

# INTERNATIONAL SEDIMENT INITIATIVE

# NEWSLETTER

*Reporting ISI news to you quarterly*

No. 34 Sept. 26, 2014

## IN THIS ISSUE

### News

- ✧ ISI Steering Committee Core Group Meeting held in Beijing on August 5 – 6, 2014 1
- ✧ In Memoriam Professor Stevan Bruk (1924-2014) 1
- ✧ New International Centre for Water Resources and Global Change 1
- ✧ SCI Impact Factor of the International Journal of Sediment Research for 2013 is 0.977 2
- ✧ Water Institute Develops Sediment Capture Methodology (USA) 2
- ✧ [PIC]Three Gorges Dam discharges flood water 2
- ✧ More News in ISI Website 3

### Conference Report

- ✧ International Workshop on Sediment Management in Water Resources and Hydropower Projects organized in Beijing and Yichang 4
- ✧ The 6th International Conference on Flood Management held in Sao Paulo on September 16-18, 2014 5

### Publication

- ✧ Papers published in Issue 3 Volume 29, 2014, IJSR 6
- ✧ Contents of ISWCR (Vol. 2, No.2, 2014) 6
- ✧ Publications in ISI Information System 7

### Coming Events

- ✧ 5th International Conference on Estuaries and Coasts (Oman, Nov. 2-4, 2015) 8
- ✧ 36th IAHR World Congress 2015 (the Neatherlands, June 28-July 3, 2015) 8
- ✧ 8th International Conference on Remediation and Management of Contaminated Sediments (USA, Jan. 12-15, 2015) 8
- ✧ International Youth Forum of Soil and Water Conservation (China, Oct. 16-18, 2015) 9
- ✧ 5th International Conference on Water and Flood Management (Bangladesh, 6-8 March 2015) 9
- ✧ ICCE Symposium on Erosion and Sediment (USA, Dec 11-14, 2014) 9
- ✧ 7th International Conference on Scour and Erosion (Dec. 2 – 4, 2014, Australia) 10
- ✧ More Coming Events in ISI Website 10

## UNESCO “国际泥沙计划” 简报

### 本期内容

#### 新闻

- ✧ 联合国教科文组织国际泥沙计划专家指导委员会工作会议在京召开 1
- ✧ 悼念史蒂文·布鲁克教授(1924-2014) 1
- ✧ 新的水利及全球变化国际中心成立 1
- ✧ 《国际泥沙研究》期刊 2013 年 SCI 影响因子为 0.977 2
- ✧ 水研究院开发泥沙捕获技术(美国) 2
- ✧ [图片]三峡工程泄洪 2
- ✧ ISI 网更多新闻 3

#### 会议报道

- ✧ 国际水利水电工程泥沙管理研讨会在京举办 4
- ✧ 第六届洪水管理国际研讨会在圣保罗召开 5

#### 出版物

- ✧ 《国际泥沙研究》期刊 2014 年第 29 卷第 3 期论文目录 6
- ✧ 《国际水土保持研究》期刊 2014 年第 2 卷第 2 期论文目录 6
- ✧ ISI 信息系统更多出版物 7

#### 会议信息

- ✧ 第五届河口海岸国际研讨会(阿曼, 2015 年 11 月 2-4 日) 8
- ✧ 第三十六届 IAHR 大会(荷兰, 2015 年 6 月 28 日-7 月 3 日) 8
- ✧ 第八届污染泥沙修复及管理国际研讨会(美国, 2015 年 1 月 12-15 日) 8
- ✧ 水土保持国际青年论坛(中国, 2015 年 10 月 16-18 日) 9
- ✧ 第五届国际水与洪水管理大会(孟加拉, 2015 年 3 月 6-8 日) 9
- ✧ 国际大陆侵蚀委员会关于侵蚀与泥沙的讨论会(美国, 2014 年 12 月 11-14 日) 9
- ✧ 第七届国际冲刷与侵蚀研讨会(澳大利亚, 2014 年 12 月 2-4 日) 10
- ✧ ISI 网更多会议信息 10

## NEWS

### ISI Steering Committee Core Group Meeting held in Beijing on August 5 – 6, 2014



The ISI Steering Committee Core Group Meeting was held at the International Research and Training Center on Erosion and Sedimentation (IRTCES) in Beijing on August 5 – 6, 2014. Participants included:

Prof. Manfred Spreafico, Chairperson of ISI Steering Committee;

Prof. Des Walling, member of ISI Steering Committee;

Mr. Zhao Hao, Division Director, Department of International Cooperation, Science and Technology, Ministry of Water Resources, P. R. China (MWR);

Prof. Duihu Ning, Deputy Director of IRTCES

Dr. Cheng Liu, Deputy Division Chief of IRTCES and member of ISI Steering Committee

Mr. Hans Dencker Thulstrup, Programme Specialist for Natural Sciences, UNESCO Office in Beijing

Dr. Anil Mishra, Programme Specialist, Section on Hydrological Systems and Global Change, International Hydrological Programme (IHP), UNESCO/Division of Water Sciences

In the meeting, the past ISI activities and achievements, and ISI Technical Secretariat were reviewed. The ISI objectives and overall strategy were reviewed and the need for updating discussed. ISI will contribute towards the 8th phase of IHP (2014-2021) with the title “Water security: responses to local, regional and global challenges” by addressing the wide-ranging social, economic and environmental impacts of erosion, sediment transport and sedimentation processes with due consideration of gender perspectives. ISI addresses both sediment quantity and quality within the context of global change. The meeting recognized the need to reorganize ISI’s governing structure in order to ensure the continued efficient coordination of the initiative. Future priorities and initiatives, including updating the ISI website, a training workshop, updating the guidelines for case studies, undertaking new case studies and revising past case studies, joint activities with other UNESCO programmes, Centres and Chairs, and developing guidelines and best practices in collaboration with partners and donors, were discussed.

### In Memoriam Professor Stevan Bruk (1924-2014)

ISI Steering Committee member Prof. Dr. Stevan Bruk passed away on 12 August 2014 in Belgrade at the age of 91. The demise of Prof. Bruk is a great loss for the International Hydrological Programme (IHP) and the International Sediment Initiative (ISI) communities. Prof. Stevan Bruk was a great supporter of ISI. His profound knowledge and ideas played a key role in establishing and shaping the scope of ISI. For many years after his retirement he provided sound advice and guidance to both the IHP and ISI. His very important contribution to these programmes will be long remembered.



### New International Centre for Water Resources and Global Change

UNESCO and the Federal Republic of Germany signed an agreement on 9 July 2014 in Berlin to establish an International Centre for Water Resources and Global Change under the auspices of UNESCO (Category 2 centre) in Koblenz, Germany. The new Centre will assist Member States and collaborate with other water centers and chairs to facilitate and support research and capacity to help understand the scope of global change impacts on water resources in order to manage the water resources in a sustainable and adaptive way.

Water resource challenges to attain water security are increasingly taking on a global dimension among governments due to increasing water scarcity, water pollution and uncertainty with the associated effects on water for people, energy, food and ecosystems. When inadequate in quantity and quality, water can serve as a limiting factor in poverty alleviation and economic recovery, resulting in poor health and low productivity, and constrained economic development.

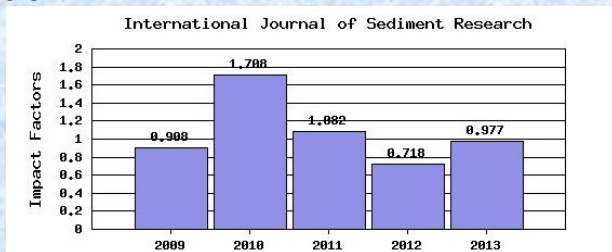
Even though the total amount of global water is sufficient to cover average global and annual water needs for all, regional and temporal variations in the availability of water are causing serious challenges with over two billion people living in severely water-stressed areas. Alongside the natural factors affecting water resources, human activities have become the primary ‘drivers’ of the pressures on our planet’s water resources systems. In addition to urbanization, expansion of infrastructure, migration, land conversion and pollution, other global change drivers such as climate change are aggravating the situation and are altering our planet in dramatic way.

No institution or country can face the challenges they pose alone. UNESCO’s International Hydrological Programme (IHP), which is the only global intergovernmental scientific programme on water freshwater resources of the UN system, fosters the cooperation needed to bring all players together, whether they are Member States, research institutions, universities, UN Agencies, NGOs, national or international

organizations. Created following a proposal by the Federal Republic of Germany, the new German Centre will join UNESCO's broad water family, which comprises more than 30 water-related centers. They all contribute to the implementation of IHP at the international and regional level. Challenges caused by the impact of global changes on water are among the priorities of the current phase of IHP, entitled: "Water Security: Responses to Local, Regional and Global Challenges" (IHP-VIII, 2014-2021).

The International Centre for Water Resources and Global Change will focus its activities on sustainable development and integrated water resources management by supporting hydrological research, education, training and raising awareness at all levels; the development of tools for operational purposes; international experts networking and the transfer of information and knowledge are key areas of the centers operation. It will assist Member States and collaborate with other water centers and chairs in finding better and more efficient solutions to day-to-day problems, as well as play a catalytic role in promoting holistic integrated actions amongst all water practitioners, ultimately leading to more sustainable societies. (Source: <http://en.unesco.org/news>)

### SCI Impact Factor of the International Journal of Sediment Research for 2013 is 0.977



The SCI Impact Factor of the International Journal of Sediment Research (IJSR) for 2013 is 0.977 according to the recently released Thomson Reuters Journal Citation Reports.

International Journal of Sediment Research (IJSR) is an international scientific journal published by the International Research and Training Centre on Erosion and Sedimentation (IRTCES). The Journal was launched in 1986 and has been publishing sediment-related studies with emphasis on engineering sedimentation problems. It is devoted exclusively to the reporting of progress in understanding the mechanics of sediment transport and fluvial processes and includes coverage of geomorphology, soil erosion, sediment yield, soil conservation, environmental and ecological impacts of sedimentation and the social and economic effects of sedimentation and their assessment. Special attention is paid to engineering problems related to sedimentation and erosion, mainly for readers outside of China. It has established a good international reputation. Many well-known researchers hold the Journal in high regard. The Journal has published 4 issues a year since 1998. Papers of the journal have been included in Engineering Information (EI) since 1997. The journal became the official journal of the World Association for Sedimentation and Erosion Research (WASER) in 2004. The journal has been available to a global audience electronically via the premier online platform ScienceDirect since 2008.

Submission of your upcoming papers on sediment and river related topics to the International Journal of Sediment Research is encouraged. Your paper will receive the high visibility of an Elsevier and SCI journal,

and it can be published more quickly than in many other journals. Further, the Journal needs to maintain and improve the quality that gained it acceptance by the SCI, and your submission of quality papers will help us maintain and increase the quality standards of the Journal. (Special thanks to Mr. David Ding from Thomson Reuters for providing information of the IJSR Impact Factors)

### Water Institute Develops Sediment Capture Methodology

Water Institute scientists Mead Allison, director of physical processes and sediment systems, and Ehab Meselhe, director of natural systems modeling and monitoring, are leading research efforts focused on configuring river diversion projects in order to optimize sediment capture, which will help create and sustain coastal wetlands.

Their findings will be published in Water Resources Management's September 2014 edition, Volume 28, No. 12.

Joining Allison and Meselhe as an author of the article, "Diversion of Mississippi River Water Downstream of New Orleans, Louisiana, USA to Maximize Sediment Capture and Ameliorate Coastal Land Loss," is Michael T. Ramirez, Ph.D. student at Tulane University's Department of Earth and Environmental Sciences.

The idea to couple data collection and predictive modeling is an example of a larger Water Institute effort to integrate applied research and further understand current coastal dynamics – part of the Institute's emphasis on linking knowledge to action.

"Having our work peer-reviewed and published in prominent journals continues to add to the scientific credibility of our work at The Water Institute," Allison said. "These observational studies and this research will be critical in providing information that will lead to more informed decisions regarding coastal restoration projects."

Extensive boat-based field data collection and analytical modeling is used to compare and calibrate results of numerical simulations of river hydrodynamics and sediment dynamics created by The Water Institute.

This kind of fieldwork is made possible by The Water Institute's diverse suite of instrumentation, boats and tow vehicles that operate in highly dynamic environments, like the Mississippi River and other coastal environments throughout the region. (Source: <http://www.dredgingtoday.com/>)

### [PIC] Three Gorges Dam discharges flood water



Flood water is discharged through the sluice gate of the Three Gorges Dam, Sept 3, 2014. Due to continuous rainfall upstream, the reservoir saw its biggest flood peak this year on Sept 2 leading to the discharge. [Photo/Xinhua]



### More News in ISI Website

- Contents of ISWCR (Vol. 2, No.2, 2014)
- Professor receives grant to improve Mississippi River sustainability (USA)
- Landslide in Three Gorges region damages power station
- [PIC]Three Gorges Dam discharges flood water
- Coastal erosion - A challenge for small island developing states (Trinidad)
- World Bank Calls for Domestication of \$500m Erosion, Watershed Project (Nigeria)
- Minutes of ISI Core Group Meeting (Beijing, August 5 – 6, 2014)
- Water Institute Develops Sediment Capture Methodology
- International Workshop on Sediment Management in Water Resources and Hydropower Projects organized in Beijing and Yichang
- 40% of the Indian coast is subjected to coastal erosion
- ADB approves assistance to help Bangladesh tackle menace of river erosion
- ISI Steering Committee Core Group Meeting held in Beijing on August 5 – 6, 2014
- SCI Impact Factor of the International Journal of Sediment Research for 2013 is 0.977
- All the 34 Generating Units of the Three Gorges Project Were Put into Operation for the First Time in this Year (China)
- In Memoriam, Professor Michael (Mike) Bonell (1943-2014)
- New International Centre for Water Resources and Global Change
- Removing the last bits of the last dam on the Elwha River (USA)
- Investigation: Erosion caused 2012 dam failure (USA)

More .....

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

## CONFERENCE REPORT

### International Workshop on Sediment Management in Water Resources and Hydropower Projects organized in Beijing and Yichang



An International Workshop on Sediment Management in Water Resources and Hydropower Projects was organized through a partnership between the World Bank and IRTCES, with support of the Asia Sustainable and Alternative Energy Program (ASTAE), in Beijing and Yichang on August 18-22, 2014. Forty two participants of the workshop included: managers and experts of hydropower projects from 13 countries - Afghanistan, Bangladesh, Bhutan, Cambodia, India, Indonesia, Laos, Myanmar, Nepal, Pakistan, Sri Lanka, Thailand and Vietnam; energy specialists from the World Bank; trainers who specialize in sediment management from USA and China; IRTCES experts; and PhD students from the Tsinghua University. IRTCES Deputy Director Prof. Duihu Ning, World Bank Senior Hydropower Specialist Mr. Pravin Karki, and trainer representative Dr. George Annandale addressed participants at the opening of the workshop.

Trainers Dr. Gregory L. Morris, Dr. George Annandale, and Dr. Zhao-Yin Wang delivered lectures on the following topics:

- Rapid Assessment: Climate Change and Reservoir Sedimentation Effects
- Erosion, Sediment Yield, and Data Collection in Rivers and Reservoirs
- Hydraulics of Sediment Transport and Deposition in Reservoirs
- Sediment Budget of the Yangtze River Basin
- Water and Sediment Management of the Yellow River
- Sediment Management Techniques.

IRTCES expert Dr. Cheng Liu, Tsinghua University PhD students Mr. Chendi Zhang and Mr. Xiongdong Zhou, also made presentations. Trainees presented case studies on sediment challenges faced in their home countries and sought advice from both participants and trainers on adopted solutions adopted and those under

consideration. Lectures were followed by detailed discussions among group members.

On August 20, participants undertook a study tour of the Daxing Experimental Base of China Institute of Water Resources and Hydro Power Research (IWHR) in the southern suburb of Beijing where they examined sediment research laboratories, hydraulic machinery demonstrations, and irrigation and drainage research projects.

On August 21-22, participants visited the Three Gorges Project, including the reservoir area and the resettlement villages, in Yichang as part of a technical tour.

All participants expressed their gratitude for the tremendous learning opportunity provided by the workshop and the study tour. All acknowledged that sediment challenges were not unique to the particular projects they worked on but were a national, and moreover universal, problem. The workshop provided an opportunity not only to learn about sediment management concepts, but also to share experiences and solutions across different countries, and most importantly, to establish partnerships that participants hope to tap into as they tackle sediment management problems moving forward.



World Bank Senior Hydropower Specialist Mr. Pravin Karki speaks at the Opening



IRTCES Deputy Director Prof. Duihu Ning speaks at the Opening



Dr. Gregory L. Morris delivers a lecture



Study tour to the Daxing Experimental Base of IWHR



Dr. George Annandale delivers a lecture



Group photo



Dr. Zhao-Yin Wang delivers a lecture



Study tour to the Daxing Experimental Base of IWHR

## The 6th International Conference on Flood Management held in Sao Paulo on September 16-18, 2014

From September 16th to 18th 2014, the 6th International Conference on Flood Management (ICFM6) was held in Sao Paulo with more than 250 participants gathered from over 30 different nations across the continents. The participants were grateful to the local organisers for their efforts to ensure a successful conference and were pleased to have the opportunity to learn of the flood risk challenges faced by Brazil.

Following three days of extensive and intensive debate of the challenges faced by individuals, communities, local authorities, businesses, nations and regions in terms of flood risk, the participants of ICFM6 agreed a declaration as their own commitment and their appeal to the public, professionals, managers and decision makers in this crucial task to carry out actions for the security of life, social welfare, and enhancement of land- and water-related environmental management.

In order to continue the benefits of sharing experiences and approaches, the Ad Hoc Committee is invited to convene the ICFM7 in 2017 in Leeds, UK, to further develop flood risk management research and practice at individual, community, business, local authority, national and regional levels under the title "Resilience to Global Changes – Expecting the Unexpected".

## PUBLICATION

### Papers Published in Issue 3 Volume 29, 2014, International Journal of Sediment Research



Volume 29, Number 23      Sept. 2014

#### Technical Papers

Theory and application of nonlinear river dynamics  
Yu-chuan BAI and Zhao-yin WANG    285–303

Modeling the impact of climate change on sediment transport and morphology in coupled watershed-coast systems: A case study using an integrated approach  
Achilleas G. SAMARAS and Christopher G. KOUTITAS  
304–315

Sediment balances in the Blue Nile River Basin  
Yasir S. A. ALI, Alessandra CROSATO, Yasir A. MOHAMED, Seifeldin H. ABDALLA, and Nigel G. WRIGHT    316–328

Numerical modelling of riverbed grain size stratigraphic evolution  
Peng HU, Zhi-xian CAO, Gareth PENDER, and Huai-han LIU    329–343

Two-phase SPH modelling of waves caused by dam break over a movable bed  
Seyedeh Leila RAZAVITOOSI, Seyed Ali AYYOUBZADEH, and Alireza VALIZADEH    344–356

Distribution and fate of metals in the Montenegrin part of Lake Skadar  
Mirjana VEMIC, Diederik ROUSSEAU, Gijs DU LAING, and Piet LENS    357–367

Geoaccumulation and distribution of heavy metals in the urban river sediment  
Nur Aliaa SHAFIE, Ahmad Zaharin ARIS, and Hazzeman HARIS    368–377

Experimental modelling of flocculation processes-the case of Paraiba do Sul Estuary  
Alfredo TRENTO and Susana VINZÓN    378–390

Characterization of Tunisian marine sediments in Rades and Gabes harbors  
Imen BEL HADJ ALI, Zoubeir LAFHAJ, Mounir BOUASSIDA, and Imen SAID    391–401

Near shore waves, long-shore currents and sediment transport along micro-tidal beaches, central west coast of India  
Sajiv Philip CHEMAIPALAYIL, V. Sanil KUMAR, G. Udhaba DORA, and Glejin JOHNSON    402–413

#### Technical Notes

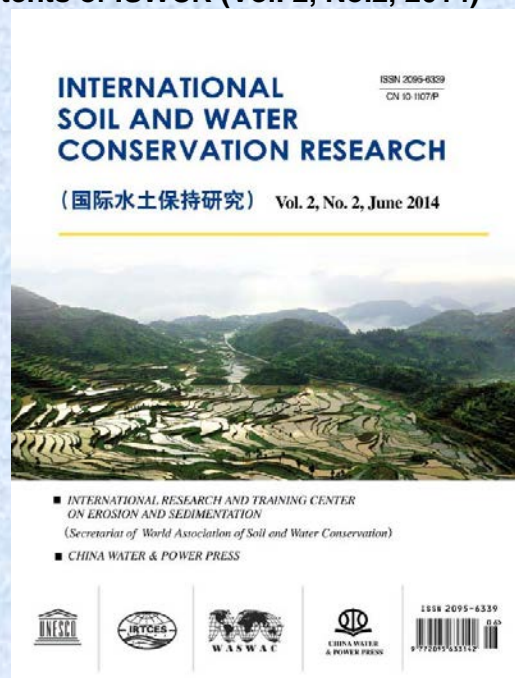
Experimental study of debris flow caused by domino failures of landslide dams  
Hua-yong CHEN, Peng CUI, Gordon G. D. ZHOU, Xing-hua ZHU, and Jin-bo TANG    414–422

Analytical study on accelerating falling of non-spherical particle in viscous fluid  
Amir MALVANDI, Davood Domairry GANJI, and Ali MALVANDI    423–430

Depth profiles of lithogenic and anthropogenic mercury in the sediments from Thane Creek, Mumbai, India  
S. K. SAHU, R. C. BHANGARE, M. TIWARI, P. Y. AJMAL, and G. G. PANDIT    431–439

Cover Photo: Golongla Glacier and sediment transportation in Tibet

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



## INTERNATIONAL SOIL AND WATER CONSERVATION RESEARCH

Volume 2    Number 2    June 2014

Linking landforms and land use to land degradation in the Middle River Njoro Watershed <i>Zackary G. Mainuri and James O. Owino</i> .....	1
Long-term hydrological impacts of land use/land cover change from 1984 to 2010 in the Little River Watershed, Tennessee <i>Chunhao Zhu and Yingkui Li</i> .....	11
Hydrogeological hazards and weather events: Triggering and evolution of shallow landslides <i>Salvatore Monteleone and Maria Sabatino</i> .....	23
Experiment of "no-tillage" farming system on the volcanic soils of tropical islands of Micronesia <i>Mohammad H. Golabi, S. A. El-Swaify, and Clancy Iyekar</i> .....	30
Salinity status of the 2011 Tohoku-oki tsunami affected agricultural lands in northeast Japan <i>Kingshuk Roy, Katsuhiro Sasada, and Eiichi Kohno</i> .....	40
Investigation of time dependent development of soil structure and formation of macropore networks as affected by various precrop species <i>Sebastian K. Pagenkemper, Daniel Uteau Puschmann, Stephan Peth, and Rainer Horn</i> .....	51
Using meshes to change the characteristics of simulated rainfall produced by spray nozzles <i>Silvia C. P. Carvalho, João L. M. P. de Lima, and M. Isabel P. de Lima</i> .....	67
Irrigation capability evaluation of Illushi floodplain, Edo State, Nigeria <i>A. S. Umweni and A. O. Ogunkunle</i> .....	79
Cover photo: Terraced fields in Ming'ao, Yongjia County, Zhejiang Province, China	

Free download available for papers published in the  
ISWCR at: <http://www.waswac.org/report.asp>

### Publications in ISI Information System

- Sustainable sediment management in reservoirs and regulated rivers: Experiences from five continents (Kondolf et al., 2014)
- Towards Practical Guidance for Sustainable Sediment Management using the Sava River Basin as a Showcase
- Moving Sediment Management Forward - The Four SedNet Messages (SedNet)
- 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)

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>

**Contacts:**

Ahmad Sana, Ph. D.

Associate Professor

Department of Civil and Architectural Engineering

Sultan Qaboos University

PO Box 33, Al-Khod 123, Muscat

Sultanate of Oman

Tel: +968-24142524

Fax: +968-24413416

[sana@squ.edu.om](mailto:sana@squ.edu.om)

Dr. Mahad Baawain

[msab@squ.edu.om](mailto:msab@squ.edu.om)

### 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:**

LOC IAHR2015

E-mail: [iahr2015@unesco-ihe.org](mailto:iahr2015@unesco-ihe.org)

Tel: +31 15 2151 747

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

Twitter: IAHR2015

Facebook: IAHR2015

### 8th International Conference on Remediation and Management of Contaminated Sediments (USA, Jan. 12–15, 2015)

**Date:** January 12–15, 2015

**Venue:** New Orleans, Louisiana USA

**Summary:** The Sediments Conference series is organized and presented by Battelle as a forum for sharing experience and progress toward the goal of remediating, restoring and maintaining the environmental and economic viability of rivers, lakes, bays, and harbors. Each Conference addresses the challenges of combining basic research, new characterization and assessment methodologies, innovative engineering and good management practices to address the challenges of all stakeholders.

**Conference Themes:**

Conference sessions will be organized into five thematic tracks:

- Management and Policy
- Remedy Performance and Challenges
- Remediation Processes
- Characterization, Assessment, and Monitoring
- Sediment Processes and Modeling

**URL:** <http://www.battelle.org/sedimentscon>

### International Youth Forum of Soil and Water Conservation (China, Oct. 16-18, 2015)

**Date:** October 16–18, 2015

**Venue:** Nanchang, China

**Summary:** You are cordially invited to the International Youth Forum on Soil and Water Conservation (IYFSWC). The conference will bring researchers, practitioners and policy makers a world-wide platform to share their research and discuss creative solutions related to soil and water conservation. IYFSWC is focusing to see the “old” soil and water conservation problems in the vision of the youth.

**Topics:**

- Soil Erosion Processes and Modeling
- Global Changes and Soil Conservation Practices
- Land Degradation and Food Security
- Watershed Management
- Sustainable Development for Soil and Water
- Soil and Water Conservation during Construction
- New Technologies and Methods for Monitoring and

Assessment Soil Erosion

Youth Engagement and the Education of Soil and Water Conservation

**Outstanding Youth Paper Award:**

The World Association of Soil and Water Conservation (WASWAC) will present WASWAC Outstanding Youth Paper Award at the conference.

Ten outstanding papers by authors under the age of 40 will be selected from the submitted conference papers. The primary author of each paper will be awarded US\$1,000. The awarded paper will be published in WASWAC official journal—International Soil and Water Conservation Research, which is a peer-reviewed, quarterly published English journal.

**Important Dates:**

Sep.1, 2014 Call for abstracts

Nov. 30, 2014 Abstract Due

Please submit your abstract to

[IYFSWCpaper@nit.edu.cn](mailto:IYFSWCpaper@nit.edu.cn)

Mar. 31, 2015 Full Paper Due

**URL:** <http://iyfswc.nit.edu.cn/>

**Contacts:**

Ms. Wang Yue , Ms. Peng Cong

Tel: +86-791-88179373, +86-791-88126011

E-mail: [IYFSWCinf@nit.edu.cn](mailto:IYFSWCinf@nit.edu.cn)

### 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>

### 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.mnr.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>

### **More Coming Events in ISI Website**

- 5th International Conference on Estuaries and Coasts (Oman, Nov. 2-4, 2015)
- International Youth Forum of Soil and Water Conservation (China, Oct. 16-18, 2015)
- 36th IAHR World Congress 2015 (the Netherlands, June 28-July 3, 2015)
- 5th International Conference on Water and Flood Management (Bangladesh, 6-8 March 2015)
- 8th International Conference on Remediation and Management of Contaminated Sediments (USA, Jan. 12–15, 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)

More .....

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



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

**ORGANISATION: UNESCO**

Blanca Jimenez Cisneros	UNESCO, Paris
Thulstrup, Hans Dencker	UNESCO, Beijing
Mishra, Anil	UNESCO, Paris

**ISI URL:** <http://www.irtces.org/isi/>

**ISI STEERING COMMITTEE**

**Chairman:** Spreafico, Manfred      Switzerland

**Members:**

Basson, Gerrit	South Africa
Brils, Jos	the Netherlands
<u>Bruk, Stevan</u>	Serbia
Di Silvio, Giampaolo	Italy
Golosov, Valentin	Russia
Hotchkiss, Rollin H.	USA
Julien, Pierre	USA
Karki, Pravin	USA
Liu, Cheng	China
Moattassem El Qotb, M. El.	Egypt
Pizarro, Roberto	Chile
Robarts, Richard	Canada
Walling, Desmond E.	UK
Wang, Zhao-Yin	China
Yazdandoost, Farhad	Iran

**ISI TECHNICAL SECRETARIAT**  
International Research and Training Center on  
Erosion and Sedimentation (IRTCES)  
under the auspices of UNESCO  
P.O. Box 366, 20 Chegongzhuang West Rd.  
Beijing, 100048, China  
Fax: +86-10-68411174  
<http://www.irtces.org/>

**Secretary-General:**  
Hu, Chunhong      China

**Contact**  
Liu, Cheng      China

=====

**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.spreafico@hispeed.ch](mailto:manfred.spreafico@hispeed.ch) or ISI technical  
Secretariat at [chliu@iwhr.com](mailto:chliu@iwhr.com)

=====



**Editor:** Dr. Liu Cheng  
P.O. Box 366, 20 Chegongzhuang West Rd.  
Beijing, 100048, China  
Fax: +86-10-68411174  
E-mail: [chliu@iwhr.com](mailto:chliu@iwhr.com)

=====



Three Gorges Dam: As night draws in, water continues to pour, Sept 2, 2014. [Photo/Xinhua]