

INTERNATIONAL SEDIMENT INITIATIVE

NEWSLETTER

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NEWS

Dr. Blanca Jimenez Cisneros has been nominated as Director of the Division of Water Sciences and Secretary of the IHP

The General Director of the UNESCO Ms. Irina Bokova has appointed Ms. Blanca Jiménez Cisneros as the Director of the Division of Water Sciences and Secretary of the International Hydrological Programme in the Natural Sciences Sector of UNESCO. This decision took effect on 4 September 2012.

Born in 1958, Ms Jimenez holds a degree in Environmental Engineering, with a specialization in water (1980), from the Autonomous National Metropolitan University (UNAM) in Mexico City (Mexico). She also holds a Masters degree (1982) in Environmental Engineering, as well as a Ph.D (1985) in Water and Wastewater Treatment, from the "Institut national des sciences appliquées" (INSA) in Toulouse (France).

Ms Jimenez began her academic career at the Department of Environmental Engineering at the Institute of Engineering of UNAM in 1989. In addition to her academic responsibilities as researcher and professor, she held various posts in the Institute, including those of Environmental Engineering Coordinator and Water Quality Coordinator. Between 1997 and 2001, she served as the Institute's Deputy Director for Hydraulic and Environmental Engineering. She was subsequently appointed to the rank of Senior Researcher and Professor at UNAM in 2005, and she held this rank until her appointment at UNESCO. She had sabbaticals at the University of Pretoria (South Africa), the Mexico Institute for Water Technologies (IMTA), and at the Ecology National Institute of Mexico, where she led various research teams.

At the national level, she served as an expert consultant to the Local, State and National Government in Mexico, as well as to private industry. Her contributions include the preparation of the water sector national research programme of Mexico, providing expert opinion to Mexican courts and assisting Xohitlial, a stakeholder NGO, in limiting the over exploitation of the Mexico City Aquifer.

At the international level, Ms Jimenez was a senior expert consultant to the Governments of Argentina, Ecuador, Guatemala, India, Mexico, Nicaragua, Spain and South Africa on wide range of issues including the formation of national wastewater treatment programmes, water re-use, and the evaluation of major projects and programmes. She also was a consultant to intergovernmental organizations including UNESCO, UNICEF and WHO, as well as to the Bill and Melinda Gates Foundation. She was a member of the International Water Association's (IWA) Board of Directors (2004-2008) and the founder of IWA's chapter in Mexico. Ms Jimenez is the author of a large number of scientific publications and reports. She also received many research grants in the areas of water supply, of water and wastewater treatment, and of water re-use, including for some of the IHP's own landmark publications. Her research publications cover a wide range of complimentary interests including urban water systems, hydrological systems and global changes, sustainable water resources development, groundwater systems and gender issues in water resources management.

A member of Mexico's National Engineering Academy and the Mexican Academy of Science, Ms Jimenez has served as the President of the Mexican Sanitary and

Environmental Engineering Society (2001-2002) and has been a member of the Scientific Council of the President of Mexico since 2010.

Ms Jimenez is the recipient of several prestigious scientific awards including the Mexican National Environmental Merit Award (2006), the National University Prize (2008) and the National Prize for Science (2009). She also is the recipient of the IWA's Global Water Award (2011) and was one of the scientists who shared the 2007 Nobel Peace Prize, which was awarded to the Intergovernmental Panel on Climate Change (IPCC).

IRTCES visits UN GEMS/Water Office



Prof. Hu Chunhong, Secretary-General and Deputy Director of the International Research and Training Center on Erosion and Sedimentation (IRTCES), visited the United Nations Environment Programme Global Environment Monitoring System / Water Programme (UN GEMS/Water) Office located in Burlington, Ontario, Canada on December 7, 2012, together with Prof. Chen Jianguo and Prof. Liu Cheng, IRTCES Division Chief and Deputy Division Chief. Ms. Yvonne Stokker and Ms. Kelly Hodgson, Quality Assurance Specialist and Data Specialist of the GEMS/Water Office welcomed the IRTCES' visit. Both sides shared programme activities and experiences of database construction and maintenance, and looked forward to future collaborations of mutual interests.

GEMS/ WATER is an international programme on water quality monitoring and assessment, jointly implemented by UNEP, WHO, UNESCO and WMO. Established in 1978, the GEMS/Water Programme is the primary source for global water quality data. GEMStat is designed to share surface and ground water quality data sets collected from the GEMS/Water Global Network, including more than 3,700 stations, close to 4.3 million records, and over 100 parameters.

IRTCES exchanges technical experiences and discusses potential collaborations with USGS and ICIWaRM in US



Prof. Hu Chunhong, Secretary-General and Deputy Director of the International Research and Training Center on Erosion and Sedimentation (IRTCES), visited the U.S. Geological Survey (USGS) National Center on December 10, 2012, together with Prof. Chen Jianguo and Prof. Liu Cheng, IRTCES Division Chief and Deputy Division Chief. Dr. Verne Schneider, Secretary-General of the U.S. IHP National Committee and Chief of the International Water Resources of the USGS, and Mr. John Gray, the USGS Sediment Specialist welcomed the visit. Prof. Hu introduced the IRTCES and its activities, briefed the advances of measuring techniques and researches on river sediment, and proposed future potential collaborations. Dr. Schneider and Mr. Gray reviewed activities under the Annex 4 of the China-US Protocol on Hydrology (Sediment Transport) and prospected future collaboration, introduced USGS sedimentation activities, and discussed future cooperation. Dr. Mark Landers, the Chief of the Federal Interagency Sedimentation Program, shared technologies for measurement and analysis of sediment properties in US and China with IRTCES visitors through teleconference. Potential collaborations on sediment measuring techniques, database, sediment laboratory, data comparison, sediment simulation, technical training and reservoir sedimentation were discussed. IRTCES delegates also had a discussion with Dr. Matthew C. Larsen, Chairman of the U.S. IHP National Committee, and others.

A meeting among IRTCES delegates and Dr. William S. Logan, Deputy Director of the International Center for Integrated Water Resources Management (ICIWaRM), was also held in the USGS National Center. Both sides shared activities and programmes under the frame of IHP as UNESCO Category II centers, and discussed potential collaborations on information exchange, scientific research, technical training. Dr. Stanford Gibson from the Hydrologic Engineering Center of the US Army Corps of Engineer exchanged techniques on river sediment numerical modeling with Chinese visitors through teleconference. The ICIWaRM was created by a 2009 agreement between the US government and UNESCO hosted by the US Army Engineer Institute for Water Resources with mission of "the advancement of the science and practice of IWRM to address water challenges".

The IRTCES delegates had a technical tour to a reach of the Potomac River accompanied by colleagues of USGS and ICIWaRM..

Prof. Dano Roelvink of the UNESCO-IHE visits IRTCES



Prof. J.A. (Dano) Roelvink, Head of Coastal Engineering and Port Development, UNESCO Institute for Water Education (UNESCO-IHE), visited the International Research and Training Center on Erosion and Sedimentation (IRTCES) on November 2, 2012.

Chaired by Prof. Liu Guangquan, Deputy Director of IRTCES, a seminar was organized with participants of staff and students from the IRTCES and China Institute of Water Resources and Hydropower Research. In the seminar Prof. Roelvink made a presentation "Advances in long-term, process-based modelling of estuaries and coasts" and followed by discussions.

A meeting discussing future possible collaboration between IRTCES and UNESCO-IHE was held after the seminar. Collaborative activities on future training workshop, reservoir sedimentation research, and International Journal of Sediment Research were discussed

Egyptian Minister of Water Resources and Irrigation Visits for Cooperation Start-up (IWHR, China)

H.E. Mr. Mohamed Bahaaeddin, minister of Water Resources and Irrigation of Egypt, and Mr. Mohamed Abdel Moneim, Director of Minister Technical Office, visited China Institute of Water Resources and Hydropower Research (IWHR) on November 22, 2012 to start up the cooperation between the two parties.



IWHR President Kuang Shangfu, Vice President Yang Xiaodong and Chief Engineer Gao Zhanyi welcomed the delegation with other IWHR colleagues at the headquarters. Accompanying the minister were Mr. Jin Zhiyong from the Embassy of China in the Arab Republic of Egypt and program officers from the Department of International Cooperation, Science and Technology, Ministry of Water Resources of China.

President Kuang firstly welcomed H.E. Minister Bahaaeddin with cordial words and appreciated his presence and addressing at the China Yangling Agricultural Hi-Tech Fair, which greatly impressed the audience. He talked about the meeting between Mr. Bahaaeddin and China's Minister of Water Resources Chen Lei on the morning of the same day when an MOU was signed between the two ministries. Kuang said, as a scientific research institute under the Ministry, IWHR is always willing to cooperate with Egyptian counterparts under the MOU framework. According to Kuang, as both ancient civilizations with long history of water resources management, China and Egypt should enhance cooperation in fields of mutual interests, such as agricultural irrigation, optimized deployment of water resources, flood control and disaster mitigation. In particular, IWHR and the National Water Research Center of Egypt should promote communication and cooperation by means of personnel exchange, mutual visits and joint research.

H.E. Minister Mohamed Bahaaeddin thanked President Kuang for the warm reception. He briefed on the status of Aswan Dam and the irrigation system in Egypt. According to the minister, the National Water Research Center of Egypt and IWHR are of the same kind. Hence, there will be a broad prospect for cooperation and collaboration between the two parties under the framework of the MOU.

After the meeting, Minister Bahaaeddin visited the laboratories of virtual reality platform and automated control of IWHR and communicated with the relevant experts. IWHR Chief Engineer Gao Zhanyi introduced the food security and irrigation development in China. Director Cao Wenhong, head of the Department of Sedimentation, briefed on the research of the department with an emphasis on the reduction of reservoir sediment.

Soil conservation effort takes root (China)



Before surrounded by barren mountains, a small village in Changting county of Fujian province has become an attractive locale as its rate of forestation rose from 34 percent to the current 68 percent. The change was so remarkable it is now known as the "Changting experience" and held up to exemplify Fujian's effort to become an environmentally friendly province, according to local media.

Fujian has high mountains, steep slopes and is frequently hit by typhoons, resulting in difficulties in conserving both water and soil. Before, Changting county suffered tremendous large soil erosion. Some locals even described it as the place with "bare mountains, muddy water and poor people".

"All kinds of development and use should be under ecology protection for sustainable development of both the economy and society," said Xi Jinping in 2000 when he was Party chief of Fujian province. Xi made ecological development a priority on the government agenda. Soon, Fujian became China's first pilot province in implementing ecological development practices.

From 2000 to 2009, Fujian authorities invested 10 million yuan (about \$1.6 million) annually in dealing with Changting's soil erosion. Besides Changting, Fujian had another 21 counties with serious soil erosion problems. The policy to improve the ecological conditions has been maintained throughout the terms of government officials. Both the central and local governments have provided financial support for the task for many years.

The latest satellite data shows that soil erosion in Fujian's 22 severely affected counties have been reduced by 491 square kilometers compared to 2008. This year several national administrations including the ministries of finance and water resources invested more than 247 billion yuan to address soil erosion in Fujian, while the provincial government invested 210 million yuan in the work.

Fujian province has slowed soil erosion across 1,466 square kilometers this year, 110 percent of the targeted progress for 2012. It aims to assist another 2,667 square kilometers of eroded area in 2013. (Source: China Daily)

Govt to tackle riverbank erosion (Thailand)

The government has ordered a survey on erosion in river basins across the country, particularly along the

Chao Phraya and Pasak riverbanks where several houses have collapsed into the water.

Natural Resources and Environment Minister Preecha Rengsomboonsuk said he had been instructed by Prime Minister Yingluck Shinawatra to survey the banks of the Chao Phraya in tambons Sai Noi, Bang Chanee and Ban Kum of Ayutthaya's Bang Ban district, where serious erosion has been reported. Mr Preecha said he would coordinate with the interior, transport, and agriculture and cooperatives ministries to slow riverbank erosion in the district, where the tides are rapid. A dyke would be constructed to prevent further erosion, the minister said.

The Mineral Resources Department and the Public Works and Town Planning Department have been assigned to survey a site for the proposed dyke and design it. To determine the full extent of riverbank erosion across the country, the Natural Resources and Environment Ministry and related agencies will inspect affected areas in 25 river basins nationwide.

In Ayutthaya, Bang Ban municipal mayor Chukiart Boonmee said he would propose that the government purchase 100 rai of land and turn the site into a housing project for residents whose homes had been destroyed by erosion. Meanwhile, residents living along the Chao Phraya and Pasak rivers in Ayutthaya were preparing to petition the Administrative Court to ban cargo ships from navigating the waterways. They claim that heavy use of the rivers by commercial barges has caused erosion and affected their livelihoods.

Chatri Yuprasert, deputy chairman of the provincial administration organisation in Ayutthaya, said shipping on the two major rivers created waves which crashed against the riverbanks, causing them to erode more rapidly. A 100m-long section of the Pasak River River in Aranyik community in Ayutthaya's Nakhon Luang district collapsed on Friday, along with one house. Residents blamed heavy commercial river traffic and changing water levels. (Source: <http://www.bangkokpost.com/>)

More News in ISI Website

- Sediment forming sandbars at mouth of Elwha River (USA)
- CM for steps against sea erosion (India)
- IRTCES exchanges technical experiences and discusses potential collaborations with USGS and ICIWaRM in US
- IRTCES visits UN GEMS/Water Office
- ARRN 7th Governing Council Meeting & 9th International Forum on River Restoration Held at IWHR (China)
- Egyptian Minister of Water Resources and Irrigation Visits for Cooperation Start-up (IWHR, China)
- Minister Chen Lei met with Egyptian Minister of Water Resources and Irrigation (China)
- Feds begin high-flow releases from Glen Canyon (USA)
- DNR: Deep Creek Lake Sediment not 'much of an issue'(USA)
- Hurricane Sandy's legacy here: widespread beach erosion (USA)
- Govt to tackle riverbank erosion (Thailand)
- Laos approves Xayaburi 'mega' dam on Mekong
- Soil conservation effort takes root (China)
- E-learning opportunities for the 22nd IHP Training Course on "PRECIPITATION MEASUREMENT

FROM SPACE AND ITS APPLICATIONS" - 19-29 November 2012

- Prof. Dano Roelvink of the UNESCO-IHE visits IRTCES
- Practical training course on sustainable sediment management with the Sava River Basin as a showcase
- The Fourth International Conference on Estuaries and Coasts is successfully held in Hanoi, Vietnam

- USACE Deputy Commanding General Visits for Bilateral Cooperation (IWHR, China)
- Vietnam hosts int'l conference on estuaries, coasts
- Dr. Blanca Jimenez Cisneros has been nominated as Director of the Division of Water Sciences and Secretary of the IHP (UNESCO)

More

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

CONFERENCE REPORT

Practical training course on sustainable sediment management with the Sava River Basin as a showcase



In cooperation between International Sava River Basin Commission (ISRBC) and UNESCO Venice Office, together with the UNESCO International Sediment Initiative (ISI) and the European Sediment Network (SedNet), the "Practical training course on sustainable sediment management with the Sava River Basin as a showcase" was organized in the Four Points by Sheraton Panorama Hotel, Zagreb, Croatia, from October 15, 2012 until October 18, 2012.

Experts from Europe, USA as well as national experts from Bosnia and Herzegovina, Croatia, Serbia and Slovenia exchanged the information on a) sediment balance throughout the river system; b) sediment monitoring; and c) evaluation of sediment quality and quantity. The participants were asked to transfer their learning experiences into draft practical guidance which would be a basis for development of Sustainable Sediment Management Plan for the Sava River Basin stipulated by the Protocol on Sediment Management to the FASRB.

The agenda and all presentations of the course are available at websites:

http://www.irtces.org/isi/WebNews_View-en2.asp?WebNewsID=939

<http://www.savacommission.org/>



The Fourth International Conference on Estuaries and Coasts is successfully held in Hanoi, Vietnam



The Fourth International Conference on Estuaries and Coasts (ICEC-2012), organized by the Water Resources University, Hanoi, Vietnam (WRU) and sponsored by IRTCES, IAHR and IAHS, is successfully held in Hanoi, Vietnam on October 8-11, 2012. Nearly 200 participants from 15 countries and regions participated in the ICEC 2012.

At the opening ceremony, Prof. Nguyen Quang Kim, Chairman of Local Organizing Committee (LOC) and Vector of WRU, Dr. Hoang Van Thang, Deputy Minister of Agriculture and Rural Development of Vietnam, Dr. Nghiem Vu Khai, Deputy Minister of Science and Technology of Vietnam, Prof. Liu Guangquan, Deputy Director of IRTCES, and Prof. Hitoshi Tanaka, Chairman of IAHR-APD made speeches respectively. Prof. Nguyen Quang Kim said the ICEC-2012, the first of this kind in Vietnam, creates an opportunity to share valuable experiences and improve scientific research quality and raise tertiary and post graduation training quality in the field for Vietnam's universities. Prof. Liu Guangquan, on behalf of IRTCES which acts as the ICEC Permanent Secretariat, congratulated the conference opening, appraised the great efforts of WRU in conference organization, and appreciated the support from all participants all over the world.

The ICEC-2012, including 9 keynote presentations, 4 parallel sessions and one-day technical tour, lasted for 3 days. Over 100 papers has been presented and discussed, relating to Climate changes, Water resources and Hydrology, Environmental and Ecological Hydraulics, Coastal and Estuaries Hydrodynamics, Estuaries and Coastal Management, Design, Maintenance and Management of waterways on Estuaries and Harbors, Research Technologies for Estuaries Engineering, Coastal structures, and Coastal hazards. Keynote presentations are:

Historical Review of River Basin Management in Modern Japan (Prof. Nobuyuki Tamai, Former President of IAHR)

Real - time Beach Water Quality Forecast for Hong Kong (Prof. Joseph H.W. Lee, Former Vice President of IAHR and Vice-President of the Hong Kong University of Science & Technology, Hong Kong, China)

Mekong river delta: challenges and solutions in terms of climate change and sea level rise (Prof. Dao Xuan Hoc, Deputy Minister of Agriculture and Rural Development)

Tsunami disasters in coastal and estuarine environments due to the 2011 Great East Japan Earthquake (Prof. Hitoshi Tanaka, professor of the Tohoku University, Japan and Chairman of IAHR-APD)

An analysis on the movement of the tide, sediment and salinity at the Pearl River Estuary by RS technique (Prof. Deng Jiaquan, Vice President of the Pearl River Hydraulic Research Institute, China)

Stable and unstable coastal inlet cross - sectional behavior (Prof. Marcel J.F. Stive, Delft University of Technology, the Netherlands)

Physical processes and their mathematical modeling (Prof. Magnus Larson, Lund University, Sweden)

New developments in modelling of coastal hydrodynamics and morphology (Prof. Dano Roelvink, UNESCO-IHE and Delft University of Technology, the Netherlands)

Climate Change impact on the hydrological cycle, water management and engineering (Prof. Roberto Ranzi, University of Brescia, Italy)

Participants visited Dinh Vu reclamation project, Nam Trieu estuary and Dike No. 1 at Do Son in Hai Phong during a technical tour on Oct. 11.

In the closing ceremony, WRU Vector Prof. Nguyen Quang Kim made a summary speech of the ICEC-2012. IAHR-APD Secretary Prof. Wang Lianxiang introduced the 35th IAHR Congress to be held in Chengdu, China in 2013 and the 19th IAHR-APD Congress to be organized by the WRU in 2014. Prof. Liu Guangquan, on behalf of the ICEC Permanent Secretariat, expressed thanks to the LOC and the WRU for their excellent organizing work for the ICEC-2012, and announced that the 5th ICEC will be hosted by Sultan Qaboos University, Oman and looking forward to welcome all participants again in Muscat, Oman in 2015.

During the conference, a special meeting was held for discussing the 19th IAHR-APD Congress (2014, Hanoi) and future ICEC. Prof. Nguyen Quang Kim, the Chairman of the 19th IAHR-APD Congress LOC and the LOC members, IAHR-APD Chairman Prof. Hitoshi Tanaka, Former IAHR President Prof. Nobuyuki Tamai, Former IAHR Vice President Prof. Joseph HW Lee, IAHR-APD Secretary Prof. Wang Lianxiang, Delft University of Technology Prof. Marcel Stive, University of Brescia Prof. Roberto Ranzi, IRTCES Deputy Director Prof. Liu Guangquan and Deputy Division Chief Prof. Liu Cheng participated in the discussion. A meeting between Chinese delegates and faculty members of Civil

Engineering of WRU who had studied and graduated from Chinese Universities was also organized. Nearly 40 Chinese and Vietnamese experts attended the meeting for strengthen traditional Sino-Vietnamese friendship and fostering close collaboration in the near future.

Details of the ICEC-2012, Conference Proceedings and more pictures can be seen by visiting:

<http://www.irtces.org/zt/icec2012/> and

<http://www.irtces.org/isi/photo/ICEC2012/>

Keynote Speakers



Prof. Nobuyuki Tamai, Former President of IAHR / Prof. Joseph H.W. Lee, Vice President of IAHR



Prof. Dao Xuan Hoc, Deputy Minister of Agriculture and Rural Development/Prof. Hitoshi Tanaka, Chairman of IAHR-APD



Prof. Marcel J.F. Stive, Delft University of Technology/Prof. Deng Jiaquan, Vice President of the Pearl River Hydraulic Research Institute

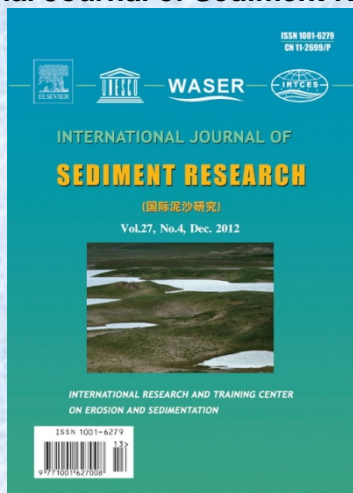


Prof. Magnus Larson, Lund University, Sweden /Prof. Dano Roelvink, UNESCO-IHE



Prof. Roberto Ranzi, University of Brescia / Technical Tour

**Papers Published in Issue 4 Volume 27, 2012,
 International Journal of Sediment Research**



Volume 27, Number 4

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Technical Papers

A two-phase model for fast geomorphic shallow flows
 Massimo GRECO, Michele IERVOLINO, Angelo LEOPARDI, and Andrea VACCA pp.409–425

Bed load transport under different streambed conditions – a field experimental study in a mountain stream
 Guo-an YU, Zhao-yin WANG, He Qing HUANG, Huai-xiang LIU, Brendon BLUE, and Kang ZHANG pp.426–438

Impact of rainfall movement on soil crust development
 Qi-hua RAN, Zhi-nan SHI, Xu-dong FU, Guang-qian WANG, and Yue-ping XU pp.439–450

Effects of silt loading on turbulence and sand transport
 Daniel G. WREN and Roger A. KUHNLE pp.451–459

A bed-load function based on kinetic theory
 De-yu ZHONG, Guang-qian WANG, and Lei ZHANG pp.460–472

Characterization of particle size and settling velocity of cohesive sediments affected by a neutral exopolymer
 Xiao-ling TAN, Guo-ping ZHANG, Hang YIN, Allen H. REED, and Yoko FURUKAWA pp.473–485

Estimation of soil erosion in the Xihanshui River Basin by using ¹³⁷Cs technique
 Yan-hong JIA, Zhao-yin WANG, Xiang-min ZHENG, and Lu-jie HAN pp.486–497

Flow and erosion at a bend in the braided Jamuna River
 Mohammad Nazim UDDIN and Md. Munsur RAHMAN pp.498–509

Three-dimensional modeling of pollutants transportation in the flow field around a spur dyke
 Li-ping CHEN, Jun-cheng JIANG, Guang-fa DENG, and Hui-fang WU pp.510–520

Mechanisms of ice accumulation in a river bend – an experimental study
 Jun WANG, Jue-yi SUI, Hong-ya ZHANG, Pang-pang CHEN, and Faye HIRSHFIELD pp.521–537

Laboratory scale study of an industrial phosphate and thermal treatment for polluted dredged sediments
 Souhila KRIBI, Jocelyn RAMAROSON, Ange NZIHOU, Patrick SHARROCK, and Guy DEPELSENAIRE pp.538–546

Technical Notes

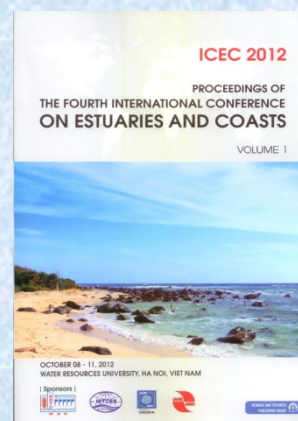
Assessment of sediment yield in a small karst catchment by using ¹³⁷Cs tracer technique
 Dong-chun YAN, Xin-bao ZHANG, An-bang WEN, Xiu-bin HE, and Yi LONG pp.547–554

List of reviewers during 2012

Cover Photo: Rising groundwater resulted in crescent lakes in desert near Maduo in Qinghai

Proceedings of the 4th International Conference on Estuaries and Coasts (Vietnam, Oct., 2012)

The Fourth International Conference on Estuaries and Coasts (ICEC-2012), organized by the Water Resources University, Hanoi, Vietnam (WRU) and sponsored by IRTCES, IAHR and IAHS, is held in Hanoi, Vietnam on October 8-11, 2012. Nearly 200 participants from 15 countries and regions participated in the ICEC 2012.



The Proceedings of the 4th International Conference on Estuaries and Coasts include papers submitted with Conference Theme “Vision and Imagination - Water in an Era of Change”, and Sub Themes of :

- Climate changes
- Water resources and Hydrology
- Environmental and Ecological Hydraulics
- Coastal and Estuaries Hydrodynamics
- Estuaries and Coastal Management
- Design, Maintenance and Management of waterways on Estuaries and Harbors
- Research Technologies for Estuaries Engineering
- Coastal structures
- Coastal hazards

The Proceedings can be downloaded at:
http://www.irtces.org/isi/WebNews_View-en2.asp?WebNewsID=940
<http://icec2012.wru.edu.vn/>

Publications in ISI Information System

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<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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Shimomisu, Yoko-oji, Fushimi-ku, Kyoto 612-8235, Japan
Tel: +81-75-611-4397 Fax: +81-75-611-4397
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The 2nd WASWAC World Conference (Thailand, May 13-18, 2013)

From 2013-05-13 to 2013-05-18

Venue: Bangkok, 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)

E-mail: waswac2@idd.mail.go.th

URL: 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

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)

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 Jonathan Laronne (Ben Gurion University of the Negev, Israel), john@bgu.ac.il Jens Turowski (WSL Birmensdorf, Switzerland), jens.turowski@wsl.ch Damia Vericat (University of Lleida, Spain), dvericat@macs.udl.cat

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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)
- Special Seminar "Challenges and Issues in Water Resources Management in Africa" in the 35th IAHR Congress (China, Sep.8-13, 2013)
- International Workshop of Acoustic and Seismic Monitoring of Bedload and Mass Movements (Switzerland, Sep. 4-7. 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)
- The 2nd WASWAC World Conference (Thailand, May 13-18, 2013)

More

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

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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 or ISI technical Secretariat at chliu@iwhr.com



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*Best Wishes for a Prosperous
and Happy New Year!*