departure from Cáceres.
10:30	Visit to Cornalbo Dam and Guadiana River in Mérida. Visita to Mérida.
14:30	Lunch in Mérida.
16:30	Departure to Seville.
19:30	Arrival at hotel in Seville. Accommodation.
21:00	Dinner at a typical restaurant.

Saturday, November 16th

9:00	Departure from hotel for Seville tour.
14:00	Depart on AVE (high speed train) to Madrid. Lunch aboard.
16:25	Arrival in Madrid.

Spaces available are limited and will be allocated strictly by order of registration.

REGISTRATION: Fees and Social Events

FEES	Before September 30 th	After September 30 th
Delegate	522 €	580 €
Accompanying person	348 €	348 €

16% VAT included

To benefit from the lower registration fee, payment must be effected **before September 30th, 2002**. If payment is not received before that date, the higher fee must be paid, even if the registration form was sent earlier.

The DELEGATE fee includes: welcome reception, coffees, lunches, closing dinner and bag with congress documentation.

The ACCOMPANYING PERSON fee includes: welcome reception, closing dinner, sightseeing tour of Madrid and El Prado Museum and trip to Toledo.

Cancellation of registration must be done in writing **before September 30th, 2002**. Fees will be returned less 5% for expenses. After that date no fees will be returned. All reimbursements will be done after the congress.

Social Events

- **Monday, November 11th:** **WELCOME RECEPTION**
Palacio de Congresos de Madrid
Pº de la Castellana, 99 - 20:30 h.
- **Tuesday, November 12th:** **CONGRESS CLOSING DINNER**
Casino de Madrid
c. Alcalá, 15 - 21:00 h.

Accompanying Persons Programme

- **Tuesday, November 12th:** Sightseeing tour of **MADRID** and El Prado Museum (half day)

This tour will visit the main streets of Madrid, such as GranVía, Paseo de la Castellana and the squares of Cibeles, Neptune, España, etc. We will also visit El Prado Museum, a world famous art gallery housed in a perfect example of neo-classic architecture (18th century).
- **Wednesday, November 13th:** Trip to **TOLEDO** (full day with lunch)

The city of Toledo, declared national monument, is located on the Tagus River. It preserves a pure medieval style and is called "the Museum City".

Departure for tours will be from the *Palacio de Congresos de Madrid* at 9:30 h.

Accommodation

The Organising Committee will provide hotel accommodation at special rates for Congress participants. Most of these hotels are located in Madrid and close to the Congress site. Buses will be available from the hotels to the *Palacio de Congresos*.

Official Hotels

HOTEL	Single Room	Double Room
AC Aitana ★★★★★	165 €	176 €
Cuzco ★★★★★	144 €	187 €
Holiday Inn ★★★★★	180 €	195 €
Moncloa Garden ★★★	106 €	125 €
NH Bretón ★★	133 €	145 €
NH Práctico ★★	133 €	145 €
NH Zurbano ★★	145 €	158 €

IMPORTANT: price indicated is per room and night, breakfast included. 7% VAT not included.

Conditions

In order to guarantee your hotel reservation a deposit for one night cost (+7% VAT) must be done **before September 6th, 2002**. After this date your hotel booking will be upon request.

Payment of the total remainder of nights must be paid not later than **September 30th, 2002** to TILESAs OPC, S.L.

Cancellations and reimbursements requests should be made in writing to TILESAs OPC. Please do not handle cancellation issues directly with the hotel in order to facilitate coordination of the Congress arrangements and avoid confusions.

In the event of cancelling a hotel reservation before September 30th, 2002, the deposit will be reimbursed, less 5% for expenses. After this date, no cancellations will be accepted and no reimbursements will be made. Neither will participants be reimbursed in case of not showing up at the hotel. All reimbursements will be done once the Congress has finished.

Forms of Payment

All payments must be made in Euros (€) to TILESAs OPC, S.L., by:

- Cheque to TILESAs OPC, S.L.
- Credit Card (only cards accepted: VISA, MASTERCARD, AMEX)

General Information

More detailed and updated information on the organisation of the Congress may be found on the website of the Spanish Association of Dams and Reservoirs: www.sepremadrid.com

Technical Secretariat

To request further information, please contact the Congress Secretariat:

TILESAs OPC, S.L.
c. Londres, 17 - 28028 Madrid (Spain)
Tel.: 913 612 600 - Fax: 913 559 208 - e-mail: sepremadrid@tilesa.es

Congress Venue

PALACIO DE CONGRESOS DE MADRID
Paseo de la Castellana, 99 - 28046 Madrid (Spain)

Official Carrier

IBERIA Spanish Airlines has been designed official carrier of the Congress. The worldwide branches of IBERIA may help you with your travel arrangements:

- NATIONAL FLIGHTS with final destination Madrid and return: 25% discount on full *Business Class* fares and 30% discount on full *Economy Class* fares.
- EUROPEAN FLIGHTS with final destination Madrid and return: 25% discount on full *Business*, *Economy* and *Eurobudget* fares.
- INTERNATIONAL FLIGHTS with final destination Madrid and return: 25% discount on IATA fares on *Business*, *Economy* and *Excursion* (First Level), without restrictions and upon availability on the flight.

These conditions refer exclusively to confirmed IBERIA flights (no sharing-code flights IB-7000), travelling from 2 days before to 2 days after the event for domestic and European flights, and from one week before to one week after for intercontinental flights. These tickets can be issued only by IBERIA.

To be able to benefit from these passenger discounts, the passenger (Delegate, Accompanying person or Committee Member) must certify his/her status as Congress participant.

Congress Code: **BT 2 IB21MPE 0366**
All reservations must include: **OSI IB BT21IB21MPE0366**

International Reservations: +34 913 294 353
Information: +34 913 295 767 - www.iberia.com



Insurance

The Congress will contract tourist insurance (minimum risk) for delegates. The insurance policy will be enclosed with the documentation provided when registration on site is finalised.

Public Transportation

Public transportation in Madrid is excellent, with a very wide underground and bus network. The bus network covers both the city and its outskirts. In the city alone there are over 150 different routes.

Weather

The weather in Madrid during the congress dates is normally wet, with average temperatures between 10° and 15° C.

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