TUHH
Hamburg University of Technology

TuTech INNOVATION
Knowledge . Technology . Markets

KLIMZUG-NORD
Strategic Approaches to Climate Change Adaption in the Metropolitan Hamburg

Tropical Marine Science Institute — National University of Singapore

IAHR AIRH
Supported by CEDEX

IAHS AISH

IWA International Water Association

Contact

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www.hic2012.org

Hamburg University of Technology

The TUHH is one of Germany's youngest and most successful universities. Research activities began in 1980 and teaching in 1982/83. The founding principles of the TUHH are unique in Germany. Our priority is research, conducted through an interdisciplinary approach, with a focus on innovation, regionalism and internationalism. Research, teaching and technology transfer are centered around the guiding theme of developing technology for people.

Hamburg is the second largest city in Germany, seen as a gateway to the world. Its port is not only the largest seaport in Germany and the second largest in Europe, but also a residential district with leisure, recreational and educational facilities. Hamburg has been chosen as the European Green Capital for 2011.

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10th International Conference on Hydroinformatics

HIC 2012

Understanding Changing Climate and Environment and Finding Solutions

Hamburg, 14-18 July, 2012

www.hic2012.org

Why you should attend

Hydroinformatics is a strongly inter-disciplinary field, which links water and environmental problems with various computational modelling methods and fast developing information and communication technologies. The latest developments in Hydroinformatics link science and engineering practice together with stakeholders' views as well as social considerations. A special focus of this conference will be the assessment of the impact of climate and environmental changes on our aquatic environment as well as the development of suitable adaptation and mitigation measures.

Finding solutions to these challenging problems requires close collaboration between scientists – established as well as young ones, – software developers, practitioners, and stake holders from public and federal organizations. So we encourage you to contribute to the development of future solutions and to widen your own expertise and profile by attending and participating in the conference.

This event is the latest in a well-established series of bi-annual Hydroinformatics conferences started in the early nineties. Furthermore this conference is supported by three world-leading international organisations, IAHR (International Association of Hydro-Environment Engineering and Research), IAHS (International Association of Hydrological Sciences) and IWA (International Water Association).

On behalf of the organizing committee, we invite you to come to the very attractive and lively town of Hamburg.

Conference Themes

Advances in Physically-based Modelling Methods

• Hydrodynamic Modelling • Hydrological Modelling • Transport and Eco-hydraulic Modelling • Case Studies • Emerging Modelling Paradigms and Model Coupling • Parallel, Grid, Cloud and Web Services Computing

Data-driven Modelling, Soft Computing and Model Optimization

• Advances in Data-driven Modelling Techniques • Application of Data-driven Modelling in Water Sciences • Application of Optimization Techniques in Model Development • Model Ensembles and Hybrid Models • Model-Data Integration and Data Assimilation

Remote Sensing, Digital and Sensor Technology

• Remote Sensing • Advanced Application of Geographical Information Systems • Application of Radar Technologies in Hydrology • Sensor Networks and Data Streaming • Sensor Developments in Water Engineering

Early Warning Systems and Disaster Mitigation

• Developments of Flood and Drought Early Warning Systems • Developments of Pollution Early Warning Systems • Disaster Mitigation • Risk and Uncertainty Analysis

Real-Time Control and Decision Support Systems

• Development of RTC System for Drainage, Irrigation and Water Supply • DSS for Water Resources Management • DSS for Water Quality Management • Optimization of Water Resources Management and Control • Application Cases of DSS • Stake Holder and Public Participation in Decision Making

Climate Change Impacts

• Regional Climate Modelling: Dynamical, Statistical and Stochastic Downscaling • Quantification of Uncertainties • Impacts on Water Resources, Urban/Rural Flooding, Drought, Erosion, Saltwater Intrusion, Energy, Biodiversity, Health, Socio-economy and Governance • Resilience, Adaptation and Mitigation: Strategies and Measures

Knowledge and Data Management and Models Interoperability

• Meta-Data Management • Data-Mining Techniques • Models Interoperability • Knowledge Management • Knowledge Representations and Standardization in Water Science

Education, Public Awareness and Socio-economic Aspects

• Hydroinformatics Education and Training • Internet-centric Systems in Hydroinformatics • Socio-economic Aspects of Hydroinfomatics Realising Active Stakeholder Participation • Creating Web-based Hydroinformatics Environments for Promoting Socially Just Physical Environments

Important Dates

Abstract submission: **August 1, 2011**
Acceptance of abstract: **September 19, 2011**
Full paper submission: **January 16, 2012**
Announcement of acceptance: **March 30, 2012**
Revised paper submission: **April 16, 2012**

Registration

The registration fee includes the technical sessions, proceedings, lunch, coffee breaks and banquet.

Registration fee	Baseline fee	Student fee
Early bird (before April 30, 2012)	500€	250€
Late/on-site registration	650€	350€
Accompanying person (banquet)	80€	

Members of IAHR, IAHS, and IWA receive 10% reduction.

Exhibition and Sponsorship

An exhibition will take place during the conference. The conference provides an excellent opportunity for software developers and manufacturers to present their products. Details of the fee and booking arrangements will soon be made available on conference website *www.hic2012.org*. Organizations are also invited to sponsor the conference. For more details please contact the secretary general.