



# ICOLD EUROPEAN CLUB

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[ICOLD European Club Symposium - 2010](#)

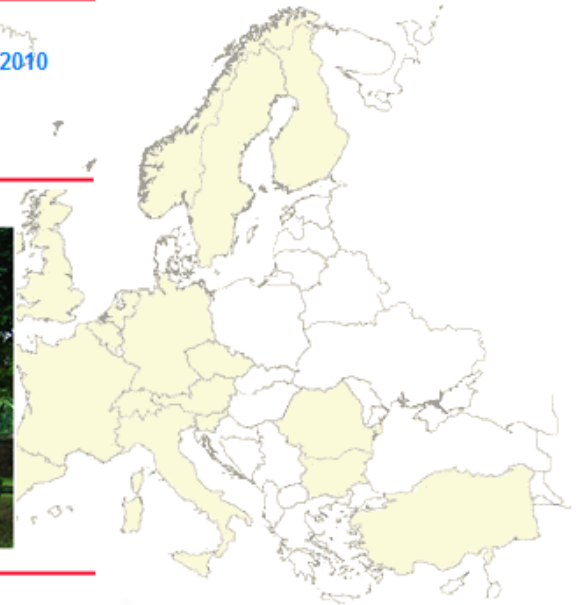
[Innsbruck, Austria](#)



[78ª Reunião anual da CIGB](#)

[Hanoi - Vietnam](#)  
[23 - 26 May, 2010](#)

[Divulgação](#)  
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## OBJECTIVES

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The aims of the Club are achieved by fulfilling the following objectives in relation to dams in Europe:

- Encouragement of European Working Groups, which purpose is to exchange up to date information and to encourage research on matters which are, according to the objective of the club, of current interest to the members.
- Encouragement of regular European Symposia on Dams and Reservoirs. It is intended that Symposia with topics particularly relevant to a number of European countries will be held generally at intervals of two to four years. The European Symposia are not held close to ICOLD Congresses.
- Interchange of information related to the design, construction, operation, maintenance and social, environmental and economic aspects of dams and reservoirs
- Interchange of data and information on the behaviour of dams and reservoirs.
- Interchange of information on the different legislation, standards and practice applied in respect of reservoir safety in different countries in order to improve the understanding for the reasons for such differences and encourage the adoption of high standards in the interests of public safety.
- Interchange of information on the legislation, standards and practices applied in respect of environmental impact, together with information on the effectiveness of the legislation.
- Provision of expert non-political advice in relation to dam and reservoir safety to the governments of European countries, the European Union or other groups of states, where requested.
- Participation in public relations activities to explain the social, environmental and economic benefits of dams and reservoirs.
- Co-operation in the professional training of young engineers in relation to dams and reservoirs through participation in the Symposia, in the Working Groups and in exchanges of staff between countries

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## ORGANIZATION

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### BOARD

The Club welcomes applications from ICOLD National Committees in Europe which share its aims.

The Club is managed by a Governing Board. The Board appoints a Secretary to undertake the administration of the Club.

The Board can create committees and workings groups from time to time to undertake specific tasks on behalf of the Board.

The Board consists of the Chairmen of each National Committee who are members of the Club. The first elected Vice President of ICOLD for Zone Europe has the right to be a member of the Board.

The Chairman of the Board is elected and holds office for two years commencing on 1 January.

The Secretary General of ICOLD has the right to attend and to speak at the meetings of the Board.

The Board meets at least once per year and the meetings are normally arranged to take place at European Symposia or at ICOLD Meetings.

When voting is required, the decisions of the Board will require an unanimous vote unless the members present at the meeting agree that a majority vote is acceptable.



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## ORGANIZATION

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### SECRETARY

The functions of the Secretary are:

- The performance of the activities which are entrusted to him by the Board.
- In relation to the Working Groups the co-ordination of the activities of the Groups by maintaining contact with the Co-ordinator of each Working Group and receiving progress reports from the Working Group Co-ordinators. He assists the Working Groups with the publication of the results of their work to the members of the Club and, where appropriate, more widely.
- In relation to the European Symposia, maintenance of contact with National committees which organise the Symposia.
- Preparation of an Annual Report for the Club.

The secretary is appointed by the Board, usually for three years. The appointment is renewable.



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### EUROPEAN WORKING GROUPS

The purpose of the Working Groups is to exchange up to date information and to encourage research on matters which are, according to the objective of the club, of current interest to the members.

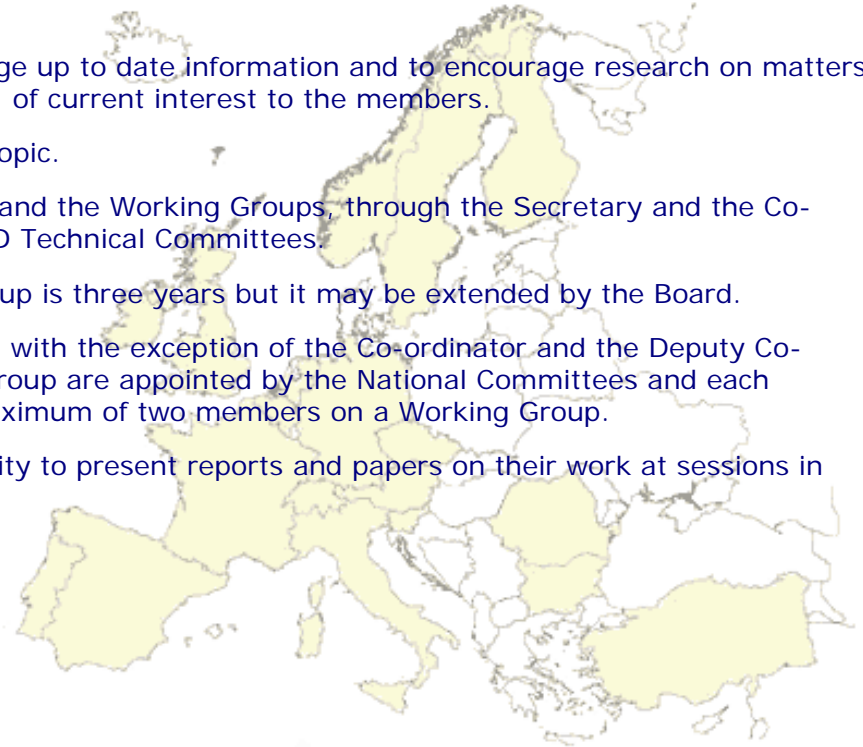
Each Working Group concentrates on a specific topic.

The terms of reference are agreed by the Board and the Working Groups, through the Secretary and the Co-ordinators taking into account the tasks of ICOLD Technical Committees.

The normal maximum duration of a Working Group is three years but it may be extended by the Board.

Generally, unless the Board considers otherwise, with the exception of the Co-ordinator and the Deputy Co-ordinator, if any, the members of the Working Group are appointed by the National Committees and each National Committee is entitled to nominate a maximum of two members on a Working Group.

The Working Groups shall be given the opportunity to present reports and papers on their work at sessions in the European Symposia.





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### EUROPEAN SYMPOSIA

It is intended that Symposia with topics particularly relevant to a number of European countries will be held generally at intervals of two to four years. The European Symposia are not held close to ICOLD Congresses.

The topics, venue and timing for a Symposium are the responsibility of the host National Committee.

The Board reviews the proposals of the host National Committee and, if considered necessary, suggests modifications, for example, to avoid a potential duplication of subject matter at other symposia, conferences, etc.

### FINANCES OF THE CLUB

The Club does not charge a membership subscription.

The Club has no financial assets.

The Club has no employees and makes no payment for the services provided by its members.





## ORGANIZATION

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### DURATION OF THE CLUB

The Board shall review the value of the Club to its members from time to time and decide whether the Club shall continue to function

### CLUB FOUNDATION

Following preliminary meetings in the period 1993 to 1995, the Club was formally established on 6 September 1995 at a meeting of the founder members in Crans-Montana, Switzerland



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## MEMBER COUNTRIES

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Czech Republic	
Finland	
France	●
FYR of Macedonia	
Germany	●
Ireland	
Italy	●
Netherlands	
Norway	●
Portugal	●
Romania	●
Slovenia	●
Spain	●
Sweden	●
Switzerland	●
Turkey	●
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● Countries with website







## WORKING GROUP

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### DAM LEGISLATION

Co-ordinator (2001): P. Le Delliou (France)

- Co-ordinator (2007): G. Ruggeri (Italy)

Subsequent updating process: by ICOLD National Committees

### ● GEOMEMBRANES AND GEOSYNTHETICS AS FACING MATERIALS

Co-ordinator: Alberto M. Sciero (Italy)

### ● UPLIFT PRESSURES UNDER CONCRETE DAMS

Co-ordinator: G. Ruggeri (Italy)

### ● SLIDING OF CONCRETE DAMS

Co-ordinator: G. Ruggeri (Italy)

### ● EUROPEAN WATER DIRECTIVE

Co-ordinator: G. Heigerth (Austria)

### Final Report - 2007

▶ PDF  
530 kb

### Dam Legislation Annexes:

- France (winzip file 618 Kb)
- Italy (winzip file 2.2 Kb)
- Norway (winzip file 174 Kb)
- Portugal (winzip file 3.6 Kb)

### Final Report

▶ PDF  
178 kb

### Final Report

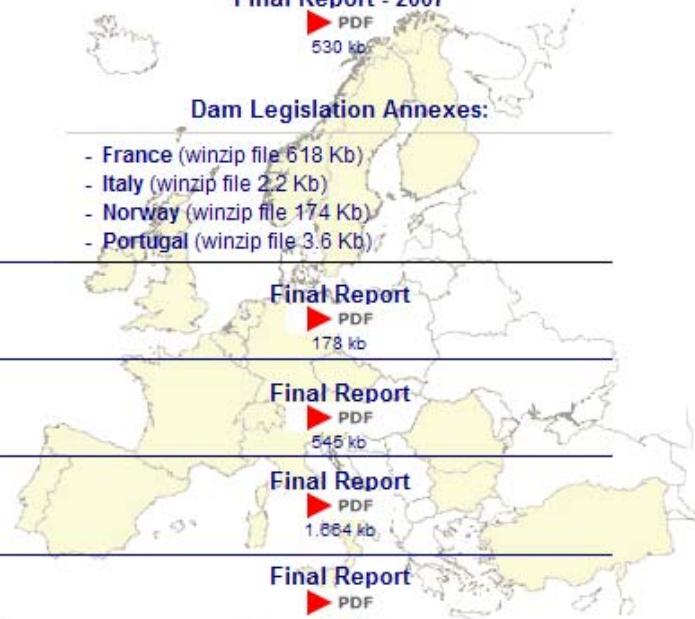
▶ PDF  
545 kb

### Final Report

▶ PDF  
1.864 kb

### Final Report

▶ PDF  
95 kb





## WORKING GROUP

● **SEISMIC CRITERIA**  
Co-ordinator: N. Reilly (United Kingdom)

**Final Report**  
▶ PDF  
201 kb

● **AGEING OF CONCRETE DAMS**  
Co-ordinator: R. del Hoyo (Spain)

**Final Report**  
▶ PDF  
604 kb

● **EDUCATION**  
Co-ordinator: Pier Paolo Marini (Italy)

**Final Report**  
▶ PDF  
435 kb

● **INTERNAL EROSION IN EMBANKMENT DAMS**  
Co-ordinator: J. Fry (France)

**Progress Report**  
▶ PDF  
224 kb

● **DAM SAFETY OF EXISTING DAMS**  
Co-ordinator: J. Rocha Afonso (Portugal)

**Progress Sub Report 1** ▶ PDF 221 kb  
**Progress Sub Report 2** ▶ PDF 490 kb  
**Progress Inquiry Form** ▶ PDF 388 kb

● **FLOODS**  
Co-ordinator: Luis Berga (Spain)

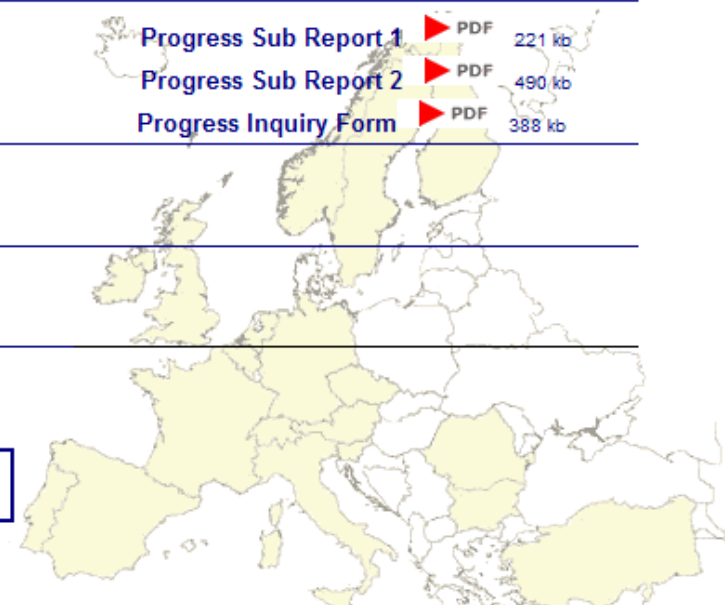
● **PUBLIC SAFETY**  
Co-ordinator: U. Norstedt (Sweden)



Finished



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## SYMPOSIA

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### SYMPOSIUM ON DAMS IN EUROPE – TASKS AND CHALLENGES



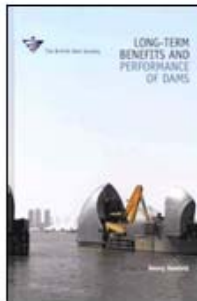
German National Committee on Large Dams

Freising, Germany, 17-19 September 2007

(See references)

- NEW PUBLIC AWARENESS ON DAMS IN EUROPE
- BENEFITS AND RISKS OF HYDRAULIC STRUCTURES
- LEAKAGE DETECTION IN EMBANKMENT DAMS
- INTERNAL EROSION
- HYDRAULIC STRUCTURES AND HYDROPOWER – ONGOING PROJECTS AT HOME AND ABROAD

### SYMPOSIUM ON LONG-TERM BENEFITS AND PERFORMANCE OF DAMS



The British Dam Society

Canterbury, UK, 22-26 June 2004

(See references)

- BENEFITS AND SOCIAL IMPACTS OF RESERVOIRS
- THE USE OF NEW MATERIALS
- RISK ASSESSMENT AND RESERVOIR MANAGEMENT
- FLOOD IMPACT AND ALLEVIATION
- INSTRUMENTATION AND MONITORING





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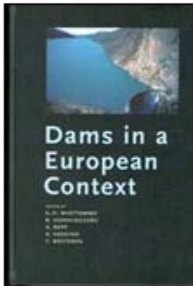
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### SYMPOSIUM ON DAMS IN A EUROPEAN CONTEXT

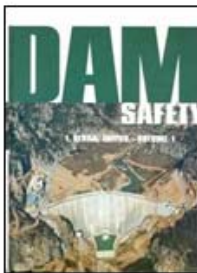


Norwegian Committee on Large Dams

Geiranger, Norway, 25-27 June 2001

[\(See references\)](#)

### SYMPOSIUM ON NEW TRENDS AND GUIDELINES ON DAM SAFETY



Comité Español de Grandes Presas

Barcelona, Spain, 17-19 June 1998

[\(See references\)](#)



- FUTURE RIVER BASIN MANAGEMENT IN EUROPE
- OPERATIONAL SAFETY OF DAMS AND OTHER HYDRAULICS
- NEW TRENDS IN REHABILITATION OF DAMS

- LEGISLATION AND GUIDELINES ON DAM SAFETY
- STRUCTURAL SAFETY
- HYDROLOGICAL SAFETY
- EUROPEAN WORKING GROUPS



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### SYMPOSIUM ON REPAIR AND UPGRADING OF DAMS



Swedish Committee on Large Dams

Stockholm, Sweden, 5-9 June 1996

[\(See references\)](#)

- CONCRETE DAMS
- EMBANKMENT DAMS
- FLOODS

### RECHERCHE ET DÉVELOPPEMENT DANS LE DOMAINE DES BARRAGES



Comité National Suisse des Grands Barrages

Crans-Montana, Suisse, 7-9 Septembre 1995

[\(See references\)](#)

- DIGUES EN MATÉRIAUX MEUBLES / EMBANKMENT DAMS
- BARRAGES EN BETON / CONCRETE DAMS
- HYDROLOGIE / HYDROLOGY
- INSTRUMENTATION/MONITORING





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### **President (2008-2011)**

**Mr. G. Heigerth, Austrian Committee on Large Dams**

**e-mail: [heigerth@tugraz.at](mailto:heigerth@tugraz.at)**

### **Secretary**

**Mr. Antonio Soriano, Spanish National Committee**

**e-mail: [ingesuelo@ingesuelo.com](mailto:ingesuelo@ingesuelo.com)**





## LINKS

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### INTERNATIONAL COMMISSION ON LARGE DAMS (ICOLD)

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#### ICOLD EUROPEAN NATIONAL COMMITTEES

Austria	<a href="http://www.atcold.at">http://www.atcold.at</a>
Croatia	<a href="http://www.elektroprojekt.ht/hdvb">http://www.elektroprojekt.ht/hdvb</a>
France	<a href="http://www.barrages-cfgb.org">http://www.barrages-cfgb.org</a>
Germany	<a href="http://www.germannatcom-icold.de">http://www.germannatcom-icold.de</a>
Italy	<a href="http://www.itcold.it">http://www.itcold.it</a>
Norway	<a href="http://www.nve.no/nncold">http://www.nve.no/nncold</a>
Portugal	<a href="http://cnpqb.inag.pt">http://cnpqb.inag.pt</a>
Romania	<a href="http://www.rocold.ro">http://www.rocold.ro</a>
Slovakia	<a href="http://www.skcold.sk">http://www.skcold.sk</a>
Slovenia	<a href="http://slocold.ibe.si">http://slocold.ibe.si</a>
Spain	<a href="http://www.spancold.org">http://www.spancold.org</a>
Sweden	<a href="http://www.swedcold.org/">http://www.swedcold.org/</a>
Switzerland	<a href="http://www.swissdams.ch">http://www.swissdams.ch</a>
The Netherlands	<a href="http://www.nethcold.org">http://www.nethcold.org</a>
Turkey	<a href="http://www.dsi.gov.tr/tricold/index.htm">www.dsi.gov.tr/tricold/index.htm</a>
United Kingdom	<a href="http://www.britishdams.org">www.britishdams.org</a>



## FOR MEMBERS

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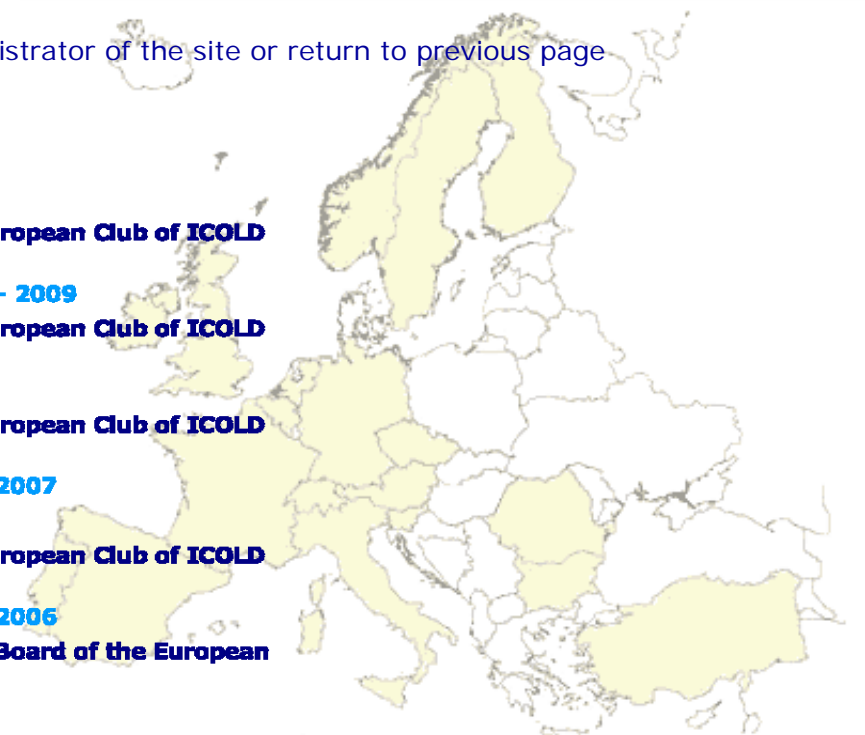
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### **PAST ISSUES**

- **Meeting of the Governing Board of the European Club of ICOLD  
Brazilia, Brasil. May 2009**
  - [Agenda and Annual Report 2008 – 2009](#)
- **Meeting of the Governing Board of the European Club of ICOLD  
Sofia, Bulgaria, June, the 3rd, 2008**
  - [Minutes of the Meeting](#)
- **Meeting of the Governing Board of the European Club of ICOLD  
Frelsing, Germany, September, 2007**
  - [Agenda and Annual Report 2006-2007](#)
  - [Minutes of the Meeting](#)
- **Meeting of the Governing Board of the European Club of ICOLD  
Barcelona, Spain, June, 2006**
  - [Agenda and Annual Report 2005-2006](#)
- **Minutes of the Meeting of the Governing Board of the European  
Club of ICOLD  
Teheran, Iran, May, 2005**
  - [Agenda NORSTEDT, Urban](#)
  - [Curriculum vitae](#)
  - [Agenda and Annual Report 2004-2005](#)
- **Minutes of the Meeting held by the Governing Board of the  
European Club in Montreal**
- **Meeting of the Governing Board of the European Club of ICOLD  
Canterbury. U.K. Wednesday June the 23rd 2004.**
  - [Agenda and Annual Report 2003-2004](#)
  - [Draft of the Minutes](#)



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