



INTERNATIONAL SEDIMENT INITIATIVE NEWSLETTER

Reporting ISI news to you quarterly

No. 63 Jun. 29, 2022

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The ISI Technical Secretariat presented a review of ISI activities at the 25th Session of the IHP Intergovernmental Council of UNESCO



The 25th Session of the Intergovernmental Hydrological Programme (IHP) Intergovernmental Council of UNESCO was held in Paris and online from April 26 - 29, 2022. A comprehensive report on the main achievements of IHP-VIII was presented, and the draft operational implementation plan of the strategic plan of the 9th Phase of IHP (IHP-IX, 2022-2029) was discussed and adopted. The Council session also adopted the new guidelines framework for the IHP Flagship initiatives, and an analysis of the current Flagship initiatives and new rules and procedures were put in place to manage IHP Flagship programmes. A set of eight thematic working groups were established by the Council, to track the effective implementation of the IHP Phase IX in the next 8 years. Prof. Cheng Liu from the IRTCES attended the meeting online.

Invited by Prof. Zhongbo Yu, the Chairperson of the IHP Council, Prof. Cheng Liu presented a report on behalf of the ISI Technical Secretariat contributing to Agenda item 4.3 - IHP Flagships Major Initiatives framework and their and contribution to the implementation of IHP-IX. Prof. Liu reported the role of ISI activities related to international cooperation and communication in promoting the advancement of research in erosion and sedimentation, specifically the ISI expert meeting on global sediment data, and two ISI online training workshops on sediment measurement and monitoring organized last year during COVID-19 Pandemic. He indicated that a meeting of the ISI Advisory Group meeting, agreed and will comply with the new Framework for the Planning, Implementation and Monitoring of IHP Flagship Initiatives, and will continue to leverage its strengths to carry out activities for developing through technical countries conferences/seminars and training workshops. case studies on sustainable sediment management, and data sharing on erosion and sedimentation, in order to make significant contributions to IHP-IX and the global sustainable

sediment management. Prof. Yu praised the contributions of IRTCES and ISI to the IHP and expressed appreciation of this support from the Chinese Government.

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ISI Advisory Group online meeting convened to discuss aligning the ISI Governance Structure to the Flagship Guidelines



On June 16, 2022, an ISI Advisory Group online meeting was organized using Microsoft Teams, to discuss aligning the ISI Governance Structure to the Flagship Guidelines of IHP-IX. Participants from the Advisory Group in the meeting included Prof. Manfred Spreafico (ISI Advisory Group Chair), Prof. Des. Walling (ISI Advisory Group Member), Prof. Cheng Liu (ISI Technical Secretariat), and Dr. Anil Mishra & Dr. Koen Verbist representing **UNESCO-IHP** Secretariat. Paulina Marcela Ramirez Ms. Quevedo from UNESCO-IHP also participated in the meeting.

First, Dr. Koen Verbist gave a brief summary of the 25th IHP Council meeting, the new guidelines framework for the IHP Flagship Initiatives adopted by the meeting, an analysis of the current Flagship Initiatives and the new rules and procedures to manage IHP Flagship programmes. Prof. Cheng Liu provided an overview of findings on the assessment of ISI and the gaps that would need to be addressed in aligning with the Flagship guidelines. The aligning of the ISI governance structure to the guidelines and the future development of the ISI Strategy were discussed.

Journal Impact Factor of the International Journal of Sediment Research increases to 3.259



The 2021 Journal Citation Reports (JCR) were released by Clarivate Analytics on June 28, 2022. The International Journal of Sediment Research (IJSR) Journal Impact Factor for 2021 is 3.259. Within the journals in the categories of Water Resources and Environmental Science, IJSR was ranked Q2 and Q3, respectively. The Journal Impact Factor (JIF) is a journal-level metric calculated from data indexed in the Web of Science Core Collection.

The IJSR is the official journal of the World Association for Sedimentation and Erosion Research (WASER). The journal is under the administration of the Ministry of Water Resources (MWR), PRC and is co-owned and sponsored by the International Research and Training Center on Erosion and Sedimentation (IRTCES), the China Institute of Water Resources and Hydropower Research (IWHR) and Tsinghua University. It is an international, peer reviewed journal, focusing on publication of original contributions related to theoretical advances, numerical modelling, field observational and laboratory studies and reviews dealing with processes, products and techniques in the field of sedimentation and erosion. Of particular importance are contributions covering topics linked to geography, geomorphology, soil watershed management, sediment erosion. transport, sedimentology, fluvial processes, fluvial geomorphology, reservoir sedimentation, coastal sedimentation and estuarine processes, sediment-related ecological and environmental problems, river management, and the social and economic effects of sedimentation.

All researchers in the sediment field are encouraged to submit their important papers to the International Journal of Sediment Research.

The Journal website can be found at : https://www.journals.elsevier.com/international-journal-of-sediment-research.

ISWCR received its third JIF of 7.481

Clarivate officially released the 2021 Journal Citation Reports (JCR) on June 28, 2022. For each SCIE indexed journal, the JCR presents a rich array of citation metrics, including the Journal Impact Factor (JIF), alongside descriptive data about a journal's open access content and contributing authors.

According to the latest JCR, the 2021 Impact Factor for the official journal of WASWAC -International Soil and Water Conservation Research (ISWCR) is 7.481.

ISWCR was officially indexed by Science Citation Index Expanded in July, 2019, and is included in three subject areas, namely Water Resources, Soil Science, and Environmental Sciences. ISWCR received its first official Impact Factor of 3.770 in 2020, and second JIF of 6.027 in 2021.

Amongst the total of 100 journals in the Water Resources category, ISWCR was ranked 6. In the Soil Science and Environmental Science categories, it is ranked as 3 out of 39 (Q1) and 46 out of 279 (Q1). ISWCR is now a Q1 journal in the three categories of Water Resources, Soil Science, and Environmental Sciences.



The research reported was conducted to assess the performance of 15 of the world's major rivers in maintaining flood control security, providing reliable water resources, constituting livable water environments, boosting healthy

The World River Happiness Report 2021 launched

aquatic ecosystems, and generating prosperous water cultures. The research findings are expected to assist policy makers in water-related decision-making and management, as well as to raise public awareness in the field of watershed protection.

The research team used the River Happiness Index (RHI), which is derived from "River of Happiness" and conceptualized a "River of Happiness" as a river that maintains its own health, supports the sustainable socio-economic development of the basin and the region, allows harmony between man and water, and brings a high sense of security, gain and satisfaction to the people in the watershed – to give each of the 15 rivers thorough evaluations. The RHI consists of five primary indicators, namely Security of Flood Control, Reliability of Water Resources, Livability of theWater Environment, Health of Aquatic Ecosystem, and Prosperity of Water Culture.

In 2020, the research team first applied the RHI and the assessment methods in the evaluation of major rivers and lakes in China. Based on the research outcomes, the Happiness Report of Rivers and Lakes in China was released in 2021, reaping positive feedbacks from society.

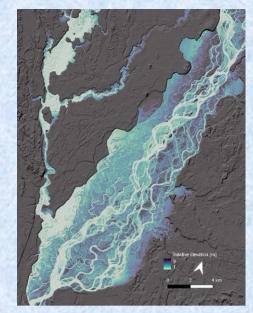
The analyses of world rivers reveals that most of them yield "medium" happiness. Only the Rhine is graded as "happy" with the highest score of 86.6, while the other 14 rivers are all graded as "medium". Specifically, the happiness of the St. Lawrence, Thames, Colorado, Yangtze and Mississippi is graded as "medium high"; the happiness of the Danube, Volga, Yellow, Murray-Darling, Amazon and Congo is graded as "medium"; and the happiness of the Euphrates-Tigris, Ganges and Nile is graded as "medium low".

The launch ceremony of the Report was jointly hosted by IWHR, the United Nations Educational, Scientific and Cultural Organization (UNESCO), and China Water & Power Press. Distinguished guests expressed their congratulations on the launch of the Report and expectations for a future where humans and rivers co-exist in harmony.

The abstract of the report can be downloaded at:

http://www.waser.cn/waser/uploadfile/2022/03/28/ 20220328170338289.pdf

River belt discovery helps scientists understand ancient rivers



Long after a river has dried up, its channel belt lives on. Made up of swaths of sediment surrounding the river, channel belts, once hardened into rock, preserve the paths of former rivers. However, reconstructing details about an ancient river from channel belt deposits is a notoriously difficult task.

New research from scientists at The University of Texas at Austin is making progress on that front. Lead author Tian Dong, a postdoctoral researcher at the UT Jackson School of Geosciences, said that by analyzing modern rivers they have been able to come up with a rule that connects channel belts to river patterns, finding that, in general, the more channels a river has, the narrower its channel belt.

Since the physics shaping rivers is the same over time and place, the rule should hold for ancient rivers and rivers on other planets, too, according to co-author Timothy Goudge, an Assistant Professor at the Jackson School.

"We can look at a river deposit from 100 million years ago on Earth or from 3.5 billion years ago on Mars and we can say something about what the actual river looked like," he said.

The results were published on June 13 in the journal Geology.

In addition to helping scientists envision ancient rivers, the rule can also help them interpret how these rivers influenced the broader landscape. Rivers with narrower channel belts are able to more readily access the surrounding floodplain—which shapes how landscapes are built up and material is deposited downstream.

"For multichannel systems, such as braided rivers, they actually sit in a very narrow channel belt so they're very close to the floodplain," said Dong. "So potentially there's more interaction between the river and floodplain material."

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The rule does have some caveats. It does not hold for confined rivers that are kept from freely migrating by their surrounding landscape. But when rivers are free to move and meander across the land there is a direct connection between an increasing number of river channels and a narrowing channel belt. The scientists also found that as the belt narrows, it also becomes smoother with less sharp edges.

The researchers discovered the rule by analyzing 30 modern rivers and their channel belts, drawing on high-resolution images and elevation data captured by satellites. Dong said that he had a hunch about the connection, noticing a trend between river channel and channel belt width from scrolling around on Google Earth. But he wasn't sure if his intuition would prove correct once the data was computed.

"No one had really looked at the relationship between river and channel-belt planform shapes systematically, so we didn't really know what we'd expect," Dong said.

In addition to having narrower channel belts, the research also found that multichannel rivers take up more space on the channel belt, taking up 50% or more of the channel belt area. In contrast, single-channel systems, like meandering rivers, take up as little as 1%. This further boosts the ability of multichannel rivers to pick up and move sediments, Dong said. Since organic matter from plants and animals is among those sediments, it means that multichannel rivers may not store organic carbon on their floodplains as long before transporting it into the ocean—where it can affect sea life.

Channel belts are a common feature on Mars, serving as a reminder of the Red Planet's wetter past. They are also probably found on Saturn's moon Titan, where rivers of liquid methane have been identified by space probes.

Both Goudge and Dong said they hope to apply their research on rivers to learn about the geology that shapes other worlds.

"For future work, we will be looking to apply these metrics to other planets in our solar system and see what we can see," Goudge said.

More information: Tian Y. Dong et al, Quantitative relationships between river and channel-belt planform patterns, Geology (2022). DOI: 10.1130/G49935.1

(Source: https://phys.org/)

GAUC Launches the "Climate x" Leadership Training Pilot



The Global Alliance of Universities on Climate (GAUC) launched its "Climate x" Leadership Training Pilot ("Climate x" Pilot) on June 18th 2022. This is the world's first youth climate leadership training project which that brings together the strengths of leading global universities across six continents.

Initiated by Sciences Po and Tsinghua University, the "Climate x" Pilot is a joint educational project of GAUC's 15 member universities, and has gained strategic partnership with UNESCO, and content partnership with the United Nations Youth Leadership Development Program (UNYLDP).

Being the first year that the "Climate x" Pilot was staged, it received over 500 applications from students based in GAUC's 15 member universities in nine countries and six continents. After careful evaluation of applicants' academic interests and extracurricular activities, 150 students were selected for the pilot program, forming the first cohort of the GAUC Global Youth Ambassadors.

Kate Vivian, Interim Vice President for International Affairs of Sciences Po, Yang Bin, Vice President and Provost of Tsinghua University & Chair of GAUC's Executive Committee, and Shahbaz Khan, Director of the UNESCO Office in Beijing and UNESCO Representative to the Democratic People's Republic of Korea, Japan, Mongolia, the People's Republic of China, and the Republic of Korea addressed the launch ceremony of the "Climate x" Pilot.

"It is my belief that no matter how hard the climate crisis is, universities, and especially you, students, future policymakers, entrepreneurs, diplomats, and lawyers, can make a difference in helping to address it. This program aims at providing you with further analytical, leadership, and working tools to tackle it," said Kate Vivian in her speech at the event. "I am delighted to see our students and our GAUC partner universities invest in these opportunities and co-create these spaces that can work together to make a difference in the fight against climate change."

"The 'Climate x' Leadership Training Pilot

reflects an even more concrete leadership from higher education when facing the climate change challenge," said Yang Bin in his welcome remarks. "A sustainable net-zero future calls for synergetic and innovative solutions from mankind. At a time when such endeavors are shadowed by intertwined uncertainties, I believe this pilot program will prove to be a non-substitutable contribution from GAUC in realizing that future shared by all."

Prof. Shahbaz Khan emphasized the importance of education in his video speech to the event. "We need to change the minds, not the climate, and that's where we need education, science, and culture together to deliver programs which contribute to the achievement of all SDGs," he said. "'Climate x' Pilot is the most welcome development. Let's work together to change the mindsets of young people to solve the climate issues of our time."

LI Zheng, Secretary-General of GAUC, moderated the session's opening remarks. GAUC Executive Secretary-General Wang Binbin then presented the overall design of the GAUC "Climate x" Campaign, followed by the introduction of the pilot program's faculty team by Sophie Riviere-Dufour, Interim Deputy Director for International Affairs of Sciences Po and the explanation of the operation details of the pilot program by GAUC Chief Youth Officer Alice Ho.

In 2022, GAUC will launch the "Climate x" Campaign at national, regional and global levels to prepare youth to take the lead in addressing climate change and to raise the public's awareness on the synergy between climate change and other sustainable development goals (SDGs). Being the start of GAUC's 'Climate x' Campaign this year, the pilot program aims to provide a systematic curriculum to help the next generation to take the lead in tackling climate change challenges, especially with an interdisciplinary perspective on SDGs. It is going to focus on the key annual topics identified by the Academic Committee, namely Sustainable & Secure Energy; Finance; Nature, Biodiversity & Food; and Adaptation & Resilience. The pilot program features a dual-track lecturer mechanism, so that all the courses focusing on the synergy with climate change are brought by a university from the global north together with a university from the global south. Professor Guy Midgley, acting director of Stellenbosch's School for Climate Studies, Professor Martin Siegert, codirector of the Grantham Institute at Imperial College London, and Professor Charlotte Halpern at Sciences Po also attended the event and shared the structure of their lectures.

A special ice break session was organized at the end of the event as the first step for the ambassadors to form a community dedicated to addressing climate change. From next Saturday, leading experts from GAUC member universities are going to take the GAUC Global Youth Ambassador to embark on an interdisciplinary journey. After the completion of the lectures, the pilot program will also provide both regional and international climate events for the youth ambassadors to practise their skills, and channel them to the GAUC Global Youth Summit on Netzero Future 2022 to be held at COP27.

From the Institute of Climate Change and Sustainable Development, Tsinghua University

(Source: UNESCO Beijing)

PUBLICATIONS

Papers Published in the International Journal of Sediment Research Volume 37, No. 4, 2022



Volume 36, Issue 4 Pages 449-566 (August 2021)

Interfacial instability of sand patterns induced by turbulent shear flow Sk Zeeshan Ali, Subhasish Dey Pages 449-456

Channel morphologic processes of a highly sinuous bend approaching neck cutoff by bank erosion in the middle Yangtze River

Zhiwei Li, Hanyuan Yang, Junqiang Xia, Meirong Zhou, ... Yingzhen Wang

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Effects of length and application rate of rice straw mulch on surface runoff and soil loss under laboratory simulated rainfall

Misagh Parhizkar, Mahmood Shabanpour, Manuel Esteban Lucas-Borja, Demetrio Antonio Zema, ... Artemio Cerdà Pages 468-478

Bioremediation perspective of historically contaminated sediment with polycyclic aromatic hydrocarbons Snežana Maletić, Jelena Beljin, Dragana Tamindžija, Marko Grgić, ... Srđan Rončević Pages 479-488

Multifractal features of the particle-size distribution of suspended sediment in the Three Gorges Reservoir, China Jinlin Li, Xiubin He, Jie Wei, Yuhai Bao, ... Dil Khurram Pages 489-500

Factors influencing the removal of fine non-cohesive sediment by vortex settling basin at small river abstraction works Kuria Kiringu, Gerrit Basson Pages 501-511

Comparative study of multilayer perceptron-stochastic gradient descent and gradient boosted trees for predicting

daily suspended sediment load: The case study of the Mississippi River, U.S.

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Phosphate mineral accumulation in lake sediment to form a secondary phosphate source: A case study in lake sediment around Eppawala Phosphate Deposit (EPD) in Sri Lanka Nimila Dushyantha, Nalin Ratnayake, Hemalal Panagoda, Chulantha Jayawardena, Amila Sandaruwan Ratnayake Pages 532-541

The settling of resuspended lake sediment related to physicochemical properties of particles of different sizes: Implication for environmental remediation Zhao Wei, Youze Xu, Yanyan Zhao, Yuanyuan Zhao, ... Changhui Wang

Pages 542-554

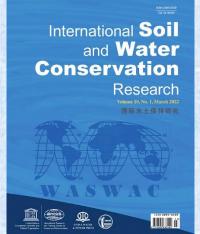
The effects of adsorptive materials on microbial community composition and PAH degradation at the sediment capwater interface

Giovanna Pagnozzi, Danny D. Reible, Kayleigh Millerick Pages 555-565

Full papers are available at ScienceDirect:

<u>https://www.sciencedirect.com/journal/international-journal-of-sediment-research</u> with free access to the paper abstracts.

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Global analysis of cover management and support practice factors that control soil erosion and conservation Kindiye Ebabu, Atsushi Tsunekawa, Nigussie Haregeweyn, Mitsuru Tsubo, ... Jean Poesen Pages 161-176

Modeling hydrologic responses using multi-site and singlesite rainfall generators in a semi-arid watershed Ying Zhao, Mark A. Nearing, David Phillip Guertin

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Conservation management decreases surface runoff and soil erosion Xuan Du, Jinshi Jian, Can Du, Ryan D. Stewart

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Runoff and sediment yield in relation to precipitation, temperature and glaciers on the Tibetan Plateau Fan Zhang, Chen Zeng, Guanxing Wang, Li Wang, Xiaonan Shi

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Determination of runoff coefficient (C) in catchments based on analysis of precipitation and flow events Ronalton Evandro Machado, Tais Oliveira Cardoso, Matheus Henrique Mortene Pages 208-216

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Study on phosphorus loss and influencing factors in the water source area

Rongjia Wang, Chunju Cai, Jianfeng Zhang, Shiyong Sun, Handan Zhang

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Biochar derived from agricultural wastes and wood residues for sustainable agricultural and environmental applications Saowanee Wijitkosum Pages 335-341

Free full papers and open access are available at ScienceDirect :

https://www.sciencedirect.com/journal/internationalsoil-and-water-conservation-research. The 2022 International Symposium on Ecohydraulics (Nanjing, China, October 10-14, 2022)

Date: October 10-14, 2022

Venue: Nanjing, China

Invitation: On behalf of the International Association for Hydro-Environment Engineering and Research and the local organizing committee, we cordially invite you to the 14th International Symposium on Ecohydraulics that will be held from October 10th to 14th 2022 in Nanjing, China, an ancient capital of ten dynasties in Chinese history, boasting numerous historic sites, splendid cultural heritage, beautiful cityscape and sceneries.

Ecohydraulics is a rapidly developing inter-discipline of ecology and hydraulics brought about by the ever-growing concern of aquatic and riparian ecology. Since its first edition in 1994, the International Symposia on Ecohydraulics have provided platforms for scientists and engineers worldwide to discuss cutting-edge scientific progress, compared and evaluated state-of-the-art technical methods, and recommended them to the endusers.

ISE 2022 covers a wide spectrum of topics related to ecohydraulics in theory and in practice, including the hydrological. hydraulic, morphodynamic, structural. ecologic, biologic, and technical aspects of the discipline. Six high-profile keynote speeches will be presented. We are expecting you to present at the symposium and share the latest advancement of your research with the international scientific community. Both oral and poster presentations are welcome. A special issue of Environmental Science & Ecotechnology focusing on this conference will be published. Traditionally, ISE features an ECoENet pre-conference workshop which helps early career researchers (ECR) working in ecohydraulics find opportunities and overcome challenges. Starting from the current edition, ISE plans to provide an interactive lecture of a helpful technical tool applied in one of these three topics (1) fieldwork, (2) lab experiments (3) numerical simulation, and rotate among them in the future. (ZHANG Jianyun, Yangtze Institute for Conservation & Development, China, Nanjing Hydraulic Research Institute, China)

URL: https://ise2022.org/

Contact

ISE2022 Secretariat sec@ise2022.org +86-25-85828956

IAHS/ICCE International Symposium River sediment quality and quantity (Poland, Oct. 17-21, 2022)

Date: October 17-21, 2022

Venue: Bydgoszcz, Poland (hybrid conference formula) **Invitation:** It is a pleasure on behalf of International Association of Hydrological Sciences (IAHS) – Commission on Continental Erosion (ICCE) to invite you to: The International Symposium on River sediment quality and quantity: environmental, geochemical and ecological perspectives, 17 - 21 October 2022, Bydgoszcz, Poland (hybrid conference formula).

Subjects of the Conference:

Sediment quantity - cascades, budgets, yields

Sediment impacts on river channel hydromorphology and managment

Sediment quality – geochemistry, nutrients, contaminants, emerging issues

Sediment-biota interactions

Business Day - inland waterways development in Middle-East Europe

Conference programme will include:

Oral and poster thematic sessions

Social events and post-conference tours

Gala-dinner at Mill Island - a green oasis in the city centre

Business Day

The first IAHS/ICCE International Symposium was held in Florence, Italy more than 30 years ago, and recent symposia have been held in Dundee, UK in 2006; Christchurch, New Zealand in 2008; Warsaw, Poland in 2010; Chengdu, China in 2012; New Orleans, USA in 2014; Okehampton, UK in 2016 and in Moscow, Russia in 2018. The 2022 ICCE Symposium will be held at Bydgoszcz in Poland, at the Kazimierz Wielki University.

URL: https://icce2022.ukw.edu.pl/ Contacts: Michal Habel Marta Brzezińska Kazimierz Wielki University Institute of Geography Department of Revitalization of Inland Waterways Ko?cieleckich Sqare 8 85-033 Bydgoszcz e-mail: icce2022@ukw.edu.pl

1st IACRR International Conference on Coastal Reservoirs and Sustainable Water Management (Nanjing, China, October 17-20, 2022)

Date: October 17-20, 2022

Venue: Nanjing, China

Summary: The 1st International Conference on Coastal Reservoirs and Sustainable Water Management will be held by Hohai University in Nanjing (China) in November 6th-9th, 2023. Coastal reservoirs could provide a solution to the water problems of many coastal cities, but their successful development faces various 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 provide students an opportunity to discuss with renowned and well-established researchers and professionals in this field.

Hohai University, founded in 1915, has the largest number of researchers studying water-related problems in the world and has gained worldwide reputation for its focus on water. Hohai is a state key university under the direct administration of the Ministry of Education of China. The university has been collaborating closely with various academic organizations including the International Association for Hydro-Environment Engineering and Research (IAHR). Seven colleges at Hohai are relevant to the topic of coastal reservoirs, including the College of Environment, College of Hydrology and Water Resources, Water Conservancy and Hydropower College of Engineering, College of Harbor, Coastal and Offshore Engineering, College of Oceanography, College of Civil and Transportation Engineering, and College of Mechanics and Materials. Professor Hongwu Tang, the Chair of the University Council and the Founding-chair of the China Chapter of the International Association for Coastal Reservoir Research (IACRR), cordially invites you to attend the conference.

URL: http://www.iacrr2020.com/

Contact

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River Flow 2022 (Online, Nov. 8-10, 2022)

Date: Nov. 8-10, 2022 Venue: Online

Invitation: Welcome to River Flow 2022, the 11th International Conference on Fluvial Hydraulics. 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 the main international event focusing on fluvial hydraulics and river engineering. River Flow 2022 will be a unique occasion to present and latest experimental, theoretical discuss the and computational findings on fundamental river flow and processes, river morphology transport and morphodynamics. The conference will as well cover issues related, but not limited to: the effects of hydraulic structures on flow regime, river morphology and ecology; sustainable river engineering practices (including stream restoration and re-naturalization); and effects of climate change including extreme flood events. Given the present uncertainty related to COVID-19, the conference will be held virtually.

Following on the tradition and success of previous editions of River Flow conferences, River Flow 2022 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.

URL: <u>https://www.rf2022.com/</u> Contacts:

The LOC of River Flow 2022 → Follow us on Twitter: @riverflow2022 riverflow2022.org@queensu.ca

The 15th International Symposium on River Sedimentation (Florence, Italy, Sept. 5-8, 2023) Date: September 5-8, 2023

Venue: Florence, Italy

Organizer: University of Florence and University of Padua

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

Co-sponsors: International Association for Hydro-

Environment Engineering and Research (IAHR)......(to be invited)

Secretariat: University of Florence, Italy

Permanent Secretariat: IRTCES

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

Symposium Theme and Topics:

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

- The symposium topics include (tentative):
- 1. Sediment transport
- 2. Reservoir sedimentation
- 3. River morphodynamics
- 4. Coastal morphodynamics
- 5. Ecomorphodynamics
- 6. Sediment related disaster
- 7. Plastic in river and coastal systems

8. Interaction between sediment dynamics and hydraulic structures

9. Integrated Sediment Management at the River Basin Scale

10. Social, economic & political problems related to sediment and water management

URL: https://www.isrs2022.it/

Organisation & Contacts:

Organized by the Department of Civil and Environmental Engineering, University of Florence, Italy Organizing Committee Co-Chairs

Stefano Lanzoni, Department of Civil, Environmental and Architectural Engineering, University of Padova, Italy Luca Solari, Department of Civil and Environmental Engineering, University of Florence, Italy Contacts

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INTERNATIONAL SEDIMENT INITIATIVE (ISI) Intergovernmental Hydrological Programme (IHP) UNESCO

ORGANISATION: UNESCO

Abou AmaniUNESCO, Paris(to be donfirmed)UNESCO, BeijingKoen VerbistUNESCO, Paris

ISI URL: http://www.irtces.org/isi/

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Flow and Sediment Regulation in Xiaolangdi Reservoir, the Yellow River (by Enhui Jiang, June 28, 2022)