









INTERNATIONAL SEDIMENT INITIATIVE

NEWSLETTER

Reporting ISI news to you quarterly

No. 9 June 26, 2008

ORGANISATION: UNESCO

Szöllösi-Nagy, Andràs UNESCO, Paris Jayakumar, Ramasami UNESCO, Beijing Mishra, Anil UNESCO, Paris

ISI URL: http://www.irtces.org/isi/

ISI STEERING COMMITTEE

Chairman: Spreafico, Manfred Switzerland

Members:

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

ISI TECHNICAL SECRETARIAT

IRTCES under auspices of UNESCO P.O. Box 366, 20 Chegongzhuang West Rd. Beijing, 100044, China Fax: +86-10-68411174

Secretary-General:

http://www.irtces.org/

Hu, Chunhong China

Advisor:

Jayakumar, R. UNESCO, Beijing

Contact

Liu, Cheng China

IN THIS ISSUE

News

\diamond	Dr. András Szöllösi-Nagy, Deputy Assistant	Director
	General of LINESCO visited IRTCES	1

- ♦ The 18th session of the Intergovernmental Council of the IHP held in Paris on 9 – 13 June 2008
- ❖ International Journal of Sediment Research added to Web of Science
- ♦ ISI Ad Hoc meeting was held in Bern on April 29, 2008
 2
- ♦ Chinese delegation visited University of Padova for academic communication 2
- Pictures of rockfall, landslide and quake lake in Wenchuan earthquake area, China
- ♦ More News in ISI Website 3

Conference Report

- ❖ International Workshop Erosion, Transport and Deposition of Sediments was held in Berne, Switzerland, April 28-30, 2008
- ◆ 2nd Regional Meeting of the Asia-Pacific Water Forum's Network of Regional Water Knowledge Hubs (April 2-4, 2008, Singapore)
 3
- ♦ 24th Conference of the Danube Countries on Hydrological Forecasting and Hydrological Bases of Water Management - Bled, Slovenia, 2.-4.6.2008 4
- ♦ Dr. András Šzöllösi-Nagy, Deputy Assistant Director General of UNESCO, delivered a presentation on climate change in MWR, China
 5

Publication

- ♦ Papers Published in Issue 2, Volume 21, 2008, International Journal of Sediment Research
 6
- ♦ Publications in ISI Information System 6

Coming Events

- → 3rd International Conference on Estuaries&Coasts 7
- ♦ Workshop on 'Sediment problems and sediment management in Asian river basins'
- ♦ International Water Resources and Hydropower Forum
 7
- → 33rd IAHR Congress→ International Conference on Fluvial Hydraulics8
- 8th International Conference on Hydro-Science and Engineering (ICHE-2008)
- ❖ International Symposium on 'Sediment dynamics in changing environments'
- ❖ International Conference on Hydrology and Climate Change in the Mountainous Areas
- International Symposium on Sediment Management
 - More Coming Events in ISI Website 10

NEWS

Dr. András Szöllösi-Nagy, Deputy Assistant Director General of UNESCO, visited IRTCES



Dr. András Szöllösi-Nagy, Deputy Assistant Director General of UNESCO, Secretary of the IHP and Director of Division of Water Sciences visited the International Research and Training Center on Erosion and Sedimentation (IRTCES) under auspices of UNESCO in the morning of May 28, 2008, accompanied by Dr. Ramasamy Jayakumar, Programme Specialist for Science, Technology and Environment UNESCO Office Beijing, Ms. TENG Yue, Programme Assistant, UNESCO Office Beijing, Dr. HUANG Yan and Ms. XIONG Shanshan, representatives of the Chinese National Committee for IHP. The experts, officials and staff of IRTCES welcomed the group's visit and guidance. A discussion meeting chaired by Prof. HU Chunhong, Secretary General and Deputy Director of IRTCES, was organized. Prof. DAI Dingzhong and Prof. TAN Ying, advisors of IRTCES, Prof. WANG Zhao-Yin, Chairman of IRTCES Advisory Council, and other officials and staff participated in the meeting.

In Prof. HU Chunhong's speech, he on behalf of IRTCES extended his warm welcomes to Dr. Szöllösi-Nagy and the group and sincerely thanks to UNESCO for its strong support to IRTCES. Since its establishment in 1984, IRTCES has conducted many bilateral and multilateral collaborative researches and trainings, under the guidance of UNESCO and Ministry of Water Resources, P. R. China, and with the support worldwide. IRTCES has implemented over 100 research projects and consulting programs, organized over 40 training courses, sponsored and co-sponsored over 90 symposia and workshops and arranged more than 130 technical visits outside of China. IRTCES serves as the Technical Secretariat of UNESCO International Sediment Initiative (ISI), Secretariat of World Association for Sedimentation and Erosion Research (WASER), and the permanent Secretariat of the International Symposia on River Sedimentation, and publishes the International Journal of Sediment Research and the Gazette of Chinese River Sediment, as well as manages Qian Ning Memorial Prize for Erosion and Sedimentation. Prof. Hu said, "I hope your visit will further the close cooperation between IRTCES and UNESO, so that IRTCES may make more contribution to IHP and to international sediment research and cooperation, and sustainable water resources development in the world." In Prof. Hu's speech, he also proposed to develop an International Networks on Erosion and Sedimentation (INES) with extensive information of science and technology.

Dr. LIU Cheng, Deputy Division Chief of IRTCES, delivered a PPT presentation reporting the general situation and development of IRTCES, activities undertaken within the framework of IHP, Technical Secretariat of ISI, and the establishment and development of WASER, as well as the recent two years' plans and proposals within the framework of IHP. The goals, objectives and proposed activities of the establishment of INES were described in detail.

Dr. Szöllösi-Nagy listened the presentation carefully and made an important speech. He said his first visit to IRTCES was 18 years ago when he attended the inauguration of IRTCES' new building, he is very glad to witness the tremendous changes happened in IRTCES. Dr. Szöllösi-Nagy highly appreciated the support to the UNESCO-IHP from the government of China and acknowledged the contributions to IHP and ISI from IRTCES. In his speech, Dr. Szöllösi-Nagy introduced four major pillars represent the current UNESCO water activities: (1) The International Hydrological Programme (IHP), (2) The UNESCO-IHE Institute for Water Education, (3) The UN World Water Assessment Programme (UN WWAP), and (4) The UNESCO water-related Category II centers. As the first established UNESCO water-related Category II center, IRTCES has been playing leading role in the field of international sediment research and making significant contributions to the IHP. The successful practices of IRTCES over two decades also set an example for other newly established Category II Centers. Dr. Szöllösi-Nagy said establishing INES is a good proposal, and he suggested the proposal be present in the upcoming UNESCO IHP Intergovernmental Council Meeting by Chinese delegation for support from other member countries.

After the discussion, Dr. Szöllösi-Nagy visited IRTCES' meeting rooms, Qian Ning memorial room, internet server room, office rooms, guest house and library. (LIU Cheng, IRTCES)



The 18th session of the Intergovernmental Council of the IHP held in Paris on 9 – 13 June 2008

The 18th session of the Intergovernmental Council of the International Hydrological Programme (IHP) was held at UNESCO Headquarters in Paris from 9 to 13 June 2008. Mr. Benedito Braga, Chairperson of the Intergovernmental Council, opened the session. Delegates from the thirty-six Member States that are members of the IHP Intergovernmental Council attended the session. Thirty-seven delegations from Member States that are not members of the Council, fourteen governmental and non-governmental organizations and three UN organizations were represented as observers.

For details please visit website: http://www.unesco.org/water/ihp/council/18th/.

International Journal of Sediment Research added to Web of Science

The Scientific business of Thomson Reuters announced on May 27, 2008 that 700 new regional journals have been added to Web of Science. The newly identified collection contains journals that typically target a regional rather than international audience by approaching subjects from a local perspective or focusing on particular topics of regional interest. For more than two years, Thomson Reuters has reviewed thousands of regional journals in all areas of science, social science and arts and humanities. Although selection criteria for a regional journal are fundamentally the same as for an international journal, the importance of the regional journal is measured in terms of the specificity of its content rather than in its citation impact.

International Journal of Sediment Research (IJSR) is one of the journals that have been added to Web of Science. IJSR is an international scientific journal published by the International Research and Training Centre on Erosion and sedimentation (IRTCES). The Journal was inaugurated in 1986 and has been publishing sediment-related studies with emphasis on engineering sedimentation problems. It is devoted exclusively to the reporting of progresses in the mechanics of sediment transport and fluvial processes and what are related to geography, geomorphology, soil erosion, sediment yield, soil conservation, environmental and ecological impacts of sedimentation, social and economic effects of sedimentation and its assessment. Special attention is paid to engineering problems related to sedimentation and erosion, and mainly for readers outside of China. It has set up a good reputation worldwide. Many renowned scholars highly assess the Journal. The Journal publishes 4 issues a year since 1998. Papers of the journal have been included in Engineering Information (EI) since 1997. The journal became the official journal of the World Association for Sedimentation and Erosion Research (WASER) in 2004. According to the agreement achieved between IRTCES and Elsevier in 2007, the journal has been available to a global audience electronically via the premier online platform ScienceDirect since 2008

All journals added to the Web of Science go through a rigorous selection process. To meet stringent criteria for selection, regional journals must be published on time, have English-language bibliographic information (title, abstract, keywords), and cited references must be in the Roman alphabet. The added journals cover the subject areas of Arts and Humanities, Agriculture Biology & Environmental Sciences, Chemistry, Engineering, Computing & Technology, Life Sciences, Physics, Chemistry, and Earth Sciences, and Social and Behavioral Science. (LIU Cheng, IRTCES)

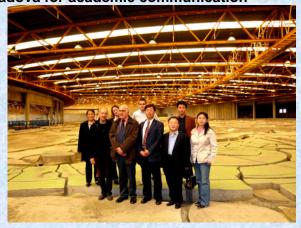
ISI Ad Hoc meeting was held in Bern on April 29, 2008

The UNESCO-IHP- SI Ad Hoc meeting was held in Bern on April 29, 2008 during the "International Workshop - Erosion, Transport and Deposition of Sediments". Members of ISI Steering Committee and relevant experts participated in the workshop attended the meeting. They are:

- Dr. Anil Mishra from UNESCO IHP,
- Dr. Ramasamy Jayakumar from UNESCO Office Beijing,
- > Prof. M. Spreafico Chairman of ISI Steering Committee,
- Prof. Des Walling, Prof. G. Basson and Prof. LIU Cheng, members of ISI Steering Committee.
- Prof. HU Chunhong from IRTCES,
- Prof. Henrique M.L. Chaves from Brazil, and
- Mr. E. Sprokkereef from CHR

Issues such as the 6th ISI Steering Committee member meeting to be held in Beijing, case studies, ISI Information System, Climate change and ISI etc. were discussed. The 6th ISI Steering Committee member meeting was scheduled to be held in Beijing on November 5 to 7, 2008. (LIU Cheng, IRTCES)

Chinese delegation visited University of Padova for academic communication



On April 24, 2008, a group of Chinese delegation let by Prof. HU Chunhong, Secretary General and Deputy Director of IRTCES, visited University of Padova in Italy for academic communication on invitation of Prof. Giampaolo Di Silvio. The group includes: Ms. FAN Zhao, Senior Engineer and Chief of the Department of Secretariat, IRTCES, Prof. LIU Cheng, Deputy Chief of the Department of Research & Training, IRTCES, Prof. CHEN Jianguo, Vice Director of Department of Sedimentation, China Institute of Water Resources and Hydropower Research (IWHR), Mr. CHEN Xujian, Senior Engineer of Department of Sedimentation, IWHR, and Prof. AN Cuihua, Director of Department of Sedimentation, Yellow River Engineering Consulting Ltd.

In the University of Padova, a friendly meeting was held between both sides. As the leader of IRTCES which is responsible for the UNESCO-ISI Technical Secretariat, Prof. HU Chunhong introduced the activities undertaken by IRTCES to Prof. Di Silvio who is one of ISI Steering Committee members. Issues of ISI Steering Committee meeting to be held in Beijing this November and proposal on establishment of INES (International Network on Erosion and Sedimentation) were discussed. Issues related to World Association for Sedimentation and Erosion Research International (WASER) and Symposia on Sedimentation (ISRS) were also discussed and mutual understanding had been achieved. The secretariats of WASER and ISRS are located in IRTCES, and Prof. Di Silvio is the Vice Chairman of WASER Council.

After the meeting, Prof. Di Silvio delivered a presentation entitled "Adige River – A Model for Sediment Balance at Watershed Scale" to Chinese delegation, in which the advances of numerical modeling on sediment of his research group were presented. Different and common aspects of numerical models between China and Italy were discussed. Chinese delegation visited the hydraulic laboratory of the University after that.

Accompanied by Prof. Di Silvio, the Chinese delegation visited Voltabarozzo Hydraulic Model Experimental Centre in the same day. The centre that is a section of the Venice Water Authority was set up in 1969 to perform studies and experiments on physical and mathematical models in support of measures to safeguard the area. The aim was to verify the feasibility of particularly innovative and complex measures by

carrying out a preliminary evaluation of the design hypotheses and chosen solution. The Centre's structures are dedicated to two areas of activity: studies and experiments in support of measures to safeguard Venice implemented by the Consorzio Venezia Nuova on behalf of the Water Authority in line with the Special Law on Venice and studies and experiments in support of land defence measures (river improvement and diversion structures, barrages), also implemented by other bodies and authorites. (LIU Cheng, IRTCES)

Pictures of rockfall, landslide and quake lake in Wenchuan earthquake area, China

Prof. WANG Zhao-Yin, UNESCO-IHP-ISI Steering Committee member and professor of Tsinghua University, went to Wenchuan earthquake area having a field investigation. He has taken many pictures of rockfall, landslide and quake lake. We appreciate Prof. Wang's sharing the pictures with us. More pictures can be found in the ISI WebPages.



Quake Lake Caused by Rockfall on Baisha River



Sedimentary Rockslide on Mianyuan River

More News in ISI Website

- Letter from Thomson informing IJSR being indexed and abstracted in SCI
- Report of UNESCO Category 2 Water-related Centres (2006-2008)
- China calls off alert on main "quake lake"
- > A Grain of Sand: Nature's Secret Wonder
- World's oldest irrigation system in China safe after quake
- Three Gorges Dam unaffected by devastating quake
- China uncovers 3,415 unqualified rural hydropower stations
- > Time to act to prevent wars over water
- IPICI Mars' Shifting Sands
- Health project launched in China
- Big demand for 'water' across Asia
- River sand mining banned in China's largest freshwater lake
- Cooperation in Mekong region yields success

More

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

CONFERENCE REPORT

International Workshop - Erosion, Transport and Deposition of Sediments was held in Berne, Switzerland, April 28-30, 2008



The International Workshop - Erosion, Transport and Deposition of Sediments was successfully held in the University of Berne, Switzerland, on April 28-30, 2008. Over 60 participants from UNESCO, Argentina, Austria, Belgium, Brazil, China, France, Germany, Luxemburg, the Netherlands, Poland, South Africa, Switzerland, Ukraine and UK attend the workshop.

The workshop was sponsored and cosponsored by International Commission for the Hydrology of the Rhine Basin (CHR) in cooperation with UNESCO International Hydrological Program / International Sediment Initiative (ISI), the University of Berne and the Swiss Federal Office for the Environment. The objectives of the workshop are: To present a state-of-the-art of sediment related problems; To discuss present and future problems in relation to sediment management; To exchange knowledge about erosion, transport and deposition of sediment; To detect and discuss research needs; and To discuss and solve specific problems in a Swiss alpine catchment area.

The workshop is divided in two plenary working sessions and a technical field trip. In Session 1 "Experiences from the

River Rhine basin", 10 experts from the Rhine River Basin were invited to made presentations related to debris flows, sediment transport during flood events, reservoir sedimentation, sediment problems in impounded reaches, sediment quality, sediment finger printing, morphological processes at bifurcations and navigation aspects of river and sediment management. In Session 2 "Experiences from other continents", 4 world famous experts in sediment research were invited to make invited lectures, they are:

- Soil erosion modeling and control in Brazil Past, present and future - Henrique M.L. Chaves, Brazil
- Changes in water and sediment loads of rivers in China – Chunhong Hu, China
- Reservoir sedimentation An overview ofλ global sedimentation rates and predicted sedimentation deposition - Gerrit Basson, South Africa
- Investigating the changing sediment loads of the world's rivers: Problems and Findings - Des Walling, United Kingdom

The one day field trip took place in the Lutschine River basin in the Berner Oberland. The special sediment related problems caused by glacial retreat, stone slide, glacial lake failure and landslide were visited and discussed. The participants visited the landslide site, site of 2005 torrent flood, sediment monitoring, sediment retention basin, and Gsteig hydrology station on Lutschine River. Local experts gave detail introduction on assessment of sediment processes in torrent catchments, hazard maps, sediment transport in rivers and so on. (LIU Cheng, IRTCES)



2nd Regional Meeting of the Asia-Pacific Water Forum's Network of Regional Water Knowledge Hubs (April 2-4, 2008, Singapore)

The 2nd regional meeting for candidate water knowledge hubs was hosted by Singapore's Public Utilities Board (PUB Singapore) on 2-4 April 2008 at the Singapore WaterHub. This meeting of the Asia-Pacific Water Forum Network of Regional Water Knowledge Hubs (APWF's RWKH) built on the successful outcome of the 1st regional consultation meeting held last 29-31 October, 2007 which was reported to the first Asia-Pacific Water Summit in Beppu, Japan. The meeting was attended by 30 representatives from 16 candidate water knowledge hubs of excellence in the region and facilitated by ADB and UNESCO-IHE. The objectives of the meeting are to (i) peer review the business plans developed by the candidate regional water knowledge hubs, using the guidelines circulated in January 2008; (ii) fine-tune the business plans

through a workshop; and (iii) develop the work program and organizational arrangements of the APWF's Network of Regional Water Knowledge Hubs.

With regard to business plan presented by each hub, three common issues were discussed deeply, which included Hub clients and partners; Cost-recovery strategy and Hub organization and governance (including quality assurance). Final business plans are required to be improved and submitted by end of April. It is expected that the outcome of the meeting will be reported to APWF Governing Council during the Singapore International Water Week in June 2008. RWKH is the new approach that emphasizes knowledge partnerships and networking composed of advanced expertise and existing centers of excellence in the region to offer their services to clients and partners in the Asia-Pacific Region. IRTCES as a candidate of water knowledge hub will fully support its action and program. (TONG Yuling, IRTCES)



24th Conference of the Danube Countries on Hydrological Forecasting and Hydrological Bases of Water Management - Bled, Slovenia, 2.-4.6.2008



Under the auspices of the International Hydrological Programme IHP of UNESCO, the Danube countries since 1961 cooperate successfully at two levels: (i) implementing joint projects in the Danube Basin and (ii) organizing conferences on Hydrological Forecasting and Hydrological Bases of Water Management, convened every second year in a different Danube country. The 24th Conference took place in Bled, Slovenia, from 2nd to 4th June 2008. This cooperation of Danube countries is coordinated by a group of experts in which all countries of the Danube basin are represented. This group had its 22nd Working Meeting one day before the beginning of the 24th Conference.

Of direct interest to ISI is Topic 5 entitled - "Floods, morphological processes, erosion, sediment transport and sedimentation", with themes such as monitoring of watershed and river bed/reservoir erosion and sedimentation, modeling of erosion and sediment transport, etc. Within this topic 16 papers were presented, prepared by 51 authors. The abstracts of papers as well as the full papers can be downloaded from the website http://ksh.fgg.uni-lj.si/bled2008/.

It was noted at the Conference that efficient sediment management is hindered by the fact that sediment processes are not yet fully understood, despite of the large experience available. For instance, comprehensive research is needed to reduce the uncertainty in the assessment of the impacts of sediment processes on flood risks (hydrological probability combined with consequences).

In the light of the great interest of participants in land and river bed erosion it is recommended to devote a topic of future conferences entirely to erosion problems. As remote sensing and similar new techniques can be very useful tools in studying regional erosion and sediment transport in rivers, it is suggested to launch a topic named "New Techniques in Hydrology and Hydraulic Research".

The presented examples of technical measures applied on rivers and torrents underline the importance of efficient cooperation between water managers and decision makers, including improved information of the affected population. It was thus recommended that the organizers of future conferences involve policy makers into the organizing committees, in order to promote better understanding between all participants in water management.

At the 22nd Working Meeting of the experts and representatives of the Regional Hydrological Co-operation of the Danube Countries the discussion on the actual status of the SEDIBAL research project (Sediment Balance for the Danube River) was of particular relevance to ISI. Initiated in November 2006, the project is partly funded by the Section for Science of UNESCO Office in Venice – BRESCE.

The coordinator Professor H.P. Nachtnebel informed the meeting about the progress of SEDIBAL. The ensuing discussion underlined that although very thorough research is needed to resolve practical sediment problems, such as effects up- and downstream from dams, processes at the Danube delta, etc, there has in the past been a limited interest of stakeholders and managers in sediment problems. In this light, the publication of results obtained so far by SEDIBAL would already be of value to the ISI Danube Case study, without waiting for the completion of the project, which may take a long time. The relationship between SEDIBAL and the EU funded SEDNET Project should also be made clear, as well as what concrete contributions are expected from the member countries. A working meeting on SEDIBAL has been proposed for November 2008, with a detailed work plan to be prepared for that occasion. (by Prof. Stevan Bruk)

Dr. András Szöllösi-Nagy, Deputy Assistant Director General of UNESCO, delivered a presentation on climate change in MWR, China

A Seminar on Impact of Climate Change on Water Resources was organized in the Ministry of Water Resources of China (MWR) by the Chinese National Committee for IHP on May 26, 2008. The representatives from MWR, UNESCO, Bureau of Hydrology MWR, Chinese National Committee for IHP, International Research and Training Center on Erosion and Sedimentation (IRTCES), Yellow River Conservancy Commission (YRCC), Institute of Geography CAS, Tsinghua University, Beijing Normal University and Changjiang Water Resources Commission participated in the seminar.

The seminar was chaired by Prof. LIU Heng, Vice Chairman of the Chinese National Committee for IHP. Mr. CAI Jianyuan, Deputy Director General of Bureau of Hydrology, made a welcome speech on behalf of Mr. DENG Jian, the Director General. Dr. András Szöllösi-Nagy, Deputy Assistant Director General of UNESCO, Secretary of the IHP and Director of Division of Water Sciences, gave a presentation on climate changes. In his presentation, Dr. Szöllösi-Nagy described the present status of the influences of climate change on global water resources, and predicted the future trend; he introduced related programmes, initiatives and activities for coping with climate changes by UNESCO IHP. Experts from IRTCES, YRCC, CAS, Tsinghua University and Beijing Normal University delivered relevant presentations.

Prof. HU Chunhong, Secretary General and Deputy Director of IRTCES, participated in the seminar with other three experts from IRTCES. Dr. LIU Cheng made a presentation of "Changes in Water and Sediment Loads of Rivers in China".

Before the seminar, Mr. HU Siyi, Vice Minister of MWR had a friendly meeting with Dr. Szöllösi-Nagy. When IRTCES was mentioned in the talks, Dr. Szöllösi-Nagy highly appraised IRTCES playing key roles in international sediment research and cooperation. As the first established UNESCO water-related Category II center, IRTCES has been making significant contributions to the IHP. Prof. HU Chunhong, Secretary General and Deputy Director of IRTCES, participated in the meeting. (LIU Cheng, IRTCES)



PUBLICATION

Papers Published in Issue 2, Volume 21, 2008, International Journal of Sediment Research



Volume 23, Number 2

June 2008

Technical Papers

Erosion, Sediment Transportation and Accumulation in Rivers

N. I. ALEKSEEVSKIY, K. M. BERKOVICH, and R. S. CHALOV

Modeling the Potential Distribution of Shallow-seated Landslides Using the Weights of Evidence Method and a Logistic Regression Model: A Case Study of the Sabae Area, Japan

Ru-Hua SONG, Daimaru HIROMU, Abe KAZUTOKI, Kurokawa USIO, and Matsuura SUMIO

Effects of Hedgerows on Soil Erosion in the Three Gorges Dam Area

Chong-Feng BU, Qiang-Guo CAI, Sai-Leung NG, Kwai-Cheong CHAU, and Shu-Wen DING

Methodologies of Preparing Erosion Features Map by Using RS and GIS

Mohammadi Torkashvand Ali and Nikkami Davood

GIS Based Risk Analysis of Debris Flows: An Application in Sichuan, Southwest China

B. F. DI, N. S. CHEN, P. CUI, Z. L. LI, Y. P. HE, and Y. C. GAO

Impulsive Force of Debris Flow on a Curved Dam Chjeng-Lun SHIEH, Chia-Hsien TING, and Hung-Wen PAN

Technical Notes

Sediment Retention by Check Dams in the Hekouzhen-Longmen Section of the Yellow River

Da-Chuan RAN, Quan-Hua LUO, Zu-Hao ZHOU, Guo-Qing WANG, and Xiao-Hua ZHANG

Assessment of Soil Erosion and Sediment Delivery Ratio Using Remote Sensing and GIS: A Case Study of Upstream Chaobaihe River Catchment, North China Weifeng ZHOU and Bingfang WU

Runoff Reduction due to Environmental Changes in the Sanchuanhe River Basin

Guoqing WANG, Jianyun ZHANG, Ruimin HE, Naiqian JIANG, and Xin'ai JING

Publications in ISI Information System

- Sampling Surface and Subsurface Particle-Size Distributions in Wadable Gravel- and Cobble-Bed Streams (Bunte & Abt)
- UN-Water Launch Status Report on Integrated Water Resources Management and Water Efficiency Plans at CSD 16, May 2008
- UN-Water and Global Water Partnership (GWP) Report on Roadmapping
- Performance of bed load transport equations in mountain gravel-bed rivers: a re-analysis (Barry et al.)
- A coupled upland-erosion and instream hydrodynamicsediment transport model for evaluating sediment transport in forested watersheds (Conroy et al.)
- Sediment transport and channel morphology of small, forested streams (Hassan et al.)
- Erosion, sedimentation, and cumulative effects in the Northern Rocky Mountains (Megahan & King)
- Sediment Transport Data and Related Information for Selected Coarse-Bed Streams and Rivers in Idaho (King et al.)
- A general power equation for predicting bed load transport rates in gravel bed rivers (Barry et al.)
- A sediment transport model for incision of gullies on steep topography (Istanbulluoglu et al.)
- Poline [PDF] Dr. Szöllösi-Nagy's PPT file presented in MWR,
- Sediment load reduction in Chinese rivers (Liu, Sui and Wang)

More

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

COMING EVENTS

3rd International Conference on Estuaries & Coasts (September 14-16, 2009)

Date: September 14-16, 2009

Conference Venue: Tohoku University, Sendai, Japan. Summary: After great success of ICEC2003 (Hangzhou, China) and ICEC2006 (Guangzhou, China), ICEC2009 will be held in Sendai, Japan, co-organized by Department of Civil Engineering, Tohoku University and the International Research and Training Center on Erosion and Sedimentation (IRTCES). You are invited to attend the conference to exchange our knowledge and experiences related to estuarine and coastal issues.

Conference Topics:

- Estuarine and Coastal Processes
- Estuarine Eco-Environment and Its Protection
- Maintenance and Management of Waterways in Estuaries and Harbors
- > Research Technologies for Estuarine Engineering

URL: http://donko.civil.tohoku.ac.jp/icec2009/index.html Contacts:

LOC Chairman Professor Hitoshi Tanaka Department of Civil Engineering

Tohoku University

6-6-06 Aoba, Sendai 980-8579, Japan. Phone & Fax : (+81)-22-795-7451

e-mail: tanaka@tsunami2.civil.tohoku.ac.jp LOC Secretary Assoc. Professor Makoto Umeda

Department of Civil Engineering

Tohoku University

6-6-06 Aoba, Sendai 980-8579, Japan. Phone & Fax: (+81)-22-795-7452 e-mail: umeda@kasen1.civil.tohoku.ac.jp

Workshop on 'Sediment problems and sediment management in Asian river basins'

Date: 06-12 September, 2009 **Venue:** Hyderabad, India

Introduction: Sediment problems are assuming increasing importance in many areas of the world. These problems relate to the adverse effects of sediment in both water resource development and river management and to the wider environmental impact of sediment in degrading aquatic ecosystems. Changing sediment fluxes can also have important implications for nutrient inputs to freshwater and coastal ecosystems and for the stability of channels and floodplains and river deltas. With their high sediment fluxes and the sensitivity of these fluxes to climate change and to land use change and other human impacts, such as dam construction and river regulation, Asian river basins currently face many sediment-related problems. There is a need for improved understanding of these problems and the sediment budgets of river basins and for the development of effective management strategies. This workshop, organised in collaboration with UNESCO ISI and WASER, will seek to review the nature and extent of sediment problems in Asian River Basins and current progress towards developing effective sediment management strategies. Topics to be addressed will include the present and future impacts of climate change, the interaction of different factors causing changing sediment fluxes, sediment management strategies and their effectiveness, and the development of sediment monitoring networks to support effective sediment management.

Convener: Des Walling (UK), d.e.walling@exeter.ac.uk

Co-conveners: Jim Bogen (Norway)

Chunghong Hu (China) Anil Mishra (UNESCO) S.C. Rai (India)

Manfred Spreafico (Switzerland)

URL: http://www.appliedhydrology.org/iahs/

International Water Resources and Hydropower Forum

Date: Oct. 16 ~18, 2008

Venue: China Institute of Water Resources and Hydropower Research (IWHR), Beijing, China

Summary: This year happens to be the 50th anniversary of China Institute of Water Resources and Hydropower Research (IWHR). In order to celebrate this great event, IWHR is planning to hold a series of academic exchange and celebration activities. The Organizing Committee of the International Water Resources and Hydropower Forum would like to invite all the participants of this Forum to take part in the celebration ceremony of IWHR which will be arranged right after the Forum on Oct.18th, 2008. We are confident that this event will leave you a deep impression and a happy memory.

Themes (draft):

- Climate Change and Countermeasures
- Water Resources and Management
- · Hydropower, Renewable Energy and Dam Safety
- · Water and Food Security
- Water and Environment
- Flood Management and Drought Mitigation
- Water and Soil Conservation

Sponsor:

Ministry of Water Resources of People's Republic of China **Organizer:**

China Institute of Water Resources & Hydropower Research **Co-sponsor:**

Chinese Hydraulic Engineering Society, Chinese National Committee on Irrigation and Drainage, ICID, Chinese National Committee on Large Dams, ICOLD, China Chapter of International Association of Hydraulic Engineering and Research, IAHR, International Research and Training Centre on Erosion and Sedimentation, Global Water Partnership China, GWP, National Natural Science Foundation of China, Other co-sponsors to be decided.

Contacting Persons

Ms. Wang Yanwei Ms. You Yanli

Email: wangyw@iwhr.com Email: youyl@iwhr.com emily wangyw@yahoo.cn iwhryouyl@yahoo.cn

Address: 20 Chegongzhuang West Road, Beijing, 100044,

China

Web: http://www.iwhr.com/special/iwrhf/ Tel: (+86 10) 68786350, 68786352

Fax: (+86 10) 68412316

33rd IAHR CONGRESS

Co-located with the 19th CANADIAN HYDROTECHNCIAL CONFERENCE and Co-sponsored by the Canadian Society for Civil Engineering

Date: August 10-14, 2009

Venue: Vancouver, British Columbia, Canada

WELCOME: On behalf of the entire local organizing committee and IAHR council members, we invite you to join

us in Vancouver, British Columbia for an event you will not want to miss! We take great pleasure in announcing the 33rd IAHR Biennial Congress, August Themed "Water Engineering for a Sustainable Environment," the Congress focuses on the central roles of hydraulic engineering and hydroinformatics in water engineering for a sustainable environment, and how these roles link to broader aspects of environment sustainability in watershed and coastal settings. By 2009, it will have been 12 years since an IAHR Biennial Congress was held in North America. The last North American venue was San Francisco, in 1997. That Congress was well received and attracted approximately 1,000 registrants. The North American hydraulics community is extensively represented in IAHR's membership (some 15-20% of the total) and looks forward to once again welcoming international colleagues to an IAHR Congress at an attractive North American location. Several organizations with broad representation from the North American water engineering community – namely EWRI-ASCE, COPRI-ASCE, UBC, and CSCE – are collaborating with IAHR to organize the 33RD IAHR Congress and the co-located 19th Canadian Hydrotechnical

CONGRESS TOPICS:

- Topic A. Advances in the Fundamentals of Water Science and Engineering
- Topic B. Water Engineering in Support of Built Environments
- Topic C. Water Engineering for the Protection and Enhancement of Natural Watershed and Aquifer Environments
- Topic D. Water Engineering for Sustainable Coastal and Offshore Environments (Built and Natural)
- Topic E. Advances in Hydroinformatics for Integrated Watershed and Coast Management

URL: http://content.asce.org/conferences/iahr09/
CONTACTS:

Congress Manager & overall conference administration: Stacey Ann P. Gardiner, CMP, Congress Manager, E-mail: IAHRConferenceManager@asce.org

Paper Management Services & questions: Sheana Singletary, Program Administrator, E-mail:

ssingletary@asce.org

International Conference on Fluvial Hydraulics (River Flow 2008)

From: 2008-09-03 to 2008-09-05

Venue: Altınyunus Hotel, Çeşme-İzmir-Turkey

Summary: Rivers are continuously eroding or depositing under normal natural conditions. However, these changes can be either reversible or irreversible. Reversible changes result from the natural cycle of water and sediment runoff from a catchment. However, irreversible changes normally occur under natural conditions in the upper or lower reaches of a river. Within the context of reversible and irreversible water-sediment processes, Fluvial Hydraulics was born as one of the fundamental discipline in engineering practice and scientific research. Recent developments in fluid and sediment mechanics have provided Fluvial Hydraulics the integration of basic phenomenal knowledge into practical engineering works. New engineering tools revealed from advances in physical understanding, computation methods and measuring techniques. River Flow 2008 will be organized with the support of Fluvial Hydraulic Section (FHS) of the International Association of Hydraulic Engineering and Research (IAHR). This conference intends to be a forum for all researchers involved in River Hydraulics studies. It would be an opportunity to meet together for scientists working on both complementary aspects of

hydrodynamic processes and sediment transport phenomena in rivers, using theoretical, experimental or numerical approaches. The conference will concentrate on the hydraulics fundamentals, its application in engineering or environmental related problems.

The conference, River Flow 2008 in Turkey, will be a three-day-long simulation of the work of the scientists studying on Fluvial Hydraulics. The conference will begin on Wednesday, September 3. Technical sessions will be held in four parallel tracks from Wednesday to Friday. During the conference, one or two plenary lectures will be planned each day to deliver by expert scientists. Master classes, which are an important feature of the River Flow Conference Series, will be held the day preceding the formal opening of the Conference.

Organizer: Local Organizing Committee (LOC) for River Flow 2008of Turkey. The LOC members consist of the following Universities/ Institutions:
State Hydraulic Works of Turkey Middle East Technical University (METU)
Gazi University (GU)
Istanbul Technical University (ITU)
Dokuz Eylül University (DEU)

Izmir Institute of Technology (IYTE)

Cukurova University (CU)
The University of Mississippi, USA

Sponsors/co-sponsors:

International Association of Hydraulic Engineering and Research (IAHR)-Fluvial Hydraulics Committee (FHC) UNESCO- International Hydrological Programme-(IHP) International Sedimentation Initiative (ISI)-IHP

Contacts:

Assoc. Prof. Dr. M. Ali KOKPINAR State Hydraulic Works Hydraulic Model Lab. 06100-Yucetepe-Ankara-Turkey

Tel: +90 312 3992796-500 Fax: +90 312 399 27 95

e-mail: mkokpinar@superonline.com
URL: http://riverflow2008.org/

8th International Conference on Hydro-Science and Engineering (ICHE-2008)

From 2008-09-8 to 2008-09-12

Venue: Nagoya, Japan

Summary: On behalf of the International and the Local Organizing Committees of the 8th International Conference on Hydro-Science and Engineering (ICHE-2008), we cordially invite you to participate in the conference to be held on September 8-12, 2008 in Nagoya, Japan. It is great honor for us to be your hosts at this important event in which our primary goals are the sharing of scientific and professional experiences and recent advances in our engineering discipline. The conference is hosted by Nagoya University, School of Civil Engineering, and organized locally by an organizing committee composed of faculty members from Nagoya University and other universities in the region.

The ICHE-2008 will extend the series of biennial conference started in Washington, D.C (1993), continued in Beijing (1995), Cottbus (1998), Seoul (2000), Warsaw (2002), Brisbane (2004), and Philadelphia (2006). These conferences have acted in the past as a welcome forum to report and discuss the latest advancements in Hydro-Science and Engineering and as such have always been highly valued by all participants. Undoubtedly, the ICHE-2008 will provide an opportunity for making numerous personal and professional contacts. The theme of this conference is "New Challenge of Hydro-Science and

Fax: +64 (0)3 348 5548 (fax)

Engineering toward Sustainability through Flood Risk, Water Resources & Ecosystem Assessment ". Though the topics discussed in this conference are wide as listed below, they will be organized as several mini-symposia to clarify the direction of the new challenge. In addition to personal and professional contacts during the technical sessions, the conference offers its participants a chance to attend specialized technical visit that will demonstrate "New Challenge of Hydro-Science and Engineering toward Sustainability through Flood Risk, Water Resources & Ecosystem Assessment".

Sponsors: International Association of Hydraulic Engineering and Research (IAHR), Nagoya University, Japan Society of Civil Engineers (JSCE), Ecology and Civil Engineering Society (ECES), Japan Water Forum, Chinese Hydraulic Engineering Society (CHES), Korean Association for Water Resources (KWRA), Canadian Society for Civil Engineering (CSCE), American Society of Civil Engineers (ASCE), World Association for Sedimentation and Erosion Research (WASER), National Center for Computational Hydroscience and Engineering, the University of Mississippi (NCCHE)

Contacts:

ICHE-2008 Conference Secretariat Nagoya University

Department of Civil Engineering Furo-cho, Chikusa-ku, Nagoya,

Aichi 464-8603, JAPAN

E-mail: ICHE2008@civil.nagoya-u.ac.jp

LOC Chairman; Prof. Tetsuro Tsujimoto Phone: +81-52-789-4625 Fax: +81-52-789-3727

E-mail: ttsujimoto@genv.nagoya-u.ac.jp

URL: http://www.civil.nagoya-u.ac.jp/~ICHE2008/

International Symposium on 'Sediment dynamics in changing environments'

Date: 1-5 December 2008

Venue: Christchurch. New Zealand

Introduction: Mankind is facing changes of unknown magnitude and speed in the 21st century. We are just beginning to grasp the magnitude of our impact on the environment and the related risks for our societies - and the whole globe. This century will be a century of changes - of changing environments. We have a choice to partly control these changes by our present actions; and to estimate and prepare for / adapt to these global changes. As more scientific evidence accumulates about the magnitude and speed of past environmental changes from sedimentary histories and sediment archives we can learn to manage present and future changes. This century must be a century of concerted research and actions in order to control and adapt to environmental, economical and social changes involving scientists from all disciplines - in particular waterrelated and earth surface processes sciences. On behalf of the International Commission on Continental Erosion (ICCE) we would like to invite you to Christchurch in December 2008.

To share your knowledge about "Sediment dynamics in changing environments".

To inspire and to be inspired to study Erosion and Sediment Dynamics

To work together for a better future.

URL: http://www.civil.canterbury.ac.nz/icce2008/index.shtml **Contact:** All enquiries should in the first instance be directed to Jochen Schmidt, PO Box 8602, Christchurch,

New Zealand.

phone: 64 (0)3 343 8058 email: j.schmidt@niwa.co.nz

International Conference on Hydrology and Climate Change in the Mountainous Areas

Date: November 15 to 17, 2008 and abstract dead line: 31 January, 2008

Venue: The conference will be held in Kathmandu, the capital city of Nepal. Draped along the greatest heights of the Himalaya, Nepal is a land of sublime scenery, timeworn temples, and some of the best walking trails on earth. November is the best season for tourist and trekkers because of likely no rains and neither hot nor cold. It is a best season to enjoy lots of green and blue sky as well as for out door activities like trekking, rafting, and wild life jungle safari.

Organized by: SOHAM-NEPAL and in collaboration with

Supports: UNESCO, NAST, NEA, DWIDP have expressed their interest too support this conference SOHAM-Nepal invites and welcomes supports and cooperation from local and international agencies, scientific communities and individuals.

Introduction: To emphasize the reality that water is critical for sustainable development, environmental integrity and the eradication of poverty and hunger, UN General Assembly the Fifty-eighth session, agenda item 95 targeted years 2005-2015 as "International Decade for Action-Water for Life". Changes in the environment have been worrying issues to the scientific communities and planners. In order to open forum in these pertinent topics, SOHAM-Nepal is organizing an international conference on "Hydrology and Climate Change in the Mountainous Areas". The proposed conference date is November 2008. The main objective of the conference is to involve scientists, engineers, development workers and planners as well as experts on related fields and create an opportunity for discussion and sharing information on observations, researches, best practices, lessons learnt etc. Broadly, the conference aims to address on - review the available technology in the field related to climate change and its impact on snow, glaciers and hydro-meteorological processes, assessment of the impact of sediment on water resources, environment, and socio-economy and to look for a mechanism for research and capacity building on understanding of hydrological system of mountainous areas. The main topics of the conference are: 1) Climate change impacts and adaptations 2) Snow and glacier hydrology, 3) Sedimentation and Mass wasting, 4) Hydrological modeling 5) Flood forecasting and early warning systems 6) Water induced disaster management 7) Droughts and low flows

Contact & Conference Secretariat

Mr. Jagat K. Bhusal,

General Secretary, SOHAM, jagat@dhm.gov.np

Mobile: 9841230003 Mrs. Sarojani Pradhan, Tresurer, SOHAM

Email: soham_npl@yahoo.com

Mobile: 9841242759 Web: www.soham.org.np Contact: soham@soham.org.np Tel/ Fax: 977 1 4251921

International Symposium on Sediment Management

From 2008-07-10 to 2008-07-12

Venue: I2SM, Lille, July 10-12th, 2008, France

Summary: For many decades, waterways have been exposed to a wide variety of contaminants. Over the ages, river estuaries have given economic prosperity to those who live on their embankments. Much of this prosperity is based on the sediments brought by the rivers.

Even if regulations and a better control of contaminants have been established to reduce their emission, many contaminants are still present in bottom sediments. In fact, some of them are persistent and continue to pose a risk to the environment.

Since contaminated sediment problematic is extended throughout the world, this symposium will be international event. The symposium will review recent advances on sediments management related research and focus on engineering aspects. It will provide a unique opportunity for experts and engineers all over the world to meet and share their experience.

The organising committee cordially invites you to attend I2SM, which will be held on July 10 -12th 2008 in Lille, France

Organizer: Ecole des Mines de Douai France,

Co-sponsors : Région Nord-Pas de Calais, ADEME and

Europe

Contacts: Prof. ABRIAK N.E Ecole des Mines de Douai

Secretary of the International Symposium on Sediment

Management

Departement Génie Civil et environnemental

941, rue Charles Bourseul, BP 10 838 -F59508 Douai cedex,

France

Tel: 33 (0) 3 27 71 24 10, Fax: 33(0) 3 27 71 29 16, Email: abriak@ensm-douai.fr

More Coming Events in ISI Website

- 4th Int. Symposium on Contaminated Sediments: Sustainable Management and Remediation (Ireland, June 30-July 3, 2009)
- The First World Landslide Forum (Japan, Nov. 18-21, 2008
- 16th IAHR-APD 2008 and ISHS-IAHR (Nanjing, Oct.20-23, 2008)

2008 Integrated Water Resources Management Advanced International Training Programme (Sweden, Aug.11 to Sep.2, 2008) (2008-8-11 15:27) (Hits:140)

More

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



Editor: Dr. LIU Cheng ISI Technical Secretariat

IRTCES under auspices of UNESCO P.O. Box 366, 20 Chegongzhuang West Rd.

Beijing, 100044, China Fax: +86-10-68411174 E-mail: chliu@iwhr.com

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 mainted-spreafico@bafu.admin.ch or ISI technical Secretariat at chliu@iwhr.com.