

INTERNATIONAL SEDIMENT INITIATIVE

NEWSLETTER

Reporting ISI news to you quarterly

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ORGANISATION: UNESCO

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NEWS

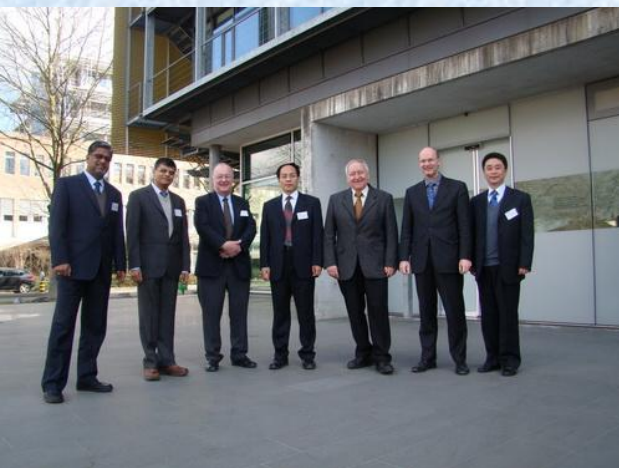
Core Member Meeting of the UNESCO-ISI Steering Committee Held in Switzerland



A Core Member Meeting of the UNESCO-ISI Steering Committee was held at the Federal Office for the Environment, Switzerland on March 5, 2010. The ISI work plan for 2010 – 2011 and related activities were discussed. The participants were: Dr. Anil Mishra, Programme Specialist of the Division of Water Sciences UNESCO; Dr. R. Jayakumar, Programme Specialist of the UNESCO Beijing Office; Prof. NING Duihu, Deputy Director of IRTCES; Prof. Manfred Spreafico, Chairman of the ISI Steering Committee; and Prof. Des Walling and Prof. LIU Cheng, members of the ISI Steering Committee. Dr. Dominique Bérod, Head of the Hydrology Division, Swiss Federal Office for the Environment attended the meeting as an invited guest.

At the meeting, recent ISI activities, the activities of IRTCES acting as the ISI secretariat and developments with the ISI website and information system were reviewed, and possible new working procedures for the ISI Steering Committee were discussed. After discussions, decisions were made regarding ISI events in 2010 and thereafter, publications, networking and partnerships, and projects.

The participants visited the FOEN calibration laboratory after the meeting. (by LIU Cheng)



IRTCES Celebrates the Chinese Lunar New Year together with UNESCO and MWR of P. R. China



When the Chinese Lunar New Year, the year of tiger, is approaching, the International Research and Training Center on Erosion and Sedimentation (IRTCES)/ISI Technical Secretariat invited officials of the UNESCO Office Beijing and the Department of International Cooperation, Science and Technology, the Ministry of Water Resources of the People's Republic of China (MWR) to have a Chinese New Year Celebration together on February 3, 2010. Mr. Abhimanyu Singh, Representative and Director of the UNESCO Office Beijing and Mr. HAO Zhao, the Deputy Division Director of the Department of International Cooperation, Science and Technology of the MWR participated in the celebration.

Prof. HU Chunhong, Secretary-General and Deputy Director of IRTCES welcomed all participants on behalf of IRTCES, and expressed his sincerely gratitude to the UNESCO and the MWR for their help and support on IRTCES' organizing the Silver Jubilee celebration in the past year. In his speech, Prof. Hu summarized the formed development pattern of the IRTCES through 25 years progress, and expressed that the IRTCES would do its best to make much more progresses in the coming New Year under the guidance and supports of UNESCO and MWR.

In Mr. Singh's speech, he thanked MWR for its long-term supports on IRTCES, and praised IRTCES for its achievements in accomplishing research projects, technical trainings, ISI Technical Secretariat and other activities within the frame of UNESCO-IHP. Mr. Singh wished IRTCES would be energetic and active as a young tiger in the coming new year of tiger, and take its leading role in promoting inter-institutional linkages with other countries in the world. Mr. HAO Zhao, on behalf of MWR, hoped IRTCES keep on the role of a flagship as the first established UNESCO Category II Center in China, strengthen the international exchanging and cooperation and wished bigger accomplishments in the New Year.

Other participants included: Dr. R. Jayakumar, Mr. Sonam Yonten, Mr. LIU Ke, Ms. TENG Yue and Ms. DUAN Xiaoli of the UNESCO Office Beijing; Prof. GAO Zhanyi, and Prof. NING Duihu, Deputy Directors of IRTCES; Prof. WANG Zhao-Yin, Chairman of IRTCES Advisory Council; and advisors, division chiefs and staff of IRTCES. (by SHI Hongling, IRTCES)

UNESCO and the Dominican Republic establish new Category II Centre

UNESCO and the government of the Dominican Republic signed an agreement on 8 March 2010 establishing, under the auspices of UNESCO, the Centre for the Sustainable Management of Water Resources in the Caribbean Island States in Santo Domingo, Dominican Republic. Mrs. Irina Bokova, Director-General of UNESCO and Mr. Francisco Rodríguez, Executive Director of the Instituto Nacional de Recursos Hidráulicos, were present to sign the agreement.



The centre will perform the following functions per the agreement:

1. promote and perform scientific research on water management in the region, and hydrologic aspects thereof;
2. promote and facilitate applications of technology towards better practical use of water;
3. expand and coordinate research activities, in cooperation with the various international agencies and the relevant entities of the States of the region, most particularly by taking advantage of the scientific and professional capacities of the region, as well as using the corresponding networks of the UNESCO International Hydrological Programme (IHP);
4. organize and implement activities for knowledge and information transfer for training and upgrading the human resource base for sustainable water resources management, and for hydrological aspects of interest to the States of the region;
5. provide reliable information on water resources and their sustainable management by improving the transfer and sharing of information strategies, and the means of dissemination and assimilation of such information;
6. deliver consulting and technical advice in the region and in other countries, as requested by the interested parties and in fulfillment of the Centre's objectives;
7. issue scientific and technical publications and informative materials in the form and formats deemed appropriate, on the issues of sustainable water resources management and related and/or supplementary themes, as well as on hydrological aspects of interest to the States of the region.

(Source: <http://www.unesco.org/water/>)

Yellow River Conservancy Commission awarded Lee Kuan Yew Water Prize

The Singapore International Water Week today announced that the Yellow River Conservancy Commission (YRCC) has been awarded the Lee Kuan Yew Water Prize 2010, a prestigious award that recognises outstanding contributions towards solving global water problems by either applying technologies or implementing policies and programmes which benefit humanity. With its success in transforming China's second-longest river, YRCC outshone 49 other nominees

to become the third recipient of the Lee Kuan Yew Water Prize.

The Lee Kuan Yew Water Prize Council recognised YRCC's remarkable progress in overcoming natural and man-made challenges through innovative and sustainable policies and solutions that have enabled the Yellow River to flow unabated over the last 10 years. YRCC's integrated water allocation programme balances water availability with social, economic and ecological developments. The improved, reliable supply of water brought about by YRCC's efforts have benefitted and enhanced the quality of life for over one hundred million people both in the basin and in regions served by the river. Large areas of wetlands and biodiversity in Yellow River Delta have also been restored over the years, returning life and vitality to the river.

(Source: <http://www.unesco.org/water/>)

Control of soil erosion achieved noticeable achievements in Tibet

Data released by Tibet's first Soil and Water Conservation Bulletin shows soil erosion on 40,000 hectares of land has brought under control in Tibet in the last ten years.

According to the Bulletin, comprehensive control of soil erosion has made noticeable achievements in Tibet. Started from 1999, the region has treated 40,000 hectares of land suffering from soil erosion, built more than 200 check dams and storage lagoons and planted nearly 20,000 hectares of land.

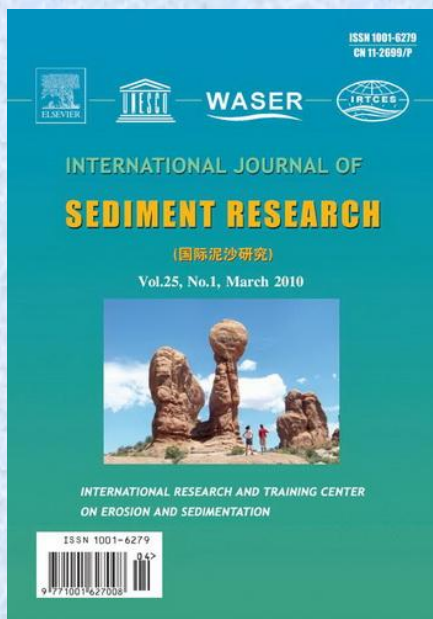
During the region, Tibet found a new method of tree planting which is more suitable for the special weather and climate conditions in Qinghai-Tibet Plateau. During the past ten years, 51 projects related to soil and water conservation have been approved, covering water conservancy, electric power, highway construction, mining industry, railway construction and so on. (Source: China Tibet Information Center)

More News in ISI Website

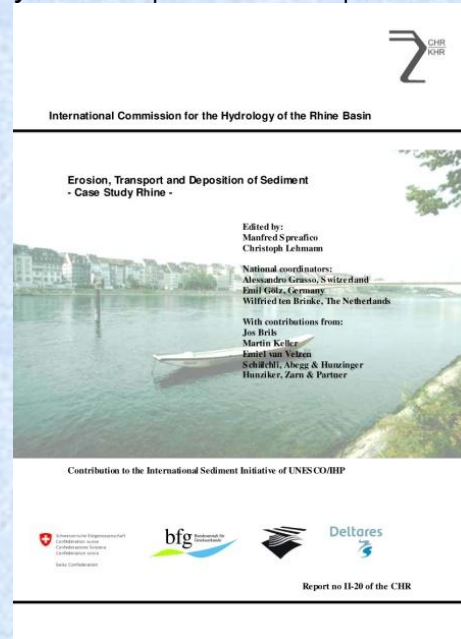
- Yellow River Conservancy Commission awarded Lee Kuan Yew Water Prize
- Contents of IJSR (Vol. 25, No.1, 2010)
- New approach planned to halting river erosion (USA)
- UNESCO and the Dominican Republic establish new Category II Centre
- Yangtze delta dredging program to be completed this month
- UNESCO-ISI Steering Committee Core Member Meeting Held in Switzerland
- IRTCES Celebrates the Chinese Lunar New Year together with UNESCO and MWR of P. R. China
- Learning from Climate's Sedimental Journey
- Control of soil erosion achieved noticeable achievements in Tibet
- Farming not to blame for Tamar silt (Australia)
- Research scientists note role played by herbicide in soil-erosion control

(<http://www.irtces.org/isi/>)

Papers Published in Issue 1, Volume 25, 2010,
International Journal of Sediment Research



Erosion, Transport and Deposition of
Sediment - Case Study Rhine
Edited by: Manfred Spreafico & Christoph Lehmann



Volume 25, Number 1

March 2010

Technical Papers

An investigation of soil erosion and redistribution in a Mediterranean lowland agricultural catchment using caesium-137

Joan ESTRANY, Celso GARCIA, and Desmond E. WALLING

A three dimensional $k-\varepsilon-A_p$ model for water-sediment movement

LIU Cheng and SHEN Yong-Ming

Chemistry of sediments from the Dobczyce Reservoir, Poland, and the environmental implications

Witold RECZYNSKI, Malgorzata JAKUBOWSKA, Janusz GOLAS, Andrew PARKER, and Barbara KUBICA

Velocity profiles and incipient motion of frazil particles under ice cover

Jueyi SUI, Jun WANG, Yun HE and Faye KROL

Experimental evaluation of design methods for in-site detention ponds

Yao-Ming HONG

Deposition and erosion in the fluctuating backwater reach of the Three Gorges Project after upstream reservoir adjustment

Yongjun LU, Liqin ZUO, Rongyao JI, and Huaixiang LIU

Hydraulic parameters in channels with wall vegetation and gravel bed

Hossein AFZALIMEHR, Jueyi SUI, and Razieh MOGHBEL

Cover Photo: Mushroom-shape rocks by wind erosion in the Arches National Park of the USA

Erosion, transport and deposition of sediment have significant economic, environmental and social impacts in large river basins.

The International Sediment Initiative (ISI) of UNESCO provides with its projects an important contribution to sustainable sediment and water management in river basins. With the processing of exemplary case studies from large river basins good examples of sediment management practices have been prepared and successful strategies and procedures will be made accessible to experts from other river basins.

The CHR produced the "Case Study Rhine" in the framework of ISI. Sediment experts of the Rhine riparian states of Switzerland, Austria, Germany and The Netherlands have implemented their experiences in this publication. Prof. Emil Götz and Dr. Martin Keller of the German Federal Institute of Hydrology, Dr. Wilfried ten Brinke and ir. Emiel van Velzen of the former National Institute for Inland Water Management and Waste Water Treatment in The Netherlands, Dr. Jos Brils from the Dutch research institute Deltares and Dr. Alessandro Grasso from the Division of Hydrology of the Swiss Federal Office for Environment have provided valuable contributions for the publication, based on studies carried-out in the respective countries. The CHR secretariat under the guidance of ing. Eric Sprokkereef has prepared the printing of the publication.

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 - 1.4 Population
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 - 1.6 Hydrometeorology
 - 1.7 Travel times
 - 1.8 Hydrogeology
 - 1.9 Morphological landscape structure

1.10 Soils

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- 8.5 Organizations responsible for monitoring

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- 9.2 Extraction of gravel, sand and other materials from water courses

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12 Literature

(free download in websites of UNESCO-ISI and SedNet)

Publications in ISI Information System

- Soil, Groundwater and Sediment Quality Criteria in Ontario (B. Edwards)
- Erosion, Transport and Deposition of Sediment - Case Study Rhine (Spreafico & Lehmann)
- Towards Risk-Based Management of European River Basins (Brils & Harris eds.)
- Water and Climate Change: An Overview from the UN World Water Development Report
- UNESCO-IHP in East Asia (Jayakumar et al.)
- Water-related publications (UNESCO Office Beijing)
- NRC CJCE: Special Issue in honour of Professor M. Selim Yalin (1925–2007)
- The Yangtze River Basin Climate Change Vulnerability and Adaptation Report (WWF)
- Streamflow response to climate variability and human activities in the upper catchment of the Yellow River Basin (Zhao F.F. et al.)

More

(<http://www.irtces.org/isi/info.asp>)

COMING EVENTS

11th International Symposium on River Sedimentation (Stellenbosch, South Africa, 6-9, Sep. 2010)

Date: 6-9, September. 2010

Venue : Stellenbosch, South Africa

Summary: The 11th International Symposium on River Sedimentation (ISRS) will be held in South Africa, at the University of Stellenbosch (near Cape Town), between Monday 6 and Thursday 9 September 2010. The Symposium is held every 3rd year and is coordinated by the World Association of Sedimentation and Erosion Research (WASER). Scientists and engineers are invited to participate in the conference which will include technical presentations, a technical visit, an exhibition, pre- and post-conference tours and a full accompanying person's programme in and around Cape Town.

Organizer: University of Stellenbosch

Sponsors: International Research and Training Centre on Erosion and Sedimentation (IRTCES), World Association for Sedimentation and Erosion Research (WASER), UNESCO, International Commission on Large Dams (ICOLD), International Association of Hydrological Sciences (IAHS), South African Water Research Commission (WRC)

Secretariat: University of Stellenbosch

Permanent Secretariat: IRTCES

Conference Topics:

Abstract and papers are invited under the following themes:
 Hydraulics and environmental aspects of river sediment transport processes (fundamental & modelling)
 Fluvial morphological and environmental impacts of hydraulic structures on the downstream river and possible mitigation measures
 Impacts of river sedimentation on hydraulic structures (diversion, abstraction works, bridges, etc.)
 Reservoir/lake sedimentation modelling and management
 Sediment yield, soil erosion determination, modelling and management
 River mouths/estuary sediment dynamics and coastal erosion
 Sediment data collection in rivers, reservoirs and lakes
 Dam break analysis and sediment transport
 Reservoir sedimentation & Management such as flushing or dredging
 Sustainable Tailings Dams
 Sediment quality and management
 Stormwater erosion prevention & litter management
 Sewer sediment transport
 Unlined dam spillway scour
 Climate change impacts on sediment yields, river and estuary morphology
 Bushfire impacts on soil erosion

URL: <http://www.civeng.sun.ac.za/isrs/>

Contacts:

Technical aspects
 Prof Gerrit BASSON
grbasson@sun.ac.za
 Tel +27 21 808 4355
 Other aspects
 Marechia BASSON
msb@aspt.co.za
 Tel +27 79 4909 210

International Conference on the Status and Future of the World's Large Rivers(Vienna, 11-14 April 2011)

Date: 11-14 April 2011

Venue : University of Natural Resources and Applied Life Sciences, Vienna

Summary: The pressures and impacts on the World's Large Rivers have increased greatly in recent years, as a consequence of their exploitation to meet human needs. Large rivers are particularly exposed to problems of multiple uses, often with conflicting aims. At the global scale, there is no overview assessment of the current status of the World's Large Rivers, the conflicting demands on such rivers, and likely future anthropogenic impacts, as well as the potential for restoration and the associated problems. The International Conference on "The Status and Future of the World's Large Rivers" aims to provide a global forum for a wide-ranging discussion of key issues related to research on large rivers and to their effective and sustainable management, involving both scientists and decision makers. A statement, agreed by the participants, will be produced to assess the existing and future needs of large rivers in order to better integrate their use, protection and restoration and to devise an action plan.

The conference is sponsored by: UNESCO, IAHR, IAHS and WASER

The conference is organised by BOKU - University of Natural Resources and Applied Life Sciences, Vienna. Take the opportunity to participate in the conference on the World's Large Rivers, to be held from 11 – 14 April 2011, and visit the beautiful city of Vienna. We look forward to welcoming you to Vienna!

URL: <http://worldslargerivers.boku.ac.at/wlr/>

Contacts: worldslargerivers@boku.ac.at

7th International SedNet conference (Venice, 6-9 April 2011)

Date: 6-9 April 2011

Venue : Venice, Italy

Background

Sediment is an integral part of the ecosystem and directly affects biodiversity through hydromorphology, habitat formation and associated pollutants. Using Water Framework Directive definitions, it can be said that sediment affects good ecological and chemical status of water bodies: impacts can be both positive and negative. These impacts are particularly evident in shallow water bodies such as rivers, lagoons and coastal areas. Sediment Management is therefore much more than dealing with more or less contaminated sediment that needs to be dredged for navigation or construction but is more a way of working with nature, finding self-sustaining solutions for the evolution of water bodies in a highly dynamic environment.

The integration of sediment management into river basin management plans, thus supporting the joint implementation of the Water Framework Directive and Floods Directive, is a perfect context to put this holistic approach into practice.

The Mediterranean Sea and its coastal areas present unique challenges for sediment management as compared with other EU ecoregions; this is coupled with the need for a whole-basin view, involving both the EU countries and the non-EU neighbours of the southern and eastern coastline.

In most cases the targets for sediment management are strongly connected with different uses of water bodies and with interventions to promote socio-economic development and competitiveness, such as port dredging and beach nourishment. In such contexts, the need for good science to inform decisions and policy is crucial in order to promote sustainable, cost-effective and environmentally sound solutions.

Against this background SedNet is organising an event on 6-9 April 2011 in Venice, which represents a paradigm for all Mediterranean coastal areas due to its cultural heritage, its precious lagoon and its challenges toward climate change adaptation.

Call for Abstracts

SedNet would be pleased to receive abstracts for platform presentations and posters for the Open Conference. Abstracts related to the main issues of the Conference with a special focus on the Mediterranean area will be particularly welcomed.

Issues to be addressed are:

- * Biodiversity and sediment management (sediments, hydromorphology, habitats)
- * Sediment management measures and cost-benefit analysis
- * Climate change and sediment: effects on bioavailability and contaminant biogeochemical cycles
- * Sediment in coastal zone management and Marine Strategy Framework Directive (e.g. sediment reuse for coastal protection and restoration)
- * Sediment Environmental Quality Standards and monitoring
- * Sediment and contaminant transport modelling
- * Ecological risk assessment of contaminated sediment
- * Mine tailings (historical contamination, soil erosion)

Submission of abstracts

Abstracts can be sent to the SedNet Secretariat: marjan.euser@deltares.nl.

Deadline for abstract submission: **1 September 2010**.

URL: <http://www.sednet.org/conference2011.htm>

34th IAHR Biennial Congress (Australia, 26 June-1 July 2011)

Date: 26 June-1 July 2011

Venue: Brisbane, Australia at the Brisbane Convention and Exhibition Centre

Summary: The 34th Biennial Congress of the International Association of Hydraulic Engineering and Research (IAHR) will be held in Brisbane, Australia at the Brisbane Convention and Exhibition Centre on 26 June-1 July 2011. Engineers Australia and its National Committee on Water Engineering (NCWE) are collaborating with IAHR to organize the 34th IAHR Biennial Congress together with the 33rd National Hydrology and Water Resources Symposium and the 10th National Conference on Hydraulics in Water Engineering.

The Congress theme "Balance and Uncertainty: Hydraulic Engineering in a Changing World" focuses on the central roles of hydraulic engineering, hydrology, and water resources for our changing world, and how these roles link to the broader issues. A balance is continually being sought between competing values in water engineering, including the environment, the economy, tourism, social and indigenous values, health aspects, aesthetics, and the needs of current and future generations. Careful management and innovative solutions are required to balance these competing values, and these solutions must be able to deal with the uncertainty in the natural world as well as the changing human world.

By 2011, it will have been 26 years since an IAHR Biennial Congress was held in Australia. The last time was Melbourne in 1985.

URL: <http://www.iahr2011.org/>

Contacts: info@iahr2011.org

12th International Symposium on the Interactions between Sediments and Water (Dartington, England, 19-23 June 2011)

Date: 19-23 June 2011

Venue: Dartington, Devon, England

Summary: 12th International Symposium on the Interactions between Sediments and Water, Dartington, Devon, England. Organised by the International Association for Sediment Water Science (IASWS)

URL: <http://www.IASWS.org>

and www.geog.plymouth.ac.uk/IASWS2011

Ninth International Conference on Hydro-Science and Engineering (India, Aug. 2-5, 2010)

Date: August 2-5, 2010

Venue: Indian Institute of Technology Madras, Chennai, INDIA

Summary: The ninth International Conference on Hydro-Science and Engineering (ICHE 2010) is organized by the Department of Ocean Engineering, Indian Institute of Technology Madras, Chennai, with the support of the allied departments of the institute. The Indian Institute of Technology Madras (IITM), during the 50 years of its existence, has consolidated itself as an Institute of excellence in technology and research. The Department of Ocean Engineering has achieved significant success with a very dynamic profile in terms of manpower training at graduate and post graduate levels for careers across the world. The department has an internationally acclaimed rare combination of hydrodynamic test facilities that include a towing tank, a wave basin, wave flumes, harbour modeling basin, supported by state of the art instrumentation as well as the expertise of the faculty team. The faculty from allied departments has rich teaching and research experience in themes of the conference. With this background, the International Conference on Hydro-Science and Engineering-2010 (ICHE 2010) offers an exciting platform for academicians, engineers from industry, policy makers and administrators from all over the globe to deliberate on various conference themes. ICHE 2010 will extend the series of biennial conference started in Washington, D.C. (1993), and further continued in Beijing (1995), Cottbus (1998), Seoul (2000), Warsaw (2002), Brisbane (2004), Philadelphia (2006), and Nagoya (2008). These Conferences have acted as a welcome forum to report and discuss the latest advancements in Hydro-Science and Engineering and as such, have always been highly valued by all participants. Undoubtedly, ICHE 2010 at IIT Madras will provide an opportunity for making numerous personal and professional exchanges in India and overseas. The theme of this conference is "Risk management for Hydro-Science and Engineering: towards sustainable mitigation". This is proposed based on the current needs of hydroscience community.

Themes: The Conference will deliberate to disseminate discuss and interact with peers on the following themes, but not limited to:

Water Resource and Waster Water Management
 Surface and Ground Water Resources
 Conveyance and Water Distributed Systems
 Environment Science, Engineering and Management
 Risk Analysis and Management of Water Infrastructure
 Soft engineering tools for forecasting
 Sedimentation and Morphodynamic processes
 Computational Fluid Dynamics
 Marine Hydrodynamics
 Maritime and Coastal Hydraulics

URL: <http://www.iche2010.iitm.ac.in/>

Contacts: The Organizing secretary - ICHE 2010

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International Symposium on Sediment Dynamics for a Changing Future (ICCE Warsaw 2010) (Poland, June 14-18, 2010)

From 2010-06-14 to 2010-06-18

Venue: Warsaw, Poland

Summary: The symposium is being organized in continuity of the ongoing series of ICCE symposia. Recent symposia were held in Moscow (2004), Dundee (2006) and Christchurch (2008). The Warsaw ICCE'2010 Symposium will focus on both sediment quantity and quality in river systems, considering:

- The impact of climate and land use change on sediment dynamics,
- The wide ranging ecological, social and economic impacts of changing sediment dynamics,
- The need to refine sediment monitoring and modeling techniques, and
- The need to develop improved management strategies in catchments and river basins.

Organizers: International Association of Hydrological Sciences (IAHS) and the Warsaw University of Life Sciences (SGGW)

Contact Name: Prof Dr Kazimierz Banasik

E-mail: icce2010@sggw.pl

URL: <http://www.icce2010.sggw.pl/>

6th International Symposium on Environmental Hydraulics (Greece, 23-25 June 2010)

Date: 23- 25 June 2010

Venue : Hotel Divani Caravel, Athens

Summary: The next International Symposium on Environmental Hydraulics (ISEH), sponsored by the International Association of Hydraulic Engineering and Research (IAHR), will take place for the first time in Europe, in Athens, the capital of Greece. Following the success of the 1st Symposium held in Hong Kong in 1991, the series has been established as a major event bringing together engineers and scientists working on a variety of problems related to the water environment. The field of Environmental Hydraulics has expanded considerably over the last two decades, because of the growing concern over water environmental issues associated with pollution and water

balance problems on a regional and global scale, which require a thorough understanding of processes related to environmental flows and transport phenomena and the development of new approaches for practical solutions. The 6th ISEH aims at addressing these challenges by drawing contributions describing original research and / or original applications of up – to – date theoretical, computational or experimental tools in the symposium topics.

Deadline for submission of abstracts: 30 September 2009

URL: <http://www.iseh2010.org>

Contacts: info@iseh2010.org

A conference of the World Organisation of Dredging Associations (Beijing, China, 9–14 Sept. 2010)

Date: 9–14 September 2010

Venue: .Beijing, China,

Summary: A conference of the World Organisation of Dredging Associations, WODCON XIX, Beijing, China. Organised by EADA in association of its Chinese Chapter, CHIDA

URL: A Call for Papers will be issued early 2009. See further <http://www.woda.org/>

Third International Conference on Debris Flow (24 - 26 May 2010, Milano, Italy)

Date: 24 - 26 May 2010

Venue: Milan, Italy

About the event: The University of Milan (Italy) and the Wessex Institute of Technology (UK) organize the Third International Conference on Debris Flow, which is focused on all aspects of debris flow monitoring, modelling, mitigation and management

(http://www.wessex.ac.uk/images/stories/pdf_cfps/2010/debris_flow_2010.pdf). This conference follows the success of previous meetings held in Rhodes, Greece (2006) and New Forest, UK (2008).

About the special session “Sediment transport and debris flow monitoring and analysis”: The aim of this special session is to gather researchers from the broader fields of sediment transport and debris flow phenomena. Particular attention will be given to both field data acquisition (monitoring approaches) and laboratory tests. Contributions addressing the following topics are particularly encouraged:

1. sediment transport and debris flow field monitoring strategies, techniques and methods;
2. insights of sediment transport and debris flow long term dynamics from field data interpretation;
3. bedload and debris flow physical modelling;
4. large woody debris (LWD) monitoring and modelling;
5. collection and interpretation of debris flows morphological evidences.

The session should attract scientists with different expertise and research background, who will contribute to an interdisciplinary exchange of knowledge about sediment transport and debris flow measurements, analysis and interpretation.

URL: www.wessex.ac.uk/debris2010

Deadlines: Abstracts should be sent before September 30, 2009; the deadline for the receipt of full papers will be specified together with the notification of abstract acceptance. A copy of the abstract submitted to the Conference web site must be sent by email also to one of

the Convenors listed below for its inclusion into the Special session.

Contacts (Convenors of the Special session)

Daniele De Wrachien (University of Milan, Italy,
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- River Restoration: Fluvial-Geomorphic and Ecological Tools (shortcourse, France, 7-11 June 2010)
- Third International Conference on Debris Flow (24 - 26 May 2010, Milano, Italy)
- 5th International Symposium on Gully Erosion (Poland, April 20-25, 2010)
- Integrated River Basin Management Conference (Lille, France, 15-17 March 2010)

More

(<http://www.irtces.org/isi/>)

More Coming Events in ISI Website

- 34th IAHR Biennial Congress (Australia, 26 June-1 July 2011)
- 12th International Symposium on the Interactions between Sediments and Water (Dartington, England, 19-23 June 2011)
- International Conference on the Status and Future of the World's Large Rivers (Vienna, 11-14 April 2011)
- 7th International SedNet conference (Venice, 6-9 April 2011)
- ISARM2010 International Conference: "Transboundary Aquifers: Challenges and new directions" (Paris, 6-8 December 2010)
- 2nd International Conference on Coastal Zones and Management (Sultanate of Oman, Nov. 1-3, 2010)
- Deltas in Times of Climate Change (The Netherlands, Sep. 29-Oct. 1, 2010)
- A conference of the World Organisation of Dredging Associations (Beijing, China, 9-14 Sept. 2010)
- River Flow 2010 (Germany, Sep. 8-10, 2010)
- 9th International Conference on Hydroinformatics (Tianjin, China, Sept. 7-11, 2010)
- 11th International Symposium on River Sedimentation (Stellenbosch, South Africa, 6-9, Sep. 2010)
- 13th Biennial ERB 2010 Conference on "Hydrological Responses of Small Basins to a Changing Environment" (Austria, Sep. 2-8, 2010)
- Ninth International Conference on Hydro-Science and Engineering (India, Aug. 2-5, 2010)
- 6th International Symposium on Environmental Hydraulics (Greece, 23-25 June 2010)
- International Symposium on Sediment Dynamics for a Changing Future (Poland, June 14-18, 2010)
- 20th IAHR International Symposium on Ice (Finland, June 14-18, 2010)

Newsletter Layout and Production:

ISI Technical Secretariat

The ISI Newsletter is sent quarterly to ISI-Steering Committee members and interested experts. Please send your contributions to the Chairman of ISI SC at manfred.spreadico@bafu.admin.ch or ISI technical Secretariat at chliu@iwhr.com



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