

World Association for Sedimentation & Erosion Research – WASER

# NEWSLETTER

Reporting WASER news to you regularly

2018 No. 1

(Mar. 28, 2018)

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## NEWS

### Meeting of IJSR Editors held in Beijing



A meeting of the Editors of the International Journal of Sediment Research (IJSR) was held in Beijing, China on Oct. 30, 2017. The main purpose of this meeting was to discuss the future development of IJSR. Eleven editors from China, USA, France, Singapore, India and the Netherlands attended the meeting.

Prof. Hongwei Fang, the Editor-in-Chief, presided over this meeting. Firstly he made welcoming remarks and introduced the agenda for the meeting. Every attendee then gave a self-introduction. Prof. Fang subsequently presented a report concerning the current development of IJSR. The International Journal of Sediment Research is a quarterly publication, with 50~60 papers published per year. The Journal Impact Factor (IF) in 2016 increased to 1.494. It was 1.306 in 2014 and 1.388 in 2015. However, the rank of IJSR in its journal categories is disappointingly low. This implies that the international status of IJSR needs improvement. Prof. Fang also proposed several possible measures for promoting the journal's development, including publishing special issues, inviting Associate Editors or other well-known authors to provide review papers, and setting up a new editorial office in Tsinghua University.

Thereafter the attendees had wide-ranging discussions about the future development of IJSR and they came up with numerous suggestions on how to enhance its international influence and make the journal achieve a greater impact. Prof. Charles Melching shared his experience and reflections as an executive editor, and he stressed that a limit for paper length should be set to ensure the quality of publications. Prof. Zhaoyin Wang, the

previous Editor-in-Chief, proposed that financial support would be vital for the further development of the journal and that the scope or subject areas of the journal could be extended to include interdisciplinary, hot topics and new topics. Issues relating to the online editorial system, Open Access and article types were also discussed. Finally, a summary of the discussions and proposals was produced.



### WASER Assembly and Symposium to be held in 2019 and Conferences co-sponsored by WASER to be held in 2018

The WASER Triennial Assembly and Symposium, the 14<sup>th</sup> International Symposium on River Sedimentation (ISRS 2019), will be organized by Sichuan University in Chengdu, China from September 16-19, 2019. The Symposium theme will be "Integrated sediment management in rivers and coasts". The preliminary announcement of the ISRS 2019 can be found at the end of this Newsletter, and the first announcement and website will be released soon.

WASER is co-sponsoring several international conferences to be held in 2018, and WASER members will enjoy discounted registration fees for participation in these conferences. They include:

The 6th International Conference on Estuaries and Coasts (ICEC-2018), Caen, France, August 20-23, 2018. Conference website: <http://lusac.unicaen.fr/evenements/icec-2018/>.

The FRIEND 2018 - International Conference on African Large River Basin Hydrology, Blida, Algeria, May 6-9, 2018. Conference website: <http://friend2018.ensh.dz/>.

The 13th International Conference on Hydroscience & Engineering (ICHE-2018), Chongqing, China, June 18-22, 2018. Conference website: <http://iche2018.iahr.org/cn/>.



# NEWS FROM THE SEDIMENT WORLD

## Knowledge hub launched on sediment management to extend life of reservoirs



A new online resource for hydropower developers, researchers and operating companies seeking to improve sediment management in reservoirs has been launched by the International Hydropower Association.

The Hydropower Sediment Management Knowledge Hub presents a range of strategies and resources, including 18 case studies from 15 countries in Africa, Asia, Europe, Central and South America and the Pacific.

Sedimentation in river systems is caused by both natural erosion and human activities such as deforestation, mining, agriculture and infrastructure development.

Sediment transport can cause considerable operational and maintenance challenges for hydropower facilities when passing through critical components of water passageways. Dams are typically designed to provide enough storage to offset 50 to 100 years of sediment accumulation, and changes in the sediment regime can ultimately compromise the expected performance and lifetime of a project.

Richard Taylor, Chief Executive of the International Hydropower Association, said: "If not effectively managed, sediment can have a serious impact on the operations and lifetime of a hydropower facility. As climate change can affect catchment conditions and hydrological patterns, rates of erosion and sedimentation will require even further monitoring and management.

"Drawing upon case studies from around the world, this knowledge hub offers decision-makers, managers and academics a resource for building and sharing knowledge on sediment management."

The new online hub is hosted jointly by IHA with the support of the South Asia Water Initiative, a partnership between the World Bank and the governments of UK, Australia and Norway.

Pravin Karki, Global Lead for Hydropower and Dams at the World Bank, said: "The purpose of this web project is to widen awareness about reservoir sediment management. The knowledge hub will equip decision-takers with critical knowledge when developing new hydropower projects, and help existing facilities to identify and implement successful techniques based on tried and tested industry practices."

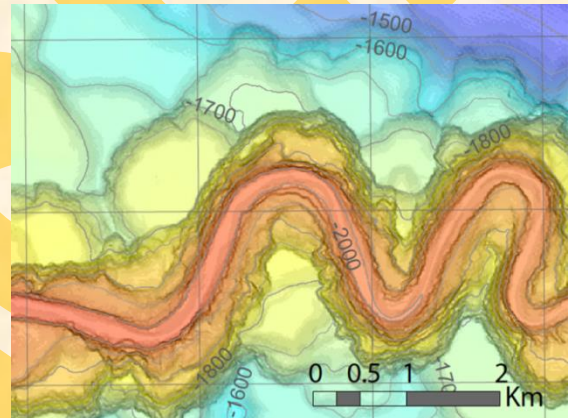
Visit the knowledge hub at: <https://hydropower.org/sediment-management>.

For more information about the hub and IHA's sediment management knowledge programme, please contact María Ubierna, IHA's Hydropower Sector Analyst at [maria.ubierna@hydropower.org](mailto:maria.ubierna@hydropower.org)

For media enquiries, please contact Will Henley, IHA's Head of Communications at [will.henley@hydropower.org](mailto:will.henley@hydropower.org)

(Source: IHA, <https://www.hydropower.org/>)

## 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 (spirling) 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 Sanjiangyuan Area

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.

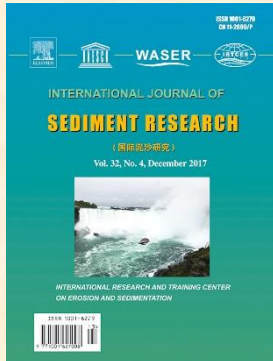
Sanjiangyuan has suffered environmental deterioration since the end of last century due to climate change and human activity. The Sanjiangyuan Nature Reserve was established in 2000 and the Sanjiangyuan National Park will open in 2020. (Source: China Daily)



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



## 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

Pages 481-486

Lamia Boukemara, Chahrazed Boukhalifa, 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

Pages 487-494

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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Varangalil Noujas, Kachapally Varghese Thomas, Nalumakkal Raveendran Ajeesh

Impact of the Three Gorges Project operation on the water exchange between Dongting Lake and the Yangtze River

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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

Pages 555-563

Ilkim Cavus, Latif Kalin, Ferhat Kara

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

Original research article

Kiyoumars Roushangar, Roghayeh Ghasempour

An analysis of shear stress distribution in circular channels with sediment deposition based on Gene Expression Programming

Pages 575-584

Zohreh Sheikh Khozani, Hossein Bonakdari, Isa Ebtehaj

Development and validation of a morphological model for multiple sediment classes

Pages 585-596

Guilherme Franz, Paulo Leitão, Lígia Pinto, Eduardo Jauch, ... Ramiro Neves

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]

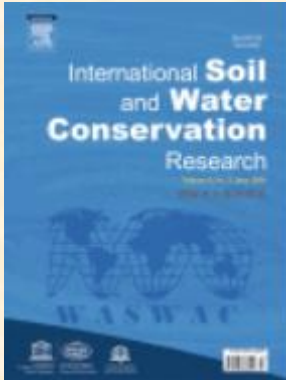
Pages 604-605

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  
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Research  
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Scientific case studies in land-use driven soil  
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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>



## COMING EVENTS

### 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/>

**Contacts:**

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Higher National School of Hydraulics.  
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Tel : 213 (0) 25 39 94 47  
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Mail : friend2018.blida@ensh.dz ;  
friend2018.blida@gmail.com

### 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

**Sonference website:** <https://cee.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/>

**Contacts:**

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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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LUSAC, University of Caen

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Chairperson:

Dan Nguyen

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F - 75015 Paris

[kimdan\\_nguyen@yahoo.fr](mailto:kimdan_nguyen@yahoo.fr)

## 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 21<sup>st</sup> 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 3<sup>rd</sup> – 5<sup>th</sup> 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  
Radianta 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](mailto: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:****Hazards Mitigation (USA, June 10 -13, 2019)**

**Date:** 10 June 2019 - 13 June 2019

**Venue:** Golden, Colorado USA

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

**7th International Conference on Debris Flow**

WASSER

# World Association for Sedimentation & Erosion Research

# WASER

## WASER COUNCIL

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Wang, Zhaoyin China

### Vice Presidents

Habersack, Helmut Austria  
Nakagawa, Hajime Japan

### Council Members

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Li, Yitian	China
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Melville, Bruce	New Zealand
Minella, Jean	Brazil
Romkens, Matt	USA
Wieprecht, Silke	Germany
Yang, Kejun	China

### Co-opted Council Members

Desmond E. Walling (Past President)	UK
Giampaolo Di Silvio (Past President)	Italy
Ulrich C.E. Zanke (Past Vice President)	Germany

## WASER SECRETARIAT



United Nations  
Educational, Scientific and  
Cultural Organization



International Research and  
Training Center on Erosion  
and Sedimentation

International Research and Training Center on  
Erosion and Sedimentation (IRTCES)  
under the auspices of UNESCO

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**WORLD ASSOCIATION FOR  
SEDIMENTATION AND EROSION  
RESEARCH**

## MEMBERSHIP APPLICATION/RENEWAL FORM

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### Membership dues for 6 years (\$US or Chinese RMB, or equivalent Euros) :

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### PLEASE SEND THIS FORM BY MAIL, EMAIL, OR FAX TO:

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(For Chinese colleagues, please fill the form in Chinese which can be downloaded at the WASER website.  
中国申请者请填写中文申请表, 中文申请表请在 WASER 网下载。)

## SYMPOSIUM VENUE

The symposium will be held at Wangjiang Hotel, near to Sichuan University and well connected to the other parts of city by public transportation.



## ACCOMMODATION

Wangjiang Hotel is a 5 star hotel (€80), surrounded by a group of hotels. These accommodation options (€30 - €55) will be offered via the on-line registration system allowing delegates to easily make their reservations when they complete their symposium registration.

## CONTACT

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## WELCOME TO CHENGDU CITY

Chengdu is the capital city of Sichuan Province, located in the Southwest of China.



Chengdu has a long history (2,300 years) and the city is full of a variety of delicious traditional foods. Most tourists find the leisurely lifestyle of Chengdu refreshing. You can find a lot of beautiful scenic spots and ancient relics in and near the city. Located beside a lake, the Leisure Paradise is a resort with catering, entertainment, culture, leisure, travel and shopping facilities. It provides a variety of business and observation services.

Air transportation to Chengdu from North America, Australia, Europe and Asia takes anywhere from 5-15 hours; and about 3 hours from Beijing, Shanghai, Hong Kong and Taipei.



## 14<sup>th</sup> International Symposium on River Sedimentation

September 16-19, 2019

Wangjiang Hotel, CHENGDU, CHINA

Theme:

Integrated Sediment Management  
in Rivers and Coasts



Organized by Sichuan University





## INVITATION

China's water-related infrastructure has developed by leaps and bounds leading to further advancements in scientific and technical research. Consequently, the role of sediment research is becoming more challenging than ever before. In the midst of these advancements, The International Symposium on River Sedimentation (ISRS) will return to China after a successful Yichang Symposium 12 years ago.

On behalf of the 14<sup>th</sup> ISRS Symposium Organizers, we would like to heartily invite you to join us in Chengdu, China for the 14<sup>th</sup> International Symposium on River Sedimentation (ISRS). 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 ISRS International Symposiums.

Weilin Xu  
(Chairperson of the Local Organizing Committee)

## SYMPOSIUM THEME & TOPICS

The theme of the symposium is

### **"Integrated Sediment Management in Rivers and Coasts"**

Under this theme, the symposium topics include:

1. Sediment yield;
2. Sediment transport in rivers and lakes;
3. Sedimentation in estuarine and coastal areas;
4. Reservoir sedimentation;
5. Erosion processes;
6. Environmental and ecological sediment;
7. Sediment related disasters;
8. Modeling & measurement techniques;
9. Integrated sediment management.

## KEY DATES

Call for Abstracts	Jan. 1, 2018
Deadline for Abstracts	Sep. 1, 2018
Accepted Abstracts Notification	Oct. 1, 2018
Full Paper Submission Deadline	Jan. 1, 2019
Full Paper Submission Notification	Apr. 1, 2019
Early Registration	May 31, 2019
Symposium	Sep. 16 - 19, 2019

## TECHNICAL & POST-SYMPOSIUM TOURS

The half day technical tour will take you to the ancient Dujiangyan irrigation project, one of the oldest water projects in the world (2270 years old), still working today for flood control and irrigation, due to successfully dealing with sediment deposition and scour.



Four lines of post-symposium tour (3 to 5 days each) will be organized to: Jiuzhaigou valley (UNESCO world heritage), Rouergai highland wetland, the Earthquake Museum and the Wolong Panda Nature Reserve, and the Three Gorges Project.

