

INTERNATIONAL SEDIMENT INITIATIVE

NEWSLETTER

Reporting ISI news to you quarterly

No. 22 Oct. 9, 2011

ORGANISATION: UNESCO

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NEWS

UNESCO Director-General appoints a new Director of the Division of Water Sciences and Secretary of IHP

Mr. Abdin Mohamed Ali Salih has been appointed by the Director-General as the Director of the Division of Water Sciences and Secretary of the International



Hydrological Programme (IHP). He will serve in this capacity until the recruitment for the Director and Secretary post is completed.

An academic with several visiting professorships and senior university appointments, Mr Salih has served in various capacities within UNESCO at Headquarters and in the field offices over the past 20 years. After serving as Regional Hydrologist for the Arab States from 1993 to 1999, he moved to headquarters as the Deputy Secretary of IHP where he served from 1999 until his appointment in 2003 as Representative and Director of the UNESCO Tehran Cluster Office. In 2007 he retired from UNESCO. During his years of service Mr Salih led the formulation of various phases of the IHP Programme and significantly contributed to the success in extending its extrabudgetary resources and activities.

Mr Salih returned to UNESCO as the Interim Director of the UNESCO Regional Office in Cairo for a short duration in 2008. Later in that year, and while representing Sudan to the 18th session of the IHP Intergovernmental Council, he was elected unanimously as Chairperson of the IHP Intergovernmental Council, representing the Arab States. As customary, he remained as ex officio member of the IHP Bureau during the 19th session of the Council and until August 2011.

Mr Salih, who currently holds a full professorship at the University of Khartoum, has a B.Sc. degree in Civil Engineering from the University of Khartoum, Sudan (1969) and a DIC and Ph.D from the Imperial College of Science and Technology, University of London, UK (1972). His fields of interest are hydrology, hydraulics, and water and land resources management under arid conditions.

The Division of Water Sciences and IHP welcome him back with open arms.

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

UNESCO Approved Evaluation Team Reviews IRTCES

UNESCO approved evaluation team carried out a formal review and evaluation on the International Research and Training Center on Erosion and Sedimentation (IRTCES) under auspices of UNESCO during September 9-16, 2011. Experts of the evaluation team are Prof. Dr. Mustafa S. Altinakar, Director of the National Center for Computational Hydroscience and Engineering (NCCHE) of the University of Mississippi, USA and Prof. Dr. Liu Heng, Director the International

Center on Small Hydro Power and Vice President of the Nanjing Hydraulic Research Institute.

Mr. Liu Zhiguang, Deputy Director General of the Department of International Cooperation, Science and Technology, Ministry of Water Resources, PR China (MWR) and Dr. R. Jayakumar, Programme Specialist of UNESCO Office Beijing visited IRTCES for guidance on the evaluation on September 13. Prof. Hu Chunhong, Deputy Director and Secretary-General of IRTCES met them and reported IRTCES' preparations for the evaluation.



Prof. Liu Heng visited IRTCES for evaluation on September 9, Prof. Hu Chunhong met him and present IRTCES' history, development and achievements and answered related questions as well as exchanged experiences for the development of international centers. Prof. Liu Heng visited IRTCES offices and facilities and reviews documents for the evaluation. Prof. Chen Jianguo, Division Chief of the Secretariat, Prof. Wang Yangui and Prof. Liu Cheng, Division Chief and Deputy Chief of Research and Training participated in the evaluation and discussion.

A meeting for the IRTCES evaluation chaired by Prof. Gao Zhanyi, Deputy Director of IRTCES, was held at the IRTCES on September 16. Prof. M. S. Altinakar attended the meeting as expert of the evaluation team, and Mr. Hao Zhao, Deputy Division Chief of Department of International Cooperation Science and Technology, MWR, Dr. R. Jayakumar and Ms. Wang Bing from UNESCO Office Beijing participated in the meeting as observers. First Prof. Gao Zhanyi expressed his welcome to the evaluation expert and officials from UNESCO and MWR. Prof. Liu Cheng briefed IRTCES and its activities and present activities in recent six years in detail, and showed documents and materials prepared for the evaluation. Prof. Tan Ying, former Deputy Director of IRTCES, Ms. Tong Yuling, former Deputy Secretary-General of IRTCES, and Prof. Wang Zhaoying, Chairman of IRTCES Advisory Council attended the meeting and answered questions. Prof. M. S. Altinakar asked questions concerning IRTCES activities, future development, sources of funding, research projects, international cooperation, trainings and many other questions, reviewed various of documents and materials. He expressed that he was very impressive on IRTCES's contribution as one of UNESCO Category II centers for its excellent work accomplished over the years and its unique and highly important role IRTCES playing both domestically and internationally in the areas of erosion and sedimentation research and training as well

as dissemination of knowledge through various publications, collaborations, etc.

IRTCES was established by Government of China and UNESCO in 1984, it is the first established water-related UNESCO Category II Center. The objective of the Centre is to strengthen research and training activities and technical co-operation to solve scientific and engineering problems in the field of erosion and sedimentation. An agreement between UNESCO and the Government of China on IRTCES was signed on 21 July 1984 and renewed on 30 November 2005. According to relevant terms of the agreement and the new Integrated Comprehensive Strategy for Category 2 Institutes and Centres (document 35C/22) approved by the 35th Session of the UNESCO, it is necessary to carry out a formal review and evaluation before the UNESCO Director-General can renew the existing agreement.



Prof. Mustafa S. Altınakar and Prof. Liu Heng, experts of the evaluation team

IRTCES Hosts International Advanced Training Workshop on Water and Soil Conservation

The opening ceremony of the International Advanced Training Workshop on Water and Soil Conservation was held today (Sept. 13) at International Research and Training Center on Erosion and



Sedimentation under the auspices of UNESCO (IRTCES) in Beijing, China. Around thirty participants, from 12 countries mostly from the developing world, will be trained on issues from basic concepts on water and soil conservation and to practical knowledge on sustainable sediment management by top experts in the field.

Water plays a crucial role in achieving Millennium Development Goals. Whether in action to combat hunger and poverty or to promote education for all and gender equality, water is of the essence. The management of sediment in river basins has been an important issue for water managers throughout history. As one of the associated programmes of UNESCO- International Hydrological Programme (IHP), the International Sediment Initiative (ISI) is a global initiative to assess erosion and sediment transport to marine, lake or reservoir environments, with its Technical Secretariat jointly managed by IRTCES, the first ever water-related center under the auspices of UNESCO and UNESCO Beijing Office. The Training Workshop is one of the major activities of ISI of UNESCO for 2010-2011.

Sponsored by ISI- IHP-UNESCO and the Ministry of Water Resources, China, the Training Workshop hopes to

serve as a good opportunity for participants to share the knowledge but also be a platform to bring together ideas and information from various countries and regions.

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

Joint development of a practical sediment management training course by UNESCO ISI and SedNet

There are no examples yet of the fully fledged integration of sediment management into Integrated Water Resources Management (IWRM, see: www.gwp.org). This was a key driver of the initiation of ISI (www.irtces.org/isi) as well as SedNet (www.sednet.org).

The International Sediment Initiative (ISI) was launched by UNESCO's International Hydrological Programme (IHP). ISI promotes sustainable sediment management at the global scale in an effort to contribute to sustainable water resources management. The initiative assesses erosion and sediment transport by rivers to lakes, reservoirs and marine environments, aimed at the creation of a holistic approach for the remediation and conservation of surface waters. ISI aims to develop a decision support framework for sediment management, in order to provide guidance on legislative and institutional solutions, applicable to various socio-economic and physiographic settings, in the context of global changes.

SedNet is a leading European network aimed at incorporating sediment issues and knowledge into relevant European and national policies, in order to support the achievement of good environmental status and to develop and facilitate the implementation of new tools for sediment management. SedNet brings together sediment professionals from science, administration, management, NGOs, consultancy and industry.

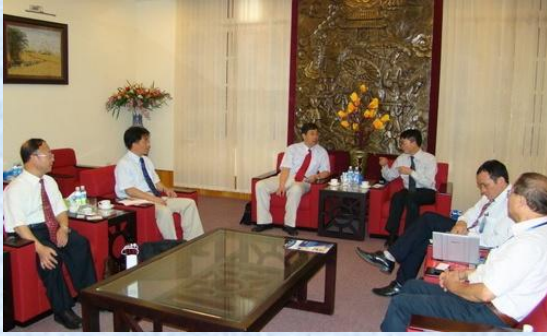
ISI and SedNet are convinced that a dedicated, practical training course on sustainable sediment management will be an important tool for promoting the further integration of sediment into IWRM. ISI and SedNet – each with their own perfectly complementary perspectives and areas of interest – can bring together the state-of-art in scientific as well as practical knowledge on sustainable sediment management. ISI and SedNet now offer to make that knowledge available for the joint development of such a training course.

A delegation of ISI and of SedNet will meet on 18 and 19 August in Paris at UNESCO HQ to bring this idea to a next level. In the Paris meeting, the delegates will, amongst others, discuss, digest and then propose the potential topics to be addressed in the course and will agree upon a proposed outline for the course. Furthermore, the delegates will refine a roadmap for the development and testing of the training course and will discuss funding possibilities.

Anil Mishra (a.mishra@unesco.org) on behalf of UNESCO ISI, and Jos Brils (jos.brils@deltares.nl) on behalf of SedNet, will keep you informed on the further development of this joint initiative.

(Source: SedNet, www.sednet.org)

An IRTCES delegation visits Water Resources University, Vietnam for preparing the 4th International Conference on Estuaries and Coasts



On September 22, 2011, a delegation of the International Research and Training Center on Erosion and Sedimentation (IRTCES) led by Prof. Hu Chunhong, IRTCES Deputy Director and Secretary-General, visited the Water Resources University, Vietnam (WRU) for preparing the 4th International Conference on Estuaries and Coasts (ICEC2012) to be held on October 8-11, 2012 in Hanoi, Vietnam. Prof. Chen Jianguo and Prof. Liu Cheng, IRTCES division chief and deputy division chief participated in the visit.

Prof. Nguyen Quang Kim, WRU Rector, welcomed the IRTCES delegation and had a friendly meeting with participants of Dr. Nguyen Trung Viet, Head of Department of Academic Affairs, and Associate Prof. Vu Minh Cat, Dean of Faculty of Marine and Coastal Engineering. Prof. Hu Chunhong expressed appreciation to the WRU for the warm reception, briefed the IRTCES and the ICEC, reviewed friendly communication with WRU, and discussed specific issues of the ICEC2012 preparation and made some suggestions on the conference organization. Prof. Nguyen Quang Kim introduced the history and development of the University, and invited Dr. Nguyen Trung Viet to present the progress of the ICEC2012 preparation and plans for the conference organization.

After the meeting, the IRTCES delegation visited places of registration, conference hall for plenary sessions, meeting rooms for parallel sessions, and room for post sessions accompanied by Prof. Nguyen Quang Kim and his colleagues. Specific layout and arrangement for the conference were discussed.

The ICEC is a series of international conferences sponsored by the IRTCES, and three ICECs have been successfully organized China's Hangzhou and Guangzhou and Sendai, Japan in 2003, 2006 and 2009 respectively. The 4th conference ICEC2012 will be hosted by WRU on October 8-11, 2012 in Hanoi, Vietnam.

An IRTCES delegation visits Universiti Teknologi MARA, Malaysia



A delegation of the International Research and Training Center on Erosion and Sedimentation (IRTCES)

led by Prof. Hu Chunhong, IRTCES Deputy Director and Secretary-General, visited the Universiti Teknologi MARA, Malaysia (UiTM) and its International Research Centre on Disaster Prevention (IRCDIP) on September 22, 2011. Prof. Chen Jianguo and Prof. Liu Cheng, IRTCES division chief and deputy division chief participated in the visit. The UiTM is Malaysia's premier institution of higher learning that established in 1956. IRTECS and UiTM have established collaborative partnership since they signed a MoU between two parties in March, 2008.

The IRTCES delegation was welcomed by the Faculty of Civil Engineering, UiTM, and a meeting was held with participants of Dr. Ahamad Ruslan Mohd Ridzuan, Director of the Institute for Infrastructure Engineering and Sustainable Management (IIESM), Dr. Mohd Jamaludin Md. Noor, Head of the International Research Center on Disaster Prevention (IRCDIP), and other staff. Prof. Hu Chunhong expressed his appreciation to UiTM for the warm reception, briefed IRTCES and its main activities, reviewed friendly communication with UiTM, and proposed to continue strengthening communication and cooperation between both sides. Dr. Ruslan introduced the Faculty of Civil Engineering, IIESM and IRCDIP, and proposed to start research collaboration with IRTCES, which marks a new chapter in bilateral international cooperation.

After the meeting, a seminar was held at the Al-Jazari Hall with over 30 IIESM participants. First Dr. Ruslan made a welcome address, and then Dr. Mohd Fadhil Arshad delivered a presentation on introduction of the IIESM and IRCDIP, and Dr. Ruslan made a presentation on landslide prediction and control measures. Prof. Liu Cheng gave presentation on introduction of IRTCES and its activities, and presentation on recent changes of runoff and sediment loads of the Yangtze River.

The IRTCES delegation also visited Faculty of Civil Engineering, and Geotechnical and Soil Laboratory accompanied by Dr. Jamaludin and others.

Inauguration of the International Centre on Space Technologies for Natural and Cultural Heritage, a Centre under the auspices of UNESCO



International Centre on Space Technologies for Natural and Cultural Heritage under the auspices of UNESCO officially opened by Prof. Gretchen Kalonji, Assistant Director General of Natural Sciences UNESCO jointly with Prof. Ding Zhongli, Vice President of Chinese Academy of Sciences in presence of officials from various Ministries with Government of China and international experts.

The newly created International Centre is located at the premises Centre for Earth Observation and Digital Earth (CEODE). This International Centre on Space Technologies for Natural and Cultural Heritage (HIST) will

be assisting UNESCO with the use of space technologies in monitoring, documentation and conservation of the famous World Heritage sites (both natural and Cultural).

Our heritage is in danger by human activities, climate change, natural disasters, etc. the new centre will play a key role in using space technologies for monitoring the changes. Without question space technologies are an extremely valuable tool to assist in the management of heritage sites. Satellites have been flying over the earth for the last 40 years continuously taken images. Therefore we do have 40 years of a tremendous digital archive of satellite images. This information is extremely valuable in order to understand how the threats to our cultural and natural heritage are evolving and how to stop these threats on-time before it is too late.

Prof. Gretchen Kalonji quoted that "the outstanding expertise of CEODE, put at the service of us at UNESCO is a tremendous scientific and technological contribution for UNESCO and we largely appreciate the fruitful partnership that UNESCO has with the Chinese Academy of Sciences, today being significantly strengthened through the opening of a dedicated space technology center".

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

Abdin Mohamed Ali Salih

Abdin Mohd Ali Salih holds a B.Sc. degree with Highest Honours in Civil Engineering from the University of Khartoum, Sudan (1969) and a D.I.C. and Ph.D from the Imperial College of Science and Technology, University of London (U.K.), 1972. His fields of interest are hydrology (including groundwater), hydraulics, and water and land resources management under arid conditions. He served the University of Khartoum up to 1993 where he achieved full professorship in 1982. He also served as the Deputy Vice Chancellor of the University (1990-1991).

Between 1973 and 1993, Mr Salih served as visiting professor at several universities in the USA, Europe, and Middle East where he conducted scientific research. This included a six-month stay at the University of Padova (Italy) in 1974 doing research on Fast Water Flows; one year (1978-1979) at Colorado State University as a member of the late Professor Yevjevich research team working on a Spanish/American project on the Conjunctive Use of Surface and Groundwater; a five years (1980-1985) tenure at King Saud University in Riyadh, where he supervised the establishment of post-graduate studies in Water Resources Engineering and served as advisor to many large national water and environmental research projects; two months visiting professorship (1986) at Imperial College advancing his research in Water Resources Management Under Arid Conditions and providing lectures to the M.Sc. students in hydrology. For many years, Mr Salih taught an annual postgraduate course at the Jaroslav Černi Institute of Water Resources (ex-Yugoslavia). His academic appointment also included serving as scientific and professional advisor to several national, regional and international consulting firms, NGOs, IGOs and UN agencies, including UNESCO, WMO, UN-ESCWA, WB, ACSAD, ALECSO, Euroconsult, amongst many, and as external examiner to many universities in Africa including the University of Dar Es Salam, Tanzania and in the Middle East; serving as a member of UNESCO's Advisory Board of the Great Man-Made River of Libya (1990 to date); and leading a multidisciplinary team in 1986-1990 to study and solve the engineering and

environmental problems related to the rising groundwater beneath the city of Riyadh (Saudi Arabia).

In addition to teaching, academic development and senior administration in universities, Mr Salih is actively involved in many interdisciplinary research projects, supervision and examination of postgraduate theses, and review of research projects submitted to national research councils. He published over 90 papers and chapters of books in various journals and proceedings of refereed conferences and prepared over 50 technical reports. He served on the editorial board of many national and international journals.

Mr Salih is a fellow of the Third World Academy of Sciences (TWAS) and the African Academy of Sciences; was for decades a chartered engineer and member of the British Institution of Civil Engineers; a member of the International Association for Hydraulic Engineering and Research (IAHR) and served on its Nomination Committee; the founder of the African division of the IAHR and served as its first President; a fellow of the International Water Resources Association (IWRA); a member of the International Association for Hydrological Sciences (IAHS); a fellow of the Sudan Engineering Society and served as its President and Secretary General at various periods.

He led many professional and technical projects in Africa and the Middle East, including an over US\$50 million interdisciplinary project on the study and resolution of the problems related to the rising groundwater beneath the city of Riyadh, Saudi Arabia (1986-1990).

In 1993, Mr Salih joined UNESCO as the Regional Hydrologist for the Arab States. During his tenure (1993-1999), he spearheaded the establishment of active networks in the areas of Wadi Hydrology, Groundwater Protection, FRIEND/Nile, and the ArabMAB Network. His accomplishments led to considerable visibility and remarkable respectability to UNESCO's International Hydrological Programme (IHP) and to its Man and the Biosphere (MAB) programme in the region.

In June 1999, Mr Salih joined UNESCO Headquarters in Paris, where he served as the Deputy Secretary of IHP until 2003. In this capacity, he participated in the shaping of the Sixth Phase of IHP (IHP-VI, 2002-2007) and contributed to many new initiatives, including the UN World Water Assessment Programme (WWAP), the establishment of the UNESCO-IHE Institute for Water Education in Delft as a UNESCO category 1 institute, and the establishment of regional water-related centres in Cairo, Tehran and Chili, under the auspices of UNESCO. He has also been instrumental in securing extrabudgetary contributions to IHP, particularly the over US\$10 million from the Flanders Fund in Trust Support to projects within the FRIEND/Nile, Palestinian Territories, South Africa and Chili.

Between 2003 and 2007, Mr Salih served as Representative and Director of the UNESCO Tehran Cluster Office, which covers Afghanistan, Iran, Pakistan and Turkmenistan. Under his leadership, considerable achievements were made in the areas of education, science and culture. These included establishing, from scratch, an active sub-regional office that performs UNESCO's mandates in its fields of competence (education, science, culture and communication); establishing two regional/international water centres in Iran and the initiation of the process to found a third regional water centre in Pakistan; the launching of a very active Asian branch of the G-WADI with membership of 12 countries, and access to many pilot G-WADI schemes.

Since retirement from UNESCO in July 2007, Mr Salih has been serving as a Professor and an international freelance consultant. He was called to serve as the Interim Director of the UNESCO Regional Office for Science and Technology, based in Cairo, Egypt, for the period 15 March to 31 May 2008.

On June 2008, Mr Salih, then the representative of Sudan to the 18th session of the Intergovernmental Council of the International Hydrological Programme (IHP), was elected unanimously as the Chairperson of the Intergovernmental Council of IHP. He served at this capacity until 2010 and from then as an ex-officio member of the IHP Bureau until August 2011. He was a member of the UN-Water Decade Programme on Capacity Development (UNW-DPC) based in Bonn, Germany under the umbrella of the United Nations University (UNU). He was also elected as member of the Governing Board of the UNESCO-IHE Institute for Water Education in Delft, Netherlands from June 2011 to June 2015. Effective 4 September 2011, Mr Salih has been appointed as Director of the Division of Water Sciences, and Secretary of the International Hydrological Programme (IHP) of UNESCO. He will serve in this capacity until recruitment of a new Director and Secretary.

More News in ISI Website

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- UNESCO Director-General appoints a new Director of the Division of Water Sciences and Secretary of IHP

- China to reevaluate, revise environmental quality standards in next five years
- Corps issues guidance for sediment evaluation (USA)
- UNESCO Approved Evaluation Team Reviews IRTCES
- IRTCES Hosts International Advanced Training Workshop on Water and Soil Conservation
- China develops plan to tackle soil erosion
- UNESCO IHP holds an International Symposium on Modular Curriculum Development for Postgraduate and Technical Education in IWRM
- UNESCO Launches a Comprehensive Project to Strengthen Flood Forecasting and Management Capacity in Pakistan
- UNESCO-IHP and IAHS organize Symposium on "Water Quality: Current Trends and Expected Climate Change Impacts"
- Abstract Submission Deadline for the 4th Intl. Conf. on Estuaries and Coasts (Vietnam, Oct.8-11, 2012): Aug. 15, 2011
- Sediment collector rolls out on Friday (USA)
- Inauguration of the International Centre on Space Technologies for Natural and Cultural Heritage, a Centre under the auspices of UNESCO
- 7th SedNet conference 6-9 April 2011, a big success
- Joint development of a practical sediment management training course by UNESCO ISI and SedNet
- ISI Fact Sheets: River Basin Case Study Reports
- At least 6 killed in S. Philippine city landslide
- Torrential rains kill 16 in Mexico
- Landslides cut off major road to SW China county
- Minister Chen visited US EPA, USACE and Department of the Army (China)

More

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

CONFERENCE REPORT

The 7th IAHR Symposium on River, Coastal and Estuarine Morphodynamics



The 7th IAHR Symposium on River, Coastal and Estuarine Morphodynamics was held in Beijing, China from September 6 to 9, 2011, on the campus of Tsinghua University.

The IAHR RCEM Symposia were sponsored by the IAHR Subcommittee on River, Coastal and Estuarine Morphological processes (RCEM) and were held every two years since 1999, with the first six held in Genova, Italy; Obihiro, Hokkaido, Japan; Barcelona, Spain; UIUC, Illinois, USA; Enschede, the Netherlands; and Santa Fe

City, Argentina, respectively. The RCEM Symposia cover a broad range of topics relating to the physical, environmental and ecological aspects of morphological processes in rivers, estuaries, deltas and coastal areas, and bring together researchers focused on fundamental laboratory-scale experimentation and mathematical modeling with geologists, hydrologists, and engineers working on field investigations, river regulation works, and coastal & port developments.

This year, the RCEM2011 symposium was jointly hosted by Tsinghua University and the International Research and Training Centre on Erosion and Sedimentation (IRTCES) in Beijing, China. Prof. Si Yuan, vice-president of Tsinghua University, Prof. Marcelo Garcia, Chairman of the IAHR Subcommittee on River, Coastal and Estuarine Morphological processes, Prof. Shangfu Kuang, director of the IRTCES, Prof. Joseph H. W. Lee, vice-president of the Hong Kong University of Science and Technology and Dr. R. Jayakumar from the Beijing Office of UNESCO made speeches at the opening ceremony.

The RCEM2011 symposium topics include: a) Processes; b) Field investigations, experiments, and simulations; c) Man-nature interaction; and d) Focuses.

The conference theme was "Impacts of Hydro-projects on River, Coastal and Estuarine Processes".

In total 318 abstracts were submitted to the RCEM2011 symposium, which were reviewed by the International Scientific Committee of RCEM2011, and 261 were considered to be aligned with the conference topics. Subsequently, 217 full papers were submitted.

Roughly, 240 researchers and scientists from 29 countries and regions attended the meeting. From September 6 to 8, in addition to the plenary sessions, four parallel sessions were held simultaneously each day. Four keynote lectures were delivered in plenary sessions and 12 invited lectures were presented in parallel sessions. More than 200 contributed lectures were presented by delegates at 36 parallel sessions. The keynote lectures were entitled "The role of washload in setting the hydraulic geometry of meandering alluvial rivers" by Prof. Gary Parker from the University of Illinois at Urbana-Champaign, "Effects of bed sediment structures on bed load motion and fluvial processes" by Prof. Zhaoyin Wang from Tsinghua University at Beijing, China, "Rivers, shelves & trenches - Deciphering earth's portfolio of extreme sediment transport events" by Dr. Oliver Korup from Potsdam University, Germany, and "Uniformity and river health" by Prof. Ellen Wohl from Colorado State University. A full abstract book and a DVD-ROM containing the submitted full papers of RCEM2011 were distributed to the attendees.

This symposium included a pre-conference short course, "Modeling of River Migration at Multiple Scales", delivered by renowned specialists, held on the campus of Tsinghua University from September 3 to 5. This short course provided comprehensive training on various aspects of modeling of river meandering and streambank erosion across multiple spatial and temporal scales, and was joined by about 30 graduate students, young researchers and scientists. It also offered a unique opportunity for the participants to interact with senior scientists and meet peers.

The RCEM2011 symposium also introduced a special workshop on the eco-geodynamics of the San-jiang-yuan region (the source area of Yangtze, Yellow and Mekong rivers). Results were reported in 18 presentations concerning environmental protection and restoration of this area as well as theoretical and field works on biodiversity management and rehabilitation practices.

The RCEM2011 symposium offered two technical trips on September 9 to visit either the Juma River in the suburb of Beijing, where field studies were conducted on the effect of streambed sediment on benthic ecology, or the Port of Tianjin and several new piers, where marine land reclamation works have claimed a total area of 160 km² from the Bohai bay of China.

(By Prof. Xuejun Shao, Prof. Zhaoyin Wang and Dr. Wenjing (Erica) Shi, Tsinghua University, Beijing, China. shaoxj@tsinghua.edu.cn)

UNESCO IHP holds an International Symposium on Modular Curriculum Development for Postgraduate and

Technical Education in Integrated Water Resources Management

An international seminar on "Modular Curriculum Development for Technical Education in Integrated Water Resources Management" held at National Water Resources Institute (NWRI) in Kaduna, Nigeria from 28-30 June 2011. NWRI is hosting the new Regional Centre for Integrated River Basin Management (RC-IRBM), which has been endorsed by the UNESCO Executive Board to the General Conference to become a category-II centre under the auspices of UNESCO. The participants from a number of African nations (Ethiopia, Nigeria, Senegal and Sudan) recommended accelerated actions towards education for sustainable development for the implementation of integrated water resources management at the river basin level. They called for leadership from lending institutions, national governments, private sector and river basin managers to substantially increase investment and facilitate real-world demonstration and implementation of water education at the tertiary and vocational levels to manage hydrological extremes (floods and droughts) as well as to provide access to safe drinking water and sanitation to communities in Africa.

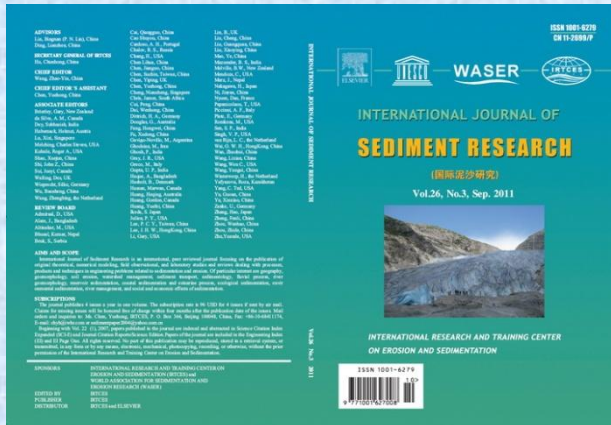
The seminar stressed that a substantial increase in investment in water education at the vocational and tertiary levels is critical, given the realities of: (1) increasing evidence of climate change and associated hydrohazards; (2) increasing demand for water infrastructure development associated with population growth and changing consumption patterns.

These workshop conclusions were based on many case studies, each enabled by leadership from national training institutes, universities, key investors or implementing agencies. A number of these case studies were presented and reviewed during the international seminar. These case studies show that curricula (e.g. national diplomas, higher national diplomas and certificates in engineering as well as new courses in water production, plumbing, water transport and maintenance) developed by NWRI needs to be fully supported to develop critical capacity in managing water resources. Such courses need to be augmented with entrepreneur skills, ICTs and GIS technologies. Such training programs need to clearly demonstrate competence relevant to work to facilitate entry into and progression in employment and continuing/further education and training offered by a recognized body. Competence based training courses must specify the standard of performance in skills, knowledge and understanding along with capability to perform in a number of job related activities in harmonization with National Vocational Quality Frameworks such as the recent work of the Nigerian National Board for Technical Education.

The participants proposed much greater international, national and private sector investments in multilevel capacity building. In this regard the new UNESCO Regional Centre on Integrated River Basin Management (RC IRBM) based at Kaduna can lead modular course development for capacity building in integrated water resources management.

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

**Papers Published in Issue 3 Volume 26, 2011,
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Technical Papers

Macroinvertebrates in the bed sediment of the Yellow River
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Investigation of Turbulence characteristics in channel with dense vegetation
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Effects of hydraulic structures on river morphological processes
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The effects of hydrodynamic conditions on geotechnical strength of the sediment in Yellow River Delta
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Numerical simulation of wave scouring beneath marine pipeline using smoothed particle hydrodynamics
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Textural characteristics of foreshore sediments along Karnataka shoreline, west coast of India
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Technical Notes

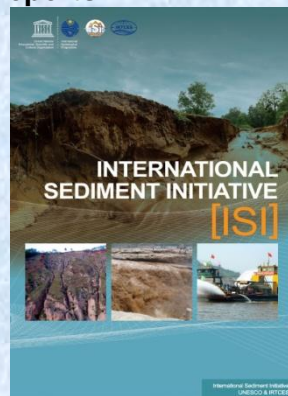
Old and new concepts based on coherent structures for understanding sediment transport
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Effects of grass and shrub cover on the critical unit stream power in overland flow
XIAO Peiqing, YAO Wenyi, and M. J. M. Römkens

A cost-benefit analysis for the implementation of riparian buffer strips in the Shihmen reservoir watershed
Chia-Ling Chang, Ying-Sung Hsu, Bing-Jean Lee, Chuan-Yi Wang, and Li-Jung Weng

Cover Photo: The Nigardsbreen glacier in Norway

ISI Fact Sheets: River Basin Case Study Reports



The *International Sediment Initiative* (ISI) is expected to add a new dimension to ongoing efforts aiming at sustainable sediment management, in the context of sustainable water resources development at the global scale.

The overall objective of the International Sediment Initiative is to promote and interact with activities that will result in:

- Increased awareness of erosion and sedimentation issues;
- Improved and sustainable management of soil and sediment resources;
- Better advice for policy development and implementation.

The Case Studies presented in this series are designed to increase awareness of sediment issues, sediment transport processes and management options at the global scale.

http://www.irtces.org/isi/WebNews_View-en2.asp?WebNewsID=733

Publications in ISI Information System

- Water History of our Times republished (UNESCO)
- Recent advances and future directions in soils and sediments research (Owen & Xu)
- ISI Fact Sheets: River Basin Case Study Reports
- Publications from UNESCO's International Hydrological Programme (IHP)
- Transboundary Aquifers in Asia: a Preliminary Inventory and Assessment (UNESCO)
- Featured Publication: The Impact of Global Change on Water Resources: The Response of UNESCO's International Hydrological Programme (UNESCO)

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/>

Contacts:

Assoc. Prof. Dr. Nguyen Trung Viet

Head of Department of Academic Affairs, WRU

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MSc. Pham Hong Nga

Head of International Cooperation Office, WRU

Email: icec2012@wru.edu.vn ; icec2012@wru.vn

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 great demand on revision and 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 & sediment management methods in Japan. As the place resulted in the famous Kyoto Protocol to the UN Framework Convention on Climate Change, the 12th ISRS in Kyoto will become an event of special meaning. Kyoto University, as one of the leading power in research & education on sediment hydraulics, erosion control engineering, river morphology, etc., owns a lot of reputed scholars, intelligent students, excellent environment and advanced facilities. The city and the university are ready to welcome participants from all over the world!

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

Co-Sponsors: IRTCES, WASER, UNESCO, International Sediment Initiative (ISI), IAHR, Japan Society of Civil Engineers, Japan Society of Erosion Control Engineering, Japan Society for Natural Disaster Science, Japan Society of Dam Engineers, Ecology and Civi Engineering Society, Japan River...

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

E-mail: isrs2013@uh31.dpri.kyoto-u.ac.jp

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 heartily 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 long history, fast advancing development, unique culture as well as delicious food. It will give every delegate a life-time 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 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/>

APAC2011 - The 6th International Conference on Asian and Pacific Coasts (Hong Kong, Dec. 14-16, 2011)

Date: Dec. 14-16, 2011

Venue : Hong Kong, China

Summary: Hong Kong, widely celebrated as Asia's world city, is increasingly integrated with the Pearl River Delta Region of China. Sustainability of Hong Kong depends on coastal developments that require engineering solutions. The issues of concern include coastal reclamation, offshore wind farms, coastal water quality, Hong Kong-Zhuhai-Macau Bridge, and other coastal infrastructure projects. This international conference hosted by The University of Hong Kong will be a platform for engineers and researchers to keep abreast of the current scientific and technological advancements in coastal, port, ocean engineering, and other related fields. The University of Hong Kong is organising the 6th International Conference on Asian and Pacific Coasts in December 2011, which will be a platform for engineers and researchers to keep abreast of the current scientific and technological advancements in coastal, port, ocean engineering, and other related fields.

Organizer: University of Hong Kong

Themes: The scope of the conference will be broad, covering all issues related to coastal, harbour, and ocean engineering. Specific themes include, but are not limited to:

- Beach erosion and sediment transport
- Climate change and sea level rise
- Coastal infrastructure developments
- Hydrodynamics of offshore structures
- Lowland development and reclamation

- Marine ecology and environments
- Marine and offshore wind energy
- Oil spill and environmental hazards
- Port works (dredging, seawall design, etc.)
- Sea water intrusion
- Tsunami, waves and tides
- Wastewater disposal
- Wetlands

URL: <http://www.civil.hku.hk/apac2011/>

Contacts:

Email: apac2011@hku.hk

By post:

APAC 2011 Secretariat
c/o Miss L. Hung
Department of Civil Engineering
Haking Wong Building
The University of Hong Kong
Pokfulam Road
Hong Kong
Fax: +852 2559-5337

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:

- Dynamics 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

URL:

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 right of the river's demand and healthy river basin maintenance will take place on October 16~19, 2012 in China. We are very pleased to present this invitation for you. The forum will focus on hot spots of water issues about the integrated water resources and river basin management. Facing the deteriorating ecological and living environment, taking into account demands of both rivers and human beings, to ensure water right of the river's demand is to protect the ecosystem and sustainable

development of rivers and provide positive support for living and development of human beings.

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; ijrf@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

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

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

More Coming Events in ISI Website

- 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)
- International Conference on Traditional Knowledge for Water Resources Management (Iran, Feb. 21-23, 2012)
- APAC2011 - The 6th International Conference on Asian and Pacific Coasts (Hong Kong, Dec. 14-16, 2011)
- IHP Symposium on Extreme Events: "Meteorological, Hydrological and Tsunami Disasters: Social Adaptation and Future"(Japan, Oct. 24-28, 2011)

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.spreadico@hispeed.ch or ISI technical Secretariat at chliu@iwhr.com



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