

World Association for Sedimentation & Erosion Research – WASER

NEWSLETTER

Reporting WASER news to you regularly

2017 No. 2

(July 6, 2017)

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PRESIDENT'S MESSAGE

The First World Conference on Soil and Water Conservation under Global Change (CONSOWA) was held in Lleida, Spain on June 12-16, 2017. WASER co-sponsored the conference.

Prof. Zhaoyin Wang, the President of WASER, was invited to make a speech at the opening ceremony of CONSOWA on June 12.



Speech by Prof. Zhaoyin Wang at the opening ceremony of CONSOWA

Good morning

Ladies and Gentlemen

I am very pleased to attend the First World Conference on Soil and Water Conservation under Global Change. I am very pleased to speak on the opening ceremony on behalf of the World Association for Sedimentation and Erosion Research, which is known as WASER.

WASER was established in 2004 and is an independent non-governmental, non-political, non-profit organization, free of racial, gender or national prejudice.

WASER aims to promote the understanding and application of erosion and sedimentation, through international contacts among scientists, engineers, organizations and governments. The International Journal of Sediment Research (IJSR) is jointly sponsored by WASER and UNESCO-IRTCEs.

Prof. Des Walling was the first president of WASER and Prof. Giampaolo Di Silvio was the second president of WASER. I was elected President last year and became the third president of WASER.

Soil erosion is a very important part of studying sediment. We can say: no soil erosion, no sediment transport. International and inter-organizational collaboration and cooperation are very important for its study. Therefore, WASER is willing to cooperate with all international organizations related to soil erosion and sedimentation, to share knowledge and promote the understanding of soil erosion and sediment transport. The core foci of CONSOWA (Conference on Soil and Water Conservation) are soil erosion control and water conservation, which are also key foci of WASER. We are pleased to cooperate with CONSOWA and play a role in the new forum on soil erosion research. I wish the conference of CONSOWA a great success.

Thank you.

Zhaoyin Wang, President of WASER

NEWS

WASER is Co-sponsoring the 6th International Conference on Estuaries and Coasts (ICEC-2018)

The 6th International Conference on Estuaries and Coasts (ICEC-2018) will be held in Caen, France from August 20-23, 2018. WASER is one of the Co-sponsors of ICEC-2018.

The ICEC-2018 is co-organized by the University of Caen Normandie (France) and its laboratory LUSAC, GIS HEDD (Group of Scientific Interests « Hydraulics for the Environment and for the Sustainable Development »), and the International Research and Training Center on Erosion and Sedimentation (IRTCES), in Beijing, China. The Proposed theme of the Conference is “Estuaries and Coastal Zones in times of Global Change”. Further details of the event are provided in the Coming Events section of this newsletter and WASER website.

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) in 2003. Five such conferences have now been held in Hangzhou and Guangzhou, China; Sendai, Japan; Hanoi, Vietnam; and Muscat, Oman. 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.

Two successful international conferences co-sponsored by WASER have recently been held in India and Spain

Two successful international conferences co-sponsored by WASER have recently been held in India and Spain, they are:

The International Conference on the Status and Future of the World's Large Rivers (New Delhi, India, April 18-21, 2017); and

The First World Conference on Soil and Water Conservation under Global Change (CONSOWA) (Lleida, Spain, June 12-16, 2017).

Articles recently published in IJSR: Influence of agricultural development and climate changes on the drainage valley density of the southern half of the Russian Plain

The number and quality of contributions to IJSR is increasing and the journal aims to provide both WASER members and the international community with a key source of information regarding important advances and achievements in the field of sedimentation and erosion. As just one of many possible examples, of recently published papers, reference can be made to a contribution entitled *Influence of agricultural development and climate changes on the drainage valley density of the southern half of the Russian Plain*.

The southern half of the Russian Plain is characterized by a relatively short history of intensively ploughed lands. The duration varies from approximately three centuries in the southern part of the forest zone to less than one century in some parts of the steppe zone. It was found that after cultivation, on more than 40% of lands in river basins the drainage valley density (Ddv) decreased by 15–58% in all landscape zones. In the first stage, the Ddv decrease was mostly associated with increasing surface runoff coefficient after cultivation of virgin lands with proportional decreases in groundwater runoff. In the second stage, usually after reaching areas of arable lands in river basins >60%, the volume of eroded sediments entering small river channels exceeded the transport capacities of the permanent watercourses. As a result, the river channels completely silted. In later stages, the sediment redistribution cascade within the small river basins of the Russian Plain stabilized because of the increasing proportion of sediment eroded from the basin areas and re-deposited before entering the river channels because of the increasing area of sediment sinks due to the increase in dry valley lengths and total areas. The morphological parameters of small valleys and groundwater discharges are the key parameters that affect the intensity of small river aggradation on the regional scale.

Further details of these findings can be found in the paper:

Valentin Golosov, Nadezhda Ivanova, Saniya Kurbanova, Influence of agricultural development

and climate changes on the drainage valley density of the southern half of the Russian Plain, *International Journal of Sediment Research*, Volume 32, Issue 1, March 2017, Pages 60-72.

A list of paper published in the most recent issue of IJSR is provided at the end of this Newsletter. Members are encouraged to read other recent papers and to contribute their own papers to IJSR.

NEWS FROM THE SEDIMENT WORLD

Climate Patterns from Million Years Ago: Researchers Study Sediment Deposits from the Tibetan Plateau in China



Stratification in Tibet sediment. Climate variations are reflected in color variations with the red sediment typically indicating a wetter climate and the white indicating a drier climate. "You can literally walk up time as you sample the sediment," says Carmala Garizone, a professor of earth and environmental sciences. Credit: Qingquan Meng

The Tibetan Plateau in China experiences the strongest monsoon system on Earth, with powerful winds—and accompanying intense rains in the summer months—caused by a complex system of global air circulation patterns and differences in surface temperatures between land and oceans. These extreme weather patterns make this area an ideal location for climate scientists to study the delicate interconnected web of the global climate system.

According to *Phys.org.*, researchers Carmala Garizone and Junsheng Nie studied Tibetan sediment samples which were collected from the Tibetan Plateau's Qaidam Basin. They reconstructed the paleoclimate cycle records, representing the climate patterns which are believed to have existed approx 11 to 5.3 million years ago from the late Miocene epoch of the Earth's history. Garizone is a Professor of Earth and Environmental Sciences at the University of Rochester, USA and Nie is a visiting research associate there.

The research study and the findings regarding the climate patterns from millions of years ago were published in *Science Advances*. This shows that reconstructing past atmospheric records can assist researchers to understand natural patterns as well as the ways in which future periods with cold conditions and outflows of ozone depleting substance may influence global climate systems.

The University of Rochester reported that researchers reconstructing the climate patterns also found that over the past 800,000 years, the Northern Hemisphere Ice Ages, including the ice covered areas of North America, Europe, and Asia, were associated with thick sheets of ice which occurred about every 100,000 years. Before this period,

cold periods used to occur more frequently with a cycle of every 41,000 years.

Using the sediment samples from the Qaidam Basin, Nie and Garizone show that the East Asian monsoon patterns in the late Miocene also follow similar 100,000 year cycles, with stronger monsoons peaking at 100,000 years and diminishing in the periods in between. This reveals a greater than 6 million earlier onset of these 100,000 year cycles than was previously documented.

More information: Dominant 100,000-year precipitation cyclicity in a late Miocene lake from northeast Tibet. *Science Advances*. DOI: 10.1126/sciadv.1600762 (Source: <http://www.sciencetimes.com/>).

Guide to Remediating Contaminated Sediment Sites (USA)

(March 27, 2017 by Jessica Lyons Hardcastle) In an effort to facilitate cleanups at contaminated sediment sites, the EPA has issued guidance that includes 11 recommendations to consider when evaluating and implementing response actions at these sites under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA).

The document, sent to regional administrators, does not supersede existing EPA CERCLA policy. It also includes updated Contaminated Sediment Technical Advisory Group (CSTAG) Operating Procedures.

The 11 recommendations are especially important to consider when evaluating sites contaminated with bioaccumulative contaminants that pose an "unacceptable risk" to human health resulting from the consumption of contaminated fish or shellfish, the agency says.

"Although the Directive is not legally binding, some of its recommendations may help achieve the dual goals of remedy effectiveness and cost-effectiveness, and consequently stakeholders at sediment sites should consider the Directive's recommendations when preparing Remedial Investigation and Feasibility Studies or otherwise interacting with EPA," according to the National Law Review.

This latest document follows an EPA paper published last month that provides guidance for remediation firms and other environmental managers that produce groundwater monitoring reports.

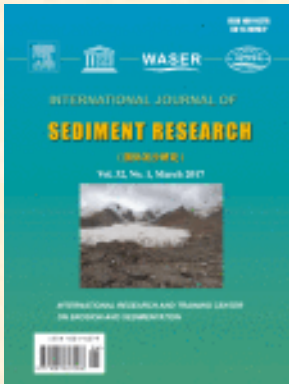
Also last fall the agency issued guidance on Consideration of Greener Cleanup Activities in the Superfund Cleanup Process. It followed an updated version of ASTM International's Standard Guide for Greener Cleanups, which the EPA helped develop.

The standard reflects EPA's Greener Cleanup Principles, including the goal of minimizing water use and impacts to water resources, and the agency encourages its

use at cleanup sites.

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

PUBLICATIONS



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Evaluating methods to quantify sediment volumes trapped behind check dams, Saldaña badlands (Spain)

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A semi-physical sediment yield model for estimation of suspended sediment in loess region

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Numerical investigation of the factors influencing the vertical profiles of current, salinity, and SSC within a turbidity maximum zone

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Evolution of the Yellow River delta, China: Impacts of channel avulsion and progradation

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Characteristics of micro-interface adsorption kinetics between sediments and Cu ions

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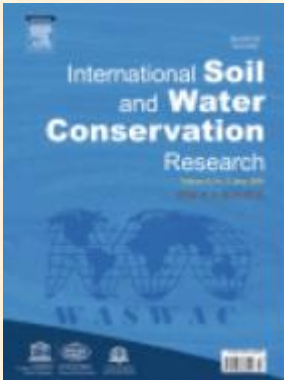
Evaluation and modification of some empirical and semi-empirical approaches for prediction of area-storage capacity curves in reservoirs of dams

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Issa E. Issa, Nadhir Al-Ansari, Govand Sherwany, Sven Knutsson

Full papers are available at ScienceDirect:

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



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(Vol. 5, No.2, 2017)**

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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/>

Contacts:

Secretariat:

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37th IAHR World Congress (Malaysia, August 13-18, 2017)

Date: August 13 - 18, 2017

Venue: Kuala Lumpur, Malaysia

Invitation: On behalf of the IAHR World Congress 2017 LOC, we are delighted to extend an invitation to you to join us in Kuala Lumpur, Malaysia for the IAHR World Congress 2017. The National Hydraulics Research Institute of Malaysia (NAHRIM), Department of Irrigation and Drainage Malaysia (DID) and the River Engineering and Urban Drainage Research Centre (REDAC), Universiti Sains Malaysia (USM) are collaborating with IAHR to organize the IAHR World Congress 2017.

The Congress theme "Managing Water for Sustainable Development - Learning from the Past for the Future" focuses on the central roles of river and sediment management, flood management, environmental hydraulics and industrial flows, coastal, estuarine and lakes management, urban water management, water resources management, and hydroinformatics / computational methods as well as experimental methods in our changing world, and how these roles link to the broader issues. Careful management and innovative solutions are required and to deal with uncertainty in the natural world as well as the changing human world. We look forward to welcoming you to Kuala Lumpur in August 2017.

Ir. Dr. Azuhan Mohamed

Director General NAHRIM

Key Dates:

Abstract Submission: August 1, 2016

Abstract Notification: November 1, 2016

Paper Submission: February 1, 2017

Paper Notification: April 1, 2017

Paper Correction: May 1, 2017

Early Bird Registration: April 30, 2017

Congress: August 13 - 18, 2017

URL: <http://www.iahrworldcongress.org/>

Contact: iaahr@iahr.org

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 abstracts@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)

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/>

World Association for Sedimentation & Erosion Research

WASER

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

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members of the WASER community and interested
experts. Please send your contributions to the
WASER Secretariat at chliu@iwhr.com.
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**WORLD ASSOCIATION FOR
SEDIMENTATION AND EROSION
RESEARCH**

MEMBERSHIP APPLICATION/RENEWAL FORM

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