

# INTERNATIONAL SEDIMENT INITIATIVE

# NEWSLETTER

*Reporting ISI news to you quarterly*

No. 3 December 15, 2006

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### Newsletter Layout and Production:

ISI Technical Secretariat

The ISI Newsletter is sent quarterly to ISI-Steering Committee members and interested experts. Please send your contributions to the Chairman of ISI SC at [manfred.spreafico@bafu.admin.ch](mailto:manfred.spreafico@bafu.admin.ch) or ISI technical Secretariat at [chliu@iwahr.com](mailto:chliu@iwahr.com).

## NEWS

### The 5th ISI Steering Committee Meeting was held at Dandas Hotel, Khartoum, Sudan on November 11, 2006

The 5th ISI Steering Committee Meeting was held at Dandas Hotel, Khartoum, Sudan on November 11, 2006, twelve ISI Steering Committee members attended the meeting. Eng. Kamal Ali Mohammed, Minister of Irrigation & Water Resources of Sudan, Prof. Abdalla A. Ahmed, Director of the UNESCO Chair in Water Resources-Sudan, Mr Abdin Salih, Representative and Director of UNESCO Office Teheran, Dr. Rudwan El Washah, Regional Advisor for Water Sciences and Director of UNESCO Water Programme in Cairo, participated in the opening of the meeting and expressed their welcomes to the Steering Committee members.

In the one day's meeting, the ISI activities are summarized and the forthcoming tasks and events are planned, including: the state-of-the-art of the activities related to ISI Technical Secretariat, case studies of river basins, ISI Information System, education and capacity building for sustainable sediment management, networking, action plan and forthcoming events, etc. Though Prof. Rollin H. Hotchkiss was unable to travel to Sudan, he made his presentation by DVD. Dr. C. Liu, on behalf of the ISI Technical Secretariat, presented the state-of-the-art of the activities related to the Secretariat and the preliminary ISI Information System. The members high appraised the roles and activities that IRTCES has been carrying out as the ISI Technical Secretariat. They also expressed their willingness for publicizing the ISI website and ISI Information System such as making linkages in other related websites, and supplying related information, materials and events to the website and system (by Cheng LIU).



Prof. M. Spreafico, the Chairman of ISI SC chaired the meeting



Prof. Z. Y. Wang of IRTCES presented the case study of the Yellow River



Group photo with the Minister of Irrigation & Water Resources of Sudan



Dr. C. Liu presented the activities related to the ISI Secretariat



Meeting

## KHARTOUM DECLARATION

### A- Preamble

The first International Sediment Initiative Conference, was held in Khartoum 12 –15 November 2006, in Sudan, under the patronage of H.E. the President of Sudan, in response to the importance of sedimentation as a major activity of the 6<sup>th</sup> phase of UNESCO IHP. The forum added a new dimension to the ongoing efforts of ISI and facilitated exchange of experiences in research and best management practices. It also aimed at ensuring sustainable sediment management, in the context of sustainable water resources development at global scale. More than 300 experts and academicians from different parts of the world gathered in this important conference.

### B- Principles

### *The conference*

Realized that sediment is an important issue and is a viable resource. It has adverse effects on human life, agricultural irrigation schemes and hydro-electric power sectors and environment. There are strong linkages between global changes and sediment issues at regional and local levels.

Took into consideration that the sediment process is not well understood yet, and experience in dealing with sediment issues cannot be directly applied from one region to another

Recognized that sediments have drastic effects on soils, deterioration of natural resources and agricultural production that requires great costs for rehabilitation works.

### **C- Action and Mechanisms**

#### *The Conference calls:*

1. Upon national governments, regional and international organizations to allocate adequate funding and give institutional support and provide data for sedimentation research, development and management.
2. For an integrated approach towards sustainable sediment management within IWRM approach.
3. To emphasize on the socio-economic impacts of sedimentation and to value sediment as a resource.
4. For cooperation among riparian countries on transboundary rivers for integrated river basin management including sediment issues for the mutual benefits of all stakeholders in a basin.
5. To build and strengthen the capacity of developing countries with particular attention to Africa.
6. To enhance and accelerate knowledge dissemination and interactions among experts and professionals through networking .
7. To create enabling environments by raising public awareness on issues related to sedimentation in its widest sense.
8. To promote North - South cooperation by the twining of river basins in different areas as a practical approach for technology transfer and exchange of experience.
9. To support and strengthen the role of the International Sediment Initiative under the auspices of UNESCO.
10. To develop future strategies and action plans using a participatory and consultative approach with all relevant stakeholders.
11. Calls upon ISI and UNESCO to foster this declaration and liase its implementation.

The participants expressed their gratitude and thanks to the president of Sudan Field Marshal Omer Al. Bashir and all the organizers for hosting this important conference.

They also acknowledged the generous support provided by UNESCO and other donors.

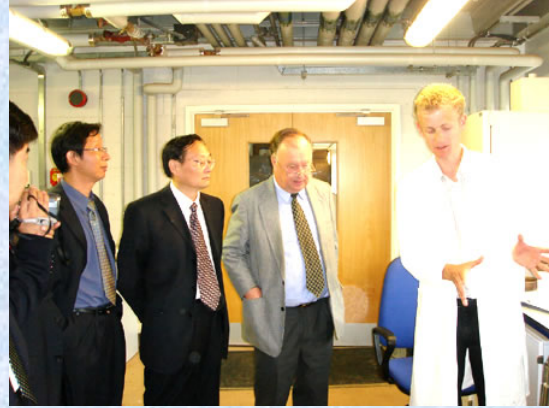
### **IRTCES Delegation Visited UK and Italy**

Headed by Prof. Wang Yangui of the IRTCES, a Chinese delegation consisted of specialists from the IRTCES, IWHR, Yangtze River Scientific Research Institute, Yellow River Institute of Hydraulic Research and Pearl River Institute of Hydraulic Research visited Exeter University, Cardiff University in UK and University of Padova and CESI RICERCA SpA in Italy from June 23 to July 4, 2006.

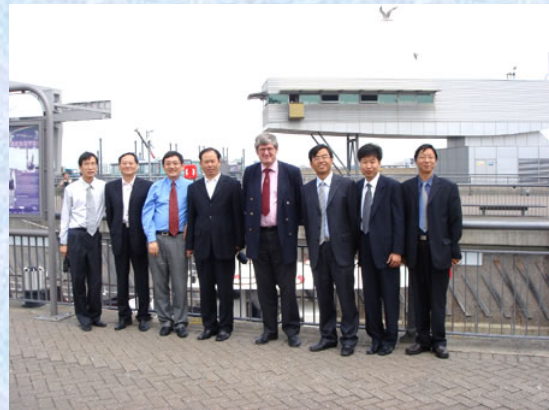
Invited by Prof. Des Walling and Prof. G. Disivio for discussing future initiative and plans of the WASER, the delegation firstly visited Prof. Des Walling, President of WASER at Exeter University, and then visited Prof. G. Di Sivio, Vice President of WASER at University of Padova in Italy. The delegation reported about progress of membership,

institutions and activities of WASER, discussed future development of WASER and reached consensus regarding some issues.

The delegation also visited Environmental Water Management Research Centre, Cardiff University, Prof. Roger Falconer met the delegation and briefed achievements and progress of the projects and model development of the Centre and accompanied the delegation to visit Cardiff Bay where the numerical model DIVAST was set up. The delegation visited CESI RICERCA SpA and had a seminar with experts from the CESI. (from International Networks on Erosion and Sedimentation)



Visiting Lab. of University of Exeter in UK



Visiting Cardiff Bay



Visiting Lab. of University of Padova in Italy

### **IRTCES Dispatching Lecturer for the Training Course Held at Pyongyang, DPRK (June 13-17, 2006)**

Within the framework of UNESCO's Water Sciences activities, Training course on Flood Forecasting and Preparedness was organized at Pyongyang, DPRK from June 13-17, 2006. As requested by the UNESCO Office Beijing, IRTCES dispatched Mr. An Bo from the IWHR, a

specialist working in the field of flood forecasting and flood prevention to deliver a lecture for the training course in order to meet demand of DPRK.

The training course on Flood Forecasting and Preparedness was held in the Koryo Hotel, Pyongyang, D.P.R. Korea from June 13-17, 2006. It is part of training workshop on flood disaster prevention preparedness hosted by the State Hydro-meteorological Administration (SHMA) from 2- 17, June, 2006. Over 20 researchers involved in flood disaster prevention and hydrology works participated in the training course. All participants considered that training workshop was successful and helpful for both capacity building of Korean experts and establishment of flood disaster prevention structure in D.P.R. Korea. (from International Networks on Erosion and Sedimentation)



## CONFERENCE REPORT

### The Second International Conference on Estuaries & Coasts was successfully held in Guangzhou, China on November 28-30, 2006

The Second International Conference on Estuaries & Coasts (ICEC-2006) was successfully held in Guangzhou, China on November 28-30, 2006. The ICEC-2006 was organized by the International Research and Training Center on Erosion and Sedimentation (IRTCES) and Pearl River Water Resources Commission under the Ministry of Water Resources of China, sponsored by the Pearl River Hydraulic Research Institute and the Research Center on Pearl River Estuary & Coast of the Ministry of Water Resources of China. Thirty institutions, organizations and universities co-sponsored the conference, including the United Nations Educational, Scientific and Cultural Organization (UNESCO), International Association of Hydraulic Engineering and Research (IAHR), World Association for Sedimentation and Erosion Research (WASER), International Association of Hydrological Sciences (IAHS), IAHR Asian and Pacific Division (IAHR-APD), National Center for Computational Hydroscience and Engineering, the University of Mississippi, USA (NCCHE) and National Natural Science Foundation of China (NSFC).

The ICEC aims at providing opportunities for world-wide researchers, academicians, engineers and decision makers to hold discussions and show their most recent scientific and technical achievement, exchange information and make joint efforts on research and development in the field of estuaries and coasts. The central theme of the ICEC-2006 is "Advance the Estuarine and Coastal Engineering Research to Enhance the Ecological Environment". The conference mainly covered four topics of estuarine and coastal processes, estuarine eco-environment and its protection, maintenance and management of waterways in estuaries and harbors and research technologies for estuarine engineering.

In the opening ceremony of the ICEC-2006, Mr. HU Siyi, Vice Minister of Water Resources delivered an opening speech. Mr. LIU Ning, Chief Engineer of MWR and Chairman of the Local Organizing Committee of the conference, Professor Kuniyoshi Takeuchi, Former Chairman of IAHS and Director of International Center for Water Hazard and Risk Management (ICHARM), Professor Huib de Vriend, Director Science and Technology of Delft Hydraulics, Mr. KUANG Shangfu, Director of the IRTCES and President of China Institute of Water Resources and Hydropower Research, Mr. YUE Zhongming, Director of

Pearl River Water Resources Commission delivered speeches respectively at the conference. The conference was presided by Mr. CHEN Mingzhong, Deputy Director of the Department of International Cooperation, Science and Technology of MWR.

More than 260 participants from more than 20 countries or regions attended the conference. About 100 participants presented and exchanged their up-to-date researches and had discussions on some hot issues related to estuaries and coasts. Seven keynote lectures and 18 invited lectures were also delivered in the plenary and parallel sessions. The keynote lectures were:

- Ning LIU (China): Estuary Regulation in China -- Status and Strategy;
- Jiyu CHEN (China): Harmonious development between utilization and protection of tidal flat and wetland---A case study in Shanghai area);
- Dano Roelvink (The Neatherland): Morphological modeling of estuaries and inlets in support of ecological evaluations;
- Qiusheng WANG (China): Introduction to Pearl River estuary regulation;
- Scott C. Hagen (USA): Review of the NOPP real-time forecasting system for winds, waves and storm tides of tropical cyclones;
- Yoshiyuki Nakamura (Japan): Restoration activities of tidal flats in Japan; and
- Lixing DUAN (China): Research on Strategic Framework for Treatment of Pearl River Estuary

In the evening of November 30, 2006, Prof. HU Chunhong, Deputy Director and Secretary General of IRTCES chaired the closing ceremony. Dr. Tom O'Donoghue from Aberdeen University, UK, a representative of the participants, said: "We have had a very fruitful and enjoyable three-or-so days in Guangzhou", and "how impressed we have been by the welcome, warmth and hospitality shown to us by our hosts here in China. It really has been special and will be remembered for some time to come." Prof. Hitoshi Tanaka, representative of the next ICEC, the Tohoku University, Japan, announced that the third ICEC will be held in the Tohoku University, Sendai, Japan in 2009, where Lu Xun, a famous writer in China had studied medical science. Prof. Tanaka welcomed all again in Sendai, Japan in 2009. Prof. WANG Qiusheng, the vice Chairman of the conference Scientific Committee and the Vice President of the Pearl River Water Resources Commission, MWR thanked for all participants' support and looked forward to meeting again in the next ICEC.

During the conference, a technical tour to the Humen and Modaomen outlets of the Pearl River estuary was organized.

The ICEC-2006 had drawn attentions worldwide; about 250 abstracts had been received by the local organizing committee. The conference proceedings finally included 158 high quality papers after reviewing process. Two volumes of the proceedings were published by the Guangdong Economy Publishing House, 1257 pages, ISBN 7-80728-422-6. (by Cheng LIU)



Opening Ceremony



Address by Mr. HU Siyi, Vice Minister of Water Resources, China



Opening Remarks by Prof. Kuniyoshi Takeuchi, Former Chairman of IAHS and Director of ICHARM



Opening Remarks by Prof. Huib de Vriend, Director Science and Technology of Delft Hydraulics



Keynote lecture by Prof. LIU Ning, Chief Engineer of MWR and Chairman of the LOC of the conference



Keynote lecture by Prof. CHEN Jiyu, Academician of Chinese Academy of Engineering



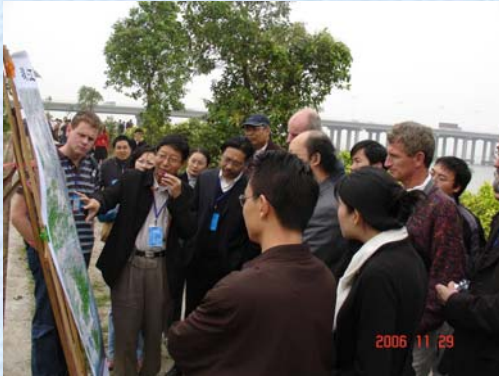
Keynote lecture by Prof. Dano Roelvink



Plenary Session



Parallel Session



Technical tour

### The International Sediment Initiative Conference was successfully held in Sudan on November 12-15, 2006

The International Sediment Initiative (ISI) Conference was successfully held at the Friendship Hall in Khartoum, Sudan on November 12-15, 2006. The ISIC is organized by the UNESCO Chair in Water Resources of Sudan (UNESCO-CWR) in collaboration with UNESCO-IHP, UNESCO Cairo Office, Ministry of Finance of Sudan, NTEAP-NBI, Ministry of Irrigation & Water Resources of Sudan, ENTRO and other collaborators. More than 300 experts and academicians from different parts of the world attended the conference which aimed at ensuring sustainable sediment management, in the context of sustainable water resources development at global scale.

Marshal Omer Al Bashir, President of Sudan, attended the opening session and inaugurated the ISIC with the presence of a number of guests, ministers, diplomats, researchers and the concerned bodies in the field of water. In his speech, President Al Bashir referred the significance of sediment researches and studies related to the agricultural development and reservoirs and the necessity for finding technical, engineering and scientific treatments for this phenomenon. He said, "Your selection of our country for holding this important conference, gives us a great pleasure and privileges. And from here we direct all concerned and related sectors in our country to implement all your proposals and recommendations." Dr. Andras Szollosi-Nagy, Secretary General of the UNESCO-IHP, Dr. Musa Gafar bin Hassan, President of the UNESCO General Conference, Eng. Kamal Ali Mohammed, Minister of Irrigation & Water Resources, Prof. Abdalla A. Ahmed, Chairman of the Organizing Committee and Director of the UNESCO-CWR, Prof. Mohmed Osman Salih, Vice Chancellor of Omdurman Islamic University, addressed in the opening session.

In the three day's conference sessions, more than 50 lectures and 8 posters were presented and discussed. The topics including:

- ✧ Sediment Sources and Causes
- ✧ Sediment Transport, Deposition and Scour
- ✧ Sediment Data Collection Techniques
- ✧ Sediment Analysis and Modeling
- ✧ Sediment Impact on the Environment and Socio-economic conditions
- ✧ Sediment Management and Mitigation
- ✧ Applications to Major River Basins.

ISI Steering Committee members attended the conference and presented their lectures, which includes:

1. Applications to Major River Basins and Man-Made Reservoirs, Local Actions, Regional Cooperation, Global Support  
*S. Bruk*
2. The Changing Sediment Loads of the World's Rivers  
*Des E. Walling*
3. Sediment Sources and Causes: Approaches to Sediment Yield Evaluation  
*G. Di Silvio*
4. Extending Sedimentation Education to the Developing World Through Instructional Simulations  
*Rollin H. Hotchkiss, Ph.D., P.E., D.WRE, Jason K. McDonald, M.S., Bradford G. Singley, B.S., E.I.T.*
5. Nile River Sediment Characteristics from Watershed to the Sea  
*Mohammed El Motasem*
6. Application of Multi-Methodological Approach for Evaluation of Sediment Redistribution within the River Catchment  
*V.N. Golosov*
7. Real Time Sediment Monitoring at Run of the river Hydropower Plants  
*Pravin Karki*
8. Flood Management & Sediment transport in Mountainous Basins  
*Manfred Spreafico*
9. Vegetation –erosion Dynamics & Application in China  
*Wang Zhaoyin, Wang Guangqian*
10. Roadmap Towards an advice on the Implementation of Sediment Management in The Danube WFD River Basin Management Plan  
*Jos M. Brils*
11. Reservoir Sedimentation Implication & planning  
*Farhad Yazdandoost*
12. Changes in the water & sediment loads of Rivers in China  
*Liu Cheng and Wang Zhao-Yin*
13. Sediment Data, GEMS tat and Open Web Services  
*Sabrina Barker*

Prof. Rollin H. Hotchkiss was unable to travel to Sudan, he made his presentation by DVD and intercommunicated with the audiences through telephone.

In the afternoon of November 14, 2006, the conference wrapped up its sessions and issued "Khartoum Declaration". It says that the forum added a new dimension to the ongoing efforts of ISI and facilitated exchange of experiences in research and best practices. It also aimed at ensuring sustainable sediment management, in the context of sustainable water resources development at global scale. The ISIC call upon national governments, regional and international organizations to allocate adequate funding and give institutional support for sedimentation research, development and management, emphasizing on the socio-economic impacts of sedimentation and value sediment as a resource, cooperation among riparian countries on transboundary rivers for integrated river basin management including sediment issues for the mutual benefits of all stakeholders in a basin.

The participants made a study tour to Gezira Irrigated Scheme sedimentation sites on November 15, 2006.

During the conference, Prof. Zhao-Yin Wang and Dr. Cheng Liu were invited to have a meeting with Dr. Andras Szollosi-Nagy. Dr. C. Liu reported the activities of IRTCES acting as ISI Technical Secretariat and presented the ISI Information System. Dr. Szollosi-Nagy expressed his praises on what IRTCES has done.

A meeting among the council members of the World Association on Sedimentation and Erosion Research (WASER) was also held during the meeting. The issues of reorganization for the upcoming new term council, future working plan and the 10th International Symposium on River Sedimentation were discussed (by Cheng LIU).



Opening Session



Meeting



Dr. Andras Szollosi-Nagy chaired session



Prof. M. Spreafico presented his lecture



Prof. Steven Bruk presented his lecture



Prof. Farhad Yazdandoost presented his lecture



Prof. Zhao-Yin Wang presented his lecture



Group photo during the study tour to Gezira Irrigated Scheme sedimentation sites



ISI Technical Secretariat reported to Dr. Szollosi-Nagy



WASER council members meeting

### Report on the IAHS conference on Sediment Dynamics and the Hydromorphology of Fluvial Systems, Dundee, Scotland (July 3-7, 2006)

This conference represents the latest in a long series of conferences organized by International Association of Hydrological Sciences (IAHS) over the last five decades or so specifically focusing on sediment dynamics in river systems. The theme of the Dundee conference addressed the theme of sediment dynamics and hydromorphology, in part due to the importance of this issue in the European Water Framework Directive. The conference was organized by John Rowan, Rob Duck and Alan Werritty of Dundee University, and was attended by over 90 people representing countries including Australia, Brazil, Canada, China, Denmark, France, Germany, Italy, Malaysia, Norway, Poland, Russia, Spain, Switzerland, the Netherlands, the UK and the USA, and comprised 70 oral presentations and many posters. This highlights the importance of understanding sediment dynamics for sediment management. The proceedings of the conference have been published by IAHS as Publication 306 in the IAHS red-book series and can be found at [www.iahs.info](http://www.iahs.info). For further details please contact Phil Owens ([philip.owens@bbsrc.ac.uk](mailto:philip.owens@bbsrc.ac.uk)). (from SedNet)

## COMING EVENTS

### Tenth International Symposium on River Sedimentation (10th ISRS)

**From** 2007-08-01 to 2007-08-04

**Venue:**

MOSCOW STATE UNIVERSITY, Moscow, Russia

**Summary:**

The central theme of Symposium is "Effects of River Sediment and Channel Processes on social, economical and environmental safety".

The main topics to present are as follows:

1. Processes within drainage basins as sources of river sediment: study, modeling, and forecasting in natural and anthropogenic condition
2. An estimation of natural and technogenic factors contribution to the change of river sediment yield
3. River sediment estimation at studying and modeling of channel processes
4. Sediment yield in river mouths
5. River sediment in the environment
6. Management of river sediment formation and transport processes

**Organizers:**

Moscow State University

**Contact Name:**

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### Erosion and Torrent Control as a Factor in Sustainable River Basin Management

**From** 2007-09-25 to 2007-09-28

**Venue:** Faculty of Forestry, Belgrade University; Kneza Višeslava 1, 11030 Belgrade, Serbia

**Summary:** The significance of sediment issues for river basin management is widely recognized. It is well-known that sediment problems are strongly related to erosion, sediment yield and torrent processes in the upland areas of river basins. Thus, erosion and torrent control should be an

important element of river basin management plans. The appropriate approach to this problem should be based on the assessment of the land degradation processes in the river basin, and their monitoring and modeling. The design of erosion and torrent control works should include risk analysis of all mountain hazards, and encompass the different measures of soil conservation, sediment management and ecological engineering. In the view of the complexity of erosion and torrent control issues, river basin management plans should take into consideration the social and economic aspects of these activities

**Organizers:** Faculty of Forestry, Belgrade University - marking 100 years of experience with erosion and torrent control in Serbia

**Organised jointly with:**

World Association of Soil and Water Conservation ( WASWC)  
World Association for Sedimentation and Erosion Research (WASER)

**Sponsor:** Public Water Management Company SRBIJAVODE

**Co-Sponsors:**

Ministry of Science and Environmental Protection of the Republic of Serbia

Ministry of Agriculture, Forestry and Water Management of the Republic of Serbia, Directorate of Water

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### International Bedload Surrogates Workshop

**From:** 2007-04-11 to 2007-04-14

**Venue:** St. Anthony Falls Laboratory, Minneapolis, MN, USA

**Summary:** Invitation-only workshop to explore the feasibility of techniques for monitoring bedload transport automatically and continuously.



**Organizers:** John R. Gray (USGS), Jonathan B. Laronne (BGN), Jeff D.G. Marr (SAFL)

**Sponsors:** National Center for Earth-Surface Dynamics (NCED); Federal Interagency Subcommittee on Sedimentation of the ACWI (SOS); World Association for Sedimentation and Erosion Research (WASER); U.S. Geological Survey (USGS); Ben Gurion University of the Negev (BGU)

**Contact Name:** John R. Gray, U.S. Geological Survey

**E-mail:** [jrgray@usgs.gov](mailto:jrgray@usgs.gov)

**URL:** [www.bedloadresearch.org](http://www.bedloadresearch.org)

## XXXII Congress of IAHR

**From:** 2007-07-1 to 2007-07-6

**Venue:** Venice, Italy

**Summary:** Venice and its Lagoon are the remarkable result of the thousand-year old combined action of Art and Nature. Venice, in fact, is not only the splendid jewel case containing countless works of art by painters, sculptors and architects, but is a “work of art” by itself, the product of the skill and care of hydraulic engineers. Over centuries and centuries, since its birth, the city had to live in careful coexistence with the delicate tidal environment where it was founded. While the Magistrato alle Acque, the ancient water authority of the Serenissima Repubblica never ceased to fight against the eternal enemies of Venice: the sea, the rivers and mankind itself, as an ancient Venetian saying goes.

Today the modern Magistrato alle Acque is also engaged in a huge project to combat the increasingly frequent inundations of the city and the degradation of the lagunal landscape. As in the past, and even more today, a variety of technical and non-technical requirements should be met to solve these problems.

The XXXII Congress of IAHR “Harmonizing the Demands of Art and Nature in Hydraulics” will have appealing consonances with the vicissitudes of Venice and its lagoon, as well as with many other aspects of our trade, as you may see in the Call for papers of this website. A special Workshop devoted to “High Water Control and Environmental Issues in the Lagoon of Venice and Analogous Situations” will be held during the congress. We will also be holding courses before the congress and Special Seminars during the congress. The ASCE – COPRI Coastal Structures Conference will be held in parallel with IAHR and maritime colleagues registering for both events will be able to take part in a unique range of activities.

**Organizers:** Giampaolo Di Silvio

**Sponsors:**

**Contact Name:** Congress Secretariat

**E-mail:** [iahr2007@corila.it](mailto:iahr2007@corila.it)

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