

## World Association for Sedimentation & Erosion Research – WASER

# NEWSLETTER

Reporting WASER news to you regularly

2019 No. 3

(Sept. 27, 2019)

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## NEWS

### The 14th International Symposium on River Sedimentation held in Chengdu, China



The 14th International Symposium on River Sedimentation (14th ISRS) was held in Chengdu, China from September 16-19, 2019. More than 400 participants from over 25 countries and regions attended the Symposium. The Symposium was organized by Sichuan University, sponsored by the International Research and Training Center on Erosion and Sedimentation (IRTCES) and the World Association for Sedimentation and Erosion Research (WASER), and co-sponsored by the International Association for Hydro-Environment Engineering and Research (IAHR), the National Inland Waterway Regulation Engineering Research Center, and the Changjiang River Scientific Research Institute.

The opening ceremony was held in the morning of September 17 and was chaired by Prof. Pengzhi Lin, Secretary General of the Local Secretariat. Seven welcome speeches were made by Prof. Weilin Xu, Chairperson of the LOC and Deputy President of Sichuan University; Mr. Yun Hu, Director General of the Department of Water Resources of Sichuan Province; Prof. Zhaoyin Wang, President of WASER; Prof. Guangquan Liu, Deputy Director of IRTCES; Prof. Gary Parker, Vice-President of the International Scientific Committee; Prof. Marcelo H. Garcia, a representative of the participants; and Mr. Pravin Karki, Global Lead Hydropower & Dams at the World Bank.

The 14th ISRS main theme was 'Integrated Sediment Management in Rivers and Coasts' with the following main topics:

- Sediment yield and erosion processes;
- Sediment transport;
- Sedimentation in estuarine and coastal areas;

- Reservoir sedimentation;
- Environmental and ecological sediment;
- Fluvial processes and geomorphology;
- Sediment related to disasters;
- Modeling & measurement techniques;
- Integrated sediment management; and
- Fluvial processes and regulation in the Yangtze River.

The programme included 10 plenary reports, 14 keynote reports, 150 technical presentations in up to 5 parallel sessions, and 59 poster presentations. The plenary reports were:

- Global trends in water and sediment fluxes of the world's large rivers  
Prof. Jinren Ni, Peking University, China;
- Non-linear water and sediment diversions in rivers: a brief history of the Bulle-Effect  
Prof. Marcelo H. Garcia, University of Illinois at Urbana-Champaign, USA;
- Cooperation platform for sediment-related flash flood risk management  
Prof. Xingnian Liu & Prof. Chao Liu, Sichuan University, China;
- Sediment transport and channel morphology of mountain streams: insights from field observations, flume experiments and modelling  
Prof. Marwan A. Hassan, The University of British Columbia, Canada;
- Mountain river morphodynamics in tectonically active and earthquake prone regions  
Prof. Xudong Fu, Tsinghua University, China;
- Threshold of particle movement: a new paradigm  
Prof. Panayiotis Diplas, Lehigh University, USA;
- Sedimentation Processes in the Selenga River fluvial-deltaic system: assessing the influences of grain size and tectonics on channel dynamics  
Prof. Jeffrey Nittrouer, Rice University, USA;
- Quasi-equilibrium and equilibrium in fluvial channel geometry: The presence of multiple stable equilibrium states  
Prof. Astrid Blom, Delft University of Technology, the Netherlands;



- Recent flood disasters caused by river embankment failure in Japan and numerical modelling of embankment failure  
Prof. Hajime Nakagawa, Kyoto University, Japan; and
- Future sedimentation studies  
Prof. Zhaoyin Wang, Tsinghua University, China

A half-day technical tour was arranged on the afternoon of September 18. The participants visited the 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.

During the Symposium, the Sixth WASER Council Meeting and Assembly were held on September 16 and 19, respectively. The International Workshop on RESCON 2 and Numerical Modeling for Assessment of Sediment Management Alternatives was co-organized by the World Bank, WASER, Sichuan University and the UNESCO Beijing Office on September 17.

The closing ceremony was organized on the afternoon of September 19. Prof. Zhaoyin Wang, the President of WASER, chaired the closing ceremony. Prof. Pengzhi Lin from Sichuan University gave a brief overview for the 14th ISRS. Prof. Guangquan Liu, the representative of the ISRS permanent Secretariat, announced that the 15th ISRS will be held in Florence, Italy in 2022 and will be co-organized by the University of Florence and the University of Padua. Prof. Liu took the symposium banner from Prof. Pengzhi Lin, representative of the 14th ISRS LOC and handed it over to Prof. Luca Solari, representative of the next host Universities. Prof. Solari gave a speech and showed a video to introduce Florence and to invite and welcome all participants to meet again in Florence in 2022 for the 15th ISRS.



Plenary report (Prof. Marcelo Garcia)



Plenary report (Prof. Hajime Nakagawa)



Plenary report (Prof. Zhaoyin Wang)

### The Sixth WASER Council Meeting and Assembly held in Chengdu, China



Plenary report (Prof. Jinren Ni)



The Sixth Council Meeting of the World Association for Sedimentation and Erosion Research (WASER) was held in Chengdu, China on September 16, 2019. The Council Meeting was attended by 15 members representing both the Fifth Council and the newly elected Sixth Council,



as well as several observers. Prof. Zhaoyin Wang, President of the Association, presided over the meeting. .

Six reports were presented at the meeting. These included the President's report by Prof. Zhaoyin Wang; the Treasurer's report by Prof. Cheng Liu; a report on the selection of the recipients of the International Qian Ning Prize for 2019 by Prof. Guangquan Liu; a report on the recent development of the "International Journal of Sediment Research" and the papers from the journal selected for Awards by the Editor in Chief, Prof. Hongwei Fang; reports on the work of the Secretariat during the period 2016-2019 and the work plan for 2019-2022 by Prof. Guangquan Liu and an overview of the venue, sponsors and central theme of the forthcoming 15th ISRS (Florence, Italy, 2022) by Prof. Luca Solari.

The meeting received the result of the poll for the election of members to the WASER Council for 2019-2022, and noted additional Council members, including the Co-opted Members (Prof. Des Walling, Prof. Giampaolo Di Silvio, Prof. Ulrich Zanke and Prof. Kejun Yang), and the Ex-officio Members (Prof. Guangquan Liu, Prof. Cheng Liu, Prof. Hongwei Fang and Mr. Wensheng Zhang).

The meeting also formally noted the award of the International Qian Ning Prize for 2019 to Prof. Silke Wieprecht (Germany) and Prof. Marwan Hassan (Canada), as reported by Prof. Guangquan Liu, Secretary General; and the three papers nominated for the 2019 Awards for Distinguished Contributions to Sediment Research, representing the best papers published in the International Journal of Sediment Research (IJSR) between 2016 and 2018, as reported by the Editor in Chief, Prof. Hongwei Fang.

Issues related to the future development of the Association, changes to the statutes, recruiting of members, revised membership dues, the IJSR impact factor and the co-sponsoring of international conferences were also discussed.

The Sixth WASER Assembly was held during the 14th International Symposium on River Sedimentation (14th ISRS) in Chengdu, China on September 19, 2019. The Executive Secretary General, Prof. Cheng Liu chaired the Assembly. The President, Prof. Zhaoyin Wang delivered a speech. He reviewed the establishment and development of the Association and reported the main activities relating to international conferences, international training workshops, international awards and development of the IJSR, over the past three years. He also announced the Officers and Members of the Sixth Council of WASER.

Awards including the International Qian Ning Prize for 2019 and the 2019 Distinguished Contributions to Sediment Research Awards,

awarded for the best papers published in IJSR during the period 2016-2018 were announced at the Assembly. Prof. Silke Wieprecht (Germany) and Prof. Marwan Hassan (Canada) received the International Qian Ning Prize in recognition of their outstanding scientific or technological contributions in the fields of erosion and sedimentation research. Three papers with corresponding authors of Prof. Navid Kimiaghalam (Canada), Prof. Hongling Shi (China) and Prof. Danesh Tafti (USA) received awards for Distinguished Contributions to Sediment Research.



President Prof. Zhaoyin Wang delivering his speech



Prof. Zhaoyin Wang and Prof. H. Nakagawa handing Award plaques to the winners of the International Qian Ning Prize



Prof. Gary Parker, Prof. Marcelo Garcia and Prof. Pengzhi Lin handing certificates to the winners of the IJSR best papers

### International Workshop on RESCON 2 and Numerical Modeling for Assessment of Sediment Management Alternatives organized in Chengdu, China



The International Workshop on RESCON 2 and Numerical Modeling for Assessment of Sediment Management Alternatives, co-organized by the World Bank, the World Association for Sedimentation and Erosion Research (WASER), Sichuan University and the UNESCO Beijing Office, was held on September 17, during the 14th International Symposium on River Sedimentation (14th ISRS) held in Chengdu, China. Over 40 participants from USA, UK, Japan, Portugal and China attended the workshop.

The workshop was organized in blocks. In the opening session of the workshop, justification for

developing practical design and management strategies that will facilitate sustainable development of hydropower and dams through reservoir sedimentation management was provided. The second block of the workshop, provided an introduction to sediment monitoring, sediment yield assessment, reservoir sedimentation and state-of-the-art sediment management techniques. Subsequently, a training session on the software RESCON 2 was provided. The capability of sediment management to provide a successful adaptation strategy to climate change, thus increasing the resilience of water infrastructure, was demonstrated. In the last block of the workshop, the capabilities of numerical and physical models in sediment management were presented, and model applications were demonstrated through practical examples.





# NEWS FROM THE SEDIMENT WORLD

## Xi stresses ecological protection and high-quality development of the Yellow River



ZHENGZHOU (2019-09-19) - Chinese President Xi Jinping called for concerted efforts to promote ecological protection and high-quality development of the Yellow River.

Xi, also general secretary of the Communist Party of China Central Committee and chairman of the Central Military Commission, made the following remarks while chairing a symposium during his inspection tour to Henan province.

"The protection of the Yellow River is critical to the great rejuvenation and sustainable development of the Chinese nation," said Xi, adding that it is a major national strategy.

Noting that the peace of the Yellow River is significant to the stability of China, Xi said Chinese people have struggled against the floods and droughts of the Yellow River since ancient times, and the Party and the state have attached great importance to the harnessing and development of the Yellow River after the founding of New China in 1949.

Originating in Qinghai province, the Yellow River, known as China's "Mother River" and the cradle of the Chinese civilization, runs through nine provinces and autonomous regions including Shaanxi and Henan before emptying into the Bohai Sea in East China's Shandong province.

The river got its name Huanghe in Chinese because of its yellow, muddy water, which appears as it runs through the Loess Plateau in Northwest China.

The 5,464-km-long waterway feeds about 12 percent of China's population, irrigates about 15 percent of arable land, supports 14 percent of national GDP, and supplies water to more than 60

cities.

Xi also pointed out difficulties and problems in protecting the Yellow River, including the fragile ecological environment, the severe condition of the water resources preservation and the development quality that needs to be improved. (Source: Xinhua)

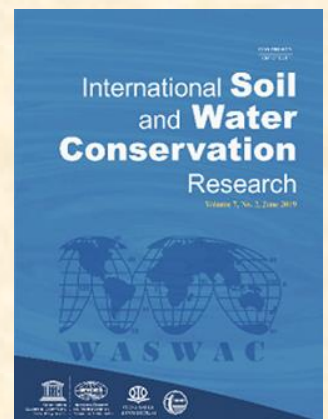


President Xi Jinping, also general secretary of the Communist Party of China Central Committee and chairman of the Central Military Commission, inspects ecological protection of the Yellow River at a national geopark during his tour in Zhengzhou, central China's Henan province, Sept 17, 2019. [Photo/Xinhua]

## International Soil and Water Conservation Research is Indexed by SCIE

According to the latest news from Clarivate Analytics, the Journal International Soil and Water Conservation Research has been officially indexed by the Science Citation Index Expanded (SCIE).

The Journal International Soil and Water Conservation Research (referred to as ISWCR for short) was officially founded in June 2013 under the Ministry of Water Resources of China. It is a publically issued English academic journal of the World Association for Soil and Water Conservation (WASWAC) jointly sponsored by the International Research and Training Center on Erosion and Sedimentation (IRTCES), the China Institute of Water Resources and Hydropower Research (IWHR), as well as the China Water & Power Press, with its secretariat stationed in IRTCES.



Since its founding, ISWCR has rapidly established a strong reputation in the international community. It was indexed by the Chinese Science Citation Database (CSCD) in April 2015, by SCOPUS, the world's largest abstract and citation database, in January 2017, and again by Emerging Sources Citation Index (ESCI) of Clarivate Analytics in October 2017. The indexation by SCIE is a milestone, as it is not only a clear recognition of the quality of the Journal and its papers, but also represents a great boost and wider platform for the further development of the Journal.

The impact factor of journals indexed by SCIE are not publicized the year they are indexed. Therefore the impact factor of ISWCR in 2019 will be publicized in 2020. At present, the latest cite score of ISWCR publicized by SCOPUS is 4.08. Estimated through the Web of Science, the MOCK IF of ISWCR in 2018 is 2.96, which is a fair representation of the Q2 journals in the field of environmental sciences indexed by SCI/SCIE.

The Journal website can be found at: <https://www.sciencedirect.com/journal/international-soil-and-water-conservation-research> .

### **India: New method developed to measure soil erosion**

Soil erosion, which involves disaggregation and displacement of soil, leads to decrease in its organic content and eventually its fertility. Indian scientists have now developed a method to measure the rate of soil erosion and associated decrease in organic content in soil by assessing levels of radioactive cesium in soil.

This method can help in monitoring the effects of soil erosion and effectiveness of soil conservation strategies.

Soil supports plants, insects and microbial life and is formed by natural forces over a long period of time. Carbon reaches the soil through the microbial action on withering plant parts and remains in soil, changing its physio-chemical properties and also enhancing its fertility. This way soil also sequesters carbon helping in regulating carbon levels in the atmosphere.

Natural and human activities are contributing to soil erosion and posing problems for both food production and climate change. Therefore, monitoring of soil erosion induced-carbon loss from soil is important.

Researchers at the ICAR-Indian Institute of Soil and Water Conservation, Dehradun have come up with a way to monitor soil erosion and decrease in carbon content in soil by correlating it with levels of radioactive cesium in soil.

“Radioactive cesium technology is a more rapid and less expensive method for soil erosion studies in the severely intensive croplands, it gives more accurate results for all types of erosion studies including historic, comparative and long-term soil and soil organic carbon erosion,” pointed out Dr. Debashis Mandal, leader of the study team, while talking to India Science Wire.

Earlier, studies had shown that the carbon concentration in soil correlates with levels of the cesium isotope, information which scientists have utilized to study the extent of soil erosion in the Doon valley of Northwestern Himalayas. Doon valley was chosen as it has both eroded and undisturbed sites for study at a considerable distance from each other.

In all, samples were collected from 16 eroded sites apart from undisturbed land to study their physical and chemical properties. For measuring cesium levels in soil, gamma spectroscopy technique was used. Different sites were found to have varying levels of cesium pointing at different degrees of soil degradation in different sites. By applying various formulae, the cesium loss was then used to calculate erosion and associated carbon loss in soil. The rate of soil erosion at the sites ranged from approximately 8 mega grams per hectare per year for a slightly eroded site to 31 mega grams per hectare per year for a severely eroded site. The results obtained similar rates of soil erosion in sites as provided by conventional techniques.

“For further validation on the use of cesium, a large number of database is needed in different landscapes and land uses so that the potential of carbon sequestration of different lands can also be measured,” said Dr. Nishita Giri, a member of research team.

The research team also included Pankaj Srivastava (Indian Institute of Soil and Water Conservation), Chinmay Sah and Ravi Bhusan (Physical Research Laboratory, Ahmedabad), Karunakara Naregundi and M. P. Mohan (Mangalore University) and Manoj Shrivastava (Indian Agricultural Research Institute). The results of the study have been published in the journal *Current Science*. (India Science Wire)

(Source: <https://www.thehindubusinessline.com/>)



# PUBLICATIONS



## Papers Published in the International Journal of Sediment Research Volume 34, No. 5, 2019

Pages 401-508 (Oct. 2019)

Use of incipient motion data for backward erosion piping models

Vera M. van Beek, Bryant A. Robbins, Gijs J.C.M. Hoffmans, Adam Bezuijen, Leo C. van Rijn  
Pages 401-408

Determination of the particle load based on detailed suspended sediment measurements at a hydropower plant  
Anant Kumar Rai, Arun Kumar  
Pages 409-421

Estimating instantaneous concentration of suspended sediment using acoustic backscatter from an ADV  
Wenjje Li, Shengfa Yang, Wei Yang, Yi Xiao, ... Shuaishuai Zhang  
Pages 422-431

Clay minerals in the late Quaternary sediment of Tulare Lake, California: Implications for climate change, weathering, and erosion processes  
Junhua Guo, Christine Pyles, William Krugh, Rob Negrini  
Pages 432-443

Effect of self-weight consolidation on a hydro-sedimentological model for the Río de la Plata estuary  
Pablo Santoro, Mónica Fossati, Pablo Tassi, Nicolas Huybrechts, ... Ismael Piedra-Cueva  
Pages 444-454

Erosion probability model of base-soil particle migration into a granular filter under local flow  
Yuan Wei, Mei-li Zhan, Qing-fu Huang, Jin-chang Sheng, ... Qing Zhou  
Pages 455-460

Physical and coupled fully three-dimensional numerical modeling of pressurized bottom outlet flushing processes in reservoirs  
Ousmane Sawadogo, Gerrit R. Basson, Simon Schneiderbauer  
Pages 461-474

Unpaved rural roads as source areas of sediment in a watershed of the Brazilian semi-arid region  
Teresa Raquel Lima Farias, Pedro Henrique Augusto Medeiros, Joaquín Navarro-Hevia, José Carlos de Araújo  
Pages 475-485

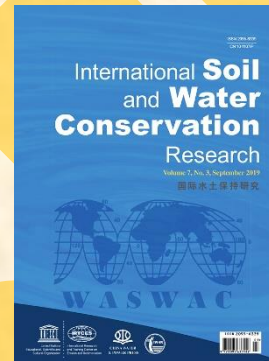
Effect of phosphatation and calcination on the environmental behaviour of sediments

Moussa Dia, Rachid Zentar, Nor-edine Abriak, Ange Nzihou, ... Alain Germeau  
Pages 486-495

Research article Full text access  
Turbulence and suspended sediment processes in the Garonne River tidal bore in November 2016  
David Reungoat, Xinqian Leng, Hubert Chanson  
Pages 496-508

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. 7, No.3, 2019)

International Soil and Water Conservation Research  
Volume 7, Issue 3  
Pages 203-316 (Sep. 2019)

Using the USLE: Chances, challenges and limitations of soil erosion modelling  
Christine Alewell, Pasquale Borrelli, Katrin Meusburger, Panos Panagos  
Pages 203-225

Effect of hysteresis on the stability of residual soil slope  
Christofer Kristo, Harianto Rahardjo, Alfredo Satyanaga  
Pages 226-238

Effect of conservation structures on curbing rill erosion in micro-watersheds, northwest Ethiopia  
Ermias Debie, Kailash N. Singh, Mehretie Belay  
Pages 239-247

Assessment of the determinants that influence the adoption of sustainable soil and water conservation practices in Techiman Municipality of Ghana  
Kwasi Adjepong Darkwah, Joana Deladem Kwawu, Frank Agyire-Tettey, Daniel Bruce Sarpong  
Pages 248-257

Effects of rice husk biochar on selected soil properties and nitrate leaching in loamy sand and clay soil  
Mohammad Ghorbani, Hossein Asadi, Sepideh Abrishamkesh  
Pages 258-265

Review of remote sensing and geospatial technologies in estimating rooftop rainwater harvesting (RRWH) quality



Masayu Norman, Helmi Z.M. Shafri, Shattri B. Mansor, Badronnisa Yusuf  
Pages 266-274

The effect of hydrogel particle size on water retention properties and availability under water stress  
Ahmad M. Abdallah  
Pages 275-285

Performance of Phragmites Australis and Cyperus Papyrus in the treatment of municipal wastewater by vertical flow subsurface constructed wetlands  
Fernando García-Ávila, Jhanina Patiño-Chávez, Fanny Zhinín-Chimbo, Silvana Donoso-Moscoso, ... Alex Avilés-Añazco  
Pages 286-296

Technosols on mining wastes in the subarctic: Efficiency of remediation under Cu-Ni atmospheric pollution  
Marina V. Slukovskaya, Viacheslav I. Vasenev, Kristina V.

Ivashchenko, Dmitry V. Morev, ... Irina P. Kremenetskaya  
Pages 297-307

Spatial distribution and source identification of heavy metals (As, Cr, Cu and Ni) at sub-watershed scale using geographically weighted regression  
Maziar Mohammadi, Abdulvahed Khaledi Darvishan, Nader Bahramifar  
Pages 308-315

Free full papers and open access are available at ScienceDirect :

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

WATER

# COMING EVENTS

## CoastLab 2020 (China, May 25-29, 2020)

**Date:** 2020/5/25 - 2020/5/29

**Venue:** Zhoushan, China

**Hosts:** Zhejiang University & Dalian University of Technology, co-organized by Sichuan University & Zhejiang Ocean University

**Summary:** On behalf of the CoastLab2020 Organizing Committees, it is our great pleasure to invite you to participate in the 8th International Conference of Physical Modeling in Coastal Science and Engineering (CoastLab2020) during the 25th -29th of May, 2020 in Zhoushan, China. CoastLab2020 is organized under the auspices of the International Association of Hydro-Environment Engineering and Research (IAHR) and will be jointly hosted by Zhejiang University, Dalian University of Technology, Sichuan University and Zhejiang Ocean University. CoastLab2020 will build on the successes of previous conferences held in Porto (2006), Bari (2008), Barcelona (2010), Ghent (2012), Varna (2014), Ottawa (2016) and Santander (2018). It will provide a stimulating and enriching forum to discuss the latest developments in physical modeling applied to coastal engineering and in new trends in coastal sciences. We are looking forward to collaborating with the Coastal and Maritime Hydraulics Committee of IAHR to host a successful CoastLab2020 in Zhoushan. (Prof. Pengzhi Lin, Prof. Zhiguo He, and Prof. Dezhi Ning)

**URL:** <http://www.coastlab2020.com/>

**Conference Email:** [coastlab2020@zju.edu.cn](mailto:coastlab2020@zju.edu.cn)

## River Flow 2020 (The Netherlands, 7-10 July 2020)

**Date:** 7-10 July 2020

**Venue:** Delft, Netherlands

**Summary:** The 10th Conference on Fluvial Hydraulics under the auspices of IAHR, River Flow 2020, will be held in Delft, Netherlands, from 7 to 10 July 2020, (with masterclasses on the 6th of July). The conference themes are: rivers in urbanised areas; climate change and extreme events; river functions under pressure; nature based solutions; the healthy river; river resources: food, energy, water; the digital river; river fundamentals.

**Deadline for abstract submission:** 15 August 2019.

**URL:** <http://www.riverflow2020.nl>

## World's Large Rivers Conference 2020 (Russia, 3-7 August 2020)

**Date:** 3-7 August 2020

**Venue:** Moscow, Russia

**Summary:** This WASER- / ISI-co-sponsored conference aims to provide a global forum for a wide-ranging discussion of key issues related to research on large rivers and to their effective and sustainable management, involving both scientists and decision makers. The conference will be organised by MSU - Lomonosov Moscow State University, Russia, and BOKU - University of Natural Resources and Life Sciences, Vienna, Austria. We kindly ask all interested authors to submit their work within the topics of - Hydrology, Hydraulics & Hydroclimatic Impacts

- Sediment Transport & River Morphology

- River Pollution, Ecology & Restoration

- Integrated River Management

Special focus will be given this time to **Climate Change** and its impact - not only in general, but also specifically related to **Russian and Arctic Rivers**.

**Supported by:** WASER World Association for Sedimentation and Erosion Research; UNESCO United Nations Educational, Scientific and Cultural Organization; IAHR International Association of Hydro-Environment Engineering and Research; IAHS International Association of Hydrological Sciences; IAG International Association of Geomorphologists

All WASER- and ISI-members can benefit from a reduction of conference fees of 10%.

**More information:**

URL: <http://worldslargerivers.boku.ac.at/wlr/>

E-Flyer:

[http://worldslargerivers.boku.ac.at/wlr/images/stories/downloads/wlr2020\\_flyer.pdf](http://worldslargerivers.boku.ac.at/wlr/images/stories/downloads/wlr2020_flyer.pdf)

## 8th International Conference on Flood Management (USA, Aug. 17-19, 2020)

**Date:** August 17 – 19, 2020

**Venue:** Iowa City, Iowa, USA

**Hosted by:** The University of Iowa, Iowa Flood Center, IIHR

**Summary:** The 8th International Conference on Flood Management (ICFM8) offers a platform to discuss a range of flood related issues and stimulate progress in the management of flood risk. The 8th International Conference on Flood Management (ICFM8) seeks to further advance global research, practice and policy in flood management. With an emphasis on 'resilience', the theme for ICFM8 marks the further progress of integrated approaches to flood management which were first embraced as the International Symposia on Flood Defence (Kassel 2000, Beijing 2002, Nijmegen 2005 and Toronto 2008), the precursor of the subsequent ICFM series (ICFM5 - Tokyo, 2011; ICFM6 - São Paulo 2014; ICFM7 - Leeds, 2017). ICFM8 will be held in Iowa City, Iowa, USA on August 17 - 19, 2020, and will be hosted by the Iowa Flood Center, a research group of the century old IIHR-Hydrosience & Engineering (IIHR) at The University of Iowa. The theme of ICFM8 is 'Lowering Risk by Increasing Resilience' and will focus on building resilience into current and future flood management strategies and approaches as envisioned by the United Nations programmatic documents Sustainable Development Goals (SDGs) and the Sendai agreement on Disaster Risk Reduction (DRR) adopted in 2015. The conference is an integral part of the week-long centennial celebrations at IIHR.

**URL:** <https://icfm2020.org/>

**Contact:** Marian Muste (marian-muste@uiowa.edu)

## 14th International Conference on Hydrosience & Engineering (Turkey, September 22-25, 2020)

**Date:** September 22-25, 2020

**Venue:** Çesme, Turkey

**Summary:** 14th of the International Conference on



Hydroscience & Engineering, ICHE 2020 will be held in Çesme, Turkey on September 22-25, 2020. The International Conference on Hydroscience & Engineering began in Washington DC in 1993, and followed by Beijing hosted ICHE in 1995, Cottbus (1998), Seoul (2000), Warsaw (2002), Brisbane (2004), Philadelphia (2006), Nagoya (2008), Chennai (2010), Orlando (2012), Hamburg (2014) Tainan (2016) and Chongqing (2018). These conferences provided a common ground researchers and engineers to report and discuss the latest scientific advancements and practitioner's solutions in hydroscience and engineering. ICHE 2020 conference aims to bring together researchers and practicing engineers to share the latest scientific and technological advancements in hydroscience and engineering, and will provide networking opportunities for future activities. Participants will be able to hear experts in the field discuss the latest achievements in in issues relevant to Hydro-Engineering for Sustainable Development.

#### Conference Themes

- Coastal and Maritime Hydraulics
- Dam Hydraulics and Safety
- Computational Hydraulics and Turbulent flows
- Water Resources and Climate Change
- Fluvial Hydraulics and Waterway Navigation
- Water Quality and Ecohydraulics
- Watershed Hydrology and Management
- Sediment Transport and Reservoir Sedimentation
- Groundwater Flow and Contaminant Transport
- Hydropower and Sustainable Energy
- Urban Flooding and Drainage
- Advances in Laboratory Measurements and Instrumentation
- Field Measurements and Data Collection

#### Key Dates

- Abstract Submission: September 1 – November 15, 2019
- Full-Paper Submission: February 1 – April 30, 2020
- Revised Full-Paper Submission: July 15, 2020
- Early Bird Registration: February 1 – July 15, 2020

**URL:** <https://www.iche2020.org/>

### 15th International Symposium on River Sedimentation (Florence, Italy, September, 2022)

**Date:** September, 2022 (Three consecutive days at the end of August / beginning of September, 2022)

**Venue:** Florence, Italy

**Organizer:** University of Florence and University of Padua

**Sponsors:** International Research and Training Center on Erosion and Sediment Research (IRTCES); World Association for Erosion and Sediment Research (WASER)

**Co-sponsors:** International Association for Hydro-Environment Engineering and Research (IAHR).....(to be invited)

**Secretariat:** University of Florence, Italy

**Permanent Secretariat:** IRTCES

**Summary:** The triennial International Symposium on River Sedimentation (ISRS) was initiated in 1980. Since its foundation, IRTCES has served as the permanent secretariat of ISRS. WASER was inaugurated at the 9th ISRS in 2004, and the ISRS has since become the official Symposium of WASER. The objective of the ISRS is to provide a forum for scientists, engineers, researchers and decision makers to exchange ideas, research results and technical advances, and to share experience and information relating to the study of sediment and its management.

#### Symposium Theme and Topics:

The theme of the symposium is Sustainable Sediment Management in a changing Environment (tentative)

The symposium topics include (tentative):

1. Sediment transport
2. Reservoir sedimentation
3. River morphodynamics
4. Coastal morphodynamics
5. Ecomorphodynamics
6. Sediment related disaster
7. Plastic in river and coastal systems
8. Interaction between sediment dynamics and hydraulic structures
9. Integrated Sediment Management at the River Basin Scale
10. Social, economic & political problems related to sediment and water management

**URL:** (to be provided)

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# World Association for Sedimentation & Erosion Research

# WASER

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**WORLD ASSOCIATION FOR  
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(Note: IJSR – International Journal of Sediment Research. The subscription fee for IJSR is USD 96 or RMB 900 per year.)

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### NOTE:

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