

World Association for Sedimentation & Erosion Research – WASER

NEWSLETTER

Reporting WASER news to you regularly

2023 No. 3

(October 20, 2023)

IN THIS ISSUE

News

- ✧ The 15th International Symposium on River Sedimentation held in Florence, Italy 1
- ✧ The Second Meeting of the Seventh WASER Council and the WASER General Assembly held in Florence 3
- ✧ The 9th FRIEND-Water Global Conference held in Dakar, Senegal 4
- ✧ WASER Council Member Prof. Junke Guo visited IRTCES and gave an Seminar 5
- ✧ *International Journal of Sediment Research: Open Access* journal from January 2024 6
- ✧ Increased scale and accessibility of sediment transport research in rivers through practical, open-source turbidity and depth sensors 6

Publications

- ✧ Papers Published in IJSR, Volume 38, No. 5, 2023 7
- ✧ Contents of ISWCR (Vol. 11, No.3, 2023) 8

Coming Events

- ✧ The 1st IAHR and 4th CAE International Conference on Global Water Security and Sustainable Development (China, October 30-November 3, 2023) 10
- ✧ 9th Conference on Physical Modelling in Coastal Engineering - Coastlab24 (Delft, the Netherlands, May 13-16, 2024) 10
- ✧ The 15th International Conference on Hydroinformatics (China, May 27-31, 2024) 10
- ✧ The 10th International Symposium on Environmental Hydraulics (Scotland, June 25-27, 2024) 11
- ✧ River Flow 2024 (UK, Sep. 2-6, 2024) 11
- ✧ 8th International Conference on Estuaries and Coasts (Canada, August 27-29, 2024) 11

WASER membership application/renewal form 14

世界泥沙研究学会简报

本期内容

新闻

- ✧ 第十五次河流泥沙国际学术讨论会在意大利佛罗伦萨举办 1
- ✧ WASER 第七届理事会第二次会议及会员大会在佛罗伦萨召开 3
- ✧ 第九届 FRIEND-Water 全球大会在达喀尔举行 4
- ✧ WASER 理事郭俊克访问泥沙中心并做报告 5
- ✧ 《国际泥沙研究》2024 年起成为开放获取期刊 6
- ✧ 实用开源的浊度和深度传感器提升河流输沙研究的尺度和可达性 6

出版物

- ✧ 《国际泥沙研究》期刊 2023 年第 38 卷第 5 期论文目录 7
- ✧ 《国际水土保持研究》期刊 2023 年第 11 卷第 3 期论文目录 8

会议信息

- ✧ 第一届 IAHR 和第四届 CAE 全球水安全与可持续发展国际会议（中国，2023 年 10 月 30-11 月 3 日） 10
- ✧ 第九届海岸工程物理建模学术会议（荷兰，2024 年 5 月 13-16 日） 10
- ✧ 第十五届国际水文信息学会议(中国，2024 年 5 月 27-31 日) 10
- ✧ 第十届环境水力学国际学术研讨会（苏格兰，2024 年 6 月 25-27 日） 11
- ✧ 第十二届国际河川水力学会议（英国，2024 年 9 月 2-6 日） 11
- ✧ 第八届河口海岸国际研讨会（加拿大，2024 年 8 月 27-29 日） 11

WASER 会员申请/续新表 14

NEWS

The 15th International Symposium on River Sedimentation held in Florence, Italy

The 15th International Symposium on River Sedimentation (ISRS) was held in Florence, Italy, from September 5 to 8, 2023, with more than 200 delegates from more than 20 countries and regions around the world. The International Symposium on River Sedimentation is a triennial series of academic activities sponsored by the International Research and Training Center on Erosion and Sedimentation (IRTCES) and the World Association for Sedimentation and Erosion Research (WASER), with the permanent secretariat of the meeting located in IRTCES. The 15th ISRS was jointly organized by the University of Florence and the University of Padua, Italy. The theme of the conference was "Sustainable Sediment Management in a Changing Environment", which included topics such as sediment and pollutant transport; morphodynamics; ecohydraulics; sediment related disasters and climate change; reservoir sedimentation, interactions between sediment and hydraulic structures; sustainable sediment management at the river-coastal basin scale, and social, economic & political issues related to sediment and water management.



15th International Symposium on River Sedimentation

The 15th International Symposium on River Sedimentation was officially opened on September 6 in Florence. Seven welcome speeches were made by Prof. Claudio Lubello, Director of the Department of Civil and Environmental Engineering at the University of Florence, Prof. Luca Solari also from the same Department, Prof. Helmut Habersack, University of Natural Resources and Life Sciences, Vienna, President of WASER, Prof. Guangquan Liu, IRTCES

professor, Secretary General of WASER, Prof. Isabella Bonamini, Northern Apennines River Basin District Authority, Prof. Sara Di Maio, Italian National Association of Land Reclamation in Tuscany, and Prof. Leonardo Rossi, water management company Publiacqua SpA. They welcomed experts, scholars and young researchers from all over the world to meet, exchange experiences, share knowledge, and jointly promote the progress of research and management practices for addressing river sediment problems in the world under a changing environment. The opening ceremony was chaired by Prof. Luca Solari, Department of Civil and Environmental Engineering, University of Florence.



Welcome speeches at the Opening Ceremony



Prof. Enrica Viparelli

The conference included 5 keynote reports and more than 120 technical presentations. The conference keynote reports included:

- Prof. Zhaoyin Wang and Prof. Mengzhen Xu (China): Delta development and artificial land creation with sediment;
- Prof. Enrica Viparelli (USA): Role of bed level variability on tracer dispersal in an equilibrium bed;

- Prof. Marcelo H. Garcia (USA): Entrainment, transport and mixing of fine iron mine tailings in the Paraopeba River, Brazil;
- Prof. Junke Guo (USA): Modelling river bedform evolution;
- Research Engineer Alain Recking (France): Accounting natural variability in 1D bedload prediction: a field case study;



Prof. Junke Guo



Prof. Mengzhen Xu



Research Engineer Alain Recking

On the afternoon of September 7th, Prof. Guangquan Liu, Secretary General of WASER, announced that the 16th ISRS will be hosted by the University of Nebraska-Lincoln, in Omaha, USA in 2025. Prof. Guangquan Liu received the banner of the Symposium from Prof. Luca Solari, the representative of the Local Organizing Committee,

and then handed it over to Prof. Junke Guo, the representative of the next organizer.

A technical visit was organized on September 8th, where delegates visited the Bilancino Lake in the northwest of the city of Florence, the San Niccolò weir on the Arno River in the city center and the new power plant, where they learned about water supply and hydroelectric power generation in the city of Florence, as well as technologies related to sediment management in urban water landscape design, biodiversity conservation and efficient use of water resources.



ISRS Symposium banner hand over

On the afternoon of September 8th, the 15th ISRS was closed. Prof. Luca Solari, Department of Civil and Environmental Engineering, University of Florence, hosted and summarized the meeting on behalf of the Local Organizing Committee, and Prof. Guangquan Liu, Secretary General of WASER, thanked the University of Florence and the University of Padua for their efforts in making the Symposium a success, and welcomed the delegates to meet again in Omaha, USA, in 2025!



Group photo of the attendees

The Second Meeting of the Seventh WASER Council and the WASER General Assembly held in Florence

The second meeting of the seventh Council of the World Association for Sedimentation and Erosion Research (WASER) was held in Florence on September 5, 2023. The Council Meeting was attended by 8 members representing the seventh Council, as well as several observers. Prof. Helmut Habersack presided over the meeting.

Three reports were presented at the Council Meeting. These included the President's report by Prof. Zhaoyin Wang (presented by Prof. Cheng Liu); the Treasurer's report by Prof. Cheng Liu; and a report on the work of the Secretariat during the period 2019-2022 and the work plan for 2022-2025 presented by Prof. Guangquan Liu. In addition, a summary of the minutes of the online Council meeting held in December 2012 was presented by Dr. Ying Zhao, an overview of the forthcoming 8th ICEC (Québec City, Canada, 2024) was presented by Prof. Weiming Wu, and an overview of the 16th ISRS (Omaha, Nebraska, USA, 2025) was provided by Prof. Junke Guo.

Issues related to the future development of the Association, the ISRS and the ICEC and the co-sponsoring of international conferences were also discussed at the meeting. Discussion of the future of WASER and actions to increase its visibility focused on a number of themes, including: (1) the need to attract more participants from the continents and countries which are currently not well represented; (2) the possibility of holding the ICEC and ISRS conferences concurrently in the future; (3) the production of four special WASER publications on sediment research and management.

The WASER General Assembly was held during the 15th International Symposium on River Sedimentation (15th ISRS) in Florence, Italy on September 7, 2023. The WASER President, Prof. Helmut Habersack chaired the Assembly and delivered his Presidential address. He reviewed the objectives and development of the Association and also provided details of the four publications proposed at the recent Council Meeting to promote the future development of WASER. The WASER Vice President Prof. Cheng Liu gave a presentation entitled "WASER and its Establishment", introducing the original intentions, the process and the timing of the establishment of WASER; the successive Presidents and Council Members of the Association; the international conferences staged; the international training workshops organised, the International Awards; the development of the IJSR and the work of the Secretariat.

Awards including the WASER Honorary Membership Awards and the Best Paper Awards of the International Journal of Sediment Research

(IJSR) were presented at the Assembly. Prof. Giampaolo Di Silvio of Italy, Academician Chunhong Hu and Prof. Zhaoyin Wang of China were awarded Honorary Membership of the Association, and three papers published by authors from China, Saudi Arabia, and New Zealand in IJSR received the Best Paper Awards.



Council meeting at Florence on September 5th



President and Treasurer report by Prof. Cheng Liu



Secretariat work report by Prof. Guangquan Liu



Overview of 8th ICEC by Prof. Weiming Wu



Presentation of Honorary Membership Awards



Overview of 16th ISRS by Prof. Junke



Presentation of IJSR Best Paper Awards



Group photo of the council meeting



"WASER and its Establishment" presentation by the vice president Prof. Cheng Liu

The 9th FRIEND-Water Global Conference held in Dakar, Senegal during September 25 - 29, 2023

The 9th FRIEND-Water Global Conference was held from September 25 to 29, 2023 in Dakar, Senegal at the University Cheikh Anta Diop. About 150 academics, researchers, and students Scientists gathered in Dakar from across the subregion and around the world to share their knowledge, results, ideas and discussions about hydrological sciences. The scientific program included symposia, workshops, lectures and special events. Totally 131 presentations were made in 5 topics, which are: Ecohydrology, Climate change and water resources resilience, Bridging the data-knowledge gaps in hydrology, Spatial hydrology, and Large rivers management. The FRIEND IHP-IX workshop was held on September 28 for discussion on the future of the FRIEND-Water programme. Two training workshops, Early warning systems for hydrological extremes and hydrometry and Ecohydrology and vulnerability modelling, were organized on September 29 and September 30 to October 3, respectively.



FRIEND-Water (Flow Regime from International Experimental and Network Data) is an international collaborative network of experts of the UNESCO Intergovernmental Hydrological Programme (IHP). Established in 1985, it aims to generate new understanding about regional hydrology and multi-scale water cycle processes. FRIEND-Water is investigating long-term variations and changes in hydrological regimes to better understand the climate and river basin controls, as well as influence of humans on the spatial and temporal distribution of water. The FRIEND-Water initiative is currently structured in 8 regional groups: West and Central Africa, Europe, Mediterranean, Latin America and Caribbean, Southern Africa, Asia Pacific, Nile, Congo.

The FRIEND-Water programme complements and interacts with many national and international projects and initiatives: the Ecohydrology-IHP, the International Sediment Initiative (ISI), the International Drought Initiative (IDI), the International Floods Initiative (IFI), the Global Network on Water and Development Information for Arid Lands (GWADI), the WMO/GWP Integrated Drought Management Programme (IDMP), the World's Large Rivers Initiative (WLRI), among others.

The Global FRIEND conference takes place every 4 years with previous venues including Norway, Germany, Slovenia, South Africa, Cuba, Morocco, France and China.

Prof. Cheng Liu and Prof. Hongling Shi from the International Research and Training Center on Erosion and Sedimentation (IRTCES) and the ISI Secretariat attended the 9th FRIEND-Water Global Conference and made a presentation 'The International Sediment Initiative (ISI) and its case studies on sediment management in river basins'. During the conference, they had discussions on ISI activities and future collaborations with Dr. Koen Verbist from UNESCO IHP Secretariat, Dr. Stephan Dietrich from the International Centre for Water Resources and Global Change, Dr. Eric Servat from the International Center for Interdisciplinary Research on Water Systems Dynamics (ICIREWARD), Prof. Mohamed Meddi a

6th term Council member of WASER and other participants.



WASER Council Member Prof. Junke Guo Visited IRTCES and Gave an Seminar

On July 14, WASER Council Member Prof. Junke Guo from the University of Nebraska-Lincoln visited the International Research and Training Center on Erosion and Sedimentation (IRTCES), and was invited to give a seminar on the "General Unit Hydrograph Model" at the China Institute of Water Resources and Hydropower Research (IWHR). Prof. Guo is the hosting chair of the forthcoming 16th International Symposium on River Sedimentation (ISRS) which is sponsored by IRTCES and WASER. Prof. Guo discussed some details of the preparation work for the 16th ISRS with WASER Secretariat members.

In his seminar, Prof. Guo first introduced how he created the general unit hydrograph (UH) model, inspired by the COVID-19 data and in terms of scientific method (induction) and the linear hydrologic systems theory (deduction). He next demonstrated how to apply the general UH model in real-world watershed processes. Prof. Guo then tested the general UH model with LiQin Qu's laboratory watershed data from a Chinese Academy of Sciences Laboratory and the Istanbul Technical University in Turkey. Subsequently, Prof. Guo discussed how to apply the general UH model in small watershed applications. Finally, he provided a brief overview of the applications of the

general UH model to marathon finish time distributions and other fields.

After his presentation, Prof. Guo and the participants had a lively discussion on the calibration of watershed parameters in the General Unit Hydrograph Model, the spatial scale of the application, the prospects for the model in the fields of sedimentation and reservoir scheduling, as well as further insights from research work.



International Journal of Sediment Research:
Open Access journal from January 2024

From January 2024, authors who publish in the *International Journal of Sediment Research* will be able to make their work immediately, permanently, and freely accessible. The *International Journal of Sediment Research* continues with the same aims and scope, Editorial team, submission system and rigorous peer review.

This move will facilitate universal access to the high-quality research published in the *International Journal of Sediment Research*, ensuring it is freely available and readily accessible without any restrictions. With this move to OA, the journal will no longer charge subscription fees and will instead be supported by Article Processing Charges (APC).

Please note: Authors who submitted their papers on or before December 31, 2023, will have their accepted article published in the *International Journal of Sediment Research* at no charge. Authors submitting their papers after this date will be requested to pay the APC.

(Source: *International Journal of Sediment Research*)

Increased scale and accessibility of sediment transport research in rivers through practical, open-source turbidity and depth sensors

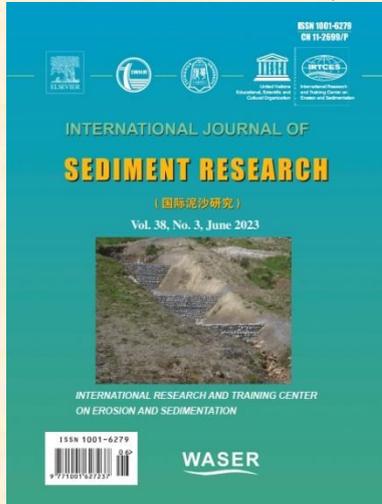
Abstract: Open-source designs for turbidity and depth sensors are becoming increasingly capable and available, but the knowledge required to construct them limits their use compared with expensive, commercial sensors. Here we present an open-source optical backscatter and water pressure sensor that can be ordered almost fully assembled, requires no coding to deploy and costs approximately 50 USD. We share three examples of these sensors' ability to facilitate new research. First, we observed complex changes in spatial and temporal patterns of suspended sediment transport in the Arctic Sagavanirktok River using a network of sensors. Second, we measured turbidity during the freeze-up period in the Tanana River, a period of high risk to sensors. Last, we built and deployed sensors with middle-school students to monitor turbidity under full ice cover on the Tanana River. The success of open-source sensors in these examples shows a marked increase in scale and accessibility of river science.

More information: Langhorst, T., Pavelsky, T., Eidam, E. et al. Increased scale and accessibility of sediment transport research in rivers through practical, open-source turbidity and depth sensors. *Nature Water* 1, 760–768 (2023). <https://doi.org/10.1038/s44221-023-00124-2>

(Source: <https://www.nature.com/articles/s44221-023-00124-2>)

PUBLICATIONS

Papers Published in the International Journal of Sediment Research Volume 38, No. 5, 2023



Volume 38, No.5, 2023
Pages 629-780 (October 2023)

[Sand wave migration near the southeastern corner of Martha's Vineyard, Massachusetts, USA](#)

Vinícius Santos Pessanha, Peter Cheng Chu, Matthew Kenneth Gough, Peter Traykovski, Mara Morgenstern Orescanin
Pages 629-642

[Study of gravitational sedimentation of flexible, permeable circular and planktonic particle applying the immersed boundary method](#)

Rekha Panghal, Sudeshna Ghosh
Pages 643-652

[Analysis of the sediment sources of flood driven erosion and deposition in the river channel of the Fu River Basin](#)

Shanghong Zhang, Xujian Hu, Wei Miao, Zan Xu
Pages 653-661

[A framework approach to address the trend and causes of flood stage change in a river reach downstream of a dam influenced by tributaries](#)

Zhaohua Sun, Shanshan An, Xinyue Zhou, Zhiqing Li, Lei Zou
Pages 662-672

[The Igarapé Weir decelerated transport of contaminated sediment in the Paraopeba River after the failure of the B1 tailings dam \(Brumadinho\)](#)

Daniela Patrícia Salgado Terêncio, Fernando Antônio Leal Pacheco, Renato Farias do Valle Junior, Maytê Maria Abreu Pires de Melo Silva, ... Luís Filipe Sanches Fernandes
Pages 673-697

[Modeling uncertainties of reservoir flushing simulations](#)

Camila Bergmann Goulart, Tobias Bleninger, Hugo de Oliveira Fagundes, Fernando Mainardi Fan
Pages 698-710

[Improving hydrodynamic modeling of river networks by incorporating data assimilation using a particle filter](#)

Chenhui Jiang, Dejun Zhu, Haobo Li, Xiaoqun Liu, Danxun Li
Pages 711-723

[Historical fluxes of metal and metalloids in an aquatic ecosystem affected by land-use change and mining activities in northwestern Mexico](#)

Ochoa-Contreras Roberto, Jara-Marini Martín Enrique, Ruiz-Fernández Ana Carolina, Sanchez-Cabeza Joan Albert, ... Pérez-Bernal Libia Hascibe
Pages 724-738

[Rapid magnetic susceptibility measurement as a tracer to assess the erosion–deposition process using tillage homogenization and simple proportional models: A case study in northern of Morocco](#)

Abdessalam Ouallali, Naima Bouhsane, Saidati Bouhlassa, Mohamed Moukhchane, ... Habiba Aassoumi
Pages 739-753

[Diagenetic signatures in the deltaic and fluvial-estuarine Messinian sandstone reservoirs in the](#)

[Nile Delta as a tool for high-resolution stratigraphic correlations](#)

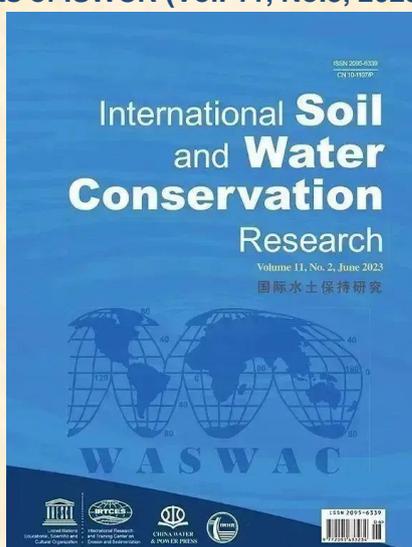
Mahmoud Leila, Andrea Moscariello, Dustin Sweet, Branimir Šegvić
Pages 754-768

[Experimental investigation of sediment transport in partially ice-covered channels](#)

Mina Rouzegar, Shawn P. Clark
Pages 769-779

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. 11, No.3, 2023)



Volume 11, Issue 3
Pages 415-588 (September 2023)

[MINErosion 4: Using measurements from a tilting flume-rainfall simulator facility to predict erosion rates from post-mining catchments/landscapes in Central Queensland, Australia](#)

Ashraf M. Khalifa, Hwat Bing So, Hossein Ghadiri, Chris Carroll, ... Bofu Yu
Pages 415-428

[Remote sensing of soil degradation: Progress and perspective](#)

Jingzhe Wang, Jianing Zhen, Weifang Hu, Songchao Chen, ... Xiaodong Yang
Pages 429-454

[A WEPP-Water Quality model for simulating nonpoint source pollutants in nonuniform agricultural hillslopes: Model development and sensitivity](#)

Ryan P. McGehee, Dennis C. Flanagan, Bernard

A. Engel
Pages 455-469

[Estimating the annual runoff frequency distribution based on climatic conditions and catchment characteristics: A case study across China](#)

Ziwei Liu, Hanbo Yang, Taihua Wang, Dawen Yang
Pages 470-481

[Magnitude, direction, and drivers of rhizosphere effect on soil nitrogen and phosphorus in global agroecosystem](#)

Andong Cai, Shengnan Tang, Muhammad Ahmed Waqas, Bin Wang, ... Tianjing Ren
Pages 482-493

[Novel sediment source fingerprinting quantifying erosion-induced total nitrogen and total phosphorus outputs from an intensive agricultural catchment, North China](#)

Hanqing Yu, Joseph Adu-Gyamfi, Suarau Odutola Oshunsanya, Adrian Chappell, ... Lee Heng
Pages 494-506

[Spatiotemporal variations and determinants of stream nitrogen and phosphorus concentrations from a watershed in the Three Gorges Reservoir Area, China](#)

Jun Deng, Yiwen Zhou, Lin Chu, Yujie Wei, ... Cuiting Dai
Pages 507-517

[Wind erosion from crusted playa surfaces by no saltation and with saltation: A comparison through laboratory wind tunnel experiments](#)

Guoming Zhang, Li Li, Wenjian Tang, Lianyou Liu, ... Jiadong Dai
Pages 518-527

[Long-term conservation tillage results in a more balanced soil microbiological activity and higher nutrient supply capacity](#)

Priyo Adi Nugroho, Katalin Juhos, Nándor Prettl, Balázs Madarász, Zsolt Kotroczó
Pages 528-537

[Potential of roots and shoots of Napier grass for arresting soil erosion and runoff of mollisols soils of Himalayas](#)

Sushma Tamta, Akhilesh Kumar, Daniel Prakash Kushwaha
Pages 538-548

[Vegetation characteristics and soil properties in grazing exclusion areas of the Inner Mongolia desert steppe](#)

Wenbang Gao, Hongtao Jiang, Shuai Zhang, Chunxing Hai, Baoyuan Liu
Pages 549-560

[Variations of soil organic carbon fractions in response to conservative vegetation successions on the Loess Plateau of China](#)

Muhammad Imran Ghani, Jing Wang, Peng Li, Shamina Imran Pathan, ... Hamada Abdelrahman
Pages 561-571

[Redistribution process of precipitation in ecological restoration activity of Pinus sylvestris var. mongolica in Mu Us Sandy Land, China](#)

Yiben Cheng, Hongbin Zhan, Wenbin Yang, Wei Feng, ... Ruifang Hao
Pages 572-585

[Call for joint international actions to improve scientific understanding and address soil erosion and riverine sediment issues in mountainous regions](#)

Fan Zhang, Baoyuan Liu, Liping Zhu, Richard Cruse, ... Shaoshan An
Pages 586-588

Free full papers and open access are available at ScienceDirect :

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

WATER

COMING EVENTS

The 1st IAHR and 4th CAE International Conference on Global Water Security and Sustainable Development (China, October 30-November 3, 2023)

Date: October 30-November 3, 2023

Venue: Nanjing, China

Summary: The 1st IAHR and 4th CAE International Conference on Global Water Security and Sustainable Development will be held by the Yangtze Institute for Conservation and Development, Hohai University and Nanjing Hydraulic Research Institute in Nanjing (China) from October 30th to November 3rd, 2023. The successful development of global water security faces significant challenges. These challenges require close cooperation between scientists, engineers, water resources managers and policy makers. In this regard, the conference will provide a forum bringing together participants from academia, consulting firms, local, provincial and national government agencies, and offering them an opportunity to interact in an informal and relaxed environment. The conference will also provide students with an opportunity to discuss their interests with renowned and well-established researchers and professionals in this field.

Themes:

1. Hydro-environmental Modelling and Assessment:
2. Hydro-biological Processes:
3. Hydro-morphological Processes:
4. Groundwater Transport Processes:
5. Groundwater Transport Processes:
6. Nature-Based Solutions:
7. Disaster Risk Reduction and Resilience:
8. Climate Change and Population Growth Impacts:
9. Digital Water Transformation:
10. Data Technologies:
11. Design of Storage Facilities, Coastal Basins and Desalination Plants:
12. Agricultural and Aquaculture Developments:
13. Water-Food-Energy Nexus:
14. Water Transfer and Governance:
15. Externalities of Engineering:

URL: <https://icgws2023.iahr.org/en/web/index/266>

Organization & Contacts:

Yangtze Institute for Conservation and Development
Hohai University

Nanjing Hydraulic Research Institute

Contacts

Email: gws2023@yicode.org

9th Conference on Physical Modelling in Coastal Engineering - Coastlab24 (The Netherlands, May 13-26, 2024)

Date: May 13-16, 2024

Venue: Delft, the Netherlands

Summary: The 9th Conference on Physical Modelling in Coastal Engineering - Coastlab24 will be held in May 13, 2024 to May, 16 2024. Welcome to join in! The following is the detailed introduction: CoastLab is a conference whose focus is on Physical Modelling in Coastal Engineering and Science. CoastLab is organized under the auspices of and in collaboration with the Coastal and Maritime Hydraulics Committee of the International Association of Hydro-Environment Engineering and Research (IAHR). Coastlab24 builds on the success of previous conferences in Porto (2006), Bari (2008), Barcelona (2010), Ghent (2012), Varna (2014), Ottawa (2016), Santander (2018) and Zhoushan (2020).

Theme and Topics: In the coastal zone, many developments are taking place, with much attention to themes like:

- Climate change impacts, adaptation, mitigation
- Multifunctional and nature-inclusive designs
- Development of ports and marine terminals
- Wave, wind and tidal energy
- Industrial outfalls

To cater for these developments continuous development in modelling capabilities is required, in topics such as:

- Coastal hydrodynamics, coastal processes
- Coastal flooding, flood prevention, shore protection
- Coastal and ocean structures, breakwaters, revetments
- Scour, sediment transport, morphology
- Wave-structure interactions, loading, response
- Wave run-up and overtopping
- Laboratory technologies, measurement systems
- Synoptic measurement systems (e.g. laser scanning, imaging, motion tracking, Particle Image Velocimetry)
- Coastal field measurement and monitoring
- Wave synthesis, generation, and analysis
- Scale effects and uncertainty analysis
- Composite modelling and validation (physical, numerical, field, and AI)
- Extreme events – assessment and mitigation
- Tsunami hydrodynamics, impacts, and mitigation
- Mixing, water quality
- Physical modelling case studies
- Navigation, ship motions

Presentations will be given, and discussions will be held about these topics. The programme includes PhD workshops, welcome reception, technical tour plus banquet, and optional post conference tour. Moreover, an exhibition with companies and suppliers will be present.

Key dates:

Early-bird registration deadline 15 January 2024

Abstract submission deadline 1 September 2023

Notification acceptance 15 October 2023

Full paper submission deadline 15 December 2023

Conference 13-16 May 2024

URL: <https://coastlab24.dryfta.com/>

The 15th International Conference on Hydroinformatics (Beijing, China, May 27-31, 2024)

Date: May 27-31, 2024

Venue: Beijing, China

Organizer: Ministry of Water Resources (MWR) of People's Republic of China & China Institute of Water Resources and Hydropower Research (IWHR)

Invitation: Ministry of Water Resources (MWR) of People's Republic of China and China Institute of Water Resources and Hydropower Research (IWHR) are pleased to invite the international Hydroinformatics community to the 15th International Conference on Hydroinformatics – HIC 2024, held in Beijing, China, on 27 – 31 May 2024. Hydroinformatics is defined as the study of the flow of information and the generation of knowledge related to the dynamics of water in the real world, through the integration of modelling, information technologies and artificial intelligence considering sustainability and social implications for decision support and smart management of water-based systems. International Conference on Hydroinformatics (HIC) has a long

tradition, dating back to 1994 for its first edition. The next 15th HIC 2024 will celebrate its 30th anniversary and the development of a vivid Hydroinformatics community. The conference will serve as a perfect venue and platform for practitioners, engineers, researchers, scientists, managers and decision makers from Europe, Oceania, and Americas to meet their Asian counterparts to exchange the most recent developments in the Hydroinformatics field and the most urgent water related issues.

Theme and Topics: From Nature to Digital Water: Challenges and Opportunities

List of main topics:

- Technologies for water management and monitoring
- Big-data, knowledge, and water data management
- Emerging solutions in modelling methods (AI, high performance computing, cloud computing).
- Digital transformation of urban water systems
- Hydraulic and hydrological modeling
- Climate change impacts
- Environmental and coastal hydroinformatics
- Complex water systems, remote sensing and control
- COVID-19 pandemic reflected in hydroinformatics
- Water – Energy – Food nexus
- Innovation in education and training in hydroinformatics

URL: <https://hic2024.scimeeting.cn/>

Contacts: Ms. Jenny LU

Address: A-1 Fuxing Road, Haidian District, Beijing, China

Tel: +86 10 68781345

E-mail: contact@hic2024.org

The 10th International Symposium on Environmental Hydraulics (Scotland, June 25-27, 2024)

Date: 25 – 27 June 2024

Venue: Aberdeen, Scotland

Invitation:

We are pleased to announce that the 10th International Symposium on Environmental Hydraulics (ISEH) will be held in Aberdeen, Scotland on the 25 – 27 June 2024. Sponsored by the International Association of Hydro-Environment Engineering and Research (IAHR), the 10th ISEH will build on the success of previous ISEH symposia in bringing together international experts to present and discuss new research, technical innovations and case studies relating to the symposium's theme "environmental hydraulics for a sustainable and resilient future". The Fluid Mechanics Research Group at the University of Aberdeen are proud to host the event, bringing the symposium to the UK for the first time in its history, and to Europe for the first time since the 6th ISEH held in Athens in 2010. It will be held within the University's historic Old Aberdeen campus, providing an ideal setting in which to share knowledge and to meet old and new friends. We very much look forward to extending a warm Scottish welcome to you in June 2024.

URL: <https://abdn.eventsair.com/iseh2024/>

Contacts:

For general enquiries please contact the event administrators, CPD & Events Services

Research and Innovation, Room 28,

University Office,

King's College,

Aberdeen, AB24 3FX,

Scotland

Call Us: +44(0)1224 272523

Email: iseh2024@abdn.ac.uk

River Flow 2024 (UK, Sep. 2-6, 2024)

Date: 2-6 September 2024

Venue: Liverpool, UK

Summary: The 12th Conference on Fluvial Hydraulics under the auspices of IAHR, River Flow 2024, will be held 2-6 September 2024 in Liverpool, UK. Organized since 2002 under the auspices of the Fluvial Hydraulics Committee of the International Association for Hydro-Environment Engineering and Research (IAHR), the River Flow Conference Series has become one of the main international forum for dissemination of research and industrial practice on fluvial hydraulics and river engineering. Following on the tradition and success of previous editions of River Flow conferences, River Flow 2024 will feature a day devoted to Master Classes for young researchers, daily keynote lectures, ample time for the presentation and discussion of accepted contributions (full papers and extended abstracts), and the presentation of the Stephen E. Coleman Award distinguishing the best paper first authored by a young researcher.

Topics:

The conference will as well cover issues related, but not limited to:

1. River morphodynamics and management
2. Hydraulic structures and impacts on local and catchment sediment transport, flow regime and ecology
3. Sediment, pollutant and microplastic dynamics in rivers
4. Fluid Mechanics, numerical modelling and two-phase flow
5. Climate change and adaptation
6. Monitoring techniques and AI?

URL: <https://www.ljmu.ac.uk/conferences/river-flow>

Contacts:

If you have questions, please do not hesitate to e-mail or call: RF2024@ljmu.ac.uk.

Dr Iacopo Carnacina

Email: i.carnacina@ljmu.ac.uk

8th International Conference on Estuaries and Coasts (Canada, August 27-29, 2024)

Date: August 27-29, 2024

Venue: Quebec City, Canada

Organizers: Hydraulic and Environmental Research Groups of INRS (Canada); Clarkson University (USA)

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)

Secretariat: Hydraulic and Environmental Research Groups of INRS (Canada)

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). Seven such conferences were held in Hangzhou and Guangzhou, China; Sendai, Japan; Hanoi, Vietnam; Muscat, Oman; Caen, France; and Shanghai, China in 2003, 2006, 2009, 2012, 2015, 2018 and 2021, respectively. 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 8th International Conference on Estuaries and Coasts (ICEC 2024) will be held in Quebec City, Canada during August 27-29, 2024. The ICEC 2024 will provide a venue for intellectual and enlightening

discussions of ideas. The conference program will be broad with topics. The local program and advisory committees are working to prepare an exciting and outstanding conference. Academics, government organizations, industrial partners and interested citizens are invited to attend this conference. We look forward to welcoming you for our next conference in the beautiful city of Quebec! -The ICEC organizing committee

Theme:

Resilient Estuaries and Coastal Zones under Global Challenges

Topics of the Conference:

1. Saline intrusion and sea level rise: measurements, modelling and forecasting;
2. Waves, storm surges and tsunamis: measurements, modelling, forecasting and warning systems;
3. Estuarine and coastal flows and their evolution by climate change;
4. Sediment transport and morphological change in estuaries and coastal zones;
5. Megacity developments under the threat of sea level rise and climate change;
6. Environment and ecosystem changes in estuaries and coastal zones;
7. Integrated coastal zone management for sustainable developments in the context of global change;
8. Impacts of watershed developments on estuaries and coastal zones;
9. Shoreline protection and beach nourishment;
10. Interactions between estuarine and coastal systems;
11. Resilient engineering solutions in estuaries and coastal zones.

URL: <https://icec2024.org/en>

Contacts:

Quebec Conference Secretariat
Conferium2828 Laurier Blvd.
Quebec City, Quebec
G1V 0B9
Canada

Phone: +1 418 522 8182

Toll free (Canada and U.S.): +1 800 618 8182

Monday to Friday - 09:00 to 16:00 U.S. / Canadian Eastern Time

Email: icec2024@conferium.com

World Association for Sedimentation & Erosion Research

WASER

WASER COUNCIL

President

Habersack, Helmut Austria

Vice Presidents

Dey, Subhasish India
Liu, Cheng China
Wu, Weiming USA

Council Members

Brils, Jos The Netherlands
Golosov, Valentin Russia
He, Qing China
Melville, Bruce New Zealand
Minella, Jean Brazil
Solari, Luca Italy
van der Waal, Benjamin South Africa
Xu, Mengzhen China

Ex-officio Council Member

Fang, Hongwei IJSR Chief Editor
Liu, Guangquan Secretary-General
Zhang, Wensheng Representative of Dept.
of Hydrology, MWR

Co-opted Council Members

Di Silvio, Giampaolo Past President
Walling, Desmond E. Past President
Wang, Zhaoyin Past President
Guo, Junke 16th ISRS LOC

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
P.O. Box 366, 20 Chegongzhuang West Rd.
Beijing, 100048, China
Fax: +86-10-68411174
<http://www.irtces.org/>

CONTACTS

Prof. LIU Guangquan
Secretary-General
P.O. Box 366, 20 Chegongzhuang West Rd.
Beijing, 100048, China
Tel: +86-10-68786410(O) Fax: +86-10-68411174
E-mail: gqliu@iwahr.com

Prof. LIU Cheng
Executive Secretary-General
P.O. Box 366, 20 Chegongzhuang West Rd.
Beijing, 100048, China
Tel: +86-10-68786410(O) Fax: +86-10-68411174
E-mail: chliu@iwahr.com; cliu.beijing@gmail.com

Prof. SHI Hongling
Treasurer
P.O. Box 366, 20 Chegongzhuang West Rd.
Beijing, 100048, China
Tel: +86-10-68786408(O) Fax: +86-10-68411174
E-mail: shihl@iwahr.com;

Dr. ZHAO Ying
Secretary
P.O. Box 366, 20 Chegongzhuang West Rd.
Beijing, 100048, China
Tel: +86-10-68786412(O) Fax: +86-10-68411174
E-mail: zhaoying@iwahr.com;

WASER URL: <http://www.waser.cn>

=====

Newsletter Editor: Zhao Ying
P.O. Box 366, 20 Chegongzhuang West Rd.
Beijing, 100048, China
Fax: +86-10-68411174
E-mail: zhaoying@iwahr.com

Advisor: Prof. Des. E. Walling

Newsletter Layout and Production:

WASER Secretariat
The WASER Newsletter is sent regularly to members
of the WASER community and interested experts.
Please send your contributions to the WASER
Secretariat at zhaoying@iwahr.com.

=====



**WORLD ASSOCIATION FOR
SEDIMENTATION AND EROSION
RESEARCH**

MEMBERSHIP APPLICATION/RENEWAL FORM

I wish to apply/renew my membership of WASER

Name: _____ Date of birth _____

Position/Affiliation: _____

Address: _____

E-mail: _____ Telephone: _____ Fax: _____

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

[IJSR Printed copy] Regular (\$480 or RMB3000) Corporate (\$660 or RMB 5000)

[IJSR E-copy] Regular (\$80 or RMB500)

Membership dues for 3 years (\$US or Chinese RMB, or equivalent Euros):

[IJSR Printed copy] Regular (\$250 or RMB1600) Corporate (\$340 or RMB2800)

[IJSR E-copy] Regular (\$40 or RMB250) Student (\$20 or RMB140)

Membership dues for 1 year (\$US or Chinese RMB, or equivalent Euros):

[IJSR Printed copy] Regular (\$90 or RMB600) Corporate (\$120 or RMB1000)

[IJSR E-copy] Regular (\$15 or RMB100) Student (\$8 or RMB50)

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

Bank transfer

Beneficiary: World Association for Sedimentation and Erosion Research

Bank: Industrial and Commercial Bank of China, Beijing Municipal Branch, Beijing, PRC

Account No: 0200001409089020987 Swift code: ICBKCNBJBJM

Message on bank sheet: WASER, Member's Name and Country

NOTE:

All members will receive newsletters, and enjoy discounted registration for the International Symposia on River Sedimentation and other International Conferences organized by WASER, and will receive IJSR and other publications at a preferential price.

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

IRTCES, P. O. Box 366, No.20 Chegongzhuang Road West, Beijing, 100048, China Fax:
+86-10-68411174 Tel: +86 10 68786412

E-mail: zhaoying@iwhr.com or irtces@outlook.com

WASER website: <http://www.waser.cn>

(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。)