

# INTERNATIONAL SEDIMENT INITIATIVE

# NEWSLETTER

Reporting ISI news to you quarterly

No. 33 July. 2, 2014

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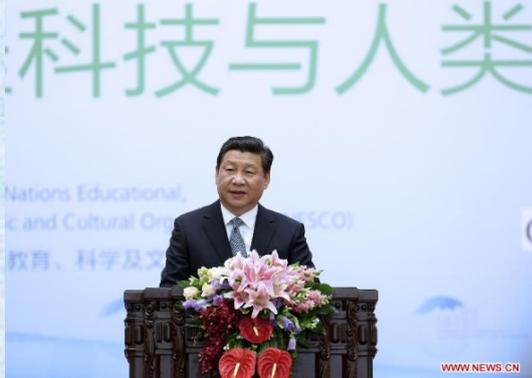
- ✧ 《国际泥沙研究》期刊 2014 年第 29 卷第 2 期论文目录 5
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## NEWS

### Xi stresses engineering's role in development (China)



Chinese President Xi Jinping addresses the International Conference on Engineering Science and Technology in Beijing, capital of China, June 3, 2014. The meeting was held in Beijing on Tuesday. (Xinhua/Pang Xinglei)

President Xi Jinping has vowed China will innovate in engineering to realize peaceful and sustainable development. Addressing the International Conference on Engineering Science and Technology in Beijing on Tuesday, Xi described engineering as a force to change the world and help China achieve fast social and economic progress. He said advancing science and technology is a strategic choice for mankind to cope with global challenges and realize sustainable development.

As the world's biggest developing country, China must give full play to science and technology in development, according to Xi. The president said that as China has adopted innovation-driven development strategy as a major national strategy, it will promote engineering innovation, strengthen governmental, semi-official and non-governmental cooperation in this regard, take part in more global science and technology cooperation projects, and improve personnel training. He noted that China has built cooperative relationships in science and technology with more than 150 countries and regions, and taken part in major global projects including the International Thermonuclear Fusion Experimental Reactor Plan, the Human Genome Project and the Galileo Project.

Prior to the speech, Xi met with UNESCO director-general Irina Bokova and William Salmon, secretary of the International Council of Academies of Engineering and Technological Sciences (CAETS), who are here for the conference. Xi praised UNESCO for promoting exchanges and mutual learning among different civilizations, and the CAETS for being the most important international academic organization on engineering technology. He said China wants to conduct more fruitful cooperation with the two organizations and jointly help develop engineering worldwide.

Bokova and Salmon spoke positively of China's support in this regard and pledged to carry out more exchanges and cooperation with China.

The conference was held on Monday and Tuesday. It was co-sponsored by the Chinese Academy of Engineering, UNESCO and the CAETS, and attracted about 1,500 directors of foreign academies of engineering, Chinese and foreign academics and professionals.

(Source: <http://www.ecns.cn/>)

### ISI members participate in the the 21st session of the IHP Intergovernmental Council of the UNESCO



The 21st session of the International Hydrological Programme (IHP) Intergovernmental Council of the UNESCO was held in Paris on 18 – 20 June 2014. Prof. Hu Chunhong, IRTCES and ISI Secretary-Generals, and Prof. Liu Cheng, IRTCES Deputy Division Chief and ISI Secretary and Steering Committee member, attended the meeting as representatives of Chinese Delegation and UNESCO Category II Centers.

The council meeting agenda includes: Institutional developments at UNESCO, Report on the implementation of the resolutions and decisions adopted at the 20th session of the IHP Intergovernmental Council, Implementation of the Eighth Phase of IHP, UNESCO's water-related institute and centres, Review of IHP-VII activities and related activities of UNESCO, Relations with United Nations, intergovernmental organizations and non-governmental organizations, etc. New proposals received from Member States for the establishment of category 1 and 2 institute and centres that have already been endorsed by the IHP Bureau were informed and discussed, including one category I in Brazil, six category II in Ethiopia, Greece, Egypt, Kuwait, Iran and Pakistan respectively. The Austria proposed the establishment of the World's Large Rivers Initiative (WLRI) that has already been endorsed by the IHP Bureau were also informed and discussed.

The IRTCES delegate made a speech on issues of the IRTCES and ISI in the agenda of Evaluation of the Seventh Phase of IHP. Contributions of the IRTCES and the ISI in sediment related researches, trainings and knowledge dissemination within the frame of the IHP were present. The speech got positive response and support from the Swiss delegation and draw attention of UNESCO officials.

A Meeting of UNESCO water-related institute and centres was held on the evening of June 19. Directors and representatives of over 20 water-related centres attended the meeting. The IRTCES delegate made a speech introducing IRTCES and its recent activities, and proposed to strengthen cooperation among institute and centres.

During the meeting, The IRTCES delegate had meetings with UNESCO officials, Dr. Anil Mishra and Mr. Imam Bisher, respectively for discussion on the future ISI development and activity, and related issues of IRTCES

agreement renewal. A meeting with ICIWaRM Director Mr. Robert A. Pietrowsky, Deputy Director Mr. William S. Logan, and a USGS expert was also held for discussion on future collaborations and joint study.

## UNESCO sets up knowledge center in Beijing



BEIJING, June 2 (Xinhua) -- The United Nations Educational, Scientific and Cultural Organization (UNESCO) set up its International Knowledge Center for Engineering Sciences and Technology (IKCEST) in Beijing on Monday.

The center will serve as a globally connected hub to assemble digital resources relating to engineering sciences and technology, build a public data service platform, provide consultation and assist scientific research and education for policy-makers and engineers, especially those from developing countries, said Pan Yunhe, deputy president of the Chinese Academy of Engineering (CAE).

The agreement for establishing the IKCEST was signed by CAE president Zhou Ji and Irina Bokova, director general of the UNESCO.

## UNESCO official Mr. Hans D. Thulstrup visits IRTCES



On April 22, 2014, Mr. Hans Dencker Thulstrup, Programme Specialist for Natural Sciences of UNESCO Office in Beijing visited the International Research and Training Center on Erosion and Sedimentation (IRTCES). Prof. Hu Chunhong, Deputy Director and Secretary-General of IRTCES welcomed Mr. Thulstrup and had a friendly talk with him.

Prof. Hu recalled recent IRTCES' cooperation with UNESCO and expressed his appreciation to UNESCO and its Office in Beijing for the long-term support to the center. Prof. Hu expressed that the IRTCES will continue to strengthen cooperation with UNESCO on activities relating to the International Hydrological Programme (IHP)

and the International Sediment Initiative (ISI) with support from the Chinese Government, Ministry of Water Resources and UNESCO, and make a positive contribution towards promoting global sustainable sediment management. Hans praised IRTCES for its activities and achievements, introduced present situation of UNESCO's Natural Sciences Sector, and expressed to continue support the development of IRTCES.

After the meeting, the Deputy Division Chief Prof. Liu Cheng presented Mr. Thulstrup the history, development and main activities of the IRTCES and its recent key areas of focus. Issues related to international training, study projects and other collaborative activities were discussed. Prof. Shi Hongling also participated in the discussion.

## Newly appointed Permanent Representative of China to UNESCO Ambassador Zhang Xiuqin visits IRTCES



On April 8, 2014, Newly appointed Permanent Representative of the People's Republic of China to UNESCO, Ambassador Zhang Xiuqin visited the International Research and Training Center on Erosion and Sedimentation (IRTCES). IRTCES Deputy Director Ning Duihu chaired a meeting to welcome Ambassador Zhang and appreciated the Permanent Delegation to UNESCO for the long-term support to the center. IRTCES Deputy Division Chief Liu Cheng presented Ambassador Zhang the history, functions, development and main activities of the IRTCES and its recent key areas of focus. Ambassador Zhang expressed appreciation for the work carried out by IRTCES and its achievements, and mentioned to continue support IRTCES, and to promote further development of the cooperation between China and UNESCO.

Division Chief Shen Yiling of the Secretariat of the China National Commission for UNESCO accompanied the visit. IRTCES Division Chief Wang Yangui, Deputy Division Chief Liu Xiaoying and Prof. Shi Hongling participated in the discussion.

## Soil erosion strikes in Mekong Delta province (Vietnam)

Soil erosion as a result of climate change and rising sea levels is worsening in the coastal areas of the Mekong Delta province of Tra Vinh, impacting greatly on the life of local residents.

Tra Vinh has a coastline of 65km, spanning nine communes and towns which are home to nearly 17,500 households. Up to 55km of that lies in Duyen Hai district. In the past decade, seawater has worn away hundreds of hectares of protective forests and residential land in Duyen Hai. Even some breakwaters built to prevent this have been damaged.

Le Thi Tuyet Mai from the district's Dan Thanh commune said that her house used to be located 400 metres from a breakwater. Now, the new breakwater has been repositioned much closer to her home. Half of her 4,000 sq.m. farmland has also been washed away, Mai said, adding that she worries her property house will one day be swept out to the sea. In nearby Hiep Thanh commune, a thousand 'phi lao' trees (a species of the Casuarinaceae family) which were planted to protect a 20-year-old breakwater have been uprooted by sea waves. Tran Cong Lap, a local resident, said the sea has swallowed four fifths of his 5,000 sq.m. of farmland, causing many difficulties for his family.

According to the Hiep Thanh People's Committee, the local shoreline has eroded severely since 1997 due to the impacts of climate change. In some sections, sea water has cut up to 2,000 metres deep into the land and washed away 200 hectares of soil, leaving a total damage of some 3 billion VND (142,800 USD), the committee added. Since 2008, Tra Vinh province has received nearly 115 billion VND (5.5 million USD) from the Ministry of Agriculture and Rural Development to reinforce breakwaters and jetties. Meanwhile, about 420 billion VND (20 million USD) has been granted to Tra Vinh for the completion of nearly 5km of jetties in 2014.

However, Nguyen Van Truong, an official of the provincial Committee for Flood and Storm Prevention and Control, said that the money allocated to his locality every year is not enough to build sea water retention facilities. If the situation continues, unfinished breakwaters will continue to be destroyed and expenses will build up, he said, adding that more support from the Government is needed to complete the system. (source: VNN/VNA, <http://english.vietnamnet.vn/>)

### More News in ISI Website

- The 21st session of the IHP Intergovernmental Council of the UNESCO is held in Paris
- Water Cooperation now an imperative according to world leaders
- The World Water Development Report 4 available in Chinese language
- Download the World Water Development Report 2014, Water and Energy
- USACE Senior Advisor Lectures at IWHR Global Vision Forum
- USACE expert Dr. Priscoli visits IWHR
- Xinhua News Agency, UNESCO sign partnership agreement in Beijing
- UNESCO sets up knowledge center in Beijing
- Xi stresses engineering's role in development (China)
- Journal "International Soil and Water Conservation Research" free downloading available
- Contents of ISWCR (Vol. 2, No.1, 2014)
- Soil erosion strikes in Mekong Delta province (Vietnam)
- That terrible landslide
- Local governments fail to offer key guidance on landslide risk (Japan)
- More than 2,100 dead in Afghanistan landslide
- China's legislation adopts revised Environmental Protection Law
- World Bank officials visits IRTCES
- UNESCO official Mr. Hans D. Thulstrup visits IRTCES
- China's underground water quality worsens: report
- Report says river will provide steady supply of sand for centuries (USA)
- Newly appointed Permanent Representative of China to UNESCO Ambassador Zhang Xiuqin visits IRTCES
- UNESCO, Sweden, SIWI Launch International Centre for Water Cooperation

More .....

[\(http://www.irtces.org/isi/\)](http://www.irtces.org/isi/)

## CONFERENCE REPORT

### Water Cooperation now an imperative according to world leaders

A side event organized by UNESCO and UN Water called the attention of World Leaders on the topic of Water Cooperation during the Rio+20 conference on 19 June 2012. UNESCO is the lead agency of the upcoming UN International Year and World Water Day on Water Cooperation (2013).

Water cooperation is multi-dimensional in nature and encapsulates cultural, educational and scientific factors, as well as religious, ethical, social, political, legal, institutional and economic aspects. A multidisciplinary approach is essential in order to grasp the many facets implied by the concept and blend them into one holistic vision. Moreover, for water cooperation to be successful and sustainable, it requires a common understanding of the needs and challenges surrounding the issue of water. Under UNESCO's leadership, the 2013 International Year and World Water Day will focus predominantly on building a consensus on adequate responses to these issues.

The session was chaired by Gretchen Kalonji, UNESCO Assistant Director General for Natural Sciences, who confirmed the commitment of the Organization as the lead agency of the upcoming UN International Year and World Water Day on Water Cooperation (2013), as declared by the United Nations General Assembly in December 2010 (A/RES/65/154).

Ms Kalonji called the attention of Member States and other actors on the need to make water an instrument of peace, making use of this International Year to promote actions on Water Cooperation at all levels. She also recalled that Tajikistan played a pivotal role in this initiative. UNESCO will lead this Year with its unique multi-disciplinary approach, combining natural and social sciences, education, culture and communication. Given the intrinsic nature of water as a transversal and universal element, the UN International Year of Water Cooperation will naturally embrace and touch upon each of the areas included in UNESCO's mandate.

H.E. Emomali Rahmon, President of Tajikistan congratulated UNESCO for its commitment and expressed his conviction that managing water resources peacefully is vital for sustainable development. He emphasised that sharing water resources means sharing responsibilities. The goal must be to prevent and resolve potential conflicts arising from the management of shared

water resources and to promote cooperation at all levels. This calls for platforms of research and exchange, for new capacities and sharing expertise. He also raised the issue of the competition over water, which is increasing worldwide and will deepen with population growth, urbanization and the impacts of climate change.

The event was an opportunity for eminent experts to contribute key messages to the Rio+ 20 dialogues. Regarding cooperation in international river basins, both Le Duc Trung (Mekong River Commission Secretariat) and Jean-Francois Donzier (International Network of Basin Organizations - INBO) stressed the importance of securing national and international political will for the sustainable management of transboundary river basins and transboundary aquifer systems.

Sven Alkalaj, Executive Secretary of the United Nations Economic Commission for Europe, informed that the EC convention on Transboundary Waters –also known as the 92 Water Convention– will be open to non European countries very soon.

Johan Kuylenstierna, Executive Director, Stockholm Environment Institute, observed multiple facets must be taken into consideration in order to achieve water cooperation.

An example of participatory process in a rural area of Brazil was illustrated by Nelton Miguel Friedrich, Director of Coordination and Environment, AguaBoa, Brazil. The Agua Boa programme is based on local community participation and fosters cooperation at all levels.

Adequate technical, scientific and institutional capacity were considered crucial by several experts such as Karin Lexén, Director of the Swedish Water House initiative at SIWI and Chair of the Swedish IHP Committee, Ivan Zavadsky, Global Environment Facility (GEF) and Lasse Gustavsson, Executive Director, WWF International.

All recommendations revolved around the need for water cooperation at all level as crucial means to overcome water-related challenges. Water cooperation is essential to guarantee a decent daily life and basic well-being to all by providing water security .

In a closing statement, all panellists agreed that Cooperation is not a matter of choice – it is an imperative.

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

## PUBLICATION

### Papers Published in Issue 2 Volume 29, 2014, International Journal of Sediment Research



Volume 29, Number 2

June 2014

#### Technical Papers

An integrated suspended sediment transport monitoring and analysis concept

Marlene HAIMANN, Marcel LIEDERMANN, Petra LALK, and Helmut HABERSACK 135–148

Reflectance spectral characterization and mineralogy of acid sulphate soil in subsurface using hyperspectral data

Xian-Zhong SHI, Mehrooz ASPANDIAR, and David OLDMEADOW 149–158

Assessment of the sources of chemical elements in sediment from Arak Mighan Lake

Feridon GHADIMI 159–170

Shallow sediment transport flow computation using time-varying sediment adaptation length

Jaan Hui PU, Khalid HUSSAIN, Song-dong SHAO, and Yue-fei HUANG 171–183

Grain-size distribution in suspension over a sand-gravel bed in open channel flow

Koeli GHOSHAL and Debasish PAL 184–194

Stochastic particle based models for suspended particle movement in surface flows

Christina W. TSAI, Chuanjian MAN, and Jungsun OH 195–207

Sediment settling in the Latian Dam in Iran

Farhang BEHRANGI, Mohammad Ali BANIHASHEMI, Shayesteh MAHANI, and Mohammad Reza RAHMANIAN 208–217

Quantitative estimation of sediment erosion and accretion processes in a micro-tidal coast

G. Udhaba DORA, V. Sanil KUMAR, P. VINAYARAJ, C. S. PHILIP, and G. JOHNSON 218–231

Near-bed sediment transport in a heavily modified coastal plain estuary

Gao-feng LIU, Jia-xue WU, and Yuan-ye WANG 232–245

Sediment dynamics in an offshore tidal channel in the southern Yellow Sea

Wen-fei NI, Ya-ping WANG, Xin-qing ZOU, Ji-cai ZHANG, and Jian-hua GAO 246–259

#### Technical Notes

Clastic sedimentary features of beachrocks and their palaeo-environmental significance: comparison of past and modern coastal regimes

David PSOMIADIS, Konstantinos ALBANAKIS, Nikoleta ZISI, Matthieu GHILARDI, and Elissavet DOTSIKA 260–268

Pier scour monitoring system by bed-level image tracking

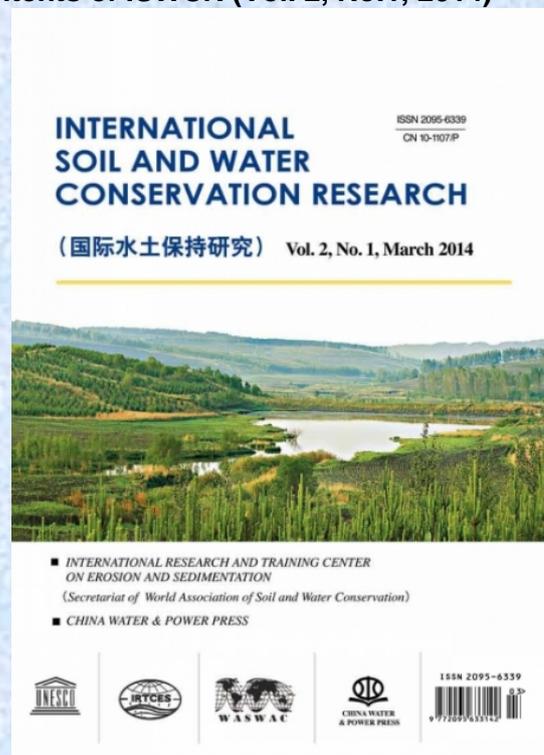
Wen-Yi CHANG, Jihn-Sung LAI, Teng-Yi YU, Franco LIN, Lung-Cheng LEE, Whey-Fone TSAI, and Chin-Hsiung LOH 269–277

Phosphorus forms and distribution in Zhejiang coastal sediment in the East China Sea

Min CONG, Tao JIANG, Yu-zao QI, Hong-po DONG, De-qiang TENG, and Song-hui LU 278–284

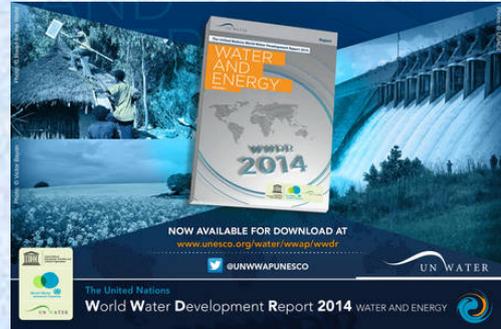
Cover Photo: Johnson's shut-ins on East Fork Black River in Missouri

### Contents of ISWCR (Vol. 2, No.1, 2014)





## Download the World Water Development Report 2014, Water and Energy



Download the World Water Development Report 2014 (WWDR), Water and Energy, and visit our media corner, where you can find all the materials related to the new WWDR 2014!

<http://unesdoc.unesco.org/images/0022/002257/225741E.pdf>

## Publications in ISI Information System

- The World Water Development Report 4 available in Chinese language
- Download the World Water Development Report 2014, Water and Energy Changes in runoff and sediment load from major Chinese rivers to the Pacific Ocean over the period 1955–2010 (Liu et al., 2013)
- Suspended-Sediment Concentrations during Dam Decommissioning in the Elwha River, Washington (Curran et al., 2014)
- Final Report of the UNESCO Strategic and High-Level Meeting on Water Security and Cooperation (Nairobi, 11-13 September 2013)
- Dutch Guidance Document for Sediment Assessment
- Risk-Informed Management of European River Basins (Brils et al., 2014)
- Advances in River Sediment Research (Fukuoka et al.)
- Eroding Soils Darkening Our Future (Brown)
- Morphodynamic signatures of braiding mechanisms as expressed through change in sediment storage in a gravel-bed river (Wheaton et al.)

More .....

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

## COMING EVENTS

### 5th International Conference on Estuaries and Coasts (Oman, Nov. 2-4, 2015)

**Date:** November 2–4, 2015

**Venue:** Muscat, Sultanate of Oman

**Summary:** The Middle East region is going through an era of rapid coastal development which may be attributed to the strategic location of this region. Usually such developments bring economic growth and pose environmental concerns at the same time. This region has a diversity of sea grass beds, coral reefs, mangroves and salt marshes. Therefore, it is important to involve engineers and environmental professionals in the decision making process related to coastal and marine construction in order to minimize damage to the important ecosystems. ICEC 2015 will serve as a venue for engineers, researchers and administrators from industry, academia and public agencies to discuss and exchange information on issues important to sustainable coastal development.

**Organizer:** Sultan Qaboos University

**Sponsors:** International Research and Training Centre on Erosion and Sedimentation (IRTCES)  
Sultan Qaboos University

The Research Council, Oman

Potential Sponsors from Public and Private Sectors in the Sultanate of Oman

**Co-Sponsors:** UNESCO, IAHR, IAHS, WASER, and other institutes and organizations to be invited

**Secretariat:** Sultan Qaboos University

**Permanent Secretariat:** IRTCES

**Conference Themes:**

- \* Coastal erosion: measurements, modeling, management
- \* Seawater quality: coastal and offshore pollution, measurements, modeling, solutions
- \* Tsunami: field observations, numerical modeling, mitigation
- \* Estuaries: water quality observations, modeling and effect on marine resources, mangrove rehabilitation
- \* Integrated Coastal Zone Management: approaches, measures
- \* Seawater intrusion: measurement, modeling, management
- \* Social, economical and political problems involving coasts and estuaries

**URL:**

online submissions:

<https://www.easychair.org/conferences/?conf=icec2015>

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### 36th IAHR World Congress 2015 (the Netherlands, June 28-July 3, 2015)

**Date:** 2015-06-28 to 2015-07-03

**Venue:** Hague, the Netherlands

**Summary:** It's no wonder the global focus on water has increased rapidly. Two major problems face us: the lack of access to safe water and sanitation and increasing water-related disasters such as floods and droughts. Hydro-environment engineering and research is more important than ever. So don't miss the next IAHR World Congress at the World Forum in The Hague. From 28 June to 3 July 2015! The 36th IAHR World Congress will provide special emphasis on cross-cutting themes related to Deltas of the Future, looking at what happens upstream, linking hydro-environment research to engineering practice, and reaching out to the developing world. On behalf of the International Association for Hydro-Environment Engineering and Research (IAHR) the Local Organizing Committee cordially invites you to attend! The Netherlands may be a small country, its achievements in high safety level coastal protection works are well-known around the world. Being located in the delta of the Rhine-Meuse river system, the Netherlands has been dealing with issues related to flooding, land reclamation, and sustainable development for centuries already. The Netherlands is also preparing for dealing with future effects or population growth and climate change, by developing new concepts like the Room for the River and Building with Nature programmes. But there are more reasons why the Netherlands offers an ideal location for issues related to water governance and water conflict resolution. The Hague is located near the coast in the Western part of the Netherlands, with easy connections to Amsterdam Schiphol Airport, one of the busiest airports in Europe. In early summer, the weather is generally pleasant and warm. The historic city of The Hague is home to the Dutch Parliament and the International Court of Justice. Furthermore, the city of Delft, only 10 km away, holds a number of leading technological institutes focusing on education, research and capacity development in various fields of water and environment. During the week prior to the IAHR World Congress, several short courses and master classes will be given at Delft University of Technology, UNESCO-IHE and Deltares. The Hague is 20 km from the Port of Rotterdam, which is the busiest port in Europe and the world's fifth largest.

**Key Dates:**

September 30, 2014: Submission of abstracts

November 1, 2014: Notification of acceptance

February 1, 2015: Full paper submission

April 1, 2015: Final paper submission

June 21–June 27, 2015: Short courses / Master Classes, Delft

June 28–July 3, 2015: IAHR World Congress, The Hague

**URL:** <http://iahr2015.info/>

**Contacts:**

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Tel: +31 15 2151 747

Linkedin: <http://linkd.in/1gl3TnO>

Twitter: IAHR2015

Facebook: IAHR2015

### 5th International Conference on Water and Flood Management (Bangladesh, 6-8 March 2015)

**Date:** 6-8 March 2015

**Venue:** Dhaka, Bangladesh

**Summary:** The purpose of the conference is to discuss the problems and issues and to advance knowledge on water and flood management in order to promote environmentally sustainable development. A special goal for the 5th ICWFM would be to invite presentations of recent research outcomes that would enhance the knowledge base on physical processes and better management of delta. Towards this, the conference aims to bring academicians, researchers, professionals, decision makers and policy makers together for exchange of views and experiences on water and flood management with special emphasis on delta management. It will focus on integrated approach to address issues like increasing water use efficiency, improving water resources system performance, reducing vulnerability and developing resiliency against water related hazards, preserving environmental quality, protecting ecosystem, coping with climate variability, promoting participatory management, and ensuring equity and social justice in decision making process. It seeks to bring forward research findings, case studies, success stories, recent advances in planning and design methodologies, and examples of improved water management policies, institutions, strategies and practices. A special plenary session for current research and actions on delta management would be held during the conference.

**Organizer:** The Institute of Water and Flood Management (IWFM) of BUET

**Sponsor:** Embassy of the Kingdom of Netherlands

**Co-Sponsors:** The Center for Environmental and Geographic Information Services (CEGIS) and Institute of Water Modelling

**Conference Main Themes:**

- \* Catchment Processes, Ecosystems and Quality of Environment
- \* Flood Management
- \* River Basin Management
- \* Urban Water Management
- \* Agricultural Water Management
- \* Coastal Zone Management
- \* Water Governance and National Development
- \* Water Information Management
- \* Climate Change Impacts on Water Management

**Correspondence:** All correspondence concerning the conference should be sent to E-mail:

[icwfm2015@gmail.com](mailto:icwfm2015@gmail.com)

**Conference Secretariat:**

ICWFM-2015

Institute of Water and Flood Management (IWFM)

BUET, Dhaka-1000, Bangladesh

Tel: 880-2-9665601

Fax: 880-2-8613046, 880-2-9665601 (Attention: ICWFM-2015)

**URL:** <http://www.buet.ac.bd/iwfm/icwfm2015.php>

**International Conference on the Status and Future of World's Large Rivers (Brazil, 21-25 July 2014)**

**Date:** 21-25 July 2014

**Venue:** Manaus/Amazon/Brazil

**Summary:** This conference 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. We strongly encourage scientists and practitioners to present their research results and experiences in the fields of

- Hydrology, hydraulics & water quality
- Sediment transport & river morphology

- Ecology & restoration
- as well as in a special session about
- Amazonia (incl. ORE-HYBAM research)

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

**Contacts:**

Naziano Filizola

Chair of Local Organizing Committee (LOC)

Helmut Habersack

Chair of International Scientific Committee (ISC)

[worldslargerivers@boku.ac.at](mailto:worldslargerivers@boku.ac.at)

**6th International Conference on Flood Management (Brazil, Sep. 16-18, 2014)**

**Date:** September 16-18, 2014

**Venue:** São Paulo – Brazil

**Summary:** The 6th International Conference on Flood Management (ICFM6) marks the continued advancement of flood management practices and policies around the world. The name change from "Defence" as used in the previous four events to "Management" is reflective of the more integrative approaches to flood management that nations are increasingly employing. The first International Symposium on Flood Defence, held in Kassel, Germany in 2000, emphasized flood defence measures with each successive event (Beijing 2002, Nijmegen 2005, Toronto 2008 and Tsukuba 2011) evolving towards more integrative approaches, including risk, vulnerability and capacity building. The ICFM6 theme is "Floods in a changing Environment". ICFM is the only recurring international conference wholly focused on flood related issues. It is designed to bring together practitioners and researchers alike, including engineers, planners, health specialists, disaster managers, decision makers, and policy makers engaged in various aspects of flood management. It provides a unique opportunity for these various specialists to come together to exchange ideas and experiences. ICFM6 will be held in São Paulo (SP), Brazil September 16-18, 2014, and will be organised by the Brazilian Water Resources Association and Acquacon Consultoria.

**Key Themes:** The event will focus on the following seven key themes:

1. Urban Floods
2. Floods in a changing climate
3. Flood risk management in mega cities
4. Impact of climate change on flood risk
5. Land use and Floods, landslides and erosion
6. Flood forecasting and early warning systems
7. Flood resilient societies through community preparedness

**URL:** <http://icfm6.com/>

**Executive Secretariat:**

Acqua Consultoria

CADASTUR: 26.038288.80.0001-3

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05004-020 - São Paulo - SP

Fone / Fax: 55 11 3868-0726

[icmf6@acquacon.com.br](mailto:icmf6@acquacon.com.br)

[www.acquacon.com.br/icmf6](http://www.acquacon.com.br/icmf6)

**River Flow 2014 (Switzerland, Sep. 3-5, 2014)**

**Date:** Sep. 3-5, 2014

**Venue:** Lausanne, Switzerland

**Summary:** On behalf of the IAHR Committee on Fluvial Hydraulics it is our pleasure to invite you to participate at River Flow 2014 – the 7th International Conference on Fluvial Hydraulics – at EPFL, Lausanne, Switzerland. The conference intends to create an environment for reflection,

discussion and exchange of knowledge regarding fluvial hydraulics and river morphology. It is an opportunity to meet, to discuss and to learn about the interaction between water, sediments and structures in natural or built environments. The conference offers scientific presentations, site visits and master classes given by experts from different countries. It further aims to link science with river engineering practice. It would be a pleasure to meet you at EPFL in September 2014!

**Organizer:** IAHR Committee on Fluvial Hydraulics

**Theme and Topics:**

- A. River hydrodynamics
- B. River morphology and sediment transport
- C. River engineering and restoration
- D. Reservoir sedimentation
- E. Swiss competences in river engineering and restoration (KOHS).

**URL:** <http://riverflow2014.epfl.ch/>

**Contacts:**

Ecole Polytechnique Fédérale de Lausanne (EPFL)  
 Station 18, CH-1015 Lausanne, Switzerland  
 Web: <http://lch.epfl.ch> (website LCH)  
 Email: [riverflow2014@epfl.ch](mailto:riverflow2014@epfl.ch)  
 Phone: +41(21)693.63.24  
 Fax: +41(21)693.22.64

### ICCE Symposium on Erosion and Sediment (USA, Dec 11-14, 2014)

**Date:** Dec 11-14, 2014

**Venue:** New Orleans, USA

**Summary:** An international symposium on erosion and sediment, ICCE 2014, will be held in the city of New Orleans, USA, December 11-14, 2014. The symposium is a series of symposia organized under the auspices of the International Commission on Continental Erosion (ICCE), which is one of the ten commissions of the International Association of Hydrological Sciences (IAHS). The first ICCE symposium was held in Florence, Italy in 1981, and recent symposia have been held in Moscow, Russia in 2004, Dundee, United Kingdom in 2006, Christchurch, New Zealand in 2008, Warsaw, Poland in 2010, and Chengdu, China in 2012. The 2014 ICCE Symposium in New Orleans will have the following themes:

- Monitoring and modeling erosion on hills, floodplains, and coastal shorelines
- Monitoring and modeling sediment transport in streams, rivers, and estuaries
- Erosion and sediment-associated chemical transport across landscape and waterscape
- Land use and climate change effects on erosion and sediment transport
- Interactions between sediment hydrodynamics, channel morphodynamics, river delta, and coastal processes

**URL:** <http://www.mr.lsu.edu/icce2014/>

**Contact:** Symposium Organizing Committee  
[ICCE2014NO@gmail.com](mailto:ICCE2014NO@gmail.com)

### 7th International Conference on Scour and Erosion (Dec. 2 – 4, 2014, Australia)

**Date:** Dec 2-4, 2014

**Venue:** Perth, Western Australia

**Summary:** The first six conferences were successfully held in Texas, USA (2002), Singapore (2004), Amsterdam, The Netherlands (2006), Tokyo, Japan (2008), San Francisco, USA (2010) and Paris, France (2012). The objective of the conference is to provide a platform for scientists and engineers from various disciplines (e.g. Hydraulic and

geotechnical engineering) to exchange ideas and report advances in research and practice on scientific and engineering challenges related to scour and erosion. The broad topics covered in ICSE conferences include fundamental mechanisms of erosion and scour, modelling (both physical and numerical) of erosion and scour processes and engineering applications that involve scour and erosion processes. The ICSE conferences have been well attended by scientists and engineers from broad areas such as Civil Engineering, hydraulic Engineering, Coastal and Offshore Engineering. One of the strong features of the ICSE conferences has been the cross discipline collaborations and exchanges between geotechnical and hydraulic engineers. ICSE-7 will endeavour to maintain the traditions of the ICSE conferences and build on the success of the previous ICSE conferences. You will find Perth, the Capital City of Western Australia a unique place to visit. I hope you will be able to join us and play your part in making the ICSE-7 a successful and memorable event.

The ICSE conference series is the biennial meeting of hydraulic and geotechnical engineers discussing all issues of scour and erosion, including internal erosion and filtration topics. It was initiated by the International Society for Soil Mechanics and Geotechnical Engineering (ISSMGE) in 2002 and is currently run by the Technical Committee TC213 "Scour and Erosion" (<http://scour-and-erosion.baw.de/>)

Prof. Liang Cheng of the University of Western Australia will organize the forthcoming conference.

**URL:** <http://www.2014icse.com/index.html>

### 11th International Conference on Hydroscience & Engineering (Germany, Sep. 28-Oct. 2, 2014)

**Date:** 28 September to 2 October 2014

**Venue:** Hamburg, Germany

**Summary:** ICHE 2014 in Hamburg is the latest in a well-established series of bi-annual Hydroscience & Engineering conferences, which began in Washington, DC in 1993. Beijing hosted ICHE in 1995, followed by Cottbus (1998), Seoul (2000), Warsaw (2002), Brisbane (2004), Philadelphia (2006), Nagoya (2008), Chennai (2010) and Orlando (2012). These conferences have served as a welcome forum to report and discuss the latest scientific advancements and practitioner's solutions in hydroscience and engineering. Four full days of presentations under the slogan "Hydro-Engineering for Environmental Challenges" will put you in touch with researchers from many disciplines and will provide ample networking opportunities for future activities.

**Theme and Topics:** Conference topics include:

- Water Resources Planning and Management
- Experimental and Computational Hydraulics
- Groundwater Hydrology, Irrigation
- Urban Water Management
- River, Estuarine and Coastal Dynamics
- Sediment Transport and Morphodynamics
- Interaction between Offshore Utilisation and the Environment
- Climate Change, Adaptation and Long-Term Predictions
- Eco-Hydraulics and Eco-Hydrology
- Integrated Modeling of Hydro-Systems
- Uncertainty and Reliability of Hydro-Systems
- Remote Sensing and Field Monitoring
- Information Management and Decision Support Systems
- Academic and Professional Training

**URL:** <http://www.iche2014.baw.de/why/index.html>

## 19th IAHR-APD 2014 Congress (Vietnam, Sep. 21-24, 2014)

**Date:** 21 - 24 September 2014

**Venue:** Water Resources University, Hanoi, Vietnam

**Summary:** On behalf of the 19th IAHR-APD 2014 Congress, and IAHR, we are delighted to extend our personal invitation to you to join us in Hanoi, Vietnam for the 19th IAHR-APD (IAHR Asian and Pacific Regional Division) 2014 Congress of the International Association for Hydro-Environment Engineering and Research (IAHR). Water Resources University is collaborating with IAHR to organize the 19th IAHR APD Congress. The Congress theme "Working globally on water and climate change issues but acting locally" focuses on the central roles of hydraulic engineering, hydrology and water resources, estuarine and coastal engineering, and environmental hydraulics in our changing world, and how these roles link to the broader issues. Water related disaster and climate change are becoming hot issues in many regions of the world and the Pacific Region as well. Careful management and innovative solutions are required and solutions must be able to deal with the uncertainty in the natural world as well as the changing human world. Hanoi, Vietnam is an attractive destination - a developing city, within close proximity to some of the world's heritage attractions! We look forward to welcoming you to our 19th IAHR-APD 2014 Congress in September 2014 to what we are confident will be the best ever IAHR APD Congress.

Prof. Dr. Nguyen Quang Kim

Rector of Water Resources University

Chairperson, Local Organizing Committee

19th IAHR-APD 2014 Congress

**Host:** Water Resources University, Hanoi, Vietnam

**URL:** <http://iahr-apd2014.wru.edu.vn/>

**Contacts:**

The Secretariat of the IAHR-APD 2014

175 Tay Son, Dong Da, Ha Noi, Vietnam

Phone: +84 - 4- 5638069 Fax: +84 - 4- 5638923

Email: iaHR-APD2014@wru.edu.vn

## The 4th International Symposium on Sediment Management (Italy, Sept. 17-19, 2014)

**Date:** Sept. 17-19, 2014

**Venue:** Ferrara, Italy

**Summary:** The 4th International Symposium on Sediment Management (I2SM) will be held in Ferrara, Italy, Sept. 17-19, 2014, during the annual RemTech Expo. The symposium is organized by Ferrara Fiere Congressi, Politecnico di Milano—Department of Civil and Environmental Engineering—Environmental Section, and the École des Mines de Douai. The aim of I2SM is to gather academics, industry professionals, and public agencies involved in sediment issues to discuss the state-of-the-art. Previous editions of I2SM were held in Lille (France, 2008), Casablanca (Morocco, 2010) and Alibaug (India, 2012). The event will consist of an opening plenary session followed by parallel technical sessions. The official language of I2SM 2014 is English. Simultaneous translation (English to Italian) is available at some of the sessions.

**URL:** <http://i2sm.remtechexpo.com/>

**Contacts:**

For general information about the Symposium and registration, please contact: [i2sm@remtechexpo.com](mailto:i2sm@remtechexpo.com)

For enquiries about the scientific program, abstract and paper submission, please contact: [i2smscientific@remtechexpo.com](mailto:i2smscientific@remtechexpo.com)

## More Coming Events in ISI Website

- 5th International Conference on Estuaries and Coasts (Oman, Nov. 2-4, 2015)
- 36th IAHR World Congress 2015 (the Neatherlands, June 28-July 3, 2015)
- 5th International Conference on Water and Flood Management (Bangladesh, 6-8 March 2015)
- ICCE Symposium on Erosion and Sediment (USA, Dec 11-14, 2014)
- 7th International Conference on Scour and Erosion (Dec. 2 – 4, 2014, Australia)
- The 22nd RSC Meeting for Southeast Asia and the Pacific, UNESCO-IHP 2014 (Indonesia, Nov. 10-14)
- 11th International Conference on Hydrosience & Engineering (Germany, Sep. 28-Oct. 2, 2014)
- 19th IAHR-APD 2014 Congress (Vietnam, Sep. 21-24, 2014)
- The 4th International Symposium on Sediment Management (Italy, Sept. 17-19, 2014)
- 6th International Conference on Flood Management (Brazil, Sep. 16-18, 2014) (2014-9-16 15:31) (Hits:902)
- River Flow 2014 (Switzerland, Sep. 3-5, 2014)
- International Conference on the Status and Future of World's Large Rivers (Brazil, 21-25 July 2014)

More .....

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



**INTERNATIONAL SEDIMENT INITIATIVE (ISI)**  
 International Hydrological Programme (IHP)  
 UNESCO

**ORGANISATION: UNESCO**

Blanca Jimenez Cisneros	UNESCO, Paris
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Kaligang Yellow River Bridge on the Yellow River in China (by Zhao-Yin Wang)