

# INTERNATIONAL SEDIMENT INITIATIVE

# NEWSLETTER

*Reporting ISI news to you quarterly*

No. 28 Mar. 29, 2013

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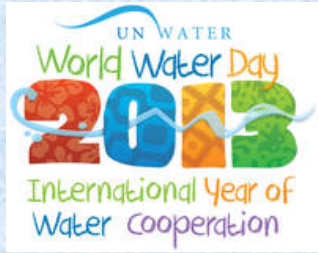
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## NEWS

### Message from Ms Irina Bokova, Director-General of UNESCO on the occasion of World Water Day

This World Water Day occurs during the 2013 International Year of Water Cooperation. With this, Member States agreed on the importance of water cooperation for human health and well-being, for achieving the Millennium Development Goals, and for lasting peace and sustainable development.



The International Year of Water Cooperation is guided by the slogan -- "water, water everywhere, only if we share". This includes the management of transboundary waters between countries – it means also sharing water between different uses and varied users inside national borders. We need stronger water governance between and within States.

Cooperation must be our byword. This is essential to preserve our ecosystems, to eradicate poverty and to advance social equity, including gender equality. Women are key actors -- we must empower them fully with the rights to match their responsibilities. Ensuring equality in access to and control over water resources is important for the well-being of current and future generations.

Water challenges are complex -- solutions must be equally multi-faceted. This calls for innovative thinking and cooperation across the board. For this, UNESCO pursues a wide angle, drawing on its International Hydrological Programme as well as its 29 water-related Chairs and 18 water-related centres. These include the IHE Institute for Water Education, in the Netherlands, which has trained 15,000 water professionals from 160 countries since 1957.

Water cooperation is not a technical or scientific issue. This is about fighting poverty and protecting the environment. It is about laying the foundations for sustainable development and lasting peace.

Governments must commit to finding inclusive and cooperative solutions to water challenges. For this, we must take decisions that involve all relevant actors, from investors to users. Each of us is concerned, and we are all responsible. Water cooperation is not an option – it is an imperative for a better future for all.

### Mr. Han Qunli, Director of the Executive Office of UNESCO's Natural Sciences Sector visits IRTCES



On the afternoon February 6, Mr. Han Qunli, Director of the Executive Office of UNESCO's Natural Sciences Sector, visited the International Research and Training Center on Erosion and Sedimentation (IRTCES) to hear IRTCES' activity report and discuss how to better play its roles in the new situation. Prof Hu Chunhong, IRTCES Deputy Director and Secretary-General, Profs. Ning Duihu and Liu Guangquan, Deputy Directors, and all division chiefs participated in the meeting. Dr. R. Jayakumar from UNESCO Beijing Office and Mr. Hao Zhao, Division Director of the Department of International Cooperation, Science and Technology, Minister of Water Resources of China also attended the meeting.

Prof Hu Chunhong present the advances of IRTCES activities on international conferences, international trainings, international communications and scientific researches by introducing its activities in 2012, showed the database "Global Data of Erosion and Sedimentation" constructed and maintained by the IRTCES under supports from Chinese Government and UNESCO, and proposed IRTCES workplan and international collaborative projects for the 2013. Mr. Han Qunli praised that IRTCES deserves the best among UNESCO Category II centers in all respects, and has made great contributions to the UNESCO IHP programmes. He introduced new situation and challenges faced by the UNESCO's Natural Sciences Sector, asked for advices to UNESCO's activities, and mentioned UNESCO would continue to support IRTCES for its development. Mr. Hao Zhao mentioned in his speech that Chinese Government and its Ministry of Water Resources attaches great importance to IRTCES for its important role in the international arena, and have given and will continue give long-term full support to IRTCES for its development. Specific issues such as renewal agreement between Chinese Government and UNESCO concerning IRTCES, improvement of the database "Global Data of Erosion and Sedimentation" and launching cooperation projects were discussed.

### ISI teleconference is convened to discuss the future ISI activities

On January 23, 2013, an ISI teleconference was convened by Dr. Anil Mishra from UNESCO Paris. Dr. R. Jayakumar from UNESCO Beijing, Prof. Manfred Spreafico (Switzerland, ISI Steering Committee Chair), Prof. Des. Walling (UK, ISI Steering Committee member) and Prof. Cheng Liu (China, ISI Steering Committee member) participated in the teleconference to discuss the future ISI activities.

- Introduction of UNESCO IHP current situation and newly appointed Director of the Division of Water Sciences and Secretary of the IHP, Dr. Blanca Jimenez-Cisneros;
- Introduction of IRTCES activities in 2012 and workplan for 2013;
- Discussion on future ISI activities;
- ISI's involvement of the 12th International Symposium on River Sedimentation (ISRS2013) to be



held in Kyoto, Japan, on September 2-5, 2013. The ISI sponsored Workshop on the International Sediment Advancements (WISA) will be launched in the ISRS2013;

- Including the Danube River in the ISI case study (proposed by Prof. Helmut Habersack) and possible publications for the ISI case study.

## IAHR Executive Director Visits IWHR for Bilateral Cooperation and 2013 IAHR World Congress



Christopher George, Executive Director of International Association for Hydro-Environment Engineering and Research (IAHR) visited IWHR on February 21, 2013. During his meeting with the institute's president Kuang Shangfu they exchanged ideas on promoting IAHR-IWHR cooperation and on the preparatory progress of the IAHR World Congress, to be held in Chengdu, Sichuan Province this September.

Also present at the meeting are Gao Jizhang, chair of IAHR China Chapter and former president of IWHR, IWHR Vice Presidents Yang Xiaodong, Liu Zhiping and Hu Chunhong, and Ning Duihu, deputy director of International Research and Training Center on Erosion and Sedimentation (IRTCES).

Dr. Kuang, as one of the executive chairs of the LOC, gave a brief introduction of the overall preparation of the Congress. With strong support from China's Ministry of Water Resources, he pointed out, IWHR would do its best to ensure the successful convening of the Congress.

Dr. Kuang also talked on the close IWHR-IAHR relationship with continuous collaboration over the years, from which the institute had immensely benefited. He thanked IAHR for its long-time support, and hoped that the existing win-win cooperation could be further promoted.

Mr. George expressed his gratitude for IWHR's hospitality, his satisfaction on the preparation and confidence on the Congress. He also shared his personal feelings on the dramatic changes in China in its fast social, economic and cultural development. He looked forward to enhanced cooperation and communication between IAHR and IWHR, as well as a bigger role IWHR would play in IAHR activities.

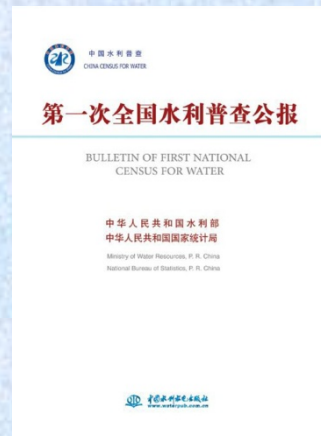
Before the meeting, the executive director also met the preparatory work group of the Congress to discuss the proceedings, participant invitation, arrangement of technical sessions, exhibition, JFK Student Paper Competition, activities of young professionals and logistics, etc.

Sponsored by both China's Ministry of Water Resources and IAHR, the 35th IAHR World Congress is jointly organized by IWHR, Sichuan University, Tsinghua University and the University of Hong Kong. It will be held

in Chengdu during September 8-13, 2013. (Source: IWHR, <http://www.iwahr.com/>)

## China releases first national water report

The first national report on China's water conditions was released Tuesday (March 26) by the Ministry of Water Resources (MWR) and the National Bureau of Statistics (NBS).



The nationwide survey covered river conditions, water conservancy projects, water consumption, river development and management, and water and soil conservation in 2011.

China has 45,203 rivers each covering an area of at least 50 square kilometers, totalling 1.51 million kilometers in length. Some 2,865 lakes with a regular surface area of over 1 square kilometer took up 78,000 square kilometers, the report said.

The capacity of 98,002 reservoirs amounted to 932.31 billion cubic meters and the total installed capacity of 333 million kilowatts were generated by 46,758 hydropower stations.

The irrigation area reached 1 billion mu (66.8 million hectares), according to the report. (Source: Xinhua)

## Elwha gnaws away at a century of sediment (USA)

A mother lode of mud is making its way down the Elwha River, and with it, an armada of floating and waterlogged debris.

Contractors are taking two dams out of the Elwha River as part of a watershed and fishery recovery project that is the largest of its type ever in the world. The first, Elwha Dam, came out a year ago. Glines Canyon dam is about two-thirds gone.

Scientists recently learned there was about 41 percent more sediment trapped behind the dams than originally thought — and that the river is transporting more mud and wood than they expected.

As the river, dammed for 100 years, comes back to life, the other surprise is a forest of waterlogged wood and other organic debris the Elwha is muscling out of the former lake beds of the reservoirs.

All that wood is interacting with the sediment in the river with unpredictable results, said Andy Ritchie, restoration hydrologist for the National Park Service, which is running the Elwha recovery project. He was surprised this winter to see the river building fences and jams of wood that trapped sediment in places where it wasn't expected, such as at Elwha Campground, or causing erosion in others, such as at the historic Elwha ranger district.

There have been other surprises.



Dam removal was put on hold last October until contractors make more than \$1.4 million in emergency retrofits to the new \$71.5 million Elwha Water Facilities plant.

It was built as part of the dam-removal project, to clean sediment from the water supply to an industrial pulp and paper plant, a fish-rearing channel and a hatchery. But the plant failed during the first fall rains last October, when fish screens and pumps became clogged with leaves, twigs, branches and sediment. ....

But even with dam removal on hold, restoration is not standing still.

After a 100-year hiatus, the Elwha is back at work moving sediment, carrying some of it all the way to the river mouth, where a whole new world is emerging.

Surveys both by airplane and by an underwater video camera show a kelp armageddon is under way. The amount of floating kelp at the river mouth and east to the Ediz Hook has already been reduced by 44 percent in the year since dam removal began, said Helen Berry, marine ecologist at the state Department of Natural Resources.

Underwater video also shows a dramatic shift on the sea floor, with a transition in one year from lush pastures of seafloor plants to a war zone of tattered vegetation and large areas nearly denuded.

The reason is sediment. It is blocking light in the water column, and smothering the rocky seafloor with soft mounds of fine material transported by the Elwha, making it unsuitable for the holdfasts which kelp species need to affix themselves to the seafloor.

But scientists think the kelp's demise is a gain for other species, in a reset of the nearshore ecology to a more normal state. Old maps show no kelp at the river mouth and east to the Ediz Hook.

The accretion of soft sediment is expected to provide habitat for sea grasses that nurture salmon, said Anne Shaffer of the Coastal Watershed Institute in Port Angeles. Soft, sandy beaches also could provide spawning grounds for a chrome tide of sea smelt and sand lance.

"I see it as a return to how things are supposed to be," Shaffer said. "And we are only at the beginning of these ecological effects."

Closest to the river mouth, the resumption of the river's delivery of sediment is also hoped to slow erosion that has claimed up to 100 feet a year in some parts of the tribe's reservation, east of the river.

Just how much of a difference will be made long term isn't known, especially when, in about 10 years, the amount of sediment the Elwha delivers annually resumes to its new normal.

But for now, at the river mouth the results are dramatic as the river plays catch-up, gnawing at 100 years of entrapped sediment, and moving it out to sea.

Jonathan Warrick, a scientist at the U.S. Geological Survey Pacific Coastal and Marine Science Center at Santa Cruz, Calif., is helping to map a new sand spit that has formed at the west side of the river mouth. It's already about one-third of a mile long, and growing.

"I thought it would happen this year," Warrick said. "But I am a little blown away at how big the bar is." (Source: The Seattle Times, <http://seattletimes.com/>)



Glines Canyon Dam is two-thirds down, with the Elwha River pouring through the gap. Elwha Dam, 8.6 miles downstream, is already gone.

### More News in ISI Website

- Contents of IJSR (Vol. 28, No.1, 2013)
- China releases first national water report
- Message from Ms Irina Bokova, Director-General of UNESCO on the occasion of World Water Day
- Drought continues to wreak havoc in SW China (2013-3-21 09:13) (Hits:13)
- Elwha gnaws away at a century of sediment (USA)
- Rising sea level threatens China's maritime interests
- Tibet's "Three Gorges Dam" to generate power in 2013 (China)
- Tracking sediments' fate in largest-ever dam removal (USA)
- IAHR Executive Director Visits IWHR for Bilateral Cooperation and 2013 IAHR World Congress
- Reservoir construction kicks off in parched province (China)
- USA: Ecology Adopts Changes to Sediment Cleanup Standards
- WASWAC Secretariat Meeting was held on Feb. 19-21, 2013
- Sediment in Poplar River down 35 percent (USA)
- Mr. Han Qunli, Director of the Executive Office of UNESCO's Natural Sciences Sector visits IRTCES
- ISI teleconference is convened to discuss the future ISI activities
- Three Gorges project generates record power (China)
- Water diversion project in E China ahead of schedule
- Iowa lakes filling with sediment, raising environmental issues(USA)
- International Hydroscience Conference Hosted by UCF (USA)
- International Soil Water Conservation Research Call for Papers Submission (WASWAC)
- Sediment being flushed to reduce flooding risk (New Zealand)

More .....

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



## CONFERENCE REPORT

### International Hydroscience Conference Hosted by UCF (USA)



Some of the world's most recognized scholars in water science and engineering met in Orlando earlier this month to absorb the latest research related to the world's water supplies and how they are responding to a changing climate.

The Tenth International Conference on Hydroscience & Engineering, sponsored by the University of Central Florida Coastal Hydroscience Analysis, Modeling & Predictive Simulations Laboratory (CHAMPS Lab) with support from Oak Ridge Associated Universities and numerous consulting firms, and state, national and international agencies, and held at the Rosen Plaza Hotel. The conference focused on the question of how to plan for a sustainable future in light of issues such as sea level rise and changing land use practices.

Conference Chair Scott C. Hagen, a UCF engineering professor and director of the CHAMPS Lab, wanted to hold the event in Central Florida because of the region's rich terrain for anyone with an interest in hydroscience.

"It was an honor to serve as host to such a distinguished group of engineers and scientists, and from the feedback I have received I know that our UCF students and faculty made a positive impression," Hagen said.

The conference, which drew 225 attendees from 25 countries, was highlighted by five distinguished keynote speakers, each presenting a unique perspective on topics ranging from Climate Change and Hydroscience, Coastal Processes and Engineering, Lake and River Restoration, Surface and Groundwater Flows, and Water Quality and Contaminant Transport.

In addition to three full days of presentations and exhibits, attendees were invited to join technical tours of the Kissimmee River Restoration Project and the Middle St. Johns River/Blue Springs.

Keynote talks were delivered by Robert A. Dalrymple, Willard & Lillian Hackerman Professor of Civil Engineering at Johns Hopkins University; Roger Falconer, Halcrow Professor of Water Management and director of the Hydro-environmental Research Centre in the School of Engineering at Cardiff University, U.K. ; Forrest Holly, emeritus professor of civil and environmental engineering at the University of Iowa, and adjunct professor of Civil Engineering and Engineering Mechanics at the University of Arizona; Nikolaos Katopodes, a professor of Civil and Environmental Engineering at the University of Michigan;

and Larry Weber, director of IIHR-Hydroscience and Engineering, co-founder of the Iowa Flood Center, and a professor of civil and environmental engineering at the University of Iowa.

The UCF organizing committee included Manoj Chopra, Kavah Madani, and Dingbao Wang, all professors in the department of Civil, Environmental and Construction Engineering. For more info visit <http://iche2012.org> (Source: UCF, <http://today.ucf.edu/>)

### WASWAC Secretariat Meeting was held on Feb. 19-21, 2013



The WASWAC secretariat meeting was held in Beijing on 19-21 February 2013. WASWAC council advisor Dr Samran Sombatpanit, President Li Rui, Secretary General Ning Duihu, Treasurer Liu Xiaoying and Secretary Du Pengfei attended the meeting. At the meeting the following issues were discussed.

1. The Second WASWAC World Conference (WASWAC-WCII) Dr Samran Sombatpanit gave a brief report of the Second WASWAC World Conference preparation work. The Announcement (Call for Papers) has been launched since February 16. The general program has been worked out. The general schedule is as follows: September 4th afternoon will be Council meeting; on the 5th after the opening ceremony the keynote speech will be in the morning. From the afternoon to the next day (the 6th) the conference will proceed in concurrent sessions. A field trip will be arranged on the 7th. During the second conference, we will decide the place, time and organization for the Third WASWAC World Conference, and it will be announced during the closing ceremony. We hope that our association members and others who are working in the field of soil and water conservation related can be Thailand to join us, to make WASWAC WCII more influential.

2. The Journal of International Soil and Water Conservation Research The candidates of editorial board member were proposed by President Li Rui. The Board consists of Advisors (10), Editor-in-Chief (1), Associate Editors (12), and Board Members (60). The candidates were selected based on suggestions of councilors. The updated name list will be submitted to the Journal Management Committee for discussion. Some documents for the Editorial Board, such as "Editorial Board Authorities and Duties", "Call for Paper Submission", and "Paper review form" have been prepared. The first issue of ISWCR was discussed. So far there are 8 papers received, 2 of them were sent for reviewing and the others



are in pre-processing stage. There is still too many works to be done by the end of March, so the first issue of journal can be launched in schedule. Specific works have been discussed and arranged.

3. The Second WASWAC council meeting According to the conference schedule the second council meeting will be held in the afternoon of 4th of September. President will give the report on behalf of the council. In order to get a good summary it is necessary to have the reports from all committees. The secretary general Ning Duihu will give the report of the secretariat. Treasure Professor Liu Xiaoying will give the report of finance situation. So we hope that all councilors will be able to attend the conference and council meeting in September. In addition, it is also necessary to do more preparation work before the next council starts in January 2014.

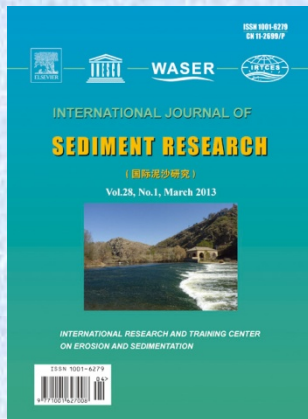
4. The Award issue It is very important for WASWAC to make the awarding more efficient and attractive. Now there are 5 kinds of awards: WASWAC Norman Hudson Memorial Award (every year); WASWAC Special Award (every 3 years); WASWAC Distinguished Researcher

Award (every 3 years); WASWAC Distinguished Extensionist Award (every 3 years); and WASWAC Excellent Youth Award (every 3 years). Dr Samran will propose a criteria and regulation for each award and let all members know the meaning and procedure of application and selection. At the WASWAC-WCII the awards will be presented at the end of the opening session on September 5, 2013.

5. Membership management The database of membership should be updated. Dr Samran will contact all past Vice-Presidents and confirm their willingness to continue. A new group of Vice Presidents will be appointed in order to promote and make a good communication with members. During the meeting there was also a discussion of other issues, such as e-LIBRARY, printing of special publications, membership fee and others. Everyone will finish the tasks to be assigned soon after the meeting. (Source: WASWAC, <http://www.waswac.org/>)

## PUBLICATION

### Papers Published in Issue 1 Volume 28, 2013, International Journal of Sediment Research



Volume 28, Number 1

March 2013

#### Technical Papers

Sediment loads response to climate change: A preliminary study of eight large Chinese rivers  
X. X. LU, L. S. RAN, S. LIU, T. JIANG, S. R. ZHANG, and J. J. WANG pp.1–14

Reduction of bend scour with an air-bubble screen - morphology and flow patterns

Violaine DUGUÉ, Koen BLANCKAERT, Qiuwen CHEN, and Anton J. SCHLEISS pp.15–23

Threshold for initiation of motion of unimodal and bimodal sediments

Shaileshkumar B. PATEL, Prem Lal PATEL, and Prakash Devidas POREY pp.24–33

A computational study of the role of particle size standard deviation on the collision frequency in differential settling

C. HEILIGER, N. B. KAYE, and F. Y. TESTIK pp.34–45

Total load transport in gravel bed and sand bed rivers case study: Chelichay watershed

Arman HADDADCHI, Mohammad H. OMID, and Amir A. SDEGHANI pp.46–57

Coupled estimation of the energy slope and associated sand-silt transport during high stream power events in alluvial rivers

N. HUYBRECHTS, Y. F. ZHANG, and M. A. VERBANCK pp.58–65

Tectonic and climatic controls on late Quaternary bajada sedimentation along Narmada-Son Fault (NSF), Gujarat, Western India

Parul N. JOSHI, D. M. MAURYA, and L. S. CHAMYAL pp.66–76

A semi-implicit three-dimensional numerical model for non-hydrostatic pressure free-surface flows on an unstructured, sigma grid

De-chao HU, De-yu ZHONG, Guang-qian WANG, and Yong-hui ZHU pp.77–89

Dynamics of phosphorus in sediments of a naturally acidic lake

Temporetti, PEDRO, Snodgrass KIMBERLEY, and Pedrozo FERNANDO pp.90–102

#### Technical Notes

Large-scale particle tracking velocimetry with multi-channel CCD cameras

Dan-xun LI, Qiang ZHONG, Ming-zhong YU, and Xing-kui WANG pp.103–110

The sediment delivery ratio in a small catchment in the black soil region of Northeast China

Yi-fan DONG, Yong-qiu WU, Tian-yu ZHANG, Wei YANG, and Bao-yuan LIU pp.111–117

Influence of bedding orientation on the anisotropy of hydraulic conductivity in a well-sorted fluvial sediment



Dong-hui CHENG, Xun-hong CHEN, Ai-di HUO, Min GAO, and Wen-ke WANG pp.118–125

Cover Photo: A weir on the Toledo River in Spain

## Publications in ISI Information System

- Summary of suspended-sediment concentration data, San Francisco Bay, California, water year 2009 (USGS)
- Changes in the sediment load of the Lancang-Mekong River over the period 1965-2003 (Liu et al.)
- Suspended sediment fluxes in the large river basins of Brazil (Werneck et al.)

More .....

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

## COMING EVENTS

### 12th International Symposium on River Sedimentation (Kyoto, Japan, Sep. 2-5, 2013)

**Date:** Sep. 2-5, 2013

**Venue:** KYOTO TERRSA, Kyoto, Japan

**Summary:** Erosion and sedimentation processes in river catchments as well as their management are of global importance. The social, economic, environmental and political impacts of these processes are significant. They pose great challenges for our human society on the way to the mid-21st century. The issue calls for integrated and sustainable solutions. On behalf of the entire Local Organizing Committee, we would like to take our great pleasure in inviting you to the 12th International Symposium on River Sedimentation (ISRS2013), September 2-5, Kyoto, Japan. Organized triennial from 1980 under the auspices of IRTCES (the International Research & Training Center on Erosion and Sedimentation), the ISRS symposia have been successfully held in China, USA, Germany, India, Egypt, Hong Kong (China), Russia and South Africa, the symposium series provide an important forum for scientists, engineers and policy-makers to exchange ideas, share information and make collaborations. Japan experienced and is still experiencing a lot of challenges in erosion and sedimentation. With the rapid change of global climate, there is a greater demand on the improvement of sediment management know-how and practices. The Kamo River in the city of Kyoto provides an excellent demonstration on typical sediment-related problems & management methods in Japan. As the location resulted in the famous Kyoto Protocol to the UN Framework Convention on Climate Change, we hope that the 12th ISRS in Kyoto will also become an event of special meaning. Kyoto University is one of the leading institutions in research & education on sediment hydraulics, erosion control engineering and river morphology. The University has a staff of well reputed scholars, capable students and is located in an excellent environment with advanced facilities.

The city and the university are ready to welcome participants from all over the world.

The online abstract submission system is open NOW and will be closed on 31 August, 2012. Accepted abstract will require a full paper to be submitted. Full papers will be peer-reviewed and be published in the symposium proceedings. ISRS2013 features Best Paper Award and Young Researcher Paper Award to award authors with superior quality paper submission to the symposium. Selected papers will be considered for a possible publication in the International Journal of Sediment Research.

**Organizer:** Research Center for Fluvial & Coastal Disasters Disaster Prevention Research Institute, Kyoto University

**Sponsors:** International Research and Training Centre on Erosion and Sedimentation (IRTCES); World Association for Sedimentation and Erosion Research (WASER)

**Co-Sponsors:** UNESCO; International Sediment Initiative (ISI); IAHR; Japan Society of Civil Engineers (JSCE); Japan Society of Erosion Control Engineering (JSECE); Japan Society for Natural Disaster Science (JSNDS); Japan Society of Dam Engineers (JSDE); Ecology and Civil Engineering Society (ECES); Japan River Association (JRA)  
**Secretariat:** Kyoto University

**Permanent Secretariat:** IRTCES

**Theme and Topics:** The theme of the symposium is Integrated Sediment Management for River Basin Sustainability: Challenges & Prospects towards Mid-21st Century

Under this theme, the symposium topics include

1. Integrated sediment management in river basin scale
2. Sediment yield
3. Sediment transport & morphology in rivers & lakes
4. Local scour & erosion
5. Reservoir sedimentation and management
6. Sediment issues in estuarine & coastal area
7. Environmental & ecological aspects of sediment management
8. Modeling & measurement techniques
9. Sediment related disasters
10. Social, economic & political problems related to sediment management.

**URL:** <http://www.dpri.kyoto-u.ac.jp/~ISRS2013/>

**Contacts:**

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E-mail: [isrs2013@uh31.dpri.kyoto-u.ac.jp](mailto:isrs2013@uh31.dpri.kyoto-u.ac.jp)

### Workshop on the International Sediment Advancements (WISA)(Japan, Sep. 3, 2013)

**Date:** Sep. 3, 2013

**Venue:** KYOTO TERRSA, Kyoto, Japan

**Summary:** The first edition of the Workshop on the International Sediment Advancements (WISA) will be launched during the 12th International Symposium on River Sedimentation (ISRS2013) to be held in Kyoto, Japan, on September 2-5, 2013. The Workshop, organized under the auspices of UNESCO-IHP-ISI, will constitute the morning plenary session of the second day of the ISRS2013 and will be devoted to disseminate beyond the limits of each membership the most significant progresses attained by several scientific associations operating in the field of sediment research and management. In order to involve the largest possible number of organizations and to cover their most recent advancements, the Workshop is intended to be replicated in the occasion of other important meetings of the same organizations. The format of WISA in fact is an itinerant, inter-organizational event which would tendentially



be hosted during the subsequent years by all the societies, agencies and research groups dealing with sediments.

Invited speakers for the WISA in Kyoto, Japan on Sep. 3, 2013:

1) Manfred Speafico, University of Berne, Switzerland, Chairman of the International Sediment Initiative (ISI) of UNESCO;

2) Gerrit Basson, University of Stellenbosch, South Africa, Vice President of the ICOLD International Commission on Large Dams;

3) Rollin Hotchkiss, Brigham Young University, Utah, U.S.A., IAHR (International Association for Hydro-Environmental Engineering and Research);

4) Michael Stone, University of Waterloo, Canada, IAHS (International Association of Hydrological Sciences);

5) Giampaolo Di Silvio, University of Padua, Italy, President of WASER (World Association for Sedimentation and Erosion Research).

6) Hajime Nakagawa, Kyoto University, Japan, representing the Japanese research community.

**FIRST PART, "Advances in Sediment Research"**

Chair: Manfred Speafico (Steering Committee chairman of UNESCO-ISI)

**SECOND PART, "Impact of Dams on Rivers and Sediment Management"**

Chair: Gerrit Basson (ICOLD Vice President)

**URL:** <http://www.dpri.kyoto-u.ac.jp/~ISRS2013/>

## The 2nd WASWAC World Conference (Thailand, Sep. 4-7, 2013)

**From** 2013-09-04 to 2013-09-08

**Venue:** Chiang Rai, Thailand

**Summary:** The main theme of the conference includes following subthemes:

- Situation and evolution of land degradation
- Control measures to prevent and mitigate land degradation (mechanical, biological, agronomical, management) and to restore degraded land
- Evaluation of impact of land degradation on food production and the environment
- Effects of global climate change on land degradation and food security
- Law and policy to prevent and mitigate land degradation
- Water resource management

**Invitation:** You are cordially invited to participate in the International Conference on "The Threats to Land and Water Resources in the 21st Century: Prevention, Mitigation and Restoration" and the Second Councilor Meeting of WASWAC (LANDCON1305) to be held in Bangkok, Thailand from May 13-18, 2013. Land is foundation of human survival and development, but the degradation of land is intensifying in many parts of the world because of many reasons, including the improper land use and global climate change. Land degradation could induce the deterioration of the ecological functions and productivity of land. Land degradation has been threatening the socioeconomic and cultural development at regional and global scales. Fortunately, the increasing attention has been paid in combating land degradation all over the world that there have been a number of projects being operated by many agencies in various regions to cope with such problems. It is therefore timely to organize the next WASWAC World Conference (WASWAC WC) in May 2013, which will coincide with the 50th Anniversary Celebrations of the Land Development Department of Thailand, our main host. We look forward to welcoming you in Thailand.

**Organizers:**

- Land Development Department (LDD), Bangkok, Thailand
- Soil and Water Conservation Society of Thailand (SWCST)

- Soil and Fertilizer Society of Thailand (SFST)
- International Research and Training Center on Erosion and Sedimentation (IRTCES)
- Institute of Soil and Water Conservation, Chinese Academy of Sciences (ISWC-CAS), Shaanxi, China
- Guangdong Institute of Eco-Environmental and Soil Sciences (GIEESS), Guangzhou, China
- World Association of Soil and Water Conservation (WASWAC)

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**URL:** [http://www.idd.go.th/web\\_waswac2/](http://www.idd.go.th/web_waswac2/)

## 35th IAHR World Congress: The Wise Find Pleasure in Water (China, Sept. 8-13, 2013)

**From** 2013-09-08 to 2013-09-13

**Venue:** Chengdu, China

**Summary:** The congress will focus on: Water Science and Civilization; Hydro-Environment and Eco-hydraulics; Hydraulic Engineering and Integrated River-basin Management; Maritime Hydraulics and Coastal Engineering; Water Resources and Hydroinformatics Technology; and Hazards, Extreme Events and Adaptation to Climate Change.

**Invitation:** On behalf of the **35th IAHR World Congress Organizers** and **IAHR**, we would like to invite you to join us in Chengdu, China for the 35th World Congress of the International Association for Hydro-Environment Engineering and Research (IAHR). The Congress will be held with the central theme of "**THE WISE FIND PLEASURE IN WATER**" (*Confucius, BC 552-BC 479*). The congress will focus on: Water Science and Civilization; Hydro-Environment and Eco-hydraulics; Hydraulic Engineering and Integrated River-basin Management; Maritime Hydraulics and Coastal Engineering; Water Resources and Hydroinformatics Technology; and Hazards, Extreme Events and Adaptation to Climate Change. Chengdu is a charming city with a long history, fast advancing development, unique culture as well as delicious food. It will surely provide every delegate with a memorable experience. The congress will be accompanied with fascinating technical tours to Three Gorges, Tibet, Ancient Dujiangyan Irrigation Project and Chengdu Panda Base as well as the newly completed earthquake museum. The congress is co-hosted by three major Chinese universities and one research institute in water and environment science, namely, China Institute of Water Resources and Hydropower Research (IWHR), Sichuan University (SCU), Tsinghua University (THU) and The University of Hong Kong (HKU). We look forward to welcoming you in September 2013 to what we are confident will be one of the most successful IAHR World Congress.

**Organizers:** International Association for Hydro-Environment Engineering and Research (IAHR)

**Contact Name:** Congress Secretariat

**E-mail:** [iahr2013@vip.163.com](mailto:iahr2013@vip.163.com)

**URL:** <http://www.iahr2013.org/>

## Special Seminar "Challenges and Issues in Water Resources Management in Africa" in the 35th IAHR Congress (China, Sep.8-13, 2013)

**From** 2013-09-08 to 2013-09-13

**Venue:** Chengdu, China

**Summary:** Many global issues such as water and food security involve Africa. Many African countries also have abundant water resources; the sustainable development of



these countries involve many challenges and issues in water resources management – ranging from cross - border issues on the Nile to coastal developments. It is timely for IAHR to be more pro - active in engaging Africa on global issues such as water and food security. To this end, it is proposed to organize a special seminar on African issues to: (i) initiate a dialogue between IAHR and water researchers and professionals in Africa; (ii) to develop long term academic and professional exchanges between IAHR members and Africa; and (iii) to present opportunities for young researchers to connect to the global community of hydro - environment experts for scientific capacity building and research collaboration. This is envisioned to be a 2 hour seminar with 8 - 10 papers presented by experts on African issues.

**Convenor:** Prof Mohamed Ghidaoui (Email: [ghidaoui@ust.hk](mailto:ghidaoui@ust.hk))

**Submission of abstracts:** Abstracts must be submitted online before December 1, 2012 (<http://online.iahr2013.org/>)

**URL:** <http://www.iahr2013.org/>

### **International Workshop of Acoustic and Seismic Monitoring of Bedload and Mass Movements (Switzerland, Sep. 4-7. 2013)**

**Date:** Sep. 4-7. 2013

**Venue:** Zürich, Switzerland

**Summary:** The difficulties in directly monitoring traction processes - bedload and mass movements - have prompted research into surrogate monitoring technologies, among which acoustic methods (geophones, hydrophones, ADCPs) are presently most developed, as demonstrated in the 2007 International Bedload Surrogate Monitoring Workshop held in Minneapolis. Since then it is apparent that acoustic techniques have been further developed with increasing interesting results in seismics. Hence, the objectives of this workshop are to (1) present first-hand principles of acoustics and seismics, (2) discuss first-hand signal processing techniques relevant to surrogate monitoring of bedload and mass movements, (3) consider calibration issues, and (4) describe monitoring methods that have been recently developed or improved. Workshop topics will encompass surrogate monitoring of bedload transport (river and coastal), debris flows, snow avalanches, landslides and rock avalanches with acoustic and seismic devices. Invited and submitted presentations will concentrate on research using acoustic and some relevant seismic methods.

#### **Workshop's provisional timetable:**

Oral and poster presentations 4 - 5 Sept. 2013

Field trip 1: Bedload transport and geophone measurements in the Erlenbach 6 Sept. 2013

(Alptal valley, near Zürich)

Field trip 2: Debris-flow monitoring installations in the Illgraben (Rhône valley, 7 Sept. 2013 near Sion)

**Organizers:** Dieter Rickenmann (WSL Birmensdorf, Switzerland), [dieter.rickenmann@wsl.ch](mailto:dieter.rickenmann@wsl.ch) Jonathan Laronne (Ben Gurion University of the Negev, Israel), [john@bgu.ac.il](mailto:john@bgu.ac.il) Jens Turowski (WSL Birmensdorf, Switzerland), [jens.turowski@wsl.ch](mailto:jens.turowski@wsl.ch) Damia Vericat (University of Lleida, Spain), [dvericat@macs.udl.cat](mailto:dvericat@macs.udl.cat)

**Contact:** Swiss Federal Institute for Forest, Snow and Landscape Research WSL

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### **8th International SedNet conference (Portugal, 6-9 November 2013)**

**Date:** 6-9 November 2013

**Venue:** Libson, Portugal

**Summary:** Sediment management has proven to be a significant issue in European rivers, estuaries and coastal areas. This has both a quantity and a quality aspect, as prior SedNet activities have clearly shown. Human interventions, such as river regulation, dredging, coastal and port construction and soil degradation often have large impacts on sediment supply, sediment transport and river and coastal morphology. Sediment-starved systems, particularly in coastal, lowland areas, are more vulnerable to extreme events, putting people, infrastructure and natural capital at risk. Mitigation measures may be technically feasible, but are quickly becoming too costly. Sediment and biota in river systems have been exposed to multiple and interacting stressors for decades or even centuries. Europe has responded to the most apparent contaminants and pressures with a range of policies and measures since the 1970s. Clear improvements in water quality can be attributed to integrated river basin action plans and to the Programmes of Measures that resulted from the major and coordinated effort of the Water Framework Directive. However, improvements in sediment and longer-lived or bottom feeding biota lag behind due to storage and accumulation of contaminants, costly and laborious monitoring techniques, and sometimes lack of sufficient legal integration of sediment management into legislation. To sustainably manage sediments, innovative and cost-efficient approaches and solutions are needed. Sediment management, which tends to be focused only on the apparent areas of concern, comes with the challenge of avoiding measures which have only short-term and locally positive effects, whilst having unforeseen negative consequences elsewhere. Against this background SedNet is organising its 8th international conference in Lisbon. Given the tremendous diversity of Europe's southwest coast, Lisbon is a highly appropriate venue for a conference that will pay special attention to estuarine and coastal sediment management.

#### **CALL FOR ABSTRACTS**

SedNet would be pleased to receive abstracts addressing one or more of the following topics:

- Sediment and ecosystems (and their services);
- Sediment quantity issues;
- Sediment quality issues;
- Interaction between fluvial, estuarine and coastal sediment (dynamics);
- Sustainable dredged material management.

Abstracts on these topics will preferably relate to improved sediment management in terms of more efficient, less costly, more sustainable solutions. Conceptual approaches (such as for instance eco-engineering or 'working-with-nature' approaches), and application of scientific results will be particularly welcomed. Case studies are of special importance in these fields; success stories but also accounts of actions that did not work out as planned are specifically invited. Abstracts should address sediment management in the context of rivers, lakes, estuaries, coastal and/or marine areas.

Abstracts will be selected by the SedNet Steering Group either for platform presentation or for poster presentation.

#### **SPECIAL SESSIONS**

Special sessions will form part of the conference program. Two special sessions are scheduled already:

- 1) Changing hydrodynamics of estuaries and tidal river systems; organised by ECSA (Estuarine & Coastal Sciences Association)
- 2) Management of multiple pressures on estuaries and lagoons in a changing climate; organised by ARCH



(Architecture and roadmap to manage multiple pressures on lagoons).

#### **YOUR ABSTRACT**

A template for abstracts can be downloaded from [www.sednet.org](http://www.sednet.org). On the website you will also find a format for submitting proposals for special sessions. Abstracts and session proposals can be sent to the SedNet secretariat: [marjan.euser@deltares.nl](mailto:marjan.euser@deltares.nl)

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### **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". ICFM6 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:**

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### **ECSA 53: Estuaries and coastal areas in times of intense change (China, Oct. 13–17, 2013)**

**Date:** Oct. 13–17, 2013

**Venue:** Shanghai, China

**Summary:** ECSA's next major Symposium, ECSA 53 will take place in partnership with the State Key Laboratory of Estuarine and Coastal Research (SKLEC) at East China Normal University, Shanghai, China. The close links between ECSA and Elsevier (Estuarine Coastal and Shelf Science) have already proven to be very beneficial and based on that historical success we propose to further intensify our long lasting co-operation. This time this co-operation is to organize a meeting in a part of the world from where we expect further excellent scientific results: China. The fast economic growth and related human activities in China during the last few decades are dramatically influencing the environment, from river catchments to estuaries and seas; and natural phenomena further amplify these effects. One of these rapidly changing systems is the Yangtze estuary, with Shanghai, the largest city in China, located close to it. The Yangtze is the 3rd largest river in the world, and constitutes an excellent case study for large scale impacts on ecosystems due to human activities and an excellent place for one of the major global events in 2013. Submit abstracts by 12 April 2013. Abstracts for oral and poster presentations are invited on the below topics and should be submitted using the online submission system.

#### **Conference Topics**

- Functioning of estuarine and coastal waters
- Estuarine Wetlands, their understanding, restoration, rehabilitation, filter function and role in human health
- Inputs to aquatic ecosystems of contaminants, nanoparticles, nutrients; partitioning, bioavailability, bioaccumulation and health
- Coastal water - Catchment links, implications and sustainable solutions
- Eutrophication, anoxia and harmful algal blooms
- Environmental challenges and remediation in view of climate change and related phenomena
- Geomorphological, physical and ecological effects of engineering constructions within estuarine systems and coastal waters
- Estuarine ecosystem health and governance
- EMECs Session "Environmental Management of Enclosed Coastal Seas"
- Quantifying economic and ecological sustainability
- Economic development and ecological and socio-cultural risks: the socio-cultural-economic-ecology interface
- Technical developments in detecting change and managing heavily modified estuaries
- Strategies and Tools for improved estuarine management
- Special Session/Workshop "Writing, refereeing and publishing scientific papers"

#### **Conference Chairs:**

Victor N. de Jonge, University of Hull, UK  
Yunxuan Zhou, State Key Laboratory of Estuarine and Coastal Research, East China Normal University, Shanghai, China  
Zhongyuan Chen, State Key Laboratory of Estuarine and Coastal Research, East China Normal University, Shanghai, China (Conference Co-chair)  
**URL:** <http://www.estuarinecoastalconference.com/>

### **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.rnr.lsu.edu/icce2014/>

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

### More Coming Events in ISI Website

- ICCE Symposium on Erosion and Sediment (USA, Dec 11-14, 2014)
- 6th International Conference on Flood Management (Brazil, Sep. 16-18, 2014)
- Water Convention 2014 (Singapore, 1-5 Jun, 2014)
- International Conference on Climate Change, Water and Disaster in Mountainous Areas (Nepal, Nov.27-29, 2013)
- 8th International SedNet conference (Portugal, 6-9 November 2013)
- ECSA 53: Estuaries and coastal areas in times of intense change (China, Oct. 13–17, 2013)
- 35th IAHR World Congress: The Wise Find Pleasure in Water (China, Sept. 8-13, 2013)
- Special Seminar “Challenges and Issues in Water Resources Management in Africa” in the 35th IAHR Congress (China, Sep.8-13, 2013)
- The 2nd WASWAC World Conference (Thailand, Sep. 4-8, 2013)
- International Workshop of Acoustic and Seismic Monitoring of Bedload and Mass Movements (Switzerland, Sep. 4-7. 2013)
- Workshop on the International Sediment Advancements (WISA)(Japan, Sep. 3, 2013)
- 12th International Symposium on River Sedimentation (Kyoto, Japan, Sep. 2-5, 2013)
- Knowledge for the Future: IAHS-IAPSO-IASPEI Joint Assembly (Sweden, July 22-26, 2013)

More .....

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





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

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

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