

# INTERNATIONAL SEDIMENT INITIATIVE

# NEWSLETTER

*Reporting ISI news to you quarterly*

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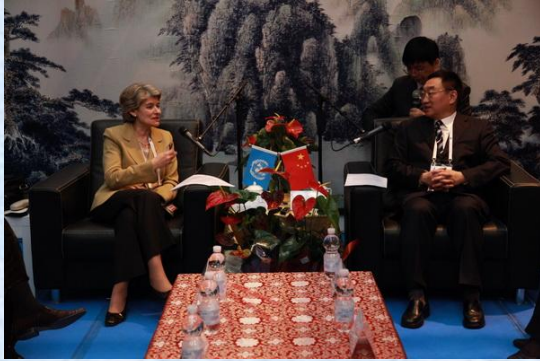
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## NEWS

### Minister of Water Resources of China and UNESCO Director General met on 12th March during the World Water Forum



(WWF6 – Marseille, 12 March 2012) UNESCO Director General Ms. Irina Bokova met with Mr. Chen Lei, Minister of Water Resources of China, during the 6th World Water Forum in Marseille on 12th March 2012.

Minister Chen Lei welcomed the UNESCO Director General Ms. Irina Bokova in the Chinese pavilion in Marseille during the 6th World Water Forum on 12th June where he introduced her to the Chinese delegation. Director General Ms. Bokova thanked the Minister and introduced Assistant Director General for Natural Sciences Ms. Gretchen Kalonji, Director of Water Sciences Division Mr. Abdin Salih, and rest of the UNESCO delegation.

Director General (DG) Ms. Bokova and Minister Chen discussed cooperation between UNESCO and China on water resources. Ms. Bokova highlighted the launching of the World Water Development Report (WWDR-4), which is a major contribution to the forum. The WWDR is coordinated with 28 UN agencies and the secretariat is hosted by UNESCO. Ms. Bokova and Mr. Chen also discussed cooperation with IRTCES, which was established in 1984 as the first water related category II centre under the auspices of UNESCO. They both recognized that the IRTCES has made significant contributions to research and training for solving scientific and engineering problems related to erosion and sediment. Ms. Bokova and Minister Chen discussed the renewal of IRTCES.

Ms. Bokova acknowledged the very important work undertaken on climate change adaptation for water resources management in the Yellow River Basin. The DG expressed that such cooperation will continue to grow in importance to develop much needed climate adaptation strategies in other river basins both within and outside of China, especially in other developing countries. The DG highlighted the upcoming Rio+20 event and emphasized that water should be high on the agenda of the meeting. Minister Chen thanked UNESCO for cooperation on several events, and conferences organized in China and he further emphasized that the WWDR has always received a very high assessment in China. Minister Chen further highlighted UNESCO's contribution on the Yellow River Basin Climate Change Project.

### Irina Bokova launches UN World Water Development Report in Marseille

At the launch of the UN World Water Development Report in Marseille, UNESCO Director-General, Irina Bokova highlighted water as the common denominator of most global challenges. "Water is crucial for agriculture and nutrition, it is essential for food security, it is vital for health, it is needed in all processes to produce electricity or energy," said the Director-General.



The Director-General underlined the great potential in women as they stand at the heart of sustainable water management, saying "the report shows how supporting and training women to manage and control water resources can change the life of an entire community".

This 4th World Water Report was launched by UNESCO Director-General Irina Bokova and the Chair of UN-Water Michel Jarraud at the 6th World Water Forum in Marseille (France) on 12 March. The Forum, held once every three years since 1997, was opened by French Prime Minister Francois Fillon. Its objective is to address water related challenges that our world is facing and to place water high on all political agendas.

The Director-General also participated in a side event entitled "Water Resources and Gender Equality: what is the link?" where she focused on the challenges women face and their vital role. Irina Bokova called for new leadership on freshwater saying "this leadership must bring together all actors involved in using and managing water (...) it must acknowledge, integrate and strengthen the roles of women".



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

### Minister of Water Resources China visits UNESCO-IHE

His Excellency, Mr. Chen Lei, Minister of Water Resources (MWR) of the People's Republic of China visited the Institute on 21 March 2012. The high-level delegation was in the Netherlands for an official visit to discuss bilateral agreement with the Dutch Ministry of Infrastructure and Environment.

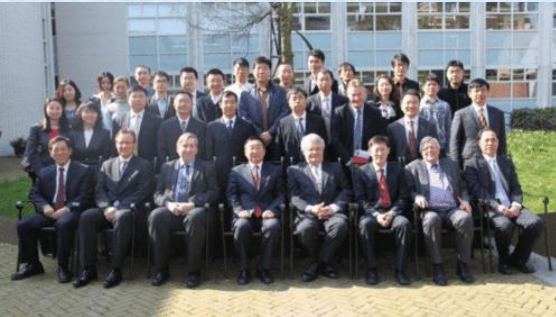
The Minister decided to visit UNESCO-IHE since in the last 20 years UNESCO-IHE has trained 150 junior staff and 100 senior managers for his ministry and affiliated river basin authorities. The Minister was briefed



on the long-term strategic plans of the Institute. In particular, the possibility of the establishment of an UNESCO-IHE Global Campus in Asia was warmly received.

**Agreement:** The Minister proposed to establish a Memorandum of Understanding between the MWR of China and UNESCO-IHE. This MoU shall be signed during the 5th International Yellow River Forum to be held in September, 2012. The MoU seeks to strength the long-term close and effective cooperation in the areas of mutual interests and strengths. The priority areas are: (1) the support of MWR for the UNESCO-IHE Global Campus in Asia; (2) exchange of staff for organizing seminars and workshops; (3) organization of tailor-made training courses for professionals, middle managers at Division Chief level, and senior managers at Director General levels; and (4) conducting joint research in the fields of flood management, soil and water conservation, water pollution, and integrated water resources management.

**Delegation:** Members of the delegation also included the Director-Generals of Science, Technology and International Cooperation, Water Resources, and Flood Control Headquarters. Chinese students studying at UNESCO-IHE met the Minister and his delegation. (source: UNESCO-IHE, <http://www.unesco-ihe.org>)



### China, EU ink joint statement on water cooperation



MARSEILLE, France, March 14 (Xinhua) -- China and the European Union (EU) signed the Joint Statement upon Establishment of the China-Europe Water Platform (CEWP) to boost water cooperation on Wednesday.

China's Ministry of Water Resources and the EU presidency currently held by Denmark, on behalf of the EU member states and Croatia, agreed to establish the CEWP with the political support of the EU Water Initiative (EUWI) "based on reciprocity and mutual benefit," the statement said.

The platform will involve various stakeholders, which may include government agencies, river basin authorities, research institutes, municipalities, NGOs and the private sector etc., according to the statement inked at the China-

Europe Water Platform Conference held on the sidelines of the Sixth World Water Forum.

The cooperation "will be assisted by a European Secretariat hosted by one of the member states and a Chinese Secretariat hosted by Ministry of Water Resources," said the document. "The activities of the CEWP may include policy dialogue, joint research, and business-oriented projects and will be implemented with funding made available by both sides," said the joint statement.

China's Ministry of Water Resources has signed bilateral agreements or Memorandums of Understanding (MOUs) with water authorities of 17 European countries, said Chen Lei, China's Minister of Water Resources, at the China-Europe Water Platform Conference. The minister highlighted the five years' successful implementation of the EU-China River Basin Management Programme (RMBP), which has promoted policy dialogues, technical exchanges and reciprocal cooperation between river basin authorities of China and Europe. The CEWP marks the establishment of the long-term cooperation platform between China and Europe, he said. "I hope that that our two side will boost the collaboration to continually promote China-Europa water cooperation in breadth and depth and make new contributions to the development of the existing comprehensive strategic partnership between China and EU," said Chen.

Danish Environment Minister Ida Auken signed the statement together with Chen.

The joint statement could be upgraded into a MOU after passing relevant procedures and obtaining legal approval.

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



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) on the morning of January 9, 2012 accompanied by Dr. R. Jayakumar and Ms. Wang Bing from UNESCO Beijing Office.

Mr. Han, in accompany of Prof Hu Chunhong, Deputy Director and Secretary-General of the IRTCES, visited IRTCES offices, facilities and the Editorial Office of the International Journal of Sediment Research. Subsequently, a meeting was held presided by IRTCES Deputy Director Prof. Gao Zhanyi. In the meeting, Mr. Han said that IRTCES, the first UNESCO Category II center, has a special significance. Its pioneering work promotes establishments and developments of many new Category II Centers worldwide. He hoped IRTCES will radiate its influence to more surrounding regions and



developing countries, and to play a greater role. He also introduced new situation and challenge faced by the UNESCO's Natural Sciences Sector. Prof. Hu Chunhong presented on IRTCES' international conferences, training, communications, scientific research and other activities, and mentioned that IRTCES would endeavor to make greater contributions to the advancement of global sediment-related science and technology under the guidance of the UNESCO and the Ministry of Water Resources. IRTCES Deputy Division Chief Prof. Liu Cheng showed the database "Global Data of Erosion and Sedimentation" constructed and maintained by the IRTCES. Future database development combined with UNESCO's International Sediment Initiative was discussed.

### IRTCES Hosts a Dragon New Year Celebration together with UNESCO



As the Chinese new lunar year, the year of Dragon, is approaching, the International Research and Training Center on Erosion and Sedimentation (IRTCES) hosted a Chinese New Year celebration with UNESCO and the Ministry of Water Resources of China (MWR) on the evening on January 10, 2012. Participants from UNESCO include: Mr. Han Qunli, Director, Executive Office of UNESCO's Natural Sciences Sector, who is in Beijing for mission for the moment; Ms. Beatrice Kaldun, Officer-in-Charge of the Office/Programme Specialist for Culture; Dr. R. Jayakumar, Programme Specialist for Science, Technology and Environment; and Ms. Wang Bing and Mr. Cameron Munro from UNESCO Beijing Office. MWR represents, Mr. Jin Hai, Vice President of Development Research Center of the MWR, and Mr. Hao Zhao Deputy Division Director of the Department of International Cooperation, Science and Technology of the MWR, attended the celebration. IRTCES Deputy Director and Secretary-General Prof. Hu Chunhong, Deputy Director Prof. Gao Zhanyi, Advisor Prof. Zheng Rugang, Chairman of Advisory Council Prof. Wang Zhao-Yin, and other staff joined in the party.

Prof. Hu Chunhong warmly welcomed all participants on behalf of IRTCES with sincere thanks to the UNESCO and the MWR for their long-term supports to the IRTCES. After briefing the last year's achievements of IRTCES Prof. Hu expressed that the IRTCES would do its best to make further progress in the coming New Year under the guidance and supports of UNESCO and MWR.

Mr. Han Qunli praised the first UNESCO Category II Center, IRTCES, on its leading role for other Category II Centers in his speech. He hoped IRTCES would play an increased role internationally by providing technical support to the surrounding regions and developing countries through the UNESCO platform. Ms. Kaldun expressed UNESCO Beijing Office would continue to work closely with the IRTCES and support its development.

Mr. Jin Hai noted that the 2011 No. 1 Document issued by the Chinese Government last year initiated the new journey of rapid development for water conservancy.

He encouraged IRTCES to seize the rare historical opportunity for development to make new and greater achievements in the new year.

### Second teleconference organized for discussing the final synthesis report for the ISI case studies

On 9 February 2012, a teleconference was convened by Dr. Anil Mishra with Dr. R Jayakumar from UNESCO, Prof. Des. Walling, Prof. Manfred Spreafico, Prof. Cheng Liu and Mr. Cameron Munro to discuss the progress on preparation of the final synthesis report for the ISI case studies.

The teleconference: 1) Discussed options for developing an 'ISI Case Study Database' and noted the data currently available in the case study reports; 2) Agreed on the proposed structure for the final report which will build upon the Interim Synthesis Report released in 2011; 3) Noted that the report should be finalized by late 2012.

### China to rehabilitate eroded land



NANNING - China aims to rehabilitate 250,000 km<sup>2</sup> of eroded land to make it habitable again by 2015 by intensifying its efforts to deal with water loss and soil erosion, a senior official said Saturday (Feb. 25).

The country also aims to build 40 million mu (2.67 million hectares) of agricultural terraces by 2015 to ensure food supplies for 30 million people, Chen Lei, minister of water resources, said at a meeting in Nanning, the capital of south China's Guangxi Zhuang autonomous region.

China has already rehabilitated 1.1 million square km of land, benefiting 150 million residents over the past 10 years.

"Although we have made much headway in controlling water and soil loss, we are still falling short of the country's targets," Chen said.

Nearly one-third of China's land is vulnerable to soil erosion, and the phenomenon is particularly severe in the country's western regions.

Governments at all levels should fully implement the Law on Water and Soil Conservation, allocate funds for reducing soil erosion and strike a balance between preserving the environment and promoting economic growth, Chen said. (Source: China Daily)

### NIWA studies where river sediments go (New Zealand)

NIWA scientist studies the mixing of river and sea and asks: Where do river sediments go?



Flying above the New Zealand coastline on cloudless days, you can sometimes see plumes of material-laden river water, much of it containing sediment from land runoff. Understanding where this material ends up will help assess the land use impacts on our vulnerable coastal ecosystems, and guide mitigation measures to reduce those impacts.

The mixing of freshwater rivers and seawater at the coast is complex and difficult to study.

Doubtful Sound in Fiordland National Park is a naturally occurring laboratory, helping NIWA scientist Dr Joanne O'Callaghan answer this important question.

Doubtful Sound has a freshwater layer caused by runoff and outflow from the Manapouri power station. The outflow is very similar to how other major rivers around New Zealand discharge into the sea. Dr O'Callaghan says Doubtful Sound is halfway between a laboratory and an open coast as it is enclosed and untainted by other oceanographic processes.

The steep sides of the fiord, and its distance from the open coast, reduce the complexity of mixing processes between river and seawater.

"The controlled flow from Meridian Energy's Manapouri power station means that the 'laboratory' freshwater tap is turned on and off regularly. The advantage over a laboratory is that the mixing processes are happening at scales relevant to other coastal areas in New Zealand," says Dr O'Callaghan.

Dr O'Callaghan says that rivers create subsurface waves in the sea, moving outwards from the coast, which may carry sediments much further offshore than previously thought. The subsurface waves detected in Doubtful Sound were able to keep moving for several kilometres and possibly even out of the fiord.

The relationship between the river plumes created when rivers enter the sea, and the generation of subsurface waves, is a key area of Dr O'Callaghan's research.

Subsurface waves can be generated when a river plume slows down away from the coast. The energy from river water can be moved to subsurface waves once the speeds of the surface water decrease below the wave speeds in the surrounding water. Subsurface waves are similar to waves you see when a stone is thrown into a pond. But without the edge of a pond to break up the waves, these subsurface waves can keep moving far out to sea. Subsurface waves transport material too, like waves at the beach - just how far beyond the extent of these highly visible plumes is yet unknown.

"This science has significance to areas like the Canterbury Bight and Hauraki Gulf. To understand where sediments end up we need to understand how it's transported," says Dr O'Callaghan.

Regional councils and the Department of Conservation will be very interested in this science as they seek to manage the impact of sediment plumes in coastal waters.

This work was funded by the Ministry of Science and Innovation. (Source: Voxy, <http://www.voxy.co.nz/>)

### More News in ISI Website

- Contents of IJSR (Vol. 27, No.1, 2012)
- NASA MODIS Image of the Day: March 27, 2012 - Sediment in the South China Sea
- Minister of Water Resources China visits Institute (UNESCO-IHE)
- Minister of Water Resources of China and UNESCO Director General met on 12th March during the World Water Forum
- Vice-Premier Li focuses on water project (China) (Hits:5)
- Milestones in Elwha River dam removals: Fish still checked at Elwha Dam (USA)
- Overview of Key Messages from the UN World Water Development Report (WWDR4)
- Insight: assessing the ecological risk of heavy metals in Lake Taihu (China)
- China, Japan, South Korea to boost cooperation on water challenges
- China, EU ink joint statement on water cooperation
- Water ministers call for integrated approach to address water challenges
- Increasing demand and climate change threatening world water resources says new UN World Water Development Report
- Irina Bokova launches UN World Water Development Report in Marseille (UNESCO)
- World Water Council hopes to strengthen cooperation with China: forum organizer
- World Water Forum calls for immediate solutions to water challenges
- UN warns of uncertainty, risk around water resources
- Freeware software Bed Load Analyzer (C. Dorfmann)
- Desert dunes created by erosion not wind
- NIWA studies where river sediments go (New Zealand)
- Erosion initiative protects 750,000 acres of US cropland
- China to rehabilitate eroded land
- China to complete reinforcement of small reservoirs by 2015
- China's river pollution - a threat to peoples' lives
- Scientists studying sediment in reserve (USA)
- Soil erosion and nuclear reactor management emerging as key green issues - UN
- Second teleconference organized for discussing the final synthesis report for the ISI case studies
- Steps for Addressing Sedimentation in Subsurface Water Storage Systems By Kate Wright
- IRTCES Hosts a Dragon New Year Celebration together with UNESCO
- Director Han Qunli of the Executive Office of UNESCO's Natural Sciences Sector visits IRTCES
- China's Three Gorges to inject water to Yangtze River in dry season

More .....

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



## CONFERENCE REPORT

### World Water Forum calls for immediate solutions to water challenges



MARSEILLE, France, March 12 (Xinhua) -- The Sixth World Water Forum called for immediate solutions to the planet's deepening crisis of fresh water as it kicked off on Monday in the southern French city of Marseille.

"Water is a development issue, and an issue of ecology," said French Prime Minister Francois Fillon at the opening ceremony held at the Parc Chanot in Marseille.

"Protecting water is mandatory for the planet," said President of the World Water Council (WWC) Loic Fauchon, adding that we have to "reduce consumption and improve management."

This year's forum, a six-day arena under the theme of "Time for Solutions," was expected to draw around 25,000 participants from 170 countries, including experts, policymakers and activists, to round tables, seminars and debates on the worsening problems of freshwater, according to the official website of the forum.

"The time has come for solutions," said the Mayor of Marseille Jean-Claude Gaudin, referring to the theme of the forum. "The Marseille forum will bring concrete and sustainable solutions."

Although the target in the Millennium Development Goal to halve the number of people without access to safe drinking water has been met five years before the 2015 deadline, more efforts are needed, UN Secretary General Ban Ki-moon noted in a video message at the opening ceremony.

"We must be united and steadfast in our resolve to accelerate progress and to ensure that all people have the access to the water and sanitation they need to lead lives of dignity and well-being," he said.

According to the French Ministry of Ecology and Sustainable Development, the forum will also be a preparatory step towards Rio+20, the UN Conference on Sustainable Development to be held in Rio de Janeiro, Brazil, on June 20-22.

The forum, the world's largest meeting on water, was organized by the WWC in close collaboration with the French government and the City of Marseille. It has been held every three years since 1997 to raise the importance of water on the political agenda and promote the solution of international water issues.

### Water ministers call for integrated approach to address water challenges

An integrated approach is needed to address various water challenges and achieve sustainable development, the Ministerial Declaration of the Sixth World Water Forum said here on Tuesday.

"We ... are determined to address water challenges at all scales," ministers and heads of delegations from over 170 countries and regions vowed on the second day of the six-day forum, the world's largest meeting on water resources, held in the southern French city of Marseille.

The word "integrated" resounded in the declaration, reflexing the complex nature of the water issue.

"An integrated approach towards sanitation and wastewater management, including collection, treatment, monitoring and re-use, is essential to optimize the benefits and value of water," said the declaration, one of the most important outcomes of the triennial forum.

In light of the intertwining relationship between water and food security and between water and energy, the ministers proposed an integrated approach to ensure an efficient use and protection of water resources at the same time.

"Given the increasing global cross-sectoral demands for and multiple uses of water, sustainable development requires integrated water resources management, which offers a set of principles and processes to facilitate decision-making, planning and investment at all levels," said the declaration.

The ministers also called for integrated policies to ease the strain put by urban development on the scarce resource.

"We intend to promote solutions such as improved urban infrastructure and spatial planning processes at the appropriate level and integrated policies among different authorities, taking into account interactions between cities and their rural surroundings," said the document.

To address the planet's deepening crisis of fresh water, the document set out a roster of recommendations for action, including promoting good water governance, enhancing cooperation among all stakeholders, effectively using financial instruments and creating enabling environment for water.

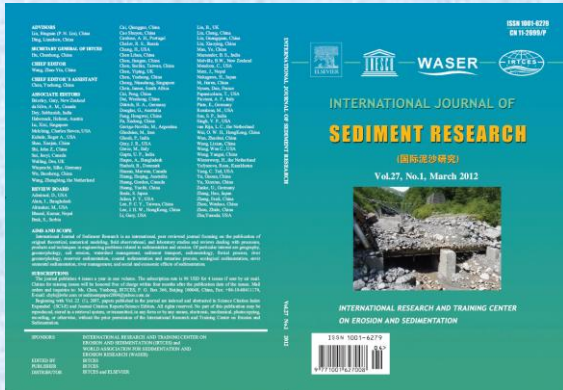
The results of the forum must be "widely disseminated in relevant fora," including the United Nations Conference on Sustainable Development "Rio+20," which will be held in Rio de Janeiro, Brazil on June 20-22, the ministers and heads of delegations said.

This year's forum, under the theme of "Time for Solutions," groups some 25,000 participants, including experts, policymakers and activists, to round tables, seminars and debates on the worsening problems of freshwater.



## PUBLICATION

### Papers Published in Issue 1 Volume 27, 2012, International Journal of Sediment Research



Volume 27, Number 1

Mar. 2012

#### Technical Papers

Bed diversity in the shallow water environment of Pappas lagoon in Greece

G. PAPATHEODOROU, P. AVRAMIDIS, E. FAKIRIS, D. CHRISTODOULOU, and N. KONTOPOULOS

Gender of large river deltas and parasitizing rivers

Zhao-yin WANG, Guo-an YU, He Qing HUANG, and Rui-yu WANG

Rapid changes of sediment dynamic processes in Yalu River Estuary under anthropogenic impacts

JIAN-HUA GAO, JUN LI, HARRY WANG, FENG-LONG BAI, YAN CHENG, AND YA-PING WANG

A study of suspended sediment concentration in Yangshan deep-water port in Shanghai, China

Shu-hua ZUO, Ning-chuan ZHANG, Bei LI, and Shen-liang CHEN

Laboratory analyses of nutrient release processes from Haihe River sediment

Min WU, Xue-ming SUN, Sui-liang HUANG, Xian-qiang TANG, and Miklas SCHOLZ

Petroleum hydrocarbon distribution in continental shelf region of southeast coast of India

Somasundaran LYLA, Seerangan MANOKARAN and Ajmal KHAN

Dynamics and hotspots of soil erosion and management scenarios of the Central Rift Valley of Ethiopia

Derege Tsegaye MESHESHA, Atsushi TSUNEKAWA, Mitsuru TSUBO, and Nigussie HAREGEWEYN

Submerged hydraulic jump with sediment-laden flow

Mohsen NASRABADI, Mohammad Hossein OMID, and Javad FARHOUDI

Incipient motion of cohesionless sediments on riverbanks with ground water injection

Yan LU, Yong-jun LU, and Yee-meng CHIEW

#### Technical Notes

Effects of the grain-for-green program on soil erosion in China

Lei DENG, Zhou-ping SHANGGUAN, and Rui LI

Cover Photo: Debris flow control structures in Japan

### The 4th edition of the UN World Water Development Report (WWDR4)



**About:** The WWDR4 aims to encourage all stakeholders both in and out of the 'water box' - water managers, leaders in government, civil society and businesses – to engage early on in decision making processes to improve the quality and acceptance of decisions and the probability of successful implementation. It will highlight that more responsible action by all water users has enormous potential to lead to better outcomes - but will require political, social, economic and technical responses at all levels of government, businesses and communities, from local to international.

**What's new:** In the World Water Development Report (WWDR) series, the WWDR4 represents a milestone. While providing a comprehensive assessment of the world's water resources it also introduces a strong thematic element. Building on the WWDR3 in the recognition of the externalities, the WWDR4 elaborates on the interactions between water and the drivers of change. The WWDR4 will describe the major changes, uncertainties, and risks taking place in the world and their links to water resources. It will give account of the status and the trends related to water supplies, uses, management, institutions and financing; highlight regional hotspots, and address issues such as gender equality, water-related disasters, health and the role of ecosystems. (free download at ISI, UNESCO and UN websites)

#### **Publications in ISI Information System**

- Distribution, sources and ecological risk assessment of heavy metals in surface sediments from Lake Taihu, China (Yin et al.)
- The 4th edition of the UN World Water Development Report (WWDR4)
- Sediment dynamics of an impounded river: Yegua Creek, Texas (Martinez)
- Suspended sediment transport in the Ganges-Brahmaputra River System, Bangladesh (Rice)
- Nutrient and Suspended-Sediment Trends in the Missouri River Basin, 1993–2003 (USGS)
- Trends in Streamflow and Nutrient and Suspended-Sediment Concentrations and Loads in the Upper Mississippi, Ohio, Red...(USGS)

More .....

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



## COMING EVENTS

### 4th International Conference on Estuaries and Coasts (Vietnam, Oct.8-11, 2012)

**Date:** 8-11 October 2012

**Venue :** T45 Conference Hall, Water Resources University, Hanoi, Vietnam

**Summary:** The 4th International Conference on Estuaries and Coasts (ICEC-2012) will be held in Hanoi, Vietnam, co-organized by Water Resources University and the International Research and Training Center on Erosion and Sedimentation (IRTCES). The ICEC2012 aims at providing a forum for discussion and exchange among researchers and scientists in the field of estuary and coast.

**Organizer:** Water Resources University, Vietnam

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

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

**Secretariat:** Water Resources University, Vietnam

**Permanent Secretariat:** IRTCES

**Conference Themes:** Vision and Imagination – Water in an Era of Change, with sub-themes

Climate Change

Water Resources and Hydrology

Environmental and Ecological Hydraulics

Coastal and Estuarine Hydrodynamics

Estuarine and Coastal Management

Design, Maintenance and Management of Waterways

in Estuaries and Harbors

Research Technologies for Estuarine Engineering

Coastal Structures

Coastal Hazard

**URL:** <http://www.icec2012.edu.vn/>

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### 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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Shimomisu, Yoko-ji, Fushimi-ku, Kyoto 612-8235, Japan



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### 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/>

### International Symposium on Erosion and Sediment Yields in the Changing Environment (China, Oct. 11-15, 2012)

**From** 2012-10-11 to 2012-10-15

**Venue:** Chengdu, China

**Summary:** The International Commission on Continental Erosion (ICCE) is one of five commissions of the International Association of Hydrological Sciences (IAHS). The field of interests of the ICCE may be broadly defined as including the erosion, transport and deposition of sediment and the interaction of these processes with other components of the environment. The Chengdu ICCE'2012 Symposium will focus on both erosion and sediment yields in the changing environment, considering:  
- Dynamic processes of erosion and sediment transport in fluvial systems;

- Impacts of climate change and human activities on erosion and sediment yields;
- Erosion and sediment yields modeling, mountain hazards and debris flows; and
- Monitoring and tracing methodology.

**Organizers:** The International Commission on Continental Erosion (ICCE) of the International Association of Hydrological Sciences (IAHS); Chengdu Institute of Mountain Hazards and Environment (IMHE).

**Contact Name:** Prof Xiubin He

**E-mail:** [xiubinh@imde.ac.cn](mailto:xiubinh@imde.ac.cn)

**URL:**

[http://www.iahs.info/conferences/2012\\_Chengdu\\_ICCE.pdf](http://www.iahs.info/conferences/2012_Chengdu_ICCE.pdf)

### The 5th International Yellow River Forum (China, Oct. 16-19, 2012)

**From** 2012-10-16 to 2012-10-19

**Venue:** Zhengzhou, China

**Summary:** The 5th International Yellow River Forum (IYRF) on ensuring water rights for and the maintenance of a healthy river basin will take place on October 16-19, 2012 in China. We are very pleased to extend an invitation to you. The forum will focus on hot spots of water issues related to integrated water resources and river basin management. Facing the deterioration of the natural environment, and taking into account the water needs of both the environment and human society, there is a need to protect river ecosystems and provide for the sustainable development of rivers in order to provide positive support for the human development.

**Theme:** Central theme "Ensuring water right of the river's demand and healthy river basin maintenance"

**Organizers:** Yellow River Conservancy Commission, Ministry of Water Resources, China; China Yellow River Foundation

**Contact Name:** Mr. Shang Hongqi, Secretary-general

**E-mail:** [yrf@yrcc.gov.cn](mailto:yrf@yrcc.gov.cn); [iyrf@hotmail.com](mailto:iyrf@hotmail.com)

**URL:** <http://www.yellowriverforum.cn>

### River Flow 2012: International Conference on Fluvial Hydraulics (Costa Rica, Sep. 5-7, 2012)

**From** 2012-09-05 to 2012-09-07

**Venue:** San José, Costa Rica

**Summary:** The objective of the Conference is to create the opportunity for reflection, discussion and exchange of knowledge and experiences related to the fluvial hydraulics.

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

**Contact Name:** Conference Secretariat

**E-mail:** [info@riverflow2012.org](mailto:info@riverflow2012.org)

**URL:** <http://www.riverflow2012.org/>

### Fifth International Symposium on Contaminated Sediments (Canada, May 23-25, 2012)

**Date:** May 23-25, 2012

**Venue:** Concordia University Montreal, QC, Canada

**Summary:** Papers are invited for the Fifth International Symposium on Contaminated Sediments to be held on May 23-25, 2012. Sponsored by ASTM Committee D18 on Soil and Rock, the symposium will be held at Concordia



University in Montreal, QC, Canada. The major objectives of the symposium are to:

- Identify sources, types, and behaviour of contaminants;
- Discuss and share the state of art of sustainable options for the management of contaminated sediments in marine and freshwater environments for restoration of surface water;
- Provide a forum to debate future directions and visions in terms of technical, environmental and economical perspectives; and
- Promote multilevel involvement and participation of stakeholders in restoration strategies.

**Sponsors:** ASTM Committee D18 on Soil and Rock

**URL:** [http://www.astm.org/SYMPOSIA/filtrexx40.cgi?+P+EVENT\\_ID+1857+usr6/htdocs/astm.org/SYMPOSIA/callforpapers.frm](http://www.astm.org/SYMPOSIA/filtrexx40.cgi?+P+EVENT_ID+1857+usr6/htdocs/astm.org/SYMPOSIA/callforpapers.frm)

**Contacts:** Additional information about the symposium is available from Symposium Co-Chairs Catherine N. Mulligan, Ph.D., Email: [mulligan@civil.concordia.ca](mailto:mulligan@civil.concordia.ca), tel: 514-848-2424, ext 4212, or S. Samuel Li, Ph.D, E-mail: [samli@bcee.concordia.ca](mailto:samli@bcee.concordia.ca), tel: 514-848-2424, ext 3033, Concordia University, Montreal, QC, Canada.

### More Coming Events in ISI Website

- International Conference on Climate Change, Water and Disaster in Mountainous Areas (Nepal, Nov.27-29, 2013)
- 35th IAHR World Congress: The Wise Find Pleasure in Water (China, Sept. 8-13, 2013)
- 12th International Symposium on River Sedimentation (Kyoto, Japan, Sep. 2-5, 2013)
- 3rd International Conference on Managing Rivers in the 21st Century (Malaysia, Dec. 6-9, 2012)
- The 5th International Yellow River Forum (China, Oct. 16-19, 2012)
- International Symposium on Erosion and Sediment Yields in the Changing Environment (China, Oct. 11-15, 2012)
- 4th International Conference on Estuaries and Coasts (Vietnam, Oct.8-11, 2012)
- ISE2012 - 9th International Symposium on Ecohydraulics (Austria, Sep. 17-21, 2012)
- River Flow 2012: International Conference on Fluvial Hydraulics (Costa Rica, Sep. 5-7, 2012)
- 10th International Conference on Hydroinformatics (Germany, July 14-18, 2012)
- 4th International Congress of ECSSS (Italy, July 2-6, 2012)
- 21st IAHR International Symposium on Ice (China, June 11-15, 2012)

- Fifth International Symposium on Contaminated Sediments(Canada, May 23-25, 2012)
- 3rd International Symposium on Sediment Management (I2SM, India, 20-22 March, 2012)
- Launch of the 4th edition of the World Water Development Report (WWDR4)(France, Mar. 12, 2012)
- 6th World Water Forum (Marseille, France, 12-17 March, 2012)
- International Conference on Traditional Knowledge for Water Resources Management (Iran, Feb. 21-23, 2012)

More .....

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

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



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