

Monday, 29 September			
09:00 - 09:45	Lecture Hall C	Opening	
09:45 - 10:30	Lecture Hall C	Keynote 1 Chair: Rainer Lehfeldt, BAW, Hamburg, Germany	
	Flood Risk – a Global Problem <u>Wolfgang Kron</u> (Geo Risks Research, Munich Re, Germany)		
10:30 - 11:00	Foyer	Coffee Break	
T6	Lecture Hall C	T5	Lecture Hall H
11:00 - 12:40	Sediment Transport and Morphodynamics Chair: Yan Ding, University of Mississippi, University, United States	11:00- 12:40	River, Estuarine and Coastal Dynamics Chair: Chia Chuen Kao, National Cheng Kung University, Tainan, Taiwan
11:00	Analysis on Historical Changes in River Morphology Influenced by Barrage Construction and Tributary Confluence <u>Takaya Okuyama</u> , Kohji Michioku, Keiichi Kanda, Shunichi Kometani	11:00	A Coupled DEM-CFD Simulation of Rip-Rap Revetments in Tidal Areas <u>Livia Mittelbach</u> , Martin Pohl, Heinz Konietzky
11:20	Morphodynamic Evolution in the Mouth of the Elbe Estuary: Effects of the Training Wall Construction “Kugelbake” <u>Andreas Plüß</u> , Peter Milbradt	11:20	Use of the Subgrid Technique in Operational Models <u>Aissa Sehili</u> , Günther Lang
11:40	A Laboratory Study for Gravity Erosion of the Steep Loess Slopes under Intense Rainfall <u>Xiang-Zhou Xu</u> , Chao Zhao	11:40	An Analysis of MLR and NLP for Use in River Flood Routing and Comparison with the Muskingham Method <u>Mohammad Zare</u> , Manfred Koch
12:00	Velocity and Turbulence Measurements for Assessing the Stability of Riverbeds: A Comparison between UVP and ADVP <u>Diana Duma</u> , Sébastien Ercicum, Pierre Archambeau, Michel Piroton, Benjamin Dewals	12:00	Stability Studies on Tandem Breakwater with Concrete Cube Armour <u>Manu Manu</u>
12:20	Regionalization and Contribution to the Study of Reservoirs Sedimentation: Lakes of Cape Bon and the Tunisia Central <u>Olfa Hajji</u> , <u>Sahar Abidi</u> , Hamadi Habaieb, Mohamed Raouf Mahjoub	12:20	Implications of Freshwater Discharge on Estuarine Sediment Dynamics <u>Axel Winterscheid</u> , Stephan Dietrich, Nino Ohle, Ingo Entelmann, Christian Svenson
T16	Lecture Hall K	T2	Lecture Hall M
11:00 - 12:40	Mini Symposium: Impacts of Climate Change Chair: Chia Chuen Kao, National Cheng Kung University, Tainan, Taiwan	11:00- 12:40	Experimental and Computational Hydraulics Chair: Øivind Asgeir Arntsen, Norwegian University of Science and Technology, Tiller, Norway
11:00	Ensemble Stream Flow Projections for Waterways in Central Europe – Current Status and Further Steps <u>Enno Nilson</u> , Imke Lingemann, Bastian Klein, Peter Krahe	11:00	Design of River Training Structures in a Tidal Channel <u>Kwang Ik Son</u> , Sung Kyu Hong
11:20	Impact of Sea Level Rise on Estuarine Hydrodynamics <u>Rita Seiffert</u> , Annette Büscher, <u>Fred Hesser</u>	11:20	A CFD Based 3D Numerical Wave Tank to Investigate Wave Interaction with Rectangular Cylinders <u>Arun Kamath</u> , Hans Bihs, Øivind Asgeir Arntsen
11:40	Influence of Sea Level Rise on Tidal Hydrodynamics in a Fluvial Estuary, a Marine Estuary and a Mixed Estuary: Comparison of Past, Present, and Future Conditions <u>Davina Passeri</u> , Scott Hagen, Matthew Bilskie, Karim Alizad	11:40	Hydrodynamic Coefficients of Yawed Square Cylinder in Oscillating Flow <u>Xiaofan Lou</u> , Tongming Zhou, Liang Cheng
12:00	Impact of Sea Level Change on Inner Coastal Waters of the Baltic Sea <u>Guntram Seiß</u>	12:00	Mathematical Formulations of Shallow Water Models with Porosity for Urban Flood Modeling <u>Martin Bruwier</u> , Sébastien Ercicum, Pierre Archambeau, Michel Piroton, Benjamin Dewals
12:20	Storm Surges in German North Sea Estuaries and Climate Change – Investigating Impacts and Developing Adaptation Strategies <u>Elisabeth Rudolph</u> , Ayla Bockelmann, Annette Büscher, Rita Seiffert		
12:40 - 14:00	Foyer	Lunch Break	

Monday, 29 September			
T6	Lecture Hall C	T5	Lecture Hall H
14:00 - 15:40	Sediment Transport and Morphodynamics Chair: Yafei Jia, University of Mississippi, University, United States	14:00-15:40	River, Estuarine and Coastal Dynamics Chair: Xiaobo Chao, University of Mississippi, Oxford, United States
14:00	The Motion of Grains of a Bed-Load Layer under a Turbulent Liquid Flow Erick Franklin, Marcos Penteado, Rodolfo Perissinotto	14:00	Three Dimensional Modeling of Caspian Sea Currents Using FVCOM Model Fatemeh Hajivalie, Ali Jafar Khoshkholgh, Said Mazaheri
14:20	Large-Scale Sediment Inflow and Bed-Variation from 12th Typhoon (2011) in the Asahi River Basin Yosuke Tsukamoto, Takehiko Eguchi, Shoji Fukuoka	14:20	Countermeasures for Preserving Riverine Tidal Flats in a Ship-Bottom Shaped Channel of the Lower Ota River floodway Takahisa Gotoh, Shoji Fukuoka, Akira Ueda
14:40	First Results of Modelling Benthos Influence on Sediment Entrainment Using a Generic Approach within the MOSSCO Framework Mohammad Hassan Nasermoaddeli, Frank Kösters, Carsten Lemmen, Richard Hofmeister, Kai Wirtz	14:40	Efficacy of Beach Vegetation in Controlling Wave Runup and Rundown – An Experimental Investigation Kiran Gangadhar Shirlal
15:00	A Coupled Sediment Transport Model for Flow over Movable Bed Khawar Rehman, Ja-Hoon Lee, He-Rin Cho, Yong-Sik Cho	15:00	Tide/Surge Levels Interactions Inside of the Seine Bay: Application to Johanna and Xynthia Storms Vanessya Laborie, Philippe Sergent, François Hissel
15:20	A Stratigraphic Soil Model for Coastal Morphodynamics Benjamin Fricke, Andreas Malcherek	15:20	Rusnė-Šilutė Road Impact on Nemunas River Dynamics near Rusnė Uldis Bethers, Juris Sennikovs, Andrejs Timuhins
T16	Lecture Hall K	T2	Lecture Hall M
14:00 - 15:40	Mini Symposium: Impacts of Climate Change Chair: Stephan Mai, Federal Institute of Hydrology, Koblenz, Germany	14:00-15:40	Experimental and Computational Hydraulics Chair: Scott C. Hagen, University of Central Florida, Orlando, United States
14:00	Sea Level Rise Impacts and Adaptation Measures for Sandakan, Sabah Nor Aslinda Awang, Amri Mohd Shah, Anizawati Ahmad, Yannie Anak Benson, Mohd Radzi Abdul Hamid	14:00	A Numerical Wave-Structure-Soil Interaction Model with Application to Monolithic Breakwaters Subject to Breaking Wave Impact Hisham El Safti, Hocine Oumeraci
14:20	Assessment of Coastal Vulnerability for Present and Future Climate Conditions in Coastal Areas of the Aegean Sea Dimitris Kokkinos, Panayotis Prinos, Panagiota Galiatsatou	14:20	Modelling the Holtenau Ship Lock with SPH Eugenio Rustico, Thomas Brudy-Zippelius, Alexis Hérault, Giuseppe Bilotta
14:40	Influence of Internal Climate Variability on Estuarine Sediment Dynamics Stephan Dietrich, Axel Winterscheid	14:40	A Gas-Kinetic Model for Shallow Water Flows in Presence of Wet/Dry Fronts. Michele La Rocca, Pietro Prestininzi, Paolo Mele, Reinhard Hinkelmann
15:00	Sensitivity of Sediment Contamination in the Estuaries Elbe, Weser and Ems to Climate Change Carmen Kleisinger, Holger Haase, Birgit Schubert	15:00	Evaluation Method of Positive and Negative Retarding Storage Volumes for Unsteady Two Dimensional Flows and Propagation Mechanisms of Peak Discharge and Peak Water Level Yoshiharu Takemura, Shoji Fukuoka
15:20	Modelling the Impact of Climate Change on Phytoplankton Dynamics and the Oxygen Budget of the Elbe River and Estuary (Germany) Jens Wyrwa, Birte Hein, Volker Kirchesch, Andreas Schöl, C. Viergutz	15:20	A Hybrid 2D-3D CFD Model System for Offshore Pile Groups Subject to Wave Loading Hisham El Safti, Lisham Bonakdar, Hocine Oumeraci
15:40 - 16:10	Foyer	Coffee Break	
16:10 - 18:00	Poster Session		

Tuesday, 30 September			
09:00 - 09:45	Lecture Hall C	Keynote 2 Chair: Peter Fröhle, Hamburg University of Technology, Hamburg, Germany	
	Utility of Coastal Science Hans von Storch (Helmholtz-Zentrum Geesthacht (HZG), Centre for Materials and Coastal Research, Germany)		
T13	Lecture Hall C	T5	Lecture Hall H
09:50-10:50	Information Management and Decision Support Systems Chair: Sooyoul Kim, Tottori University, Tottori, Japan	09:50-10:50	River, Estuarine and Coastal Dynamics Chair: Nino Ohle, Hamburg Port Authority, Hamburg, Germany
09:50	Evacuation Alarm Using the Improved Magnitude Method to Damage Caused by Typhoon 9918 Ryusuke Hashimura	09:50	Joint Probability Approach in Design Flood Estimation: Recent Developments in Australia. Don Carroll, Joost Beckers, Ferdinand Diermanse, Robert Ayre
10:10	Development of Real Time Storm Surge Forecasting Using Artificial Neural Network Sooyoul Kim, Yoshiharu Matsumi, Hajime Mase, Nobuhito Mori, Tomohiro Yasuda	10:10	A Methodology Framework for Calibration of 2D Hydro-Morphodynamic Models of Rivers with High Hydrological and Morphological Interaction Humberto Avila, Guillermo Acuña, Ricardo Daza
10:30	Evaluation of the Best-Fit Probability Distribution for Rainfall Data in Austria Using L-Moments Method Majid Galoie, Artemis Motamedi	10:30	Simulation and Prediction of Storm Surges and Waves Driven by Hurricanes for Assessment of Coastal Flooding and Inundation Yan Ding, Yafei Jia, Mustafa Altinakar, Yaoxin Zhang, Afshin Gazerzadeh
T9	Lecture Hall K		Lecture Hall M
09:50-10:50	Eco-Hydraulics and Eco-Hydrology Chair: Oliver Stoschek, DHI-WASY GmbH, Syke, Germany	09:50-10:50	no session
09:50	Revisiting the Relationship of Transient-Storage and Aggregated Dead Zone Models of Longitudinal Solute Transport in Streams Sebastian Hernandez-Suarez, Luis A. Camacho		
10:10	Validation of LSPIV to Acquired 2D Surface Flow Fields in Vegetated Lowland Rivers Rebeca Roldán, Stephan Creëlle, Tomas Van Oyen, Dieter Meire, Peter Troch, Tom De Mulder, Kerst Buis, Patrick Meire		
10:30	Three-Dimensional Hydrodynamic Modeling of Turbid Density Currents in a Complex Stratified Reservoir: Application to the Maroon Reservoir, Iran Behnam Zamani, Manfred Koch		
10:50-11:15	Foyer	Coffee Break	

Tuesday, 30 September			
T1	Lecture Hall C	T5	Lecture Hall H
11:15-12:15	Water Resources Planning and Management Chair: Sandra Hellmers, Hamburg University of Technology, Hamburg, Germany	11:15-12:15	River, Estuarine and Coastal Dynamics Chair: Peter Fröhle, Hamburg University of Technology, Hamburg, Germany
11:15	Modeling Investigation of the Underground Dam on Samui Island, Southern Thailand <u>Phatcharasak Arlai</u> , Manfred Koch	11:15	Effect of Hydrodynamics on Sediment Transport near a Coastal Inlet <u>Honghai Li</u> , Mitchell Brown, Julie Rosati, Zeki Demirebilek, Irene Watts, Mark Hable, D. Yang
11:35	Optimization of Cultivation Pattern for Maximizing Farmers' Profits under Land- and Water Constraints by Means of Linear-Programming: An Iranian Case Study <u>Mohammad Zare</u> , Manfred Koch	11:35	Numerical Simulation of Breaking Waves on a Plane Slope with a Parallel Level Set Solver Mayilvahanan Alagan Chella, <u>Hans Bihs</u> , Michael Muskulus
11:55	A Trading-Ratio System for Waste Load Allocation in a Tributary River <u>Najmeh Daraienejad</u> , Mojtaba Ardestani, Mohammad Hossein Niksokhan	11:55	Comparison of Physical Model Predictions and Prototype Measurements of Fluvial Morphodynamics in the Yangtze River Downstream of the Three Gorges Project <u>Yonghui Zhu</u> , Li Huang, Feng Tang, Fazheng Li, Guangshui He, Xiaohu Guo, Qu Geng
T9	Lecture Hall K	T2 T13	Lecture Hall M
11:15-12:15	Eco-Hydraulics and Eco-Hydrology Chair: Elimar Precht, DHI-WASY, Syke, Germany	11:15-12:15	Experimental and Computational Hydraulics Information Management and Decision Support Systems Chair: Panayotis Prinos, Aristotle University of Thessaloniki, Thessaloniki, Greece
11:15	The Residence Time in the Elbe River Focussing on the Estuary <u>Hartmut Hein</u> , Birte Hein, Ulrich Barjenbruch, Stephan Mai	11:15	Simulation of Flow and Transport Processes in a Brazilian Reservoir <u>Tabea Broecker</u> , Ilhan Özgen, Elena Matta, Jaime Cabral, Ana Lúcia Candeias, Reinhard Hinkelmann
11:35	Scour Characteristics Downstream of In-Stream River Restoration Structures: Log and J-Hook Vanes Comparison <u>Stefano Pagliara</u> , Sahameddin Mahmoudi Kurdistanani, Leila Hassanabadi	11:35	Simulation of Wind-Induced Flow and Transport in a Brazilian Bay <u>Elena Matta</u> , Ilhan Özgen, Jaime Cabral, Ana Lúcia Candeias, Reinhard Hinkelmann
11:55	Prediction and Analysis of Eutrophication in a Reservoir Using Three-Dimensional Modeling: Application to the Planned Abolabbas Reservoir, Iran <u>Behnam Zamani</u> , Manfred Koch, Ahmad Fakheri-Fard, Ali Moridi	11:55	Dynamic Maritime Accident Probability Forecasting in the Strait of Istanbul <u>Yigit Altan</u>
12:15-13:15	Foyer	Lunch Break	
13:15-14:00	Lecture Hall C	Keynote 3 Chair: Holger Schüttrumpf, RWTH Aachen University, Aachen, Germany	
	Flood Protection in Hamburg <u>Gabriele Gönnert</u> (Landesbetrieb Straßen, Brücken und Gewässer Hamburg, Germany), Olaf Müller		
14:00-18:45	Technical Tours		

Wednesday, 1 October			
09:00 -09:45	Lecture Hall C	Keynote 4 Chair: Matt Römken, United States Department of Agriculture (USDA), Oxford, United States	
	Building with Nature: Mainstreaming the Concept Huib de Vriend (EcoShape Foundation, Netherlands)		
T6	Lecture Hall C	T15	Lecture Hall H
09:50- 10:50	Sediment Transport and Morphodynamics Chair: Andreas Dieter Plüß, BAW, Hamburg, Germany	09:50- 10:50	Mini Symposium: CFD in the nearfield of structures Chair: Carsten Thorenz, BAW, Karlsruhe, Germany
09:50	Effects of Sediment Supply on Low-Flow Channel Formation <u>Hiroshi Miwa</u>	09:50	Generation of a 3D Mesh Using snappyHexMesh Featuring Anisotropic Refinement and Near-wall Layers <u>David Gisen</u>
10:10	Analysis of Some Common Theoretical and Empirical Relationships between Sinking Velocity of a Sediment Particle as a Function of Particle Size and Water Temperature and Development of new Empirical Nonlinear Regression Equations <u>Mohammad Zare</u> , Manfred Koch	10:10	Numerical Simulation of Turbulent Free Surface Flow around a Circular Cylinder <u>Joongcheol Paik</u> , Fabian Bombardelli, Nam-Joo Lee
10:30	Seasonal Transfer and Net Accumulation of Suspended Sediment in the Yellow Sea and East China Sea <u>Chongguang Pang</u> , Kun Li, Wei Yu	10:30	The Multiphase Capabilities of the CFD Toolbox OpenFOAM for Hydraulic Engineering Applications <u>Lydia Schulze</u> , Carsten Thorenz
T8	Lecture Hall K	T2	Lecture Hall M
09:50- 10:50	Climate Change, Adaptation and Long-Term Predictions Chair: Pao-Shan Yu, National Cheng Kung University, Tainan City, Taiwan	09:50- 10:50	Experimental and Computational Hydraulics Chair: Mustafa S. Altınakar, Director of NCCHE, MA, United States
09:50	Modeling Surface Mass Balance and Glacier Water Discharge in Tropical Glaciers of La Cordillera Blanca, Peru <u>Maria Fernanda Lozano Gacha</u> , M. Koch	09:50	Reynolds Stress Modeling of Flow in Compound Channels with Vegetated Floodplains <u>Theoharris Koftis</u> , Panayotis Prinos, Christos Papakyriassis
10:10	Sources of Uncertainty in Climate Impact Modeling at the Example of a 3D Hydrodynamic Model of the Weser Estuary <u>Anna Zorndt</u>	10:10	Fully Coupled Numerical Modelling of Wave-Current-Mud Interaction by Finite Volume Method <u>Kourosh Hejazi</u> , Saeide Sami, Mohsen Soltanpour
10:30	Effect of Sea Level Rise in Gulf of Khambhat, West Coast of India <u>S. Sathish Kumar</u> , R. Balaji	10:30	Numerical Wave Tank Modelling of Hydrodynamics of Permeable Screen <u>Kumar Rajendra</u> , Ramakrishnan Balaji
10:50- 11:15	Foyer	Coffee Break	
T6	Lecture Hall C	T15	Lecture Hall H
11:15- 12:15	Sediment Transport and Morphodynamics Chair: Huib J. de Vriend, EcoShape, Oegstgeest, Netherlands	11:15- 12:15	Mini Symposium: CFD in the nearfield of structures Chair: Carsten Thorenz, BAW, Karlsruhe, Germany
11:15	Analysis of Sediment Transport in the Middle Reach of the Yangtze River after Operation of the Three Gorges Project <u>Xiaohu Guo</u> , Yonghui Zhu, Qu Geng, Liu Xinyuan	11:15	The Validation of the Open Source CFD Toolbox OpenFOAM Regarding Wave Induced Forces on Offshore Tripod Support Structures <u>Jann Strybny</u> , Stefan Doerfeldt, Jan-Dirk Meyer, Lukas Froehling
11:35	Analysis of Morphodynamic Processes in Coastal Areas by Image Processing Methods Applied to Multibeam Data <u>Joerg Seemann</u> , Rolf Riethmueller, Martina Heinecke	11:35	Modelling of Waves and Their Interaction with Structures Using the Naval-Hydro Pack <u>Hendrik Rusche</u>
11:55	Shoreline Changes Due to Construction of Alexandria Submerged Breakwater, Egypt <u>Akram Soliman</u> , Bahaa Elsharnouby, Hamdy Elkamhawy	11:55	Analysis of Wake Effects Induced by Wind Assisted Propulsion Systems on Vessels <u>Jann Strybny</u> , Michael Vahs, Eike Ahrens, Oliver Rathmann
T8	Lecture Hall K	T2	Lecture Hall M
11:15- 12:15	Climate Change, Adaptation and Long-Term Predictions Chair: Uldis Bethers, University of Latvia, Riga, Latvia	11:15- 12:15	Experimental and Computational Hydraulics Chair: Hans Bihs, Norwegian University of Science and Technology, Trondheim, Norway
11:15	Trends in Hydrological Series: Methods and Application <u>Daniel Detzel</u> , Miriam Mine	11:15	Simulating Water Flow into a Soil Matrix and a Cylindrical Macropore <u>Leopold Stadler</u> , Kai Germer, Isaac Martinez-Noguez, Reinhard Hinkelmann
11:35	Long-Term Changes of the Tidal Amplitudes and Phases in the Elbe Estuary <u>Hartmut Hein</u> , Ulrich Barjenbruch, Stephan Mai	11:35	Study of Flow over Weirs Such as Pulteney Weir <u>Ioanna Stamatakis</u> , Jun Zang, Gerald C J Morgan, William Bazeley
11:55	On the Coastal Dynamics of Sea Level Rise in the Northern Gulf of Mexico <u>Scott Hagen</u> , Davina Passeri, Matthew Bilskie, Karim Alizad	11:55	Rainfall Simulator RS-TUHH - Planning, Construction and Use <u>Giovanni Palmaricciotti</u> , Justus Patzke, Sandra Hellmers, Natasa Manojlovic, Peter Fröhle
12:15-	Foyer	Lunch Break	

Wednesday, 1 October			
13:30			
13:30-14:15	Lecture Hall C	Keynote 5 Chair: Sam s.y. Wang, University of Mississippi, Oxford, United States	
	A Perspective of the USDA Watershed Erosion and Sedimentation Research Mathias J M Römken (USDA-ARS National Sedimentation Laboratory, USA)		
	Advances in Modeling Methodology for Agricultural Research Mustafa S. Altınakar (NCCHE, School of Engineering, University of Mississippi)		
T6	Lecture Hall C	T15	Lecture Hall H
14:20-16:00	Sediment Transport and Morphodynamics Chair: Bart Verheyen, International Marine and Dredging Consultants (IMDC) n.v., Antwerp, Belgium	14:20-16:00	Mini Symposium: CFD in the nearfield of structures Chair: Jann Strybny, University of Applied Sciences Emden/Leer, Leer, Germany
	14:20		3D Numerical Modelling of Contraction Scour under Steady Current using the Level Set Method Mohammad Saud Afzal, Hans Bihs, Øivind Asgeir Arntsen
14:40	Numerical Study of Morphodynamics and Ecological Parameters Following Alternative Groyne Layouts at the Danube River Michael Tritthart, Martin Glas, Marcel Liedermann, Helmut Habersack	14:40	Modelling of the Rifle Creek Dam Spillway and Validation Thomas Schumacher
15:00	Suspended Sediment Dynamics in the Mixing Zone - a Case Study from the Weser Estuary Frank Kösters, Steffen Grünler, Marius Becker	15:00	Hybrid Modelling of a Filling and Emptying System of a Navigation Lock Fabian Belzner, Carsten Thorenz
15:20	Modeling of Climate Change Effects on Coastal Erosion Theophanis Karambas, Panagiota Galiatsatou, Panayotis Prinos	15:20	Hybrid Modelling of Flow Processes in Underground Pump Storage Reservoirs Holger Schüttrumpf, Elena Pummer
		15:40	Simulation of Flood Scenarios with Combined 2D/3D Numerical Models Nico Gerstner, Fabian Belzner, Carsten Thorenz
T8	Lecture Hall K	T19	Lecture Hall M
14:20-16:00	Climate Change, Adaptation and Long-Term Predictions Chair: Juergen Jensen, University of Siegen, Siegen, Germany	14:20-16:00	Mini Symposium: Modeling Methodology for Agricultural Research Chair: Matt Römken, United States Department of Agriculture (USDA), Oxford, United States
	14:20		Prediction of Climate Change Impacts on Groundwater Storage by Analysis and Modeling of Hydrograph Recession Curves: Application to BarWatershed, Iran Majid Taie Semiromi, Manfred Koch, Siavash Taie Semiromi
14:40	Seasonal Sea Level Changes in the Gulf of Mexico and the Implications for Coastal Flood Risk Thomas Wahl, Sönke Dangendorf, Mark E. Luther	14:40	Simulation of Sediment Transport due to Dam Removal and Control of Morphological Changes Yan Ding, Eddy J. Langendoen
15:00	Application of Multi-Site Stochastic Daily Climate Generation to Assess the Impact of Climate Change in the Eastern Seaboard of Thailand Werapol Beiranonda, Manfred Koch	15:00	Impacts of Agricultural Activities on Water Quality in Oxbow Lakes in the Mississippi Delta Xiaobo Chao, Martin Locke, Yafei Jia, Richard Lizotte
		15:20	Using Computer Models to Design Gully Erosion Control Structures for Humid Northern Ethiopia Eddy Langendoen, Assefa Zegeye, Tigist Tebebu, Getanah Ayele, Tammo Steenhuis, Seifu Tilahun, Essayas Ayana
		15:40	Sensitivity of the Apalachicola-Chattahoochee-Flint River Basin to Changes in Land Management Scott C. Hagen, Xi Chen, Dingbao Wang
16:00-16:25	Foyer	Coffee Break	

Wednesday, 1 October			
T6	Lecture Hall C		Lecture Hall H
16:25 - 18:15	Sediment Transport and Morphodynamics Chair: Wolfgang Kron, Munich Reinsurance Company – Geo Risks Research, Munich, Germany	16:25-18:15	no session
16:25	2DH Morphodynamic Time-Dependent Hindcast Modelling of a Groyne System in Ghana <u>Vincent Gruwez</u> , Bart Verheyen, Peter Wauters, Annelies Bolle		
16:45	Calculation of Sediment Transport Capacity of Flowing Water in Rivers with Machine Learning Vasileios Kitsikoudis, Epaminondas Sidiropoulos, Lazaros Iliadis, <u>Vlassios Hrissanthou</u>		
17:05	Medium Term Time-Dependent Morphodynamic Modelling of Beach Profile Evolution in Ada, Ghana <u>Bart Verheyen</u> , Vincent Gruwez, Nicolas Zimmermann, Annelies Bolle, Peter Wauters		
17:25	Flow and Riverbed Erosion-Deposition Simulation around Submerged Water Intake <u>Zhan-feng Cui</u> , De-chao Hu		
T8	Lecture Hall K	T19	Lecture Hall M
16:25 - 18:15	Climate Change, Adaptation and Long-Term Predictions Chair: Jens Wyrwa, Federal Institute of Hydrology, Koblenz, Germany	16:25-18:15	Mini Symposium: Modeling Methodology for Agricultural Research Chairs: Matt Römken, United States Department of Agriculture (USDA), Oxford, United States Sam s.y. Wang, University of Mississippi, oxford, United States
16:25	Analysing the Effects of Climate Change on Wave Height Extremes in the Greek Seas <u>Panagiota Galiatsatou</u> , Panayotis Prinos	16:25	Modeling Agricultural Sheet, Rill, and Ephemeral Gully Erosion <u>Seth Dabney</u> , Dalmo Vieira, Daniel Yoder, Ronald Bingner, Mustafa Altinakar
16:45	A Consistent Return Level Assessment Considering Present Day and Future Mean Sea Level Conditions <u>Arne Arns</u> , Jürgen Jensen, Thomas Wahl	16:45	Watershed Runoff and Sediment Transport Impacts from Management Decisions Using Integrated AnnAGNPS and CCHE1D Models <u>Ronald Bingner</u> , Jaswant Singh, Roger Kuhnle, Robert Wells, Henrique Momm, Mustafa Altinakar, Dayong Shen
17:05	Evaluation of Reservoir Sediment Load under Climate Change <u>Farhad Yazdandoost</u> , Mohammad Reza Bazmara	17:05	Panel Discussion of Mini-Symposium: Modeling Methodology for Agricultural Research <u>Sam s.y. Wang</u> , <u>Matt Römken</u>
17:25	Approach of Characterizing Changes in the Sectors Subjected to Climate Change. Characteristics of Climate Indicators for Forestry Sector of Latvia Daiga Cepīte-Frišfelde, <u>Uldis Bethers</u> , Juris Senņikovs		
17:45	Impact of Climate Change on the River Discharge of Omo Gibe Basin Using SWAT <u>Teshome Seyoum</u>		
19:30 - 22:30	Banquet		

Thursday, 2 October			
09:00 - 09:45	Lecture Hall C	Keynote 4 Chair: Mustafa S. Altınakar, NCCHE, University of Mississippi, USA	
	Integrated Environmental Modelling – What is the Vision? Is it Achievable? Roger V. Moore, <u>Quillon Harpham</u> (HR Wallingford, Wallingford, United Kingdom)		
T1	Lecture Hall C	T10	Lecture Hall H
09:50 - 10:50	Water Resources Planning and Management Chair: Mohammad Hassan Nasermoaddeli, BAW, Hamburg, Germany	09:50- 10:50	Integrated Modeling of Hydro-Systems Chair: Quillon Harpham, HR Wallingford, Wallingford, United Kingdom
09:50	Numerical Prediction of the Efficacy of Treated Wastewater Recharge to Impede Seawater Intrusion in the Coastal Aquifer of Gaza-Palestine Hasan Sirhan, <u>Manfred Koch</u> , Khalid Qahman	09:50	Multi-Dimensional Numerical Simulation of Wind-Induced Flow and Transport Processes in an Urban Water System Ayman Jourieh, <u>Reinhard Hinkelmann</u>
10:10	Impacts of Reclaimed Water Irrigation on Heavy Metal Distribution in Soil Properties and Crop <u>Çiğdem Kalkan Aktan</u> , Kozet Yapsakli, Bulent Mertoglu	10:10	The Predominant Processes Controlling Vertical Nutrient and Suspended Matter Fluxes across Domains - Using the New MOSSCO System from Coastal Sea Sediments up to the Atmosphere <u>Richard Hofmeister</u> , Onur Kerimoglu, Carsten Lemmen, Hassan Nasermoaddeli, Kai Wirtz
10:30	Mapping of Meteorological Drought Patterns Using SPI and Different Interpolation Methods <u>Mosaad Khadr</u> , Andreas Schlenkhoff	10:30	Daily Runoff Simulation of a Coastal Watershed of Southeast China based on SWAT Model Bingqing Lin, <u>Xingwei Chen</u> , Huaxia Yao
T4	Lecture Hall K	T3	Lecture Hall M
09:50 - 10:50	Urban Water Management Chair: Giovanni Palmaricciotti, Hamburg University of Technology (TUHH), Hamburg, Germany	09:50- 10:50	Groundwater Hydrology, Irrigation Chair: Seth Dabney, United States Department of Agriculture (USDA) - (ARS), Oxford, United States
09:50	Characterization and Strategies for Implementing Sustainable Urban Drainage Systems in Consolidated Cities with High Flood Risk. Case Study: Barranquilla - Colombia <u>Humberto Avila</u> , Augusto Sisa, Tatiana De Alba, Leandro Avila	09:50	Groundwater Vulnerability Assessment Using a Common Index Model Adapted to Urban Conditions <u>Tim Wolters</u> , Manfred Koch, Mehdi Rahimian
10:10	Modelling Decentralised Systems for Urban Drainage and Flood Mitigation <u>Sandra Hellmers</u> , Natasa Manojlovic, Peter Fröhle, Giovanni Palmaricciotti	10:10	Integrating Spatial Multi Criteria Decision Making (SMCDM) with Geographic Information Systems (GIS) for Determining Suitable Areas for Artificial Groundwater Recharge <u>Mohammad Zare</u> , Manfred Koch
10:30	Water Transportation by Using Waterbuss in Banjir Kanal Timur (BKT) to Reduce Traffic Jam in Jakarta <u>Aqus Suryono</u> , Yuliar Azmi Adhitama, Dzul Khairina Tamimi	10:30	Evaluation of Automatic Irrigation System in Paddy for Water and Energy Saving and Environmental Conservation Koshi Yoshida, Kenji Tanaka, Ryunosuke Hariya, Issaku Azechi, Toshiaki Iida, Shigeya Maeda, Hisao Kuroda
10:40 11:15	Foyer	Coffee Break	
T1	Lecture Hall C		Lecture Hall H
11:15 - 12:15	Water Resources Planning and Management Chair: Reinhard Hinkelmann, Technical University of Berlin, Berlin, Germany	11:15- 12:15	No session
11:15	A Sequential Simulation-Optimization Model for Water Allocation from the Multi-Reservoir System in the Karkheh River Basin System, Iran <u>Majid Fereidoon</u> , Manfred Koch		
11:35	Grey Fuzzy Optimization of Total Nitrogen Load Allocation to Nonpoint Sources in Watershed Shigeya Maeda, Koshi Yoshida, Hisao Kuroda		
11:55	Integration of Data-Driven Modeling and Stochastic Modeling for Multi-Purpose Reservoir Simulation <u>Mosaad Khadr</u> , Andreas Schlenkhoff		
T7	Lecture Hall K	T3	Lecture Hall M
11:15 - 12:15	Interaction between Offshore Utilisation and the Environment Chair: Benjamin Fricke, BAW; Hamburg, Germany	11:15- 12:15	Groundwater Hydrology, Irrigation Chair: Frank Molkenthin, The Brandenburg University of Technology Cottbus - Senftenberg, Cottbus, Germany
11:15	Performance of an Oscillating Water Column Device with Different Bottom Profiles Subjected to Random Waves Samuel John Ashlin, <u>Sannasi Annamalaisamy Sannasiraj</u> , Vallam Sundar	11:15	A Hydro-Geochemical Evaluation of Groundwater Suitability for Irrigation and Domestic Purposes: A Case Study from Narmada Mahi Inter-Stream Region of Gujarat, India. <u>Sumit Dabral</u> , N. Sharma
11:35	Large-Eddy Simulations of a Sediment-Laden Buoyant Jet Resulting from Dredgers Using Overflow <u>Boudewijn Decrop</u> , Tom De Mulder, Erik Toorman, Marc Sas	11:35	Under- Versus Overestimation of Aquifer Hydraulic Conductivity from Slug Tests Hongbing Sun, <u>Manfred Koch</u>
11:55		11:55	Studying the Effects of an Irrigation/Drainage Network on Groundwater Table Fluctuations Using 3D Groundwater Flow Modeling <u>Mohammad Zare</u> , Manfred Koch

Thursday, 2 October			
12:15 13:20	Foyer	Lunch Break	
T1	Lecture Hall C	T18	Lecture Hall H
13:20 - 15:00	Water Resources Planning and Management Chair: Reinhard Hinkelmann, Technical University of Berlin, Berlin, Germany	13:20- 15:00	Mini Symposium: Data management in hydro-engineering Chair: Christoph Wosniok, BAW, Hamburg, Germany
13:20	A Real-Time Flow Muskingum Forecasting Model for Three Main Station of the Medjerda River (Tunisia) <u>Sahar Abidi</u> , Olfa Hajji, Hamadi Habaieb, Sinan Bacha, Ahmed Ezzine, Aymen Lazreg	13:20	Management of Marine Data in Germany <u>Johannes Melles</u> , Rainer Lehfeldt
13:40	Uncertainties of Multivariate Derived Hydrological Design Values Under Non-Stationary Conditions <u>Jens Bender</u> , Thomas Wahl, Jürgen Jensen	13:40	Data Service for German Marine Research Data <u>Steffen Beringer</u> , Gisbert Breitbach, Roland Koppe, Tim Pilz, Matthias Pramme
14:00	Construction Effects of the Karun 4 Dam, Iran, on the Groundwater in the Adjacent Karstic Aquifer. <u>Seyed Mohammad Hosseiny Sohi</u> , Manfred Koch, Javad Ashjari	14:00	Uncover Greater [or "Hidden"] Value in Maritime Data Leland Snyder, <u>George Spoelstra</u> , Tom de Puyt
14:20	Modeling of Cascade Dams and Reservoirs Operation for Hydropower Energy generation <u>Teshome Seyoum</u> , Stephan Theobald	14:20	RichWPS Orchestration Environment for Geo Services <u>Felix Bensmann</u> , Rainer Roosmann, Roman Wössner, Andreas Abecker, Carsten Heidmann
		14:40	Standardized Web Processing of Hydro-Engineering Operations <u>Christoph Wosniok</u> , Felix Bensmann, Mathias Lücker, Rainer Lehfeldt, Rainer Roosmann
T5	Lecture Hall K	T12	Lecture Hall M
13:20 - 14:20	River, Estuarine and Coastal Dynamics Chair: Richard Hofmeister, Helmholtz-Zentrum Geesthacht (HZG), Geesthacht, Germany	13:20- 14:40	Remote Sensing and Field Monitoring Chair: Joerg Seemann, Institute of Coastal Research, Helmholtz-Zentrum Geesthacht, Germany, Geesthacht, Germany
13:20	Influence of Artificial Sandbanks in the Mouth of the Elbe Estuary on Estuarine and Coastal Hydrodynamics and Mitigation of Tidal Energy for a Better Flood Defense <u>Nino Ohle</u> , Jens Kappenberg, Elisabeth Rudolph, Dagmar Schuster, Janina Sothmann	13:20	Surface Current Analysis from High Frequency Radar Measurement off the Coast of Yantai, China <u>Xiangyang Zheng</u> , Gerd Bruss, Roberto Mayerle, Cheng Tang
13:40	Coastal Storm Surge Flooding Impact under Different Climate Scenarios in Pearl River Delta <u>Li Li</u>	13:40	New Data Management System for Coastal Radar WERA to Support Decision Making <u>Leif Petersen</u> , Roberto Gomez, Thomas Helzel, Nicolas Thomas
		14:00	Joint Observation of Shoaling Ocean Waves, Currents and Bathymetric Changes Using Coherent Microwave Radar <u>Joerg Seemann</u> , Jochen Horstmann, Li-Chung Wu, Michael Stresser, Marius Cysewski, Friedwart Ziemer
		14:20	A Powerful Method of Measuring Sea Wave Spectra and Their Direction Christoph Blasi, <u>Stephan Mai</u> , Jens Wilhelmi, Theodor Zenz, Ulrich Barjenbruch
15:00 15:30	Foyer	Coffee Break	
15:30 16:00	Closing		

Changes:

Cancelled presentations:

T2-5 (Mo 12:20 M)
T1-2 (Tue 11:35 C)
T8-6 (We 11:55 K)
T6-17 (We 14:20 C)
T6-22 (We 16:25 C)
T10-3 (Thu 10:30 H)
T10-4 (Thu 11:15 H)
T10-6 (Thu 11:55 H)
T7-2 (Thu 11:35 K)
T10-6 (Thu 11:55 H)
T7-4 (Thu 13:20 K)

Moved presentations:

Session Change T13-4 <-> T13-3 (Tue 10:30 <-> Tue 11:55 C)
Moved presentation: T1-10 to cancelled T1-2 (Tue 11:35 C)
Move insight session (We 14:20 – 16 C): T6-18, T6-19, T6-20, T6-21 each 20 min earlier
Move insight session (We 16:25 – 18:15 C), new series: T6-23, T6-25, T6-26, T6-24
Moved presentation: T10-5 to cancelled T10-3 (Thu 10:30 H)
Moved presentation: T7-3 to cancelled T7-2 (Thu 11:35 K)
Move insight session (Thu 13:20-15 C): T1-11, T1-12, T1-13, T1-14 each 20 min earlier

Changed session chair:

T1 Thu 9:50 – 10:50 <-> T1 Thu 11:15 – 12:15
T10 11:15-12:15 -> T5 13:20 – 14:20