

INTERNATIONAL SEDIMENT INITIATIVE

NEWSLETTER

Reporting ISI news to you quarterly

No. 47 Mar. 6, 2018

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UNESCO“国际泥沙计划”简报

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NEWS

A regional workshop of UNESCO Natural Sciences related Centres and Chairs in Asia and the Pacific was held in Penang, Malaysia



A Regional workshop of UNESCO Natural Sciences related Centres and Chairs in Asia and the Pacific entitled “Strengthening Interaction and Knowledge Exchange between UNESCO Natural Sciences related Centres and Chairs in Asia and the Pacific to promote South-South Cooperation” was organized by the UNESCO Jakarta Office in Penang, Malaysia from 29 to 30 November 2017. The workshop was organized in order to strengthen South-South cooperation between Natural Sciences related Centres and Chairs in Asia and the Pacific region as well as other regions. A strong and efficient Science network in the region will be critical to support the implementation of Agenda 2030 in the upcoming years. The following actions were outcomes of the workshop: 1) Strengthening of cooperation and collaboration among Natural Sciences related Centres and Chairs in Asia and the Pacific region; 2) Strengthening South-South cooperation through networking and collaboration among Natural Sciences related Centres and Chairs in Asia and the Pacific and in other region such as Africa; and 3) Development of and Action and Implementation plan on partnership and knowledge exchange on scientific research and sustainable development among Natural Sciences related Centres and Chairs. Participants included: 15 representatives from Natural Sciences related Centres and Chairs; 4 officials from UNESCO Office Jakarta; and 7 representatives from the Universiti Sains Malaysia.

Prof. Cheng Liu, a member of Advisory Group of ISI, attended the workshop on behalf of IRTCES. In the workshop Prof. Liu made a presentation entitled “IRTCES and ISI”. This introduced IRTCES and its activities, as well as its role in acting as the ISI Technical Secretariat and ISI activities. It also made proposals for cooperation with other Centres and Chairs to strengthen the South-South cooperation. He also chaired a group discussion and participated in all discussions.

Paris to host World Hydropower Congress in May 2019

10 November 2017 - Paris will host the next World Hydropower Congress between 14 and 16 May 2019, the International Hydropower Association announced today.

The biennial event sets priorities for the future direction of the hydropower sector. It brings together leaders from business, industry, government, finance, UN agencies, academia and civil society organisations.

The seventh World Hydropower Congress 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 Congress will focus on hydropower’s role in delivering on the Paris Agreement and the Sustainable Development Goals.

Richard Taylor, Chief Executive of the International Hydropower Association, made the World Hydropower Congress announcement at the United Nations COP23 climate conference in Bonn, Germany.

“Two years ago, world leaders in Paris made the historic commitment to limit global warming. We expect the hydropower community to bring the same resolve to realising the ambition of the Paris Agreement and achieving the Sustainable Development Goals”, he said.

Mr Taylor was speaking at a special event on the water-energy nexus, hosted by the United Nations Climate Change Secretariat and Itaipu Binacional on 10 November, 2017.

Building on the 2017 World Hydropower Congress, which was hosted at the United Nations Economic Commission for Africa, up to 100 countries are expected to be represented at the Congress in 2019.

Notes to Editors:

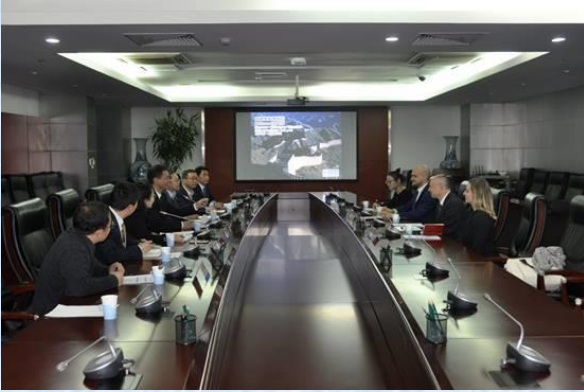
Installed hydropower capacity worldwide has surpassed 1,250 GW, equivalent to supplying more than a billion people with clean energy. Hydropower makes up over two-thirds of all renewable electricity produced today.

The International Hydropower Association was created in 1995 under the auspices of UNESCO’s International Hydrological Programme, whose headquarters are in Paris.

IHA is a founding member of the International Renewable Energy Alliance (REN Alliance) along with partners from the bioenergy, geothermal, solar and wind industries. (Source: IHA, <https://www.hydropower.org/>)



IHA CEO visits IWHR and IRTCES



On December 12, 2017, The International Hydropower Association (IHA) CEO Richard Taylor and two colleagues visited IWHR. They were greeted by IWHR President Kuang Shangfu and talked about the previous Congress and the next World Hydropower Congress to be held in Paris in 2019.

Dr. Kuang warmly welcomed the CEO on his third visit of this year, and thanked him for IHA's long-standing support to IWHR. He said that the successful 6th World Hydropower Congress held in Addis Ababa, Ethiopia this year is a great boost to the sustainable hydropower development in the African continent, laying out a guideline for its hydropower development and operation over the coming decade. Dr. Kuang reaffirmed that, through the IHA China Office hosted at IWHR, the institute will fully support the 7th World Hydropower Congress in 2019. He also invited Mr. Taylor and his colleagues to visit IWHR again next year.

Mr. Taylor voiced his appreciation of IWHR's great hospitality. He briefed the meeting on IHA's achievement this year, and thanked IWHR for its support and contributions. He said he looked forward to strong and wide-ranging cooperation with IWHR and the International Research and Training Center on Erosion and Sedimentation (IRTCES), in order to share advanced Chinese technology and experience.

Approaches and details of future cooperation were also discussed between the two sides.

Dr. Liu Cheng, Deputy Division Chief of IRTCES, participated in the meeting and made a presentation introducing the activities of IRTCES and UNESCO's International Sediment Initiative (ISI).

On December 15, 2017, Mr. Richard Taylor, Mr. Gregory Tracz, Chief Development Officer of IHA, and Ms. Chen Liang, Liaison Officer of IHA China Office, visited IRTCES. Prof. Wang Yangui, Prof. Liu Cheng, Prof. Chen Yuehong, Dr. Du Pengfei and Dr. Qu Liqin from IRTCES had a meeting with them.

Prof. Wang, Division Chief of IRTCES, welcomed Mr. Taylor and his colleagues on behalf of the Directors of IRTCES.

Mr. Taylor introduced the IHA and its activities. He indicated that the IHA was created in 1995 under the auspices of UNESCO's International Hydrological Programme (IHP). He also gave details of the seventh World Hydropower Congress to be hosted in partnership with UNESCO's IHP in Paris between 14 and 16 May 2019, and he looked forward to cooperation with IRTCES and ISI on the congress and other activities. Recent discussions

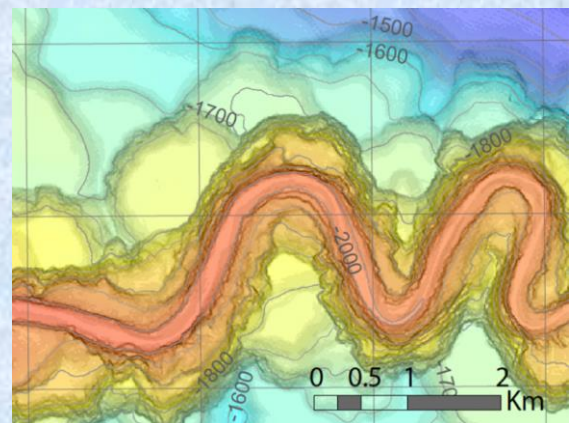
with UNESCO concerning a session on 'sediment management' co-sponsored by ISI were reported.

In the meeting, Prof. Liu, Prof. Chen, Dr. Du and Dr. Qu introduced ISI and the World Association for Sedimentation and Erosion Research (WASER), the International Journal of Sediment Research (IJSR), the World Association of Soil and Water Conservation (WASWC), and the journal International Soil and Water Conservation Research (ISWCR), respectively.

Both sides discussed future collaboration related to the World Hydropower Congress, case studies of reservoir sedimentation, training workshops, publications and other possible cooperative activities.



How Do Deep-Sea Gravity Currents Transport Sediment So Far?



Detailed map of Congo Canyon, showing its meandering planform in the study area. Credit: Azpiroz-Zabala et al. [2017]

Like river canyons, steep-sided submarine channels are effective transport systems, capable of carrying billions of tonnes of sediment across distances of hundreds of kilometers. Although previous studies have shown that helical (spiraling) flow around meander bends plays an important role in transporting sediment in rivers, a lack of field measurements from deep-ocean turbidity currents has led to competing models describing their motion around bends.

To settle this controversy, Azpiroz-Zabala et al. present the first deep-ocean measurements of turbidity currents around a submarine channel bend. Using an acoustic Doppler current profiler anchored downstream of a meander at a depth of 2,000 m in the Congo Canyon, the team acquired velocity-depth profiles for 10 flows that occurred between December 2009 and March 2010.

Surprisingly, despite having variable thicknesses ranging from 16 to 75 m and durations lasting from 8 hours to 10 days, nearly all of the turbidity currents displayed the same helical flow structure. It consisted of two stacked cells

rotating in opposite directions, with the bottom cell revolving in the direction opposite to helical flows observed in rivers. These results are consistent with models of other types of stratified flows and support the hypothesis that the same mechanism that generates circulation cells in other geophysical flows (such as rivers and saline flows)—the interaction of competing pressure gradients—also applies to turbidity currents.

These difficult-to-obtain measurements show that the type of circulation a large-scale flow will exhibit depends upon the extent to which the current is stratified. The resulting helical flow causes the sediment to slosh from side to side, to gather at the inner bend, or to be continuously overturned. In combination with fluid turbulence, these processes keep sediment in suspension across long distances and thus play a crucial role in the ability of turbidity currents to transport enormous amounts of sediment from the continental shelf all the way to the deep-ocean floor. (Geophysical Research Letters, <https://doi.org/10.1002/2017GL075721>, 2017)

—Terri Cook, Freelance Writer (Source: <https://eos.org/>)

China invests to protect the environment in headwater region

The half-frozen lake turns aquamarine blue in Sanjiangyuan National Park, Northwest China's Qinghai province, Nov 13, 2017.

China has invested some 17.6 billion yuan (\$2.8 billion) in improving the Sanjiangyuan area, the source of China's major rivers.

Sanjiangyuan in Northwest China's Qinghai province, literally means the "source of three rivers," is home to the headwaters of the Yangtze, Yellow, and Lancang (Mekong) rivers.

An ecological protection program was initiated in the area in 2005 with 7.6 billion yuan invested during the first

phase.

The second phase started at the beginning of 2014 and nearly 10 billion yuan has been spent since then.

During the past four years, the area has seen improving grassland and better water conservation due to a reduction of invasive animals and plants. Vegetation coverage of desertified land has grown from 33.4 percent to 39.4 percent and wetland coverage has grown by 4.7 percent.

Wildlife, such as the snow leopard, jackal and Chinese grouse, are doing well.

Green animal husbandry, ecological tourism and a policy of eco-compensation have improved the lives of local people with per capita income up 35 percent from 2013.

Sanjiangyuan has suffered environmental deterioration since the end of last century due to climate change and human activity. The Sanjiangyuan Nature Reserve was established in 2000 and the Sanjiangyuan National Park will open in 2020. (Source: China Daily)



More News on ISI Website

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

PUBLICATIONS



Papers Published in the International Journal of Sediment Research Volume 32, No. 4, 2017

Pages 465-606

Processes of dike-break induced flows: A combined experimental and numerical model study
Pages 465-471

Jian Sun, Lingwei Lu, Binliang Lin, Lu Liu

Relationship between apparent redox potential discontinuity (aRPD) depth and environmental variables in soft-sediment habitats
Pages 472-480

Travis G. Gerwing, Alyssa M. Allen Gerwing, Kieran Cox, Francis Juanes, Sarah E. Dudas

Characterization of phosphorus interaction with sediments affected by acid mine drainage - relation with the sediment composition
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Lamia Boukemara, Chahrazed Boukhalfa, Sarah Azzouz, Laurence Reinert, ... Anthony Szymczyk

Maintaining the connected river-lake relationship in the middle Yangtze River reaches after completion of the Three Gorges Project
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Xiuying Wang, Xiang Li, Baiyinbaoligao, Yihong Wu

Shoreline management plan for a protected but eroding coast along the southwest coast of India
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Impact of the Three Gorges Project operation on the water exchange between Dongting Lake and the Yangtze River
Pages 506-514

Minglong Dai, Jun Wang, Mingbo Zhang, Xi Chen

Predicting characteristics of dune bedforms using PSO-LSSVM
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Predicting the effects of sediment based internal nutrient loads on eutrophication in Küçükçekmece Lagoon for rehabilitation planning
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Cenk Gürevin, Ali Erturk, Meric Albay

Impacts of urban headwater disturbances on downstream sediment loading where streamside management zones for forest harvesting activities are present downstream

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Ilkim Cavus, Latif Kalin, Ferhat Kara

Estimation of bedload discharge in sewer pipes with different boundary conditions using an evolutionary algorithm
Original research article

Kiyomars Roushangar, Roghayeh Ghasempour

An analysis of shear stress distribution in circular channels with sediment deposition based on Gene Expression Programming
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Zohreh Sheikh Khozani, Hossein Bonakdari, Isa Ebtehaj

Development and validation of a morphological model for multiple sediment classes
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Geologic framework as a factor controlling coastal morphometry and dynamics. Curonian Spit, Lithuania
Pages 597-603

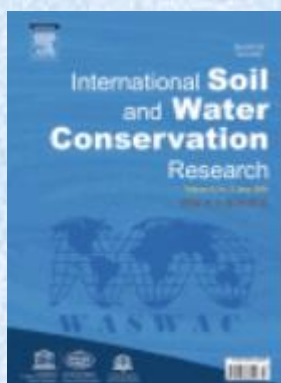
Darius Jarmalavičius, Gintautas Žilinskas, Donatas Pupienis

Discussion on “ Representative sediment sizes in predicting the bed-material load for nonuniform sediments ” by Wan Hanna Melini Wan Mohtar, Junaidi, Suraya Sharil, Muhammad Mukhlisin [Int. J. Sed. Res. 31 (2016) 79 – 86]
Pages 604-605

Fabian Friedl, Volker Weitbrecht

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.1, 2018)

International Soil and Water Conservation Research
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Estimating soil erosion response to land use/cover change in a catchment of the Loess Plateau, China
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Scientific case studies in land-use driven soil erosion in the central United States: Why soil potential and risk concepts should be included in the principles of soil health
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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 8th World Water Forum (Brazil, March 18-23)

Date: March 18-23, 2018

Venue: Brasilia, Brazil

Summary: The 8th World Water Forum will be organized in Brasilia, Brazil during March 18-23, 2018. The World Water Forum is the world's biggest water-related event and is organized by the World Water Council (WWC), an international organization that brings together all those interested in the theme of water. Its mission is "to promote awareness, build political commitment and trigger action on critical water issues at all levels, to facilitate the efficient conservation, protection, development, planning, management and use of water in all its dimensions on an environmentally sustainable basis for the benefit of all life on Earth". The World Water Forum contributes to the dialogue of the decision-making process on water at the global level, seeking to achieve the rational and sustainable use of this resource. Given its political, technical and institutional scope, one of the Forum's main features is the open, democratic participation of actors drawn from different sectors, making it an event of the greatest importance on the international agenda. IHP continues its cooperation with the Secretariat of the 8th World Water Forum as a member of the Theme Coordination Group (TCG) of one of the Forum's nine Themes: "Sharing - Involving stakeholders at all levels for sharing water benefits". IHP has taken the lead of the TCG "Sharing" and also in the Theme "Climate" on the topic "Climate science and water management: the communication between science and decision/policy making". IHP continues also its engagement in the Regional processes, notably for Latin America and the Caribbean, and the Arab States.

Conference website: <http://www.worldwaterforum8.org/>

FRIEND 2018 - International Conference on African Large River Basin Hydrology (Algeria, May 6-9, 2018)

Date: May 6-9, 2018

Venue: Blida, Algeria

Summary: The FRIEND 2018 - International Conference on African Large River Basin Hydrology will be organized in Blida, Algeria on 06 & 09 May 2018. WASER is one of Co-sponsors of the conference, and WASER members will enjoy a discounted registration fee for participation in the conference. The Conference is organized under the UNESCO's FRIEND WATER program, within the International Hydrological Program. It contributes to the regional water resources research development, global change, hydrological cycle, education and capacity building. The aim of this program is to determine the impacts of climate and human activities on the spatial and temporal evolution of water resources from the analysis of long-term hydrological variables changes. For more than 30 years, it has brought together the hydrological expert community working on the deepening and popularization of knowledge in regional hydrology. This third International Conference on the hydrology of African Large River Basins will focus special attention to strategies for the sound management, rational use and protection of water resources, based on technical and scientific tools. Through the various themes proposed, the conference will allow the academic community, researchers and managers, to exchange

experiences and knowledge on the means that can be implemented to better optimize and better manage water in the ecosystems.

Conference website: <http://friend2018.ensh.dz/>

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2nd International Symposium on Hydraulic Modeling and Measuring Technology (China, 30 May - 01 June 2018)

Date: 30 May 2018 - 01 June 2018

Venue: Nanjing, China

Conference website: <http://ishmmt2018.iahr.org.cn/cn>

8th International Symposium on Environmental Hydraulics (USA, June 4 - 7, 2018)

Date: 04 June 2018 - 07 June 2018

Venue: University of Notre Dame, Indiana, USA

Conference website: <https://ceees.nd.edu/iseh2018>

13th International Conference on Hydroscience & Engineering (China, June 18 - 22, 2018)

Date: 18 June 2018 - 22 June 2018

Venue: Chongqing, China

Summary: The 13th International Conference on Hydroscience & Engineering (ICHE-2018) will be organized in Chongqing, China during June 18-22, 2018. WASER is one of Co-sponsors of the ICHE-2018, and WASER members will enjoy a discounted registration fee for participation in the conference. The International Conference on Hydroscience & Engineering (ICHE) began in Washington DC in 1993. Beijing hosted ICHE in 1995, followed by Cottbus (1998), Seoul (2000), Warsaw (2002), Brisbane (2004), Philadelphia (2006), Nagoya (2008), Chennai (2010), Orlando (2012), Hamburg (2014) and Tainan (2016). The forthcoming one will be held in Chongqing (2018). ICHE2018 is the premier interdisciplinary platform for the presentation of new advances and research results in the fields of Hydroscience and Engineering. The conference will bring together leading academic scientists, researchers and scholars in the domain of interest from around the world.

Conference website: <http://iche2018.iahr.org.cn/>

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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 I believe may inspire us in sharing the Hydro-Environment related knowledge and experiences towards the effective and efficient ways to elevate the 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

Radiana Triatmadja

Important Dates:

| | |
|---------------------------------------|-----------------------------------|
| Deadline of Abstract | Friday, 27 October 2017 |
| Notification of Abstract Acceptance | Friday, 3 November 2017 |
| Deadline of Full Paper Submission | Friday, 2 February 2018 |
| Notification of Full Paper Acceptance | Friday, 16 March 2018 |
| Registration | Before 30 April 2018 (early bird) |

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 researches, 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

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

website:

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

Date: 10 June 2019 - 13 June 2019

Venue: Golden, Colorado USA

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

More Coming Events in ISI Website

More

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



INTERNATIONAL SEDIMENT INITIATIVE (ISI)
International Hydrological Programme (IHP)
UNESCO

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(Nujiang River, China, by: Cheng Liu on January 24, 2018)