

World Association for Sedimentation & Erosion Research – WASER

NEWSLETTER

Reporting WASER news to you regularly

2017 No. 3

(Oct. 20, 2017)

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NEWS

Prof. Zhaoyin Wang, WASER President, receives IAHR Honorary Member Award



The 37th World Congress of the International Association for Hydro-Environment Engineering and Research (IAHR) was successfully opened at the Putra World Trade Centre, Kuala Lumpur, Malaysia on August 14, 2017. At the opening ceremony, Prof. Zhaoyin Wang was presented with the 2017 IAHR HONORARY MEMBER AWARD in recognition of his outstanding contribution to the field of sediment transport and river dynamics, and his devoted service to IAHR in various capacities, including most recently service as Vice President during the period 2011-2015. This award is the most prestigious honour conferred by the IAHR Council, and is given to only three distinguished IAHR members at each World Congress. Together with Prof. Wang, Prof. Roger Falconer from the UK and Prof. Jörg Imberger from Australia also received 2017 IAHR HONORARY MEMBER AWARDS. Because of health problems, Prof. Wang was unable to attend the Congress to receive the Award in person. His former student Prof. Mengzhen XU from Tsinghua University, Beijing, accepted the award from the present IAHR President Prof. Peter Goodwin on his behalf.

WASER Co-sponsored the 3rd World's Large Rivers Conference held in New Delhi, India



The WASER-supported 3rd "International Conference on the Status and Future of the World's Large Rivers", took place in New Delhi, India from 18th to 21st of April 2017 and was attended by more than 200 scientists and practitioners from all over the world. This series of conferences was initiated by Prof. Helmut Habersack from the University of Natural Resources and Life Sciences, Vienna, Austria, and the New Delhi Conference was organized in collaboration with the Indian National Institute of Hydrology (NIH), Roorkee. The very successful meeting included a wide-ranging scientific programme, excellent technical tours and several very enjoyable social events. The Conference series represents an important component of the UNESCO-supported World's Large Rivers Initiative, which aims to further intensify research and cooperation on large rivers and the meeting in India made a valuable contribution to furthering this important Initiative.

The pressures and impacts on the World's Large Rivers have increased greatly in recent years, as a consequence of their exploitation to meet human needs. Large rivers are particularly exposed to problems of multiple uses, often with conflicting aims. At the global scale, there is currently no overview assessment of the status of the World's Large Rivers, the conflicting demands on such rivers, and likely future anthropogenic impacts, as well as the potential for restoration and the associated problems.

The first International Conference on "The Status and Future of the World's Large Rivers" held in Vienna, Austria, in provided 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. This successful event was continued in 2014 in Manaus, Brazil on the banks of the Amazon River. Following up these conferences, a new UNESCO / IHP Initiative (WLRI - World's Large Rivers Initiative) was launched. This aims to foster a global network of programmes and partners related to research on large rivers.

One of the main tasks of this Initiative is to promote and continue the successful series of World's Large Rivers Conferences. Since invitations were received from five potential venues for the 2017 Conference, the proposals were reviewed by an International Advisory

Board which selected India and New Delhi, as the host for 2017 World's Large Rivers Conference.

The technical sessions provided up-to-date insights into the latest scientific findings on the status and problems of large rivers in the thematic fields of "Hydrology, Hydraulics and Water Quality", "Sediment Transport and Morphodynamics", "Ecology and Restoration" as well as "Integrated Management". A special focus was placed on recent developments and research on Indian rivers and the challenges that they currently face. The international and regional character of the sessions attracted a large number of local scientists and gave the opportunity for wide-ranging discussions.

During the evenings, a variety of social events were organized, allowing the Conference delegates to make contact with other scientists and researchers. The Welcome Reception on Tuesday, 18th, as well as the Conference Banquet on Friday, 21st of April, took place at the India Habitat Centre and provided a relaxed ambience in a beautiful setting. A very special event was the personal invitation extended to all conference attendees by Mrs. Dr. Dhvani Sharma, National General Secretary. This delightful garden party was also attended by Mr. Ananth Kumar, Union Minister of Parliamentary Affairs as well as Chemicals and Fertilizers, who expressed his strong interest in the World's Large Rivers focus and proposed strong cooperation with Indian ministries.

On Saturday, 22nd, and Sunday, 23rd, a large number of attendees took the chance to participate in one of the Technical Tours. The Jamuna-Tour brought the participants to the fascinating Taj Mahal situated on the banks of this important river. The second tour featured the Ganges which is the holiest Indian river. In Varanasi, the most important city in Hindu culture, the life of people is directly connected to the river.

The fourth World's Large Rivers Conference will be held in 2020/2021. The venue will be announced by the end of 2017.

More information can be found on <http://worldslargerivers.boku.ac.at>.

WASER Co-sponsored the 1st World Conference on Soil and Water Conservation under Global Change (CONSOWA) was Held in Spain

The 1st World Conference on Soil and Water Conservation under Global Change (CONSOWA)

was held from 12-16 June 2017 in Lleida (Spain). For the first time, all the main World Scientific Organizations promoting wise and sustainable use, management and conservation of soil and water, the main natural resources responsible for maintenance of life in Earth, collaborated to organize a joint Conference, christened CONSOWA.



The Conference brought together the International Soil Conservation Organization, the World Association for Soil and Water Conservation, the European Society for Soil Conservation, the International Union of Soil Science, the Soil and Water Conservation Society, the International Erosion Control Association and the World Association for Sedimentation and Erosion Research in parallel with the VIII Simposio Nacional sobre Control de la Degradación y Restauración de Suelos. Nearly 250 registered participants attended the conference. They came from 35 countries representing all continents, including: Algeria, Argentina, Australia, Austria, Belgium, Brazil, Canada, China, Chile, Colombia, Costa Rica, France, Germany, Hungary, Italy, Iran, Japan, Jordan, Mexico, Mozambique, Paraguay, Peru, Portugal, Rumania, Russia, Serbia, Spain, Switzerland, Turkey, UK, USA, and Venezuela, etc.

The main objectives of CONSOWA were:

1. To analyze the present and future global status of the conservation of soil and water resources, as influenced by Global Changes, including population growth and development, changes in land use and management, and human induced climate changes. This situation would be analyzed and discussed taking into consideration the close and critical relation of the use and management of the limited soil and water resources with present and future climate changes, natural disasters, and with food and water supply for an increasing World population.

2. To promote increased collaboration, and even a full integration of the main international scientific organizations promoting soil and water conservation research and related activities at the Worldwide level, enabling them to achieve their goals more efficiently.

The program of the Conference included 19 invited keynote plenary lectures, 87 oral presentations in 13 sessions, and 104 poster presentations in three daily sessions. In addition the programme included two discussion sessions, with the following objectives:

1. Discussion Session 1: Analysis and recommendations to address present limitations for researching and studying soil and water degradation processes and in the application of prevention and remediation practices.

2. Discussion Session 2 (Activity dedicated to the International Decade of Soils (2015-2024) proclaimed by IUSS): Setting the challenges and goals for the next decade, to prevent and counteract the predicted effects of Global Change on soil and water degradation processes, on food and water supply for an increasing World population, on environmental degradation and on natural disasters.

Additionally, the programme included 7 field trips, one pre-conference, one post-conference and five during the conference, which visited and observed different systems and practices of land use and management, and different soil and water degradation processes and effects, under both dry-land and irrigated conditions.



Prof. Zhaoyin Wang, the president of WASER, giving a keynote lecture

WASER is Co-sponsoring several International Conferences to be held in 2018

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

UNCCD's high-level segment held in Ordos, China



The high-level segment of the 13th Session of the Conference of the Parties to the Convention to Combat Desertification (UNCCD) was held in Ordos, Inner Mongolia Autonomous region, on Sept 11, 2017.

Vice-Premier Wang Yang attended the conference and delivered the congratulatory letter sent by President Xi Jinping. In the letter, President Xi affirmed the Chinese government's strong determination to fulfil the UNCCD and contribute to the reduction of global desertification.

The vice-premier said desertification is a serious problem that all human beings are facing and that no country could win the battle against desertification by itself. Wang also said the battle required enhanced international cooperation and communication for a successful outcome. Wang said China has been a pioneer in combatting desertification, as one of the developing countries that has suffered from the serious problem.

The vice-premier reviewed China's achievements in combatting desertification and eliminating poverty. He said people in Inner Mongolia are not only replacing sand and desert with grass and trees, but also developing a series of eco-friendly industries to help eliminate poverty.

"Inner Mongolia is an outstanding example of combatting desertification in China. The history of the province is also a record of combatting desertification," Wang said.

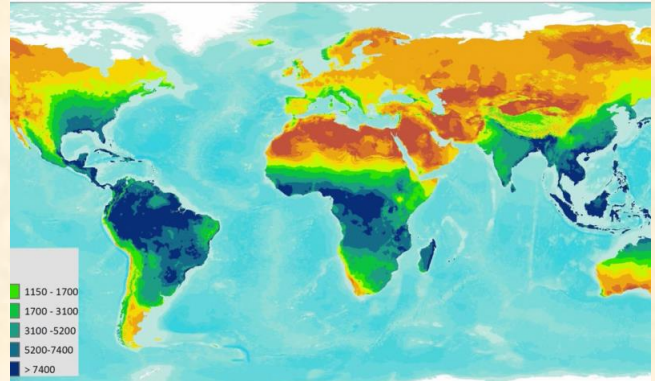
At the conference, Monique Barbut, Executive Secretary of UNCCD, said that the Belt and Road cooperative mechanism — launched on Sept 10 — would aid the realization of the conference's goals.

About 300 people from 20 countries, international organizations and NGOs attended the conference. A series of representatives expressed commitment to the UNCCD and a willingness to partake in more international cooperation and to share more information within the framework of the conference.

A representative from Civil Society, an NGO, said gender equality, especially women's access to land, should have more importance. This emphasis, she said, would greatly help the anti-desertification efforts.

(Source: <http://chinadaily.com.cn>)

Global erosivity map shows differences between climatic regions



The first ever global erosivity map gives new insights into the geography of the rain's impact on soil erosion. The underlying JRC research, published in the Nature Group's Scientific Reports, highlights differences between climatic regions and calls for global action to protect our soils.

Soil is our most important source of food. And yet, much of the world's soils are being eroded faster than they are formed.

The capacity of rain to cause soil erosion is known as erosivity. Soil erosion by water is the most serious cause of soil degradation globally. Heavy rainfall and extreme weather events aggravated by climate change increase soil erosion, which ultimately impacts on economies and people's lives.

Lack of data on rainfall erosivity patterns across the globe hampers the implementation of effective soil degradation mitigation and restoration strategies.

Responding to this shortcoming, the JRC has collected data on rainfall erosivity from 3 625 meteorological stations in 63 countries to establish the first ever Global Rainfall Erosivity Database (GloReDa) and a global erosivity map which illustrates the differences between climatic regions.

The highest rainfall erosivity is found in South America (especially around the Amazon Basin) and the Caribbean countries, Central Africa and parts of Western Africa and South East Asia. The lowest values are in mid- and high-latitude regions such as Canada, the Russian Federation, northern Europe, northern Africa, the Middle East and southern Australia.

It should be noted that high rainfall erosivity does not necessarily mean high levels of erosion, as factors such as soil characteristics, vegetative cover and land use also have an important impact on soil erosion.

The new global erosivity map is a critical input to global and continental assessments of soil erosion by water, flood risk and natural hazard prevention. It provides an important dataset for soil experts and policy makers for raising awareness on the importance of healthy soil for healthy life and for achieving the UN's Sustainable Development Goals.

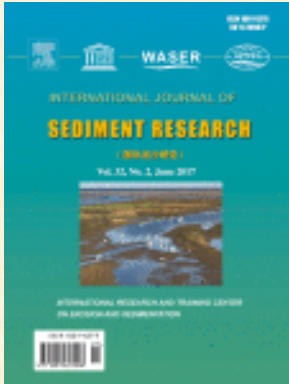
The map is publicly available and can also be used by other research groups to perform national, continental and global soil erosion modelling.

The dataset of the Global Rainfall Erosivity Database (GloREDA) can be requested for free.

More information: Panos Panagos et al, Global rainfall erosivity assessment based on high-temporal resolution rainfall records, Scientific Reports (2017). DOI: 10.1038/s41598-017-04282-8

(Source: <https://phys.org/news/>)

PUBLICATIONS



Papers Published in the International Journal of Sediment Research Volume 32, No. 3, 2017

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Phosphorus fractions and sorption dynamics in the sediments of two Ca-SO₄ water reservoirs in the central Argentine Andes

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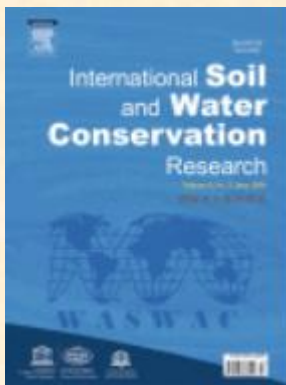
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Full papers are available at ScienceDirect:

<http://www.sciencedirect.com/science/journal/10016279> with free access to the paper abstracts.



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Free full papers and open access are available at ScienceDirect :

<http://www.sciencedirect.com/science/journal/20956339>

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/>

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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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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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13th Hydraulics in Water Engineering Conference (Australia, 13-16 November 2017)

The National Committee on Water Engineering and Engineers Australia is pleased to announce that the 13th Hydraulics in Water Engineering Conference will be held at the Dock Side, Sydney on 13-16 November 2017 (<http://hiwe2017.com.au/>). The conference will cover all aspects of Hydraulics in Water Engineering.

The Scientific Committee of the 13th Conference on Hydraulics in Water Engineering is inviting Authors to submit Abstracts to any of the following themes.

Conference Themes

- Applied Hydraulics (Best engineering practice, Risk management, Climate change adaptation, Education)
- Hydraulic structures (Conveyance structures, Dam operations, Hydropower, Flow structure interactions)
- Infrastructure (Storm water, Bridges, Pipes and pumps, Irrigation)
- Coastal Hydraulics (Ports and harbours, Shoreline protection, Geomorphology)
- Riverine Hydraulics (Rivers, Estuaries, Sediment transport, Wetlands)
- Numerical methods (Computational Fluid Dynamics, Smoothed-particle hydrodynamics, Flood forecasting)
- Environmental (Eco hydraulics, Environmental fluid mechanics, Ocean outfalls, Stratification, Water quality)
- Hydraulic Methods (Technology, Innovations, Physical modelling, Data collection, Industrial processes)

Submission Details

Download the Abstract Template provided and submit all Abstracts to toabstracts@hiwe2017.com.au by 31st March 2017. Once the Abstract has been accepted, authors are required to submit a full paper for peer review.

Further details and the Abstract Template can be found on the conference webpage: <http://hiwe2017.com.au/call-for-abstracts/>

Key Dates for your diary

Abstract submission closes 31 March 2017
Notification of acceptance of Abstracts 28 April 2017
Full papers due 23 June 2017
Final date for submission of revised full papers 15 Sept 2017
All oral presentation to be submitted October 2017
On behalf of the Local Organising Committee and the Scientific Committee
Stefan Felder (Chair of the Scientific Committee)

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://ceeess.nd.edu/iseh2018>

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

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/>

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/>

WATER

World Association for Sedimentation & Erosion Research

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