

## FORTHCOMING EVENTS

**International symposium on the hydrology of wetlands in cold and temperate regions**, Joensuu, Finland, 6-8 June 1988.

### Topics

1. Hydrological characteristics of wetlands in natural state.
2. Climatological and microclimatological aspects of natural and developed wetlands.
3. Groundwater recharge-wetland relations.
4. Conservation and multipurpose utilization of wetlands in natural state.
5. Hydrological consequences of wetland changes or utilization (forestry, agriculture, peat production, etc).
6. Water quality changes and ecological consequences of wetland development (forestry, agriculture, peat production, etc.).
7. Preventive measures against harmful effects caused by wetland utilization.

Further information from:

Ms Leena Rantajärvi  
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Tel. 0-1929563

**International workshop on hydrology of mountainous areas**, Štrbské Pleso, Vysoké Tatry, Czechoslovakia, 6-11 June 1988.

### Topics

1. Integral data networks, collecting and processing of hydrometeorological data from mountainous areas (Convenors: Czechoslovak Committee for Hydrology and WMO).
2. Hydrological balance as a basis for water resources assessment and water management in mountainous regions (Convenors: Czechoslovak Committee for hydrology and UNESCO).
3. Surface water-ground water interaction and runoff in mountainous catchments (Convenors: Czechoslovak Committee for Hydrology and IAHS).
4. Study and modelling of hydrological processes including impact of man's activity in mountainous catchments (Convenors: Czechoslovak Committee of Hydrology, UNESCO and IAHS).

Further information from:

Dr L. Molnar, Czechoslovak Committee for Hydrology  
Trnavska 32  
826 51 Bratislava  
Czechoslovakia  
Tel. Bratislava, 214 402

**VII International conference on computational methods in water resources**, MIT, Cambridge, MA, USA, 13-17 June 1988.

### Topics

1. Groundwater simulation
2. Surface water simulation
3. Convective-diffusive transport
4. Parameter estimation and optimization techniques

5. Software developments: from micros to supercomputers
6. Finite element methods
7. Collocation methods
8. Boundary element methods
9. Alternative numerical techniques

Further information from:

Michael A. Celia  
Parsons Lab,  
Rm 48-207  
Department of Civil Engineering  
MIT  
Cambridge  
MA 02139 USA

**New Zealand water conference, Dunedin, Otago, NZ, 15-17 August 1988.**

**Theme**

Water in Society — Policy and Practice.

Further information from:

The Conference Secretary  
Water Conference '88  
University of Otago  
P.O. Box 56  
Dunedin  
Tel. (024)770-345

**International symposium on artificial recharge of ground water, Anaheim, California, USA, 23-27 August 1988.**

**Intention to provide:**

1. A forum for many professional disciplines to exchange experiences and findings related to various types of artificial recharge.
2. Learning from both successful and unsuccessful case histories.
3. Promotion of technology transfer between the various disciplines.
4. An education resource for communication with those who are not water scientists, such as planners, lawyers, regulators, and the public in general.
5. Indication of directions by which cities or other entities can save funds by having reasonable technical guidelines for implementation of a recharge project.

Further information from:

A. Ivan Johnson  
7474 Upham Court  
Arvado  
California 80003  
USA

**International symposium on mining subsidence, New Delhi, India, mid-December 1988.**

**Topics**

1. Mining of coal and other minerals and earth materials.
2. Modelling and prediction of subsidence movements related to mining.
3. Instrumentation, such as remote data transmission and geophysics, for indentifying and monitoring potential or active subsidence.

4. New techniques, such as remote data transmission, for detecting areas of subsidence.
5. Preventive and corrective measures.
6. Environmental, socio-economic, and legal impacts of mining subsidence.

Further information from either:

Mr Ivan Johnson  
ISMS Organizing Committee  
A. Ivan Johnson Inc.  
7474 Upham Court  
Arvada  
Colorado 80003  
USA

or:

Professor B. Singh  
ISMS Organizing Committee  
Director  
Central Mining Research Station  
CSIR  
Barwa Road  
Dhanbad 826001  
India

**International symposium on sediment budgets**, Porto Alegre, Brazil, December 1988.

**Topics**

1. Physical processes of sediment generation, transport and deposition.
2. Monitoring of sediment variables including the selection and operation of experimental and representative basins, instrumentation, measurement techniques, monitoring programmes, etc.
3. Strategies for computing sediment budgets and the use of simulation techniques related to scales of increasing size and complexity.

Further information from:

The Local Organizing Committee  
International Symposium on Sediment Budgets  
Instituto de Pesquisas Hidraulicas  
UFRGS  
CP 530 90001 Porto Alegre RS  
Brazil  
Tel: (0512) 36-0266 and 36-0457

**4th Australasian conference on heat and mass transfer**, University of Canterbury, New Zealand, 9-12 May 1989.

**Topic areas are:**

1. Agriculture, horticulture and forestry
2. Production and processing of food
3. Geophysical and meteorological systems
4. Biological systems and human organs (medical studies)
5. Chemical, petrochemical and industrial processing systems

Further information from:

Dr J. C. F. Walker  
School of Forestry

University of Canterbury  
Christchurch 1  
New Zealand  
Tel: (03) 482-009 ext 8118  
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**IAHS Third scientific assembly**, Baltimore, Maryland, USA, 10-19 May 1989.  
Topics include symposia on atmospheric deposition, systems analysis for water resources management, surface water modelling, regional characterisation of water quality, stochastic processes and time series analysis in glaciology, sediment and the environment, groundwater contamination, and remote sensing and large-scale global process. There are also workshops on PC methods for: precipitation modelling, water resource systems analysis, image processing and geographic information systems, flood frequency analysis, and groundwater quantity and quality analysis and modelling.

Further information from:

Mr Ivan Johnson, Chairman  
TSA Organizing Committee  
A. Ivan Johnson, Inc.  
7474 Upham Court  
Arvada  
Colorado 80003  
USA

Short courses and expert meetings at the **International Institute for Hydraulic and Environmental Engineering**, Delft, Netherlands. 1988

June 6-10 Short Course on: stochastic and geostatistical analysis in groundwater modelling.

Sept 14—16 Expert meeting on: new developments in groundwater modelling

Oct 3-7 Short Course on: applied modelling of groundwater pollution.

**1989**

March 1- 3 Short Course on: Basics of groundwater modelling

March 6-10 Short Course on: Applied Groundwater flow modelling

May 22-26 Short Course on: Modelling unsaturated flow

Sept 13-15 Expert Meeting on: Modelling Biological and Chemical processes in the subsoil

Oct 16-20 Short Course on: Applied modelling of groundwater pollution

Further information from:

G. Jousma  
International Institute for Hydraulic and Environmental Engineering  
P.O. Box 3015  
2601 DA Delft  
The Netherlands

**International conference on the design of water quality information systems**, Colorado State University, Fort Collins, Colorado, USA, 7-9 June 1989

**Topics**

1. Defining information goals
2. Identifying applicable statistics
3. Establishing appropriate data analysis protocols
4. Reporting formats

5. Computerizing data handling, analysis and reporting
6. Design documents and implementation
7. Case studies

Further information from:

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Fort Collins  
Colorado 80523  
USA