

INTERNATIONAL SEDIMENT INITIATIVE

NEWSLETTER

Reporting ISI news to you quarterly

No. 48 Jul. 18, 2018

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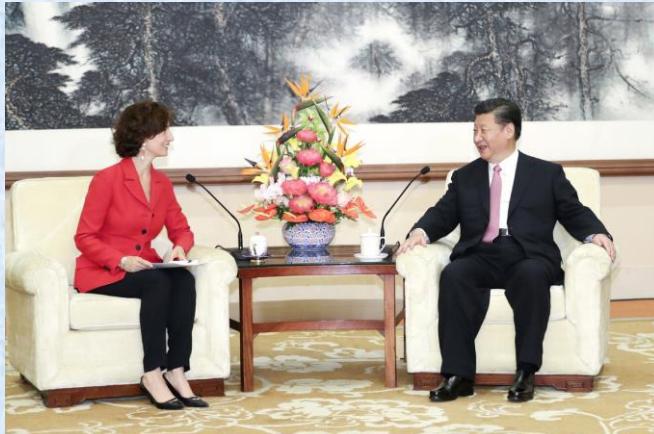
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NEWS

Audrey Azoulay, first UNESCO Director-General to be received by the Chinese President



President Xi Jinping meets with United Nations Educational, Scientific and Cultural Organization (UNESCO) Director-General Audrey Azoulay in Beijing, Jul 16, 2018. [Photo/Xinhua]

[BEIJING, July 17, 2018] On Monday, Audrey Azoulay began her first official visit to China as Director-General of UNESCO with a historic meeting with the President Xi Jinping.

It is the first time a Chinese President has ever received a UNESCO Director-General. This follows a watershed moment for China-UNESCO relations when President Xi visited UNESCO Headquarters in 2014, his first visit to a UN Organization.

For the Director-General, this visit marks “the beginning of a new era for the strategic partnership between China and UNESCO”. She stressed her conviction that “multilateralism is more important than ever for responding to contemporary challenges” and hailed “China’s remarkable commitment within the multilateral system.”

Audrey Azoulay also highlighted “the modernity of UNESCO’s mission to build a more human future through education, culture and the sciences.”

During the meeting, they discussed opportunities for strengthening the strategic partnership between China and UNESCO in education, emphasizing Africa and the promotion of girls’ and women education – the two global priorities of UNESCO; in culture: the Director-General underscored the importance of Chinese cultural Heritage (China is second country in the World Heritage ranking); and on artificial intelligence: she will visit the Artificial Intelligence Institute of Tsinghua University.

She continued her visit with a dinner on Monday with the First Lady, Peng Liyuan, UNESCO Special Envoy for Girls’ and Women’s Education. The Director-General wishes to express her gratitude for the First Lady’s commitment as “girls’ and women’s education is an important driver for inclusive and sustainable development”. (Source: UNESCO)

ISI teleconferences convened to discuss ISI activities

On April 26 and May 29, 2018, ISI Advisory Group

teleconferences were organized to discuss ISI activities for 2018 and 2019. The teleconferences were attended by ISI chair Prof. Manfred Spreeffo, Prof. Des. Walling (UK, ISI Advisory Group), Prof. Cheng Liu (China, ISI Technical Secretariat), Dr. Anil Mishra from UNESCO-IHP Secretariat, and Mr. Philippe Pypaert from UNESCO Beijing. The following items have been discussed:

- 1) ISI Training Workshop (November 5-10, 2018);
- 2) Cooperation with the International Centre for Water Resources and Global Change (ICWRGC, Koblenz, Germany); and
- 3) ISI contribution to IHA Congress, 2019

ISI welcomes Dr. Thomas Hoffmann to serve on the ISI Expert Group

Dr. Thomas Hoffmann was nominated and approved as a member of the ISI Expert Group to represent ICWRGC.



Dr. Thomas Hoffmann is a researcher at the German Federal Institute of Hydrology (Koblenz) since 2014 and a senior lecturer at the Department of Geography (University of Bonn) since 2007. In 2010, he was a Post-Doc at the Department of Biological Science and Biogeoscience Institute of the University of Calgary, Canada. His research interests are in sediment dynamics in fluvial systems and quantifying sediments budgets, including erosion and sediment deposition. The primary focus of his work has been on long-term human-environmental interaction (mainly in Central Europe), human impacts on biogeochemical cycles and glacial/postglacial alpine processes in the European Alps and the Canadian Rockies. Techniques employed include: sediment monitoring, geomorphic mapping, geophysics, sedimentological analysis, GIS-modelling, terrestrial remote sensing, and numerical modelling of geomorphic processes. He received his doctorate degree in 2007 from the University of Bonn. He was the Chair of the PAGES-LUCIFS-research-network from 2009 to 2014 and initiated the PAGES Working group on ‘Soil and Sediment transfer in the Anthropocene’ (GLOSS) (www.pastglobalchanges.org/ini/wg/gloss/).

Launch of United Nations World Water Development Report at 8th World Water Forum

The United Nations World Water Development Report, *Nature-based Solutions for Water*, launched on 19 March, 2018 during the 8th World Water Forum, and in conjunction with World Water Day, demonstrates how nature-based solutions (NBS) offer a vital means of moving beyond business-as-usual to address many of the world’s water challenges while simultaneously delivering additional benefits vital to all aspects of sustainable development.

NBS use or mimic natural processes to enhance water

availability (e.g., soil moisture retention, groundwater recharge), improve water quality (e.g., natural and constructed wetlands, riparian buffer strips), and reduce risks associated with water-related disasters and climate change (e.g., floodplain restoration, green roofs).

Currently, water management remains heavily dominated by traditional, human-built (i.e. 'grey') infrastructure and the enormous potential for NBS remains under-utilized. NBS include green infrastructure that can substitute, augment or work in parallel with grey infrastructure in a cost-effective manner. The goal is to find the most appropriate blend of green and grey investments to maximize benefits and system efficiency while minimizing costs and trade-offs.

World Water Development Report 2018: Nature-based Solutions for Water

The global demand for water has been increasing at a rate of about 1% per year over the past decades as a function of population growth, economic development and changing consumption patterns, among other factors, and it will continue to grow significantly over the foreseeable future.

Industrial and domestic demand for water will increase much faster than agricultural demand, although agriculture will remain the largest user overall. The vast majority of the growth in demand for water will occur in countries with developing or emerging economies.

At the same time, the global water cycle is intensifying due to climate change, with wetter regions generally becoming wetter and drier regions becoming even drier. Other global changes (e.g., urbanisation, de-forestation, intensification of agriculture) add to these challenges.

Full report is available at:
<http://unesdoc.unesco.org/images/0026/002614/261424e.pdf>

Member of the ISI Advisory Group shared details of ISI activities at the 8th World Water Forum

From March 19 to 23, 2018, the 8th World Water Forum was held in Brazil's capital, Brasilia. Organized every three years by the World Water Council, This important international platform aims "to promote awareness, build political commitment and trigger action on critical water issues at all levels" by gathering leading policymakers, scientists, and private sector and civil society organizations. As the world's biggest water-related event, the forum plays a vital role in raising global awareness of water-related issues. This year's World Water Forum in Brasilia was attended by more than 10 Heads of State and 100 Ministers from around the world. It was the first time the meeting has been held in the Southern Hemisphere.

Dr. Cheng Liu, a member of ISI Advisory Group, participated in 2 sessions as a panelist: 'Session 8.a.1: Information and training for decision makers' and 'Session 1.C.1 Water and land management techniques for climate change mitigation'. He shared experiences by introducing the main activities of IRTCES and the International Sediment Initiative (ISI) of UNESCO.



23rd session of the Intergovernmental Council of the International Hydrological Programme and 1st Water Science-Policy Interface Colloquium (SPIC Water)

From June 11 to 15, 2018 the 23th session of the Intergovernmental Council of the International Hydrological Programme (IHP) was held in Paris at the UNESCO Headquarters. Organized every two years by the IHP, the only intergovernmental programme of the UN system devoted to water research, water resources management, and education and capacity building, this Council gathered 253 participants (95 women and 158 men) from 79 Countries.



The 36 Members of the council adopted 13 major decisions through Resolutions by consensus. These included decisions relating to: the name and governance of the Programme, Sustainable Development Goals' indicator monitoring Transboundary Cooperation and Water Education and two new initiatives (The Global Network of Water Museums and the Land Subsidence Initiative).

The Council meeting also provided the opportunity to hold the 1st Water Science-Policy Interface Colloquium (SPIC Water) on 14 June, 2018. Eleven Ministers and deputies with responsibilities for Water, Natural Resources, Climate or Foreign Affairs participated. The Colloquium was an opportunity to take stock of the progress made towards achieving the Sustainable Development Goal on Water and Sanitation (SDG6). The SPIC Water was organized at the request of Member States to discuss how UNESCO's International Hydrological Programme (IHP) can help to identify science-based solutions, effective policies and practices on water and sanitation, and support countries in their efforts to implement the 2030 Agenda.

ISI International Training Workshop on Integrated Sediment Management in River Basins will be held in Beijing

The ISI International Training Workshop on Integrated Sediment Management in River Basins will be held in Beijing, China from November 5-10, 2018. This represents a major ISI activity for 2018. It fulfills the objectives of the new strategy of ISI, which in turn contributes towards the 8th phase of IHP (2014-2021) which has the title "Water security: responses to local, regional and global challenges" by addressing the wide-ranging social, economic and environmental impacts of erosion, sediment transport and sedimentation processes with due consideration of gender perspectives.

The five day training workshop will include lectures, seminars, and a one-day field visit. Topics to be covered include river basin management, soil and water conservation technology, ecology and restoration in integrated river basin management, reservoir sedimentation and sediment management technology. Participants will contribute to a seminar involving guided discussion of national case study presentations prepared by participants in advance of the Workshop. .

Participants will be nominated by UNESCO field offices in consultation with the IHP Secretariat. Additional participants, including participants from China, will be encouraged to attend the training course without financial support from the organizers.

Updated information about the workshop will be provided on the ISI website at <http://www.irtces.org/isi/> .

8th Global FRIEND-Water Conference will be held in Beijing (6-9 November 2018)

The 8th Global FRIEND-Water Conference will be held from 6 to 9 November, 2018 in Beijing, China. The conference aims to help identify solutions for the implementation of Sustainable Development Goals and particularly water related targets, by improving the knowledge base of multidisciplinary approaches to evidence-based decision-making. This 8th Global FRIEND-Water Conference is expected to bring together more than 300 water scientists from all over the world, drawing participants from the eight FRIEND networks.

FRIEND-Water (Flow Regime from International Experimental and Network Data), was initiated 32 years ago and is an international collaborative network of experts from the UNESCO International Hydrological Programme (UNESCO-IHP). It aims to generate new understanding of regional hydrology and multi-scale hydrological processes. FRIEND-Water investigates long-term variations and changes in hydrological regimes and parameters to better understand the role of climate and river basin features, as well as the impact of human activities on the temporal and spatial distribution of water. The scientific research and development supported by the FRIEND-Water programme are critical for water resources management, socioeconomic development, securing livelihoods, protection of the environment, and assessment of the impact of global change on hydrological processes, including climate change and human activities. As a cross-cutting theme of UNESCO's IHP-VIII, which focusses on addressing water security challenges at local, national, regional and global scales, FRIEND-Water contributes to the investigation of regional water resources, hydrological extremes (drought and floods), global change and the hydrological cycle, as well as water education and capacity building.

The FRIEND-Water programme complements and interacts with many national and international projects and initiatives such as the International Sediment Initiative (ISI), the International Drought Initiative (IDI), the International Floods Initiative (IFI), the Global Network on Water and Development Information for Arid Lands (G-WADI), the Internationally Shared Aquifer Resource Management (ISARM) programme, the International Initiative on Water Quality (IIWQ), the Groundwater Resources Assessment under the Pressures of Humanity and Climate Change (GRAPHIC) programme, and the WMO/GWP Integrated Drought Management Programme (IDMP), etc.

FRIEND conferences take place every four years and have been held in Norway, Germany, Slovenia, South Africa, Cuba, Morocco, and France. The 8th Global FRIEND-Water Conference will be held in Beijing, China in 2018. <http://8thfriendwater.iwhr.org/40?lang=en> .

More News on ISI Website

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

PUBLICATIONS



**Papers Published in the
International Journal of
Sediment Research
Volume 33, No. 2, 2018**

Pages 93-220 (June 2018)

Variability of the useful life of reservoirs in tropical locations:
A case study from the Burdekin Falls Dam Australia
Pages 93-106

Michelle Cooper Stephen E. Lewis Thomas C. Stieglitz
Scott G. Smithers

Hydraulic model tests for propagation of flow and sediment
in floods due to breaking of a natural landslide dam during a
mountainous torrent

Pages 107-116
Takahiro Itoh Akihiko Ikeda Takahiko Nagayama Takahisa
Mizuyama

Evaluation and modeling of runoff and sediment yield for
different land covers under simulated rain in a semiarid
region of Brazil

Pages 117-125
Richarde Marques da Silva Celso Augusto Guimarães
Santos José Yure Gomes dos Santos

Bed-load transport rate based on the entrainment
probabilities of sediment grains by rolling and lifting

Pages 126-136
Jun-De Li Jian Sun Binliang Lin

LES-DEM simulations of sediment transport

Pages 137-148
Husam Elghannay Danesh Tafti

Depth to the apparent redox potential discontinuity (aRPD)
as a parameter of interest in marine benthic habitat quality
models

Pages 149-156
Travis G. Gerwing Kieran Cox Alyssa M. Allen Gerwing
Charmaine N. Carr-Harris Sarah E. Dudas Francis Juanes

A hybrid machine learning ensemble approach based on a
Radial Basis Function neural network and Rotation Forest
for landslide susceptibility modeling: A case study in the
Himalayan area India

Pages 157-170
Binh Thai Pham Ataollah Shirzadi Dieu Tien Bui Indra
Prakash M.B. Dholakia

Analysis of flow-sediment rating curve hysteresis based on
flow and sediment travel time estimations

Pages 171-182
Chi-Cheng Yang Kwan Tun Lee

Mineralogical signatures and sources of recent sediment in
a large tropical lake

International Journal of Sediment Research

Pages 183-190

Jorge Feliciano Ontiveros-Cuadras Ana Carolina Ruiz-
Fernández Joan-Albert Sanchez-Cabeza Libia Hascibe
Pérez-Bernal Michel Preda Federico Páez-Osuna

Toxicity studies of elemental sulfur in marine sediments

Pages 191-197

Monika Cieszynska-Semenowicz Justyna Rogowska
Wojciech Ratajczyk Joanna Ratajczyk Lidia Wolska

Depth of closure: New calculation method based on
sediment data

Pages 198-207

Luis Aragonés José Ignacio Pagán Isabel López José C.
Serra

Non-symmetrical levee breaching processes in a channel
bend due to overtopping

Pages 208-215

Songbai Wu Minghui Yu Hongyan Wei Yanjie Liang Jing
Zeng

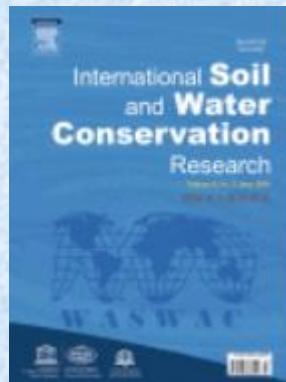
Review: The International Sediment Initiative case studies
of sediment problems in river basins and their management

Pages 216-219

Cheng Liu Desmond E. Walling Yun He

Full papers are available at ScienceDirect:

<https://www.sciencedirect.com/journal/international-journal-of-sediment-research> with free access to the paper
abstracts.



**Contents of ISWCR
(Vol. 6, No.2, 2018)**

International Soil and
Water Conservation
Research

Volume 6, Issue 2, Pages
79-202 (June 2018)

Analysis of soil management and water conservation
practices adoption among crop and pasture farmers in
humid-south of the United States,

Pages 79-86,

Naveen Adusumilli, Hua Wang,

Assessing the soil erosion control efficiency of land
management practices implemented through free
community labor mobilization in Ethiopia,

Pages 87-98,

Tibebu Kassawmar, Gizaw Desta Gessesse, Gete Zeleke,
Alemtsehay Subhatu,

Integrated universal soil loss equation (USLE) and
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estimation in A Sap basin: Central Vietnam,

Pages 99-110,

Tung Gia Pham, Jan Degener, Martin Kappas,

Estimation of soil erosion in a rain shadow river basin in the southern Western Ghats, India using RUSLE and transport limited sediment delivery function,

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Jobin Thomas, Sabu Joseph, K.P. Thrivikramji,

The effects of biological soil conservation practices and community perception toward these practices in the Lemo District of Southern Ethiopia,

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Assessment of the SOILWAT model for predicting soil hydro-physical characteristics in three agro-ecological zones in Nigeria,

Pages 131-142,

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The mediating role of environmental emotions in transition from knowledge to sustainable use of groundwater resources in Iran's agriculture,

Pages 143-152,

Aliakbar Raeisi, Masoud Bijani, Mohammad Chizari,

Vegetated treatment area (VTAs) efficiencies for E. coli and nutrient removal on small-scale swine operations,

Pages 153-164,

Daren Harmel, Rehanon Pampell, Terry Gentry, Doug R. Smith, Chad Hajda, Kevin Wagner, Patti K. Smith, Rick L. Haney, Kori D. Higgs,

Modelling the impacts of structural conservation measures on sediment and water yield in Thika-Chania catchment, Kenya,

Pages 165-174,

John Ng'ang'a Gathagu, Joseph K. Sang, Caroline W. Maina,

Hydro-geomorphological characterization of Dhidhessa River Basin, Ethiopia,

Pages 175-183,

Gizachew Kabite, Berhan Gessesse,

Effects of type, level and time of sand and gravel mining on particle size distributions of suspended sediment,

Pages 184-193,

Seyed Hamidreza Sadeghi, Sudabeh Gharemahmudi, Hossein Kheirfam, Abdolvahed Khaledi Darvishan, Mahboobeh Kiani Harchegani, Pari Saeidi, Leila Gholami, Mehdi Vafakhah,

Using Vetiver grass technology for mitigating sediment loads in the Talakhaya Watershed areas in Rota, CNMI,

Pages 194-201,

Mohammad H. Golabi, Sydonia Manibusan, Timothy Righetti, Dana Okano, Clancy Iyekar,

Free full papers and open access are available at
ScienceDirect :

<https://www.sciencedirect.com/journal/international-soil-and-water-conservation-research>

Publications in ISI Information System

More

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

COMING EVENTS

The 6th International Conference on Estuaries and Coasts (France, August 20-23, 2018)

Date: August 20-23, 2018

Venue: University of Caen, Caen City, France

Summary: The International Conference on Estuaries and Coasts (ICEC) is a triennial event initiated by the International Research and Training Center on Erosion and Sedimentation (IRTCES). Five such conferences have now been held in Hangzhou and Guangzhou, China; Sendai, Japan; Hanoi, Vietnam; and Muscat, Oman in 2003, 2006, 2009, 2012 and 2015. With support from related international associations, and with the participation of experts and scholars worldwide, the ICEC has attracted wide attention and has become an important and popular event. The ICEC provides an opportunity for scientists, engineers, researchers and decision-makers to exchange ideas, research results and advanced techniques, and develop collaboration and friendships. The 6th International Conference on Estuaries and Coasts (ICEC-2018) will be held in the University of Caen Normandy, France on August 20-23, 2018.

Organizers:

- University of Caen Normandie (France) and its laboratory LUSAC
- GIS HEDD (Group of Scientific Interests « Hydraulics for the Environment and for the Sustainable Development »)
- International Research and Training Center on Erosion and Sedimentation (IRTCES)

Under the patronage of: the International Association for Hydro-Environment Engineering and Research (IAHR); the French Society of HydroTechnics (SHF), and the World Association for Sedimentation and Erosion Research (WASER).

Theme of the Conference:

Estuaries and Coastal Zones in times of Global Change

Topics of the Conference:

The conference will be organised around parallel sessions in the following domains:

1. Saline intrusion and sea level rise: measurements, modelling and forecasting their impacts to economic development and human lives;
2. Waves and Tsunami: Measurements, modelling, forecasting and warning system;
3. Estuarine and coastal flows and their evolution by climate change;
4. Sediment transport and morphological change in estuaries and coastal zones
5. Megacities development and coastal floods under the threat of sea level rise and climate change: Observation, modelling, forecasting and early warning systems;
6. Environment and ecosystem change in estuaries and coastal zones in time of global change;
7. Integrated Coastal Zone Management for sustainable developments in global change context;
8. Environment and Marine Renewable Energies.

Conference website:

<http://lusac.unicaen.fr/evenements/icec-2018/>

Contacts:

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21st Congress of IAHR-APD (Indonesia, Sept. 3-5, 2018)

Date: 03 September 2018 - 05 September 2018

Venue: Yogyakarta, Indonesia

Invitation: We cordially invite you to join the 21st Congress of the Asia Pacific Division of the International Association for Hydro-Environment Engineering and Research (IAHR-APD) to be held in Yogyakarta, Indonesia, on 3rd – 5th September 2018. The theme of the congress is: “Multi-perspective Water for Sustainable Development”, which we believe may inspire us in sharing the Hydro-Environment related knowledge and experiences towards effective and efficient ways to elevate community welfare. Your efforts to disseminate this information to the related networks are highly appreciated. Thank you and looking forward to seeing you in Yogyakarta, Indonesia.

Sincerely yours,

The Local Organizing Committee

Radianta Triatmadja

Conference website: <http://iahrapd2018.ugm.ac.id/>

River Flow 2018 (France, Sept. 3-7, 2018)

Date: 03 September 2018 - 07 September 2018

Venue: Lyon, France

About the conference

River Flow has become since 2002 a major international conference in river engineering and fluvial hydraulics. It is a unique occasion to present and discuss the latest scientific research, and to communicate with scientists, engineers, and researchers involved in areas such as fluvial flow and structure processes or sediment transport. River Flow 2018 will focus on the latest findings in the field of fluvial hydraulics, addressing fundamental issues related to fluid processes of sediments and pollutants in rivers. More practical issues related to river morphodynamics, river restoration, and river interaction with structures will be discussed. Finally, a specific theme on extreme events (flood, drought) is proposed. Several master classes dedicated to graduate students and young researchers will be organized and led by recognized international experts on topics in hydrodynamics, mixing, morphology, flood hazard and sediment transport.

URL: <https://riverflow2018.irstea.fr/>

Contact: for sponsoring River Flow 2018 conference, proposing exhibition or any information about the conference, please contact riverflow2018@irstea.fr

Language: English will be the official language for the conference and the master classes.

Note: this conference site will be regularly updated with new information as soon as it is available. Please visit it regularly.

Conference dates

Masterclasses: September 4, 2018 (at Irstea).

Conference : September 5 to 7, 2018 (at Espace Tête d'Or)

Technical visit: September 8, 2018

2019 World Hydropower Congress (France, May 14 -16, 2019)

Date: 14-16 May 2019

Venue: Paris, France

Summary: The World Hydropower Congress brings together industry, government, finance, academia and civil society to set priorities for the future direction of the hydropower sector. The seventh Congress, organised by the International Hydropower Association (IHA), is to be hosted in partnership with UNESCO's International Hydrological Programme. With the theme of 'The Power of Water for a Sustainable World', the biennial event in May 2019 will focus on hydropower's role in delivering on the Paris Agreement and the Sustainable Development Goals. Up to 100 countries are expected to be represented at the Congress. Details on registration, the agenda and speakers will be announced in the coming months. Contact us to express your interest in participating in or sponsoring the Congress.

Conference

website:

<https://www.hydropower.org/congress/>

7th International Conference on Debris Flow Hazards Mitigation (USA, June 10 -13, 2019)

Date: 10 June 2019 - 13 June 2019

Venue: Golden, Colorado USA

Summary: We are pleased to announce that the 7th International Conference on Debris-Flow Hazards Mitigation will be held June 10 - 13, 2019 in Golden, Colorado, USA on the campus of Colorado School of Mines. With the beautiful Rocky Mountains covering half the state, Colorado shares the problem of debris-flow hazards with other mountainous areas of the world. Against this backdrop, scientists, engineers, and policy makers from around the world will be able to share new research and ideas in the field of debris flows. This website provides initial details of the conference and venue. Additional information will be added as the conference date approaches.

Conference website: <http://dfhm7.csmsspace.com/>

38th IAHR World Congress (Panama, Sep. 1-6, 2019)

Date: 01 September 2019 - 06 September 2019

Venue: Panama City, Panama

Summary: Global interest in water has increased rapidly in recent years. Many water issues are high on the political agenda, whether it concerns the lack of access to safe water and sanitation or the increase in water - related disasters due to floods and droughts. This challenge must be addressed by management and policy decisions informed by science and engineering knowledge that is relevant, credible, legitimate and delivered in a timely manner. Therefore the discipline of hydro-environment engineering and research is more important than ever. The

38th IAHR World Congress will bring together the key players in the sector from around the globe in "Water – Connecting the World", from 1-6 September 2019 in Panama. We look forward to meeting you there! (Peter Goodwin, IAHR President)

Conference website: <http://iahrworldcongress.org/>

14th International Symposium on River Sedimentation (Chengdu, China, Sep. 16-19, 2019)

Date: September 16 – 19, 2019

Venue: Chengdu, China

Summary: China's water-related infrastructure has developed by leaps and bounds leading to further advances in scientific and technical research. Consequently, the role of sediment research is becoming more challenging than ever before. In the midst of these advances, the International Symposium on River Sedimentation (ISRS) will return to China after the successful Yichang Symposium 12 years ago. On behalf of the 14th ISRS Organizers, we would like to warmly invite you to join us in Chengdu, China for the 14th International Symposium on River Sedimentation (ISRS-2019). The Symposium will be held with the theme of "Integrated Sediment Management in Rivers and Coasts". We look forward to welcoming you to Chengdu in September 2019 and we are confident that this symposium will be one of the most successful in the ISRS series. . (Weilin Xu, Chairperson of the LOC)

Symposium Theme and Topics:

The theme of the symposium is:

Integrated Sediment Management in Rivers and Coasts

Under this theme, the symposium topics include:

- A. Sediment yield;
- B. Sediment transport in rivers and lakes;
- C. Sedimentation in estuarine and coastal areas;
- D. Reservoir sedimentation;
- E. Erosion processes;
- F. Environmental and ecological sediment;
- G. Sediment related disasters;
- H. Modelling and measurement techniques;
- I. Integrated sediment management.

Technical Tours:

- Ancient Dujiangyan irrigation project, one of the oldest water projects in the world (2270 years old), which is still working today for flood control and irrigation, due to its success in dealing with problems caused by sediment deposition and scour.

Post Symposium Tours:

Four of post-symposium tours (3-5 days each) will be organized:

- Jiuzhaigou valley (UNESCO world heritage);
- Ruergai highland wetland;
- Earthquake Museum and Wolong Panda Nature Reserve; and
- Three Gorges Project.

Organizer: Sichuan University

URL: to be released

More Coming Events in ISI Website

More

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



INTERNATIONAL SEDIMENT INITIATIVE (ISI)

International Hydrological Programme (IHP)
UNESCO

ORGANISATION: UNESCO

| | |
|-------------------------|-----------------|
| Blanca Jimenez Cisneros | UNESCO, Paris |
| Philippe Pypaert | UNESCO, Beijing |
| Anil Mishra | UNESCO, Paris |

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

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(Lancang River, China, by: Cheng Liu on January 20, 2018)