

Session Overview (22 Jun 2025, Sunday)

| Venue | 9.30AM - 11.00AM | 11.30AM - 1.00PM | 2.00 PM – 3.30 PM | 4.00 PM – 5.30 PM |
|---------|--|------------------|--|-------------------|
| Room 2A | Workshop 1: Advancements in Air-Water Flows in Outlet Structures of Reservoir Dams | | | |
| Room 2B | Workshop 2: Bluemath: An Open-Source, Python Framework With Interactive Notebooks For Statistical Analysis And Simulation Of Coastal Climate Hazards In A Changing Climate | | | |
| Room 3A | Workshop 3: Machine Learning Approaches for Hydrologic Modelling and Data Quality Assessment | | | |
| Room 3B | Workshop 4: Advances in Experimental and Numerical Modelling of Embankment Dam and Fluvial Dike Breaching | | | |
| Room 4B | Masterclass A: Nature-based Solutions for Flooding and Water Management Resilience in a Changing Climate | | | |
| Room 5 | SIWW SPOTLIGHT 2025 | | | |
| Room C | Masterclass B: Stationarity Assessment of Hydroclimatic Extremes: Methods and Applications | | Masterclass D: Advanced Approaches in the Physical Modelling of Hydraulic Structures | |

41st IAHR World Congress (23 Jun 2025, Monday)

| Venue | 9.00AM - 10.30AM | 11.00AM - 12.30PM | 12.30PM - 2.00PM | 2.00 PM – 3.30 PM | 4.00 PM – 5.30 PM | 5.30 PM - 7.00 PM | | |
|--------------------------|------------------|-------------------|------------------|--|--|----------------------|---|---------------------|
| Room 1 | | | | IAHR 139_SS1 5th Global Water Security Seminar (1.30pm - 3pm) | | | | |
| Room 2 | | | | IAHR 1_A.2.2 Hydraulic Structures and Processes | IAHR 7_B.1.2 Flood and Droughts Management | | | |
| Room 3 | | | | IAHR 2_A.3.5 Eco- and Environmental Hydraulics | IAHR 8_A.5.5 Data- Driven Methods and Machine Learning Techniques | | | |
| Room 4 | | | | IAHR 3_A.3.1 Water Resources Management | IAHR 9_A.6.1 Advanced Experimental Techniques | | | |
| Room 5 | | | | | Singapore Business Forum (3:30 pm to 5:30pm) | | | |
| Room 6 | | | | SIWW Spotlight 2025 11.30AM-3.30PM | | | | |
| Room 7 | | | | | | | | |
| Room 8 | | | | | | | | |
| Room 9 | | | | | | | | |
| Room 11 | | | | | | | IAHR 5_A.2.4 Sediment Transport and Bathymetrical Changes | SIWW Spotlight 2025 |
| Room 12 | | | | | | | | SIWW Spotlight 2025 |
| Room 13 | | | | | | | | |
| Room 14 | | | | | | | IAHR 4_A.2.1 Coastal Processes and Hazards | |
| Room 15 | | | | | | | IAHR 6_A.5.3 Computational Methods for Hydraulic and Water Quality | |
| Hall 1 | | | | Joint Opening | IAHR Keynotes | | | |
| Hall 2A (Town Square) | | | | | | Welcome Reception | | |

**41st IAHR World Congress
(24 Jun 2025, Tuesday)**

| Venue | 9.00AM - 10.30AM | 11.00AM - 12.30PM | 12.30PM - 2.00PM | 2.00 PM – 3.30 PM | 4.00 PM – 5.30 PM | |
|---------|--|--|---|---|---|---|
| Room 1 | HLP Panel 1 – Water, Cities And Climate: Exploring Interconnectedness For A Sustainable Future | HLP Panel 2 – Flood-Resilient Cities: How do we get there? | | SIWW Spotlight 2025 | | |
| Room 2A | | | | IAHR 10_A.1.1-A.1.6 | IAHR 22_A.2.3 Enhancements in Urban Drainage Systems) | |
| Room 2B | | | | IAHR 19_B.2.5 and B.2.6 | IAHR 29_B.2.4 Nature-based Solutions for Coastal and Estuarine | |
| Room 3 | | | | IAHR 140_SS23 CORE2025 OC and Keynotes | IAHR 23_A.3.2 River Engineering and Management | |
| Room 4 | | | | IAHR 12_A.6.2 Hydrological Measurements | IAHR 24_B.1.2 Flood and Droughts Management | |
| Room 5 | | | | IAHR 13 - SS19 Southeast Asia Symposium on Coastal Protection Resisting Rising Seas – A Strategic Imperative for Southeast Asia | | |
| Room 6 | | | | IAHR 14_A.2.6 Disaster Risk Reduction | IAHR 25_A.2.6 Disaster Risk Reduction | |
| Room 7 | | | | IAHR 15_A.3.5 Eco- and Environmental Hydraulics | IAHR 26_A.3.5 Eco- and Environmental Hydraulics | |
| Room 8 | | | | IAHR 16_A.2.2 Hydraulic Structures and Processes | IAHR 27_A.2.2 Hydraulic Structures and Processes | |
| Room 9 | | | | YWP: Fireside Chat with Senior Water Professionals (1.15PM - 2.00PM) | | IAHR 17_B.1.1 Coastal Protection and Management |
| Room 10 | | | | | IAHR 13 - SS19 Southeast Asia Symposium on Coastal Protection Resisting Rising Seas – A Strategic Imperative for Southeast Asia | |
| Room 11 | | | IAHR 18_A.2.1 Coastal Processes and Hazards | IAHR 141_SS23 CORE2025 #1 | | |
| Room 12 | | | IAHR 20_SS35 Uniting for Water: Global Collaboration to Tackle Water Challenges | IAHR 142_SS23 CORE2025 #2 | | |
| Room 13 | | | IAHR 21_SS3 Advanced Measuring Techniques for Ocean Waves and Currents | IAHR 30_SS13 Enhancing Water and Social Resilience in Urban Areas: A call for City Water Leaders | | |
| Room C | | | IAHR 11_A.2.5 Forecasting and Warning | IAHR 28_A.3.4 Urban Hydraulics | | |

41st IAHR World Congress
(25 Jun 2025, Wednesday)

| Venue | 9.00AM - 10.30AM | 11.00AM - 12.30PM | 12.30PM - 2.00PM | 2.00 PM – 3.30 PM | 4.00 PM – 5.30 PM |
|---------|---|--|---|--|---|
| Room 1 | HLP Panel 3 – Empowering a Just and Inclusive Energy Transition: The Strategic Role of Hydropower | Donald R. F. Harleman Lectureship (11am - 11.30am) | HLP Panel 4 – From Digital Acceleration to Real-World Impact: Scaling Innovation in Water Engineering (11.30am - 1pm) | IAHR 143_John F. Kennedy Student Paper Competition | |
| Room 2 | | | IAHR_Poster Presentation Session 1 (1.00PM - 2.00PM) | IAHR 31_SS28 River Ethics and Water Engineering | IAHR 40_A.5.3 Computational Methods for Hydraulic and Water Quality |
| Room 3 | | | IAHR_Poster Presentation 2 (1.00PM - 2.00PM) | IAHR 32_SS22 Integrated Flood Risk Management (IFRM): from Science to Practice | IAHR 41_SS15 Flood adaptation and resilience |
| Room 4 | | | IAHR_Poster Presentation 3 (1.00PM - 2.00PM) | IAHR 33_A.2.4 Sediment Transport and Bathymetrical Changes | IAHR 42_SS32 Surrogate techniques for monitoring sediment transport in fluvial and transitional systems |
| Room 5 | | | SIWW Spotlight 2025 | | |
| Room 6 | | | SIWW Spotlight 2025 | | |
| Room 7 | | | IAHR 34_A.2.2 Hydraulic Structures and Processes | IAHR 43_A.2.2 Hydraulic Structures and Processes | |
| Room 8 | | | IAHR 35_SS6 Concept of Adaptation – Coastal Measure and Climate Change | IAHR 44_A.3.5 Eco- and Environmental Hydraulics | |
| Room 9 | | | Fireside Chat with Senior Water Professionals (1.15PM - 2.00PM) | IAHR 36_A.4.2 Marine Renewable Energy Systems (Wave Power, Tidal Power, Hybrid Solutions, etc) | IAHR 45_SS16 Flood hazard projections and adaptation strategies in low lying coastal areas |
| Room 14 | | | IAHR 37_SS33 Transport dynamics of plastic pollution in aquatic environments Session 1 | IAHR 46_SS33 Transport dynamics of plastic pollution in aquatic environments Session 2 | |
| Room 15 | | | IAHR 38_SS17 Guidelines for adaptation to climate change in water engineering | IAHR 47_SS21 Innovative Water Engineering for Sustainable Development in Latin America | |
| Room 11 | | | IAHR 144_SS23 CORE2025 #3 | IAHR 146_SS23 CORE2025 #5 | |
| Room 12 | | | IAHR 145_SS23 CORE2025 #4 | IAHR 147_SS23 CORE2025 #6 | |
| Room 13 | | | IAHR 39_SS24 Nature-based Solutions Connecting Science and Practise Workshop | IAHR 48_A.3.6-A.3.11 | |

**41st IAHR World Congress
(26 Jun 2025, Thursday)**

| Venue | 9.00 AM – 10.30 AM | 11.00 AM – 12.30 PM | 12.30PM - 1.30PM | 1.30 PM – 3.00 PM | 3.30 PM – 5.00 PM |
|---------|--|--|---|---|--|
| Room 1 | IAHR 148_Global Water Institutes Meeting on Digital Transformation of the Water Sector Accelerators and Risks | IAHR 151_Meeting Platform of National Associations | | IAHR 76_A.2.4 Sediment Transport and Bathymetrical Changes | IAHR 154_IPPEN & GMA (5.00PM - 6.30PM) |
| Room 2 | IAHR 49_A.2.3 Enhancements in Urban Drainage Systems | IAHR 62_SS34 Trends and Variations in Hydroclimatic Variables: Links to Climate Variability and Change | | IAHR 77_A.1.1-A.1.6 | IAHR 91_SS36 Water System Operation and Digital Twin |
| Room 3 | IAHR 50_SS9 Debris and Driftwood Accumulation at Hydraulic Structures | IAHR 63_A.2.5 Forecasting and Warning | | IAHR 78_SS31 Socio-economic challenges in Asia: future roles of urban water network modelling and optimization | IAHR 92_A.5.7 Other Related Topics |
| Room 4 | IAHR 51_A.2.4 Sediment Transport and Bathymetrical Changes | IAHR 64_SS20 Innovative Approaches to Urban Resilience: Addressing Flood Risks and Climate Adaptation | | IAHR 79_SS4 Advanced technologies applied for Flash Flood Defence and Management | IAHR 93_A.6.5 Environmental Management and Monitoring |
| Room 5 | IAHR 52_SS25 Nature-based solutions for water security: Recent progress in Monitoring, Evaluation, and Reporting (08.45am - 10.15am) | IAHR 65_A.3.2 River Engineering and Management (10.45am - 12.30pm) | | IAHR 80_A.3.1 Water Resources Management | IAHR 94_A.3.1 Water Resources Management |
| Room 6 | SIWW Spotlight 2025 | | | | |
| Room 7 | IAHR 53_SS26 New Hydroinformatics Strategy and Application of Catchment Digital Twin | IAHR 66_A.2.1 Coastal Processes and Hazards | | IAHR 81_B.1.2 Flood and Droughts Management | IAHR 95_A.6.7 Remote Sensing – Others (Unmanned Aerial Vehicles (UAV), Radar, etc) |
| Room 8 | IAHR 54_A.2.6 Disaster Risk Reduction (08.45am - 10.30am) | IAHR 67_B.2.4 Nature-based Solutions for Coastal and Estuarine | | IAHR 82_B.2.3 Nature-based Solutions for Large Rivers | IAHR 96_B.2.2 Nature-based Solutions for Upstream Catchments and Small Streams |
| Room 9 | IAHR 55_SS12 Emerging Issues for Water Management in Remote Regions with Interplay of Climate Change Social, Economic, and Environmental Factors | IAHR 68_SS8 Dam Safety: Addressing modern challenges and future risk | Fireside Chat with Senior Water Professionals (1.15PM - 2.00PM) | IAHR 83_A.5.5 Data-Driven Methods and Machine Learning Techniques | IAHR 97_A.5.5 Data-Driven Methods and Machine Learning Techniques |
| Room 10 | IAHR 56_A.6.2 Hydrological Measurements (8.45am - 10.15am) | IAHR 69_A.5.3 Computational Methods for Hydraulic and Water Quality (10.45am - 12.30pm) | | IAHR 84_SS7 Current Research in coastal protection and flood resilience conducted in CFI Singapore Session 1 | IAHR 98_SS7 Current Research in coastal protection and flood resilience conducted in CFI Singapore Session 2 |
| Room 11 | IAHR 149_SS23 CORE2025 #7 | IAHR 72_SS10 Earth Observation to monitor land and water ecosystems | | IAHR 153_How To Write A Good Paper For The Journal Of Hydraulic Research By Prof Panayiotis Diplas, Lehigh University, United States And JHR Editor | IAHR 100_SS29 Safety Assessment for Instream Installations using Multi-Sensor-Based Remote Technology |
| Room 12 | IAHR 150_SS23 CORE2025 #8 | IAHR 152_SS23 CORE2025 #9 | | IAHR 87_B.1.3 Improvement in Design Guidance under Climate Change | IAHR 101_A.6.9 Data Uncertainty Analysis and Assessment |
| Room 13 | IAHR 59_SS5 Advances on the study of vegetation in a variety of settings Session 1 | IAHR 73_SS5 Advances on the study of vegetation in a variety of settings Session 2 | | IAHR 88_SS27 Outfall systems and effluent discharges | IAHR 102_A.2.7 Other Related Topics |
| Room 14 | IAHR 58_A.6.3 Water Quality Sampling and Analysis (8.45am - 10.30am) | IAHR 70_A.2.2 Hydraulic Structures and Processes | | IAHR 85_SS2 Adaptive management of riparian vegetation in the era of climate change | IAHR 99_SS2 Adaptive management of riparian vegetation in the era of climate change |
| Room 15 | IAHR 57_A.5.1 Artificial Intelligence (AI) Tools for Analysis and Decision Support under Certainties (8.45am - 10.15am) | IAHR 71_A.5.6 Hydroinformatics and Big Data Analytics (10.45am - 12.30pm) | | IAHR 86_SS30 Sediment management for reservoir sustainability | IAHR 155_SS23 CORE2025 Closing |
| Room 16 | IAHR 60_A.2.2 Hydraulic Structures and Processes (8.45am - 10.15am) | IAHR 74_A.6.1 Advanced Experimental Techniques Session 2 (10.45am - 12.30pm) | | IAHR 89_A.4.3 Offshore Renewable Energy Systems (Offshore Wind Power, Oceanic Current Power, etc) | IAHR 103_A.4.1 Reservoir Renewable Energy Systems (Hydropower, Floating Solar, etc) |
| Room 17 | IAHR 61_A.5.4 Computational Methods for Coastal Processes (Waves, Currents, etc.) | IAHR 75_A.4.1 Reservoir Renewable Energy Systems (Hydropower, Floating Solar, etc) | | IAHR 90_SS11 Education and professional development: the needs of water professionals in a changing environment and society | IAHR 104_A.2.2 Hydraulic Structures and Processes |

**41st IAHR World Congress
(27 Jun 2025, Friday)**

| Venue | 9.00AM - 10.30AM | 11.00AM - 12.30PM | 12.30PM - 2.00PM |
|----------------|---|--|----------------------------|
| Room 1 | IAHR 105_A.2.3 and A.3.5 | IAHR 122_A.3.3 Reservoirs Management | Closing (12.30pm - 1pm) |
| Room 2 | IAHR 106_A.2.2 Hydraulic Structures and Processes | IAHR 123_A.2.2 and A.3.4 | |
| Room 3 | IAHR 107_A.6.6 and B.2.7 | IAHR 124_A.5.3 Computational Methods for Hydraulic and Water Quality | |
| Room 4 | IAHR 108_A.2.5 Forecasting and Warning | IAHR 125_A.6.1 Advanced Experimental Techniques | |
| Room 5 | IAHR 109_A.2.4 Sediment Transport and Bathymetrical Changes Assessment | IAHR 126_B.1.2 Flood and Droughts Management | |
| Room 6 | IAHR 110_A.2.6 Disaster Risk Reduction | IAHR 127_A.2.6 Disaster Risk Reduction | |
| Room 7 | IAHR 111_A.3.5 Eco- and Environmental Hydraulics | IAHR 128_A.3.5 Eco- and Environmental Hydraulics | |
| Room 8 | IAHR 112_A.2.1 Coastal Processes and Hazards | IAHR 129_A.5.4 Computational Methods for Coastal Processes (Waves, Currents, etc.) | |
| Room 9 | IAHR 113_A.3.2 River Engineering and Management | IAHR 130_A.5.5 Data-Driven Methods and Machine Learning Techniques | |
| Room 10 | IAHR 114_A.6.2 Hydrological Measurements (Flow, Groundwater, Precipitation, etc.) | IAHR 131_A.4.4 Water-Energy-Food Nexus | |
| Room 14 | IAHR 115_B.2.4 Nature-based Solutions for Coastal and Estuarine Waters | IAHR 132_B.2.6-B.2.7 | |
| Room 15 | IAHR 116_A.3.1 and B.1.2 | IAHR 133_A.4.5-A.4.6 | |
| Room 11 | IAHR 117_A.3.4 Urban Hydraulics | IAHR 134_B.2.1 Innovative Solutions for City in Nature with Water | |
| Room 12 | IAHR 118_B.3.1-B.3.11 | IAHR 135_A.6.4 and B.2.2 | |
| Room 13 | IAHR 119_B.1.5 Resilience Strategies for Extreme Events | IAHR 136_A.3.2 River Engineering and Management | |
| Room 16 | IAHR 120_B.1.3 Improvement in Design Guidance under Climate Change | IAHR 137_B.1.1 Coastal Protection and Management | |
| Room 17 | IAHR 121_A.6.1 Advanced Experimental Techniques | IAHR 138_A.5.2 Computational Methods for Climate and Meteorology | |

**41st IAHR World Congress
22 - 27 June 2025**

| Session ID | Session Date | Session Day | Session Start Time | Session End Time | Session Location | Speaker Type | Topic/ Theme (Session Title) | Abstract ID | Abstract Title | Presenting Author(s) Full Name | Session Chair Full Name |
|------------|------------------|----------------|--------------------|------------------|------------------|--------------|--|-------------|---|--------------------------------|-------------------------|
| Workshop 1 | 22-Jun-2025 | Sunday | 10:00 | 16:30 | ROOM 2A | Workshop | Advancements in Air-Water Flows in Outlet Structures of Reservoir Dams | | Introduction on safety of outlet structures of reservoir dams | Robert Boes | Matthias Bürgler |
| | | | | | | | | | State-of-the-art air-water flow instrumentation | Stefan Felder | |
| | | | | | | | | | Safe design of low-level outlets | Simone Pagliara | |
| | | | | | | | | | Development of self-aerated flows along micro-rough spillway chutes | Matthias Bürgler | |
| | | | | | | | | | Mitigation of cavitation and aerators on spillway chutes | Dan Gessler | |
| | | | | | | | | | Uplift pressures and hydraulic jacking on spillways | Janine Vögele | |
| | | | | | | | | | Uplift pressures and hydraulic jacking on spillways (pre-recorded video) | Tony Wahl | |
| Workshop 2 | 22-Jun-2025 | Sunday | 9:30 | 16:00 | ROOM 2B | Workshop | BlueMath: An Open-Source, Python Framework with Interactive Notebooks for Statistical Analysis and Simulation of Coastal Climate Hazards in a Changing Climate | | Introduction to the short-course. | Fernando Mendez | Fernando J. Mendez |
| | | | | | | | | | Data Mining Techniques. | Fernando Mendez | |
| | | | | | | | | | Downscaling to nearshore areas. | Valvanuz Fernandez-Quiruelas | |
| | | | | | | | | | Downscaling of Tropical Cyclone induced waves and surge | Beatriz Perez-Diaz | |
| | | | | | | | | | Wave Climate Variability | Beatriz Perez-Diaz | |
| | | | | | | | | | Statistical Downscaling | Mirian Jimenez | |
| | Towards BlueMath | Mirian Jimenez | | | | | | | | | |
| | | | | | | | | | Data Analysis Methods: Exploratory and Confirmatory, Big Data Essentials, Hydroinformatics and Hydroanalytics. Introduction to Statistical and Machine Learning (ML): Fundamentals | Ramesh S. V. Teegavarapu | Ramesh Teegavarapu |
| | | | | | | | | | Overview of ML techniques: Classification, Clustering, predictive modelling. Pattern recognition, anomaly detection, dimensionality reduction. | Ramesh S. V. Teegavarapu | |

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|------------|--|-----------------|--------------------|------------------|------------------|--------------|--|---|---|--------------------------------------|-------------------------|
| Workshop 3 | 22-Jun-2025 | Sunday | 9:30 | 16:00 | ROOM 3A | Workshop | Machine Learning Approaches for Hydrologic Modelling and Data Quality Assessment | | Tree-based Approaches: Decision trees, Regression, Model trees, and Related Ensemble Approaches. | Ramesh S. V. Teegavarapu | |
| | | | | | | | | | Clustering (K-means and variants), Classification (KNNs and variants), Support Vector Machines. | Ramesh S. V. Teegavarapu | |
| | | | | | | | | | Regression Approaches (K-NN, Gaussian Kernel Regression, Logistic Regression) | Ramesh S. V. Teegavarapu | |
| | | | | | | | | | Artificial Neural Networks (ANNs) and Deep Learning (DL) | Ramesh S. V. Teegavarapu | |
| | | | | | | | | ML techniques for Hydrologic Modelling, Data quality assessment, missing data estimation, and prediction. | Ramesh S. V. Teegavarapu | | |
| | | | | | | | | Evaluation of ML-based Models: Calibration and Validation | Ramesh S. V. Teegavarapu | | |
| | | | | | | | | Concluding Remarks: Emerging ML Approaches and Directions for Future Research | Ramesh S. V. Teegavarapu | | |
| Workshop 4 | 22-Jun-2025 | Sunday | 9:30 | 17:30 | ROOM 3B | Workshop | Advances in Experimental and Numerical Modelling of Earth Dam and Fluvial Dike Breaching | | Welcome and Intro: Dam and dike breach research: relevance and where are we now? | Robert Boes | Matthew Halso |
| | | | | | | | | | Opening Remarks: Introduction and JHR Article Collection on Breaching of Earth Structures | Silvia Amaral | |
| | | | | | | | | | Opening Remarks: Introduction and JHR Article Collection on Breaching of Earth Structures | Matthew Halso | |
| | | | | | | | | | Formation of breaches in fluvial dikes: contribution of experimental modeling | Kamal El Kadi Abderrezzak | |
| | | | | | | | | | The Influence of River Hydraulics and Embankment Water Content on Breach Morphology and Outflow Dynamics in Fluvial Dikes | Silvia Amaral | |
| | | | | | | | | | Effects of Sand Size and Overtopping Conditions on Dike Breach Evolution | Masoumeh Ebrahimi | |
| | | | | | | | | | Experimental investigation of zoned embankment dam failure | Matthew Halso | |
| | | | | | | | | | New method for simulation of zoned dam breaching | Matthew Halso | |
| | | | | | | | | | New method for simulation of zoned dam breaching | David Vetsch | |
| | | | | | | | | | DLBreach model: overtopping and piping failure, and multidirectional flow | Weiming Wu | |
| | | | | | | | | | Simulating overtopping breach with physically-based models, 2D depthaveraged models, and CFD | Kamal El Kadi Abderrezzak Zied Amama | |
| | Simulating overtopping breach with physically-based models, 2D depthaveraged models, and CFD | Zied Amama | | | | | | | | | |
| | Dike breach model developed with machine-learning, coupled with a 2D hydrodynamic model | Vincent Schmitz | | | | | | | | | |

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|---------------|--------------|-------------|--------------------|------------------|------------------|--------------|---|--|---|--------------------------------|-------------------------|
| | | | | | | | | | Benchmark test on breach modeling | Masoumeh Ebrahimi | |
| | | | | | | | | | Dam and dike breach research: what to expect in the future? | Rui Ferreira | |
| Masterclass A | 22-Jun-2025 | Sunday | 9:30 | 17:30 | ROOM C | Masterclass | Nature based Solutions for Flooding and Water Management Resilience in a Changing Climate | | Introductory Lecture | Ellis Penning | |
| | | | | | | | | | Introductory Lecture | Catherine Wilson | |
| | | | | | | | | | Introductory Lecture | Fotis Sotiropoulos | |
| | | | | | | | | | Session 1: Concept, Processes and Monitoring Design | Ellis Penning | |
| | | | | | | | | | Session 1: Concept, Processes and Monitoring Design | Catherine Wilson | |
| | | | | | | | | | Session 2: Concept, Processes and Modelling Design | Ellis Penning | |
| | | | | | | | | | Session 2: Concept, Processes and Modelling Design | Fotis Sotiropoulos | |
| Masterclass B | 22-Jun-2025 | Sunday | 9:30 | 11:00 | ROOM C | Masterclass | Stationarity Assessment of Hydroclimatic Extremes: Methods and Applications | | Stationarity and Non-stationarity in a time series – overview, processes, conceptualization, importance, and debate; Parametric and non-parametric assessments | Ramesh S. V. Teegavarapu | Priyank J. Sharma |
| | | | | | | | | | Traditional approaches for stationarity detection – trend analysis, change point analysis, unit root assessment; Non-overlapping block-stratified random sampling (NBRS) approach | Priyank J. Sharma | |
| | | | | | | | | | Modified NBRS approach; Application of traditional and NBRS approach in stationarity assessment of hydroclimatic extremes and drought characteristics | Achala Singh | |
| Masterclass D | 22-Jun-2025 | Sunday | 14:00 | 15:30 | ROOM C | Masterclass | Advanced Approaches in the Physical Modelling of Hydraulic Structures | | Introduction and Context Welcome and opening remarks by the session convenor. Overview of the history and advancements of the Hydraulics Laboratory at IIT Roorkee. | Muhammed Hashid | |
| | | | | | | | | | Basics of the physical modelling of rivers and hydraulic structures. Sub-Topic: Case studies of physical modelling of spillways and desilting basins | Zulfequar Ahmad | |
| | | | | | | | | | Case studies of physical modelling of sediment transport in rivers and at hydraulic structures | Nils Ruther | |
| | | | | | | | | | Q&A Session Interactive session allowing participants to engage with the speakers. Discussion on the future needs and challenges in experimental hydraulics. | | |
| | | | | | | | | Catchment pollution control and Singapore Active, Beautiful and Clean Waters Programme | Pang Chee Meng | | |

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|------------|--------------|-------------|--------------------|------------------|------------------|-------------------|--|-------------|--|--------------------------------|-------------------------|
| 139 | 23-Jun-2025 | Monday | 13:00 | 15:00 | ROOM 1 | Special Session 1 | 5th Global Water Security Seminar | | Practice and Exploration of Chinese Water Enterprises in Biodiversity Conservatio | LIU Hairui | |
| | | | | | | | | | The Piracema Channel, fish passage of ITAIPU - conclusions and challenges after long-term monitoring | Caroline Henn | |
| | | | | | | | | | Digital Twin Empowering Biodiversity Conservation in the South-to-North | LIU Zhengbing | |
| | | | | | | | | | TBC | Aude-Sophie Rodella | |
| | | | | | | | | | Innovative Practices of Biodiversity in the Construction of the Datengxia Gorge Water Conservancy Project | HU Mangquan | |
| 1 | 23-Jun-2025 | Monday | 14:00 | 15:30 | ROOM 2 | Technical Session | A.2.2 Hydraulic Structures and Processes | 15 | Prototype Observations At A Smooth Converging Chute Spillway Between 1997 And 2024 | Hubert Chanson | Bruce Melville |
| | | | | | | | | 192 | Investigation On The Impact Of Chloride Ion Corrosion In Marine Environments On The Durability Of Rc Piles | Xiaoqing He | |
| | | | | | | | | 137 | Numerical Study Of The Flow In An Array Of Cylinders Constituting A Schematic Porous Medium | Damien Violeau | |
| | | | | | | | | 18 | The Influence Of Sand Saturation On Riprap Stability At Culvert Outlet | Taeksang Kim | |
| | | | | | | | | 20 | Piano Key Weir Research: From Past To Future | Lisa Lüddecke | |
| | | | | | | | | 359 | Three-Dimensional Analysis Of Blockage Ratio Impacts On Vorticity And Hydrodynamic Loading For Circular Cylinders In Narrow Channels | TRUC TRAN | |
| 2 | 23-Jun-2025 | Monday | 14:00 | 15:30 | ROOM 3 | Technical Session | A.3.5 Eco- and Environmental Hydraulics | 387 | Laboratory Experiments And Numerical Simulation Of Ice Melting In Water Current | Chia-Ren CHU | |
| | | | | | | | A.3.5 Eco- and Environmental Hydraulics | 180 | Three-Dimensional Hydrodynamic Simulations Indicate Instantaneous Pathways For Fish Passage | Federica Scolari | |
| | | | | | | | A.3.5 Eco- and Environmental Hydraulics | 203 | Relationship Between The Form Of Channelized Streams And Community Dynamics Of Fish And Benthic Invertebrates Due To Flood Disturbance | Koji Hijikata | |
| | | | | | | | A.3.5 Eco- and Environmental Hydraulics | 310 | Influence Of Pumped Hydropower Storage Operations On Reservoir Ecosystems: A Numerical Study On Thermal Stratification | Melina Sattelmeyer | |
| | | | | | | | A.3.5 Eco- and Environmental Hydraulics | 180 | Influence Of Bragg Resonance On Wave Reflection In Artificial Oyster Reefs | Federica Scolari | |
| | | | | | | | A.1.4 Carbon Sequestration and Storage in Aquatic Environments | 848 | The Influence Of Stratified Shear Instabilities On Particle Sedimentation With Application To Marine Carbon Dioxide Removal | Adam Yang | |

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| 3 | 23-Jun-2025 | Monday | 14:00 | 15:30 | ROOM 4 | Technical Session | A.3.1 Water Resources Management | 273 | Extending Simdeum: A Novel Approach To Modelling Water Demand In Educational And Food Service Sectors | Hugo Jacque | Van Thanh Van Nguyen |
| | | | | | | | | 597 | Assessing The Probability Of Drought Occurrence Based On A Scenario-Neutral Approach: A Case Study Of The Seomjin River Basin, South Korea | Jiyoung Kim | |
| | | | | | | | | 82 | Impact Of Cascade Reservoirs On Nutrients Transported Downstream Andregulation Method Based On Hydraulic Retention Time | Qinghui Zeng | |
| | | | | | | | | 376 | Meeting Water Demand For Supplemental Irrigation In Poland Through Small Water Retention And Tile Drainage System Management | Tomasz Okruszko | |
| | | | | | | | | 569 | Development Of Decision-Making Support Tools(Er-Dsp) For Water Distribution Between Regions In Case Of Water Shortage | Darae Kim | |
| | | | | | | | | 23 | Aquifer Storage And Recovery In Qatar: A Study Through Numerical Modeling | Ali Al-Maktoumi | |
| 4 | 23-Jun-2025 | Monday | 13:30 | 15:00 | ROOM 14 | Technical Session | A.2.1 Coastal Processes and Hazards | 1001 | Shoreline Prediction Along The Northern Chennai Coast Of India | Sannasiraj Sannasi Annamalaisamy | Phillip Liu |
| | | | | | | | | 1116 | Gpu-Enhanced Land-Sea Integration Model For Inundation During Storm Surge With Lts-Based Shallow Water Model | He Ma | |
| | | | | | | | | 319 | Hydraulic Performances Of Vertical Caissons With Retreated Crown Wall | Alessandro Romano | |
| | | | | | | | | 972 | Experimental Investigation On Flow Characteristics At Transitions In Roughness On Dikes Due To Overflow | Ina Schulte | |
| | | | | | | | | 307 | Numerical Wave Simulation Based On Two-Phase Lattice Boltzmann Method | jiahe zhou | |
| | | | | | | | | 755 | Analysis Of Shoreline Change Patterns In Pocket Beach: Study Case In Cemagi Beach, Bali, Indonesia | Firtana Hanifah | |
| 5 | 23-Jun-2025 | Monday | 14:00 | 15:30 | ROOM 11 | Technical Session | A.2.4 Sediment Transport and Bathymetrical Changes Assessment | 929 | Evaluation Of Relative Mobility Of Exposed Particles Using Conditional Averaging Of Turbulent Peak Flow Events | Panayiotis Diplas | Silke Wieprecht |
| | | | | | | | | 297 | A Unified Modeling Framework For Bedload And Suspended Transport In Two-Dimensions | Kim-Jehanne Lupinski | |
| | | | | | | | | 168 | Dynamics Of Estuarine Circulation And Morphological Alterations: A Case Study Of The Vietnamese Mekong Delta | Menna Allah Ahmed | |
| | | | | | | | | 1238 | A Model For Equilibrium Contraction Scour Depth At Bridges On Catchment Scale | Mohamed Fainaz Mohamed Inamdeen | |
| | | | | | | | | 293 | Analysis Of Sedimentation, Short Term General Scour And Local Scour At Bridge Piers During Floods | Oscar Link | |

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| | | | | | | | | 724 | Numerical Study On Spatio-Temporal Dynamics Of Sediment Flux And Its Sensitivity To Sediment Supply In Gravel-Bed River | Karimullah Sefat | |
| 6 | 23-Jun-2025 | Monday | 14:00 | 15:30 | ROOM 15 | Technical Session | A.5.3 Computational Methods for Hydraulic and Water Quality Modelling | 699 | Flood Mapping Breakthrough: 2D Presentation Of 3D Scalar Solutions | Alastair BARNETT | Weiming Wu |
| | | | | | | | | 178 | Improving Water Quality Modelling In Water Distribution Network: A New Indicator For Accurate 1d-2d Model Integration | Gabriele Freni | |
| | | | | | | | | 460 | Spatial And Temporal Variations In Water Quality Of A Cold-Region River In 2000-2021 | Ge Yang | |
| | | | | | | | | 512 | Development Of Integrated Analysis For Runoff, River Flow And Flooding Flow (Rri-Rf2d Model) | Nozomu Mitsui | |
| | | | | | | | | 279 | Improving Water Quality Model Performance With Autocalibration: Assessing Impact Of Hydrological Variability | Tianyu Fu | |
| | | | | | | | | 337 | Applicability And Limitations Of 3d Numerical Models In Predicting The Morphological Changes At Open Channel Junction | Abhishek Pandey | |
| 7 | 23-Jun-2025 | Monday | 16:00 | 17:30 | ROOM 2 | Technical Session | B.1.2 Flood and Droughts Management | 974 | Attribution Analysis Of The Impact Of Climate Change And Human Activities On Flood Trends In Typhoon-Affected Regions | Xingwei Chen | James Ball |
| | | | | | | | | 106 | A Conditional Probabilistic Approach To Analyze Drought Propagations In Southeast Asia | XIAOSHENG QIN | |
| | | | | | | | | 134 | Urban Flood Simulations Accounting For Large Underground Infrastructure And Infiltration | Reinhard Hinkelmann | |
| | | | | | | | | 785 | Future Global Flood Risk By Considering The Dynamics Of Hazard, Exposure, And Vulnerability | Hossein Tabari | |
| | | | | | | | | 437 | Detection Of Flow Transition Between Lowland Watersheds During Intensive Rainfall In The Mixed Urban-Rural Environment | Tomasz Dysarz | |
| | | | | | | | | 283 | Flood Vulnerability Analysis In East Kupang Sub-District, East Nusa Tenggara - Indonesia | Ratno Robson Klau | |
| 8 | 23-Jun-2025 | Monday | 16:00 | 17:30 | ROOM 3 | Technical Session | A.5.5 Data-Driven Methods and Machine Learning Techniques | 9 | Transforming Residential Water End Use Analysis: Unleashing The Potential Of Low-Resolution Smart Metering | Rodney Stewart | Mohamed S. Ghidaoui |
| | | | | | | | | 438 | Comparison Of Performance Between Single And Global Machine Learning Models For Reservoir Storage Prediction | Helen Baron | |
| | | | | | | | | 695 | Building Trust In Machine Learning Based Quality Control Through Model Evaluation Having No Reference Data: A Case Study On Water Level Measurements | Karen Schulz | |
| | | | | | | | | 298 | Estimating Dam Seepage Rate Using Machine Learning Techniques For Dam Diagnosis | Hokuto Okabe | |

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| | | | | | | | | 407 | Modeling And Predicting Lake Hydrodynamics Under Sparse Data Conditions Using Convstm-Pinn | Zhengbang Zhou | |
| | | | | | | | | 132 | Evaluation Of Physics-Informed Neural Network (Pinn) Performance For Modelling Water Hammer | Vincent Tjuatja | |
| 9 | 23-Jun-2025 | Monday | 16:00 | 17:30 | ROOM 4 | Technical Session | A.6.1 Advanced Experimental Techniques | 318 | Interaction Of Density-Driven Currents With A Bottom Roughness | Claudia Adduce | Marian Muste |
| | | | | | | | | 30 | Analytical Considerations About Scale Effects Applied To Landslide-Tsunamis | Valentin Heller | |
| | | | | | | | | 43 | Simultaneous Flow Rate And Roughness Measurements In Hydraulic Turbines Using A Reformulation Of The Pressure-Time Method | Michel Cervantes | |
| | | | | | | | | 77 | Hunter Rouse's View Of The Hydraulic Jump? | Jiayue Hu | |
| | | | | | | | | 94 | Influence Of Piano Key Weir Orientation On Sidewall Standing Waves And Downstream Air-Entrainment | Biruk Belay | |
| | | | | | | | | 65 | The Experimental Study Of The Velocity Distributions Around The Air-Water Interface With Respect To Wave Breaking In Coastal Region | Ruey-Syan Shih | |
| 10 | 24-Jun-2025 | Tuesday | 14:00 | 15:30 | ROOM 2A | Technical Session | A.1.1 - A.1.6 | 329 | An Archimedes Screw Based Barrier Modification System: Synergistic Approach To Nature Restoration And Renewable Energy Generation | Kristina Petra Zubovic | Anders Jacob Odgaard |
| | | | | | | | | 1146 | Test Bench For The Validation Of Technical Solutions For Energy Flexibility In Water Supply Networks | Francois Nuc | |
| | | | | | | | | 698 | Decarbonisation Technologies For Biogas Cocus | Jia Wang | |
| | | | | | | | | 674 | Assessing The Impact Of Cascade Dam Operation On Atmospheric Co ₂ Concentration Using Satellite Remote Sensing | Yuan Yuan Wang | |
| | | | | | | | | 872 | Adapting A Numerical Mangrove Growth Model For Assessing Australian Coastal Wetlands | Steven Sandi Rojas | |
| 11 | 24-Jun-2025 | Tuesday | 14:00 | 15:30 | ROOM C | Technical Session | A.2.5 Forecasting and Warning | 814 | Towards Local Flood Warning Systems, Deploying High Resolution Sensing To Provide Situational Awareness During And After Floods: A Uk Trial | Peter Melville-Shreeve | Ioan Nistor |
| | | | | | | | | 111 | A Study On Generalization Of Dam Inflow Prediction By Machine-Learning Based Method For Entire Japan | Takuma Suzuki | |
| | | | | | | | | 294 | Atmospheric Conditions During Compound Wind And Precipitation Extreme Events In Metro Manila, Linkages And Predictions | I Gusti Ayu Diah Valentina | |

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| | | | | | | | | 191 | Comprehensive Prediction Of Water Intake Impact From Hazardous Substances Discharged Into The Yodo River During A Tsunami | Haodong Bai | |
| | | | | | | | | 906 | A Coupled Gpu-Accelerated And Lts-Based Hydrodynamic Model For Urban Flood And Drainage Network Simulation | Yexuan Sun | |
| | | | | | | | | 79 | Research On Estimating Snow Distribution Using Ai Technology | Shoichi Kurosawa | |
| 12 | 24-Jun-2025 | Tuesday | 14:00 | 15:30 | ROOM 4 | Technical Session | A.6.2 Hydrological Measurements (Flow, Groundwater, Precipitation, etc.) | 584 | Uncovering The Drivers Of Streamflow Hysteresis: A Momentum-Based Approach For Enhanced Flow Insights | Marian Muste | Vladan Babovic |
| | | | | | | | | 311 | A Novel 5g-Based Sensor For High-Resolution Urban Precipitation Monitoring | Ruo-Qian Wang | |
| | | | | | | | | 224 | Drifting Properties Of Float In Wind-Induced Open-Channel Flow | Shun Kaneko | |
| | | | | | | | | 121 | H-Adcp Measurements In The Port Of Hamburg - A Contribution To The Understanding Of Hydromorphological Processes In A Tidal Inland Port | Suleman Shaikh | |
| | | | | | | | | 245 | Examining The Ability Of Underwater Acoustic Tomography To Measure Streamflow Within Highly Sediment Concentrations | Mohamad Basel ALSAWAF | |
| | | | | | | | | 139 | Dynamic Adjustment Of The Influence Parameter For Idw Spatial Interpolation: An Algorithm Applied To The Valley Of Mexico Basin | Roberto Abraham Vázquez-Martínez | |
| 13 | 24-Jun-2025 | Tuesday | 13:30 | 17:30 | ROOM 5, ROOM 10 | Special Session 19 | Inaugural Singapore Water Association – Southeast Asia Symposium on Coastal Protection | | | | |
| 14 | 24-Jun-2025 | Tuesday | 14:00 | 15:30 | ROOM 6 | Technical Session | A.2.6 Disaster Risk Reduction | 444 | Multivariate Analysis Of Compound Flooding In Can Tho City, Vietnam | Qihua Liang | Pengzhi Lin |
| | | | | | | | | 50 | Study On Deformation And Control Of Surrounding Rock In Inclined Coal Seam Roadways Under Seepage Effects | Tianwen Li | |
| | | | | | | | | 146 | Numerical Simulations Of Partially Submerged Farm Animals Exposed To Floodwaters | Tommaso Lazzarin | |
| | | | | | | | | 183 | Resistance Of A Gabion Against Overflow Based On A Full-Scale Experiment Of River Levee | Kengo Hori | |
| | | | | | | | | 418 | Proposal For The Evacuation Difficulty Map During Inundation | Honoka Aita | |
| | | | | | | | | 577 | People-Oriented Assessment Framework Of Compound Urban Flooding Risks In The Context Of Climate Change: A Case Study Of Hong Kong | Zhiyong LONG | |
| | | | | | | | | 541 | Effects Of A Collinear Current On Wave Damping By Seagrass Meadows | Davide Vettori | Heidi Nepf |

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| 15 | 24-Jun-2025 | Tuesday | 14:00 | 15:30 | ROOM 7 | Technical Session | A.3.5 Eco- and Environmental Hydraulics | 197 | A Hydrodynamic Analysis Of A Chinese Mitten Crab Trap Using 3d Modeling | Sengdavanh Thepphachanh | |
| | | | | | | | | 302 | The Physical Environment And The Behavior Of Crustacean Larval Under Flood Condition In The Kitagawa River Estuary, Japan | Akira Tai | |
| | | | | | | | | 664 | Alternative Downstream Passage Incorporating Swirling Flows | Reilly Cox | |
| | | | | | | | | 776 | Hydrodynamic Pressure Distribution On A Rough-Bed River Using Cfd And High-Resolution Topography | Tais Yamasaki | |
| | | | | | | | | 347 | A Method For Assessing Eutrophication Risk Of Lakes Considering Joint Effects Of Water Quality And Water Quantity And Its Application In Caohai Lake, China | Wei Huang | |
| 140 | 24-Jun-2025 | Tuesday | 14:00 | 15:30 | ROOM 3 | Special Session | Special Session OC and Keynotes | - | | | |
| 16 | 24-Jun-2025 | Tuesday | 14:00 | 15:30 | ROOM 8 | Technical Session | A.2.2 Hydraulic Structures and Processes | 17 | Preventing Overflow Instabilities On Half-Round Circular Weirs - An Innovative And Simple Approach | Hubert Chanson | Holger Schüttrumpf |
| | | | | | | | | 212 | Influence Of Sea Level Rise On A Coastal Barrier System And Its Reliability Against Future Storm Surges In The Houston-Galveston Area, Texas | Ram Balachandrar | |
| | | | | | | | | 33 | Protection Of Riverbed Downstream Of Low Head Drop Structure | Seokmin Son | |
| | | | | | | | | 81 | Experimental Study On Shock Wave Characteristics Of Cavitation Bubble Collapse Near Rigid Wall Under Low Ambient Pressures | YOUICHI YASUDA | |
| | | | | | | | | 188 | Enhanced Energy Dissipation Using A Hybrid Stilling Basin Design Downstream Of Ogee Spillways | Tong Qu | |
| | | | | | | | | 117 | Numerical Simulations Of Flash Floods In A Partially Urbanized Catchment: The Brague River Case Study (South-East France) | NISHANK AGRAWAL | |
| 17 | 24-Jun-2025 | Tuesday | 14:00 | 15:30 | ROOM 9 | Technical Session | B.1.1 Coastal Protection and Management | 229 | Coastal-Inland Flood Model For Singapore: From A Coastal Protection Agency's Perspective | Poh Hoon Ang | Bas Reedijk |
| | | | | | | 336 | | Empirical Equilibrium Beach Profile Formula For Typical Beach With Two Sandbars | Wei Xing | | |
| | | | | | | 709 | | Coastal Floodplains Are Highly Vulnerable To A Rising Low Tide – The Drainage Window Conundrum | Katrina Waddington | | |
| | | | | | | 525 | | Wave Overtopping Of Rock And Stepped Coastal Revetments With Very Shallow Foreshores | Ana Cristina Santos Mendonça | | |
| | | | | | | 707 | | Rainfall Induced Seepage And Groundwater Level Change In Sand Fill And Its Impact To Stability Of Revetment | Yaodong Zhang | | |

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| | | | | | | | | 719 | Avoiding Investment Regret: Incorporating Real Options Economics For Adaptive Coastal Protection Decisions | Alexandra Humphrey Cifuentes | |
| 18 | 24-Jun-2025 | Tuesday | 14:00 | 15:30 | ROOM 11 | Technical Session | A.2.1 Coastal Processes and Hazards | 745 | Experimental Observations Of The Incipient Motion Of Negatively Buoyant Debris During Dam-Break Waves | DAVIDE WÄOETHRICH | K Murali |
| | | | | | | | | 820 | Consideration Of Tidal Constituents For Sea Level Anomalies In Singapore Waters | Farzin Samsami | |
| | | | | | | | | 196 | Efficiency Of Pile Breakwaters In Experimental Model Tests | Hanna Brandt | |
| | | | | | | | | 320 | Assesment Of Pedestrian Risk Form Coastal Wave Overtopping: A Hybrid Quantitative Methodology | Khawar Rehman | |
| | | | | | | | | 321 | Far-Field Simulation Of A Landslide Generated Tsunami In Lake Iseo | Riccardo Bonometti | |
| | | | | | | | | 773 | Historical And Future Climate Typhoon And Storm Surge Trends In The Philippines: Case Study Of San Pedro Bay, Leyte | Justin Joseph Valdez | |
| 19 | 24-Jun-2025 | Tuesday | 14:00 | 15:30 | ROOM 2B | Technical Session | B.2.5 and B.2.6 | 582 | Assessing The Impacts Of River Restoration Measures For A Target Species: First Steps Towards New-Generation Metapopulation Models | Francesca Padoan | Sung-Uk Choi |
| | | | | | | | | 305 | Hydrodynamic Disturbance And Nutrient Accumulation Co-Shape The Depth-Dependent Prokaryotic Community Assembly In Intertidal Sediments Of A Mountainous River Estuary | Longfei Wang | |
| | | | | | | | | 401 | Rebuilding Fish Connectivity In River-Lake Systems: Hydrological Rhythm-Based Ecological Management | Jiajian Qiu | |
| | | | | | | | | 1071 | Study On Spatial Heterogeneity Evolution Of Oyster Reef In Dashentang, Tianjin | Fengze Zhao | |
| | | | | | | | | 896 | Accessing Flood Resilience Through Ecosystem Services Supply Demand Framework | Soe Soe Tun | |
| | | | | | | | | 301 | Probabilistic Method To Assess The Flood Probability Of A Tidal Culvert, Ensuring A Safe Nature And Intertidal Area Inland Of The Primary Water Defense | Maarten Schoemaker | |
| 20 | 24-Jun-2025 | Tuesday | 14:00 | 15:30 | ROOM 12 | Special Session 35 | Uniting for Water: Global Collaboration to Tackle Water Challenges | 1382 | Technology and Practice of Emergency Treatment for Barrier Lake Hazards | Yonghui Zhu | |
| | | | | | | | | 566 | Status and Issues Related to the Implementation of Integrated River Basin Management in Malaysia | Chow Hock Lim | |
| | | | | | | | | - | Flood Defense Strategies in the Era of Climate Change | Won Kim | |
| | | | | | | | | - | Modelling for Understanding and Managing the Risks of Emerging Contaminants in Water Systems in Singapore and China | Xuneng Tong | |

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| 21 | 24-Jun-2025 | Tuesday | 14:00 | 15:30 | ROOM 13 | Special Session 3 | Advanced Measuring Techniques for Ocean Waves and Currents | 1354 | An Innovative Policy Approach in Addressing Pollution Control over the Yangtze River from Source to Sea | Fang Ze | |
| | | | | | | | | - | Potential and Sustainability of Nature-Based Solutions to Global Water Challenges | Fang Yenn Teo | |
| | | | | | | | | - | Implementation and Operation of a Coastal Radar Measurement Network in Taiwan | Dong-Jiing Doong | |
| | | | | | | | | - | Waves, Sea Surface Current, and Bathymetry Determination from X-Band Marine Radar Image Sequences | Li-Chung Wu | |
| | | | | | | | | - | Data-Driven Mode Extraction in Synthetic Wave Fields: A Dynamic Mode Decomposition Framework for Validation | Xiaoping Chen | |
| 22 | 24-Jun-2025 | Tuesday | 16:00 | 17:30 | ROOM 2A | Technical Session | A.2.3 Enhancements in Urban Drainage Systems | 955 | An Application Of Ai For Building Drainage Models For Urban Catchments | James Ball | David Zhu |
| | | | | | | | | 681 | Numerical Investigation On The Mechanisms Of Air-Water In The Deep Tunnel Downstream Of A Dropshaft | Zhaolin Zheng | |
| | | | | | | | | 924 | Framework For Planning Nature-Based Solutions To Meet Long-Term Catchment Scale Pluvial Flood Mitigation Targets | Wenhui Wu | |
| | | | | | | | | 377 | Hydrological Performance Of Permeable Pavement Systems Designed Using Recycled Materials To Reduce The Impact Of Flooding | Shatirah Akib | |
| | | | | | | | | 181 | Evaluating Blue-Green Infrastructure For Urban Flood And Drought Mitigation Under Changing Climate Scenarios | Xuan Wu | |
| 23 | 24-Jun-2025 | Tuesday | 16:00 | 17:30 | ROOM 9 | Technical Session | A.3.2 River Engineering and Management | 316 | Experimental Study Of The Bifurcation Tunnel Structure And Comparison With The Prototype | Gerardo Ruiz | |
| | | | | | | | | 400 | Evaluation Of Existing Methods To Predict Flow Resistance Due To Stream Meandering | Ana Maria Ferreira da Silva | Ana Maria Ferreira da Silva |
| | | | | | | | | 1225 | Spatio-Temporal Variation Of The Morphologically Active River Corridor In Long-Duration Flume Experiments | Silke Wieprecht | |
| | | | | | | | | 1208 | Characteristics Of Shallow Mixing Layer In An Open-Channel Confluence | S. Samuel Li | |
| | | | | | | | | 115 | Optimizing Morphological Design For Ecological Restoration And Flood Resilience: A Case Study Of The Gérine River, Switzerland | Azin Amini | |

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| | | | | | | | | 476 | Dynamics Of Large Wood Transport Near The Confluence | Yuchen Zheng | |
| | | | | | | | | 451 | Numerical Modeling Of The Vegetation Effects In Rivers | Maritza Arganis | |
| 24 | 24-Jun-2025 | Tuesday | 16:00 | 17:30 | ROOM 4 | Technical Session | B.1.2 Flood and Droughts Management | 657 | Probability Of Spatio-Temporal Propagation From Meteorological To Hydrological Drought In South Korea | Ho-Jun Son | Panayiotis Diplas |
| | | | | | | | | 839 | Perspectives For Drought And Water Scarcity Management And Planning In The Iberian Peninsula. The Importance Of Common Transboundary Indicators. | Miguel Costa | |
| | | | | | | | | 934 | Climate Change Assessment Using The Integrated Water Quality Index | Sangung Lee | |
| | | | | | | | | 226 | Frequency Analysis In Flood Management: Confidence Interval Estimations Based On Pivotal Quantities In Generalized Extreme Value Distribution | Weiqiang Zheng | |
| | | | | | | | | 789 | Bridging Science And Practice: Quantifying The Multi-Benefits Of Nature-Based Solutions For Water Resilience | Michael Pollock | |
| | | | | | | | | 242 | Combined Effects Of Climate Change, Sea Level Rise, Groundwater Level Increase And Land Use Changes On Surface Runoff In Coastal Areas | Yuanyuan JIA | |
| 25 | 24-Jun-2025 | Tuesday | 16:00 | 17:30 | ROOM 6 | Technical Session | A.2.6 Disaster Risk Reduction | 340 | A Review About Flood Preparedness Of Healthcare Facilities | Maria Pregolato | Qihua Liang |
| | | | | | | | | 235 | Numerical Simulation Study On Seismic Isolation And Reduction Of Underground Structures | Haorui Chen | |
| | | | | | | | | 704 | Integration Of Stability Functions Into Transport Flood Risk Modelling Framework | Lea Dasallas | |
| | | | | | | | | 475 | Runoff Forecasting Based On Rainfall Distribution Information And The Relation Between Forecast Accuracy And Watershed Characteristics | Go OHNO | |
| | | | | | | | | 495 | Experiment Study On Dike Breaching With Top Structures | Wei Huang | |
| | | | | | | | | 199 | Research On The Flood Characteristics Of Three-Dimensional Bearing Bodies Based On Computational Fluid Dynamics | Cai Zhao | |
| 26 | 24-Jun-2025 | Tuesday | 16:00 | 17:30 | ROOM 7 | Technical Session | A.3.5 Eco- and Environmental Hydraulics | 784 | Hydraulic Performance Of A Fishway Under Different Turbine Operations: A Case Study From Switzerland | Ismail Albayrak | Gregory Lawrence |
| | | | | | | | | 808 | Hydraulic Analysis Of An Artificially Generated Guiding Stream For Improved Downstream Fish Passage At A Hydropower Dam | Anders Andersson | |
| | | | | | | | | 852 | Assessing Hydropeaking Mitigation Measures Using Casimir Model: Effects For Fish Habitat | Giuseppe Roberto Pisaturo | |

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| | | | | | | | | 904 | The Influence Of Patchy Vegetation On Tidal Flows: Field Dye Measurements Of Intra-And Inter-Patch Processes | Julia Mullarney | |
| | | | | | | | | 487 | Transverse Ribs And Gigantic Rocks Distribution In Alluvial Fan Rivers And Influence Of Geological And Anthropogenic Impacts | Kazuki Karasawa | |
| | | | | | | | | 494 | Effect Of The Jinsha River Hydropower Development On Coreius Guichenoti Long-Term Population Viability | Rui Han | |
| 27 | 24-Jun-2025 | Tuesday | 16:00 | 17:30 | ROOM 8 | Technical Session | A.2.2 Hydraulic Structures and Processes | 133 | Turbulent Profiles Of Flows On A Block Ramp Via Numerical Cfd Simulations | Kimberley Kasischke | Hubert Chanson |
| | | | | | | | | 35 | Numerical Analysis Of Micro-Mechanism Of Dam Piping Hazard Based On Dem-Lbm Method | Xudong Zhang | |
| | | | | | | | | 550 | Flow Patterns In A Supercritical Vortex Drop Shaft | Gaetano Crispino | |
| | | | | | | | | 270 | Optimization Of Hydraulic Performance Of A Gated Spillway With A Breast Wall And Unconventional Low Weir Under Curved Inflow Condition | Yuzhuang Chen | |
| | | | | | | | | 68 | Investigation Of Hydraulic Jump Roller Toe Dynamics In Open Channel Flows | Jiayue Hu | |
| | | | | | | | | 390 | Stability Of Asphalt Core Dam Under Earthquake Loads | DENIK SRI KRISNAYANTI | |
| 28 | 24-Jun-2025 | Tuesday | 16:00 | 17:30 | ROOM C | Technical Session | A.3.4 Urban Hydraulics | 686 | Towards Efficient Building Representation In 2d-Hydrodynamic Modeling | Leon Frederik De Vos | Stefan Felder |
| | | | | | | | | 231 | Improvement Of Water Supply System Infrastructure In Ende: Challenges And Solutions | INTAN SUPRABA | |
| | | | | | | | | 684 | Effect Of Speed Bumps On Hydraulics Efficiency Of Grate Inlet | Beniamino Russo | |
| | | | | | | | | 263 | Analysis Of Pedestrians Safety In Subway Station Platform By Inundated Flow | Minjae Kim | |
| | | | | | | | | 716 | Inflow And Infiltration Assessment Of A Prototype Sanitary Sewer Network | Yu Qian | |
| | | | | | | | | 208 | Application Of Smoothed Particle Hydrodynamics For Simulation Of Rainfall Runoff In Urban Terrain | Akihiko Nakayama | |
| | | | | | | | | 537 | Marsh-Fronted Seawall For Coastal Protection: Influence Of Plant Species, Seasonality, And Sea-Level Rise On Wave Dissipation And Benefit-Cost Ratio. | Heidi Nepf | Ellis Penning |
| | | | | | | | | 529 | Wave Attenuation In Laboratory Vegetated Flume With Different Vegetation Layouts | Jiarui Lei | |

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| 29 | 24-Jun-2025 | Tuesday | 16:00 | 17:30 | ROOM 2B | Technical Session | B.2.4 Nature-based Solutions for Coastal and Estuarine Waters | 867 | Experimental Investigation On Shoreline Evolution Driven By Oyster Reefs | Rafael Tinoco | |
| | | | | | | | | 356 | Informing Adaptive Development In Sensitive Coastal Habitats Using Environmental Data And Hydrodynamic Modelling | Thue Noehr Geit | |
| | | | | | | | | 1048 | Three Years Of Artificial Dune Evolution At Pilot Sites In Belgium: Monitoring, Modelling And Future Prospects | Pieter Rauwoens | |
| | | | | | | | | 251 | Wave Transformation And Wave-Induced Current Across Reef-Type Breakwater Groups With Varying Spacing | Yuhua Zheng | |
| 30 | 24-Jun-2025 | Tuesday | 16:00 | 17:30 | ROOM 13 | Special Session 13 | Enhancing Water and Social Resilience in Urban Areas: A call for City Water Leaders | - | Challenges and opportunities related to water and social resilience in urban areas under climate change from a global perspective | Sarantuyaa Zandaryaa | |
| | | | | | | | | - | Research and suggestions on climate and water resilience in urban areas | Elpida Kolokytha | |
| | | | | | | | | - | Research and suggestions on climate and water resilience in urban areas | Yonghui Zhu | |
| | | | | | | | | - | Research and suggestions on climate and water resilience in urban areas | Nicola Tollin | |
| | | | | | | | | - | Research and suggestions on climate and water resilience in urban areas | Asaad Y. Shamseldin | |
| | | | | | | | | - | Governance and planning to enhance climate and water resilience in urban areas in transboundary catchments | Rafatou Fofana | |
| 141 | 24-Jun-2025 | Tuesday | 16:00 | 17:30 | ROOM 11 | Special Session #1 | Session 1: Estuarine hydrodynamics and sediment dynamics | 1571 | Flood Channel Morpho-Dynamic Evolution in Response to Natural and Human Interferences | Xuefei Mei, Zhijun Dai, Min Zhang and Jie Wang | |
| | | | | | | | | 1526 | Biofilms as The "Ecosystem Engineers": The Microbiological Mediation of Intertidal Sediment Behavior | Xindi Chen | |
| | | | | | | | | 1583 | Machine Learning-Driven Assessment of the Largest Salt Marsh Dynamics in the Yangtze River Delta | Cong Hu, Yanyun Xing and Yonggang Jia | |
| | | | | | | | | 1512 | Flocculation-Driven Suspended Sediment Dynamics in Estuarine Fronts | Leiping Ye, Jie Ren, Huan Liu, Jiaxue Wu and Jiayao Zhang | |
| | | | | | | | | 1572 | Suspension Process of Silty Sediment under Current | Zhongxing Qiao, Yongping Chen, Peng Yao, Yuan Wang and Min Su | |
| | | | | | | | | 1591 | TURBULENT FLOW STRUCTURE IN COMPOUND CHANNELS: COMPARING THE MORPHOLOGICAL EFFECTS OF TWO EMERGENT FLEXIBLE FLOODPLAIN VEGETATION TYPES | Laxman V Rathod, Gurugubelli Yatirajulu, P V Timbadiya and Bandita Barman | |
| | | | | | | | | 1517 | Ultra-Short-Term Evolution of Salt Marsh Vegetation and It's Driving Mechanism in Liaohe Delta Wetland | Shuxiu Liang, Jiaqing Sun and Zhenhua Wang | |

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| 142 | 24-Jun-2025 | Tuesday | 16:00 | 17:30 | ROOM 12 | Special Session #2 | Session 2: Biophysical interactions and biomorphodynamics | 1531 | What controls the height of marsh edge cliffs? | Xiaotian Zhang and Zeng Zhou | |
| | | | | | | | | 1540 | Insight into the energy dissipation process by coastal vegetation for different flows | N Hari Ram and V Sriram | |
| | | | | | | | | 1314 | Impacts of Compound Fluvial Flood-Typhoon events on the Estuarine Physical and Ecological Dynamics | Jianzhong Ge and Xiangqian Zhou | |
| | | | | | | | | 1513 | The Effects of Vegetation on Shallow Jet Stability: An Experimental Study | Rupan Yan, Yunqi Liu, Jingxi Xu and Dongdong Shao | |
| | | | | | | | | 1578 | Flow-Vegetation Interaction Studies: A Historical Review of Flume Experiments (1971-2024) and Field Investigations in Urban Naturalized Waterways | Rian Mantasa Salve Prastica | |
| 143 | 25-Jun-2025 | Wednesday | 14:00 | 17:30 | ROOM 1 | | JFK Competition | 99 | INTEGRATED DECISION SUPPORT SYSTEM FOR LARGE-SCALE CASCADE RESERVOIRS UTILIZING ROLLING PREDICTION AND ADAPTIVE OPTIMIZATION | Wang Peng | |
| | | | | | | | | 315 | INTERACTIONS BETWEEN SODIUM POLYACRYLATE AND SUSPENDED SEDIMENTS IN A RIVER REACH | Mohamed Bey Zekkoub | |
| | | | | | | | | 498 | A PHYSICALLY BASED APPROACH TO STREAMFLOW TEMPERATURE MODELING: THE NLOST MODEL | Valeria Garcia Munera | |
| | | | | | | | | 1418 | EXPERIMENTAL INVESTIGATION OF FLUVIAL URBAN FLOOD FLOW DYNAMICS | Reshma Radhakrishnan | |
| | | | | | | | | 871 | COMPARISON OF FLOW PATTERN AROUND STRAIGHT AND T-HEAD SPUR DIKES | Tapas Kumar Pradhan | |
| | | | | | | | | 544 | A high resolution national database of river widths from remote sensing and cloud-based image processing | Kirby | |
| | | | | | | | | 335 | EXPERIMENTAL STUDY ON WAVE DEFORMATIONS OF AN ECOLOGICAL REEF-TYPE SUBMERGED BREAKWATER ON AN IMMOBILE FLATBED UNDER REGULAR WAVES | Li | |
| | | | | | | | | 943 | IMPACT OF HYDROPOWER DEVELOPMENT ON ZOOPLANKTON DIVERSITY AND COMMUNITY ASSEMBLY IN THE LOWER JINSHA RIVER | Zhou | |
| | | | | | | | | 186 | A Study on the Performance Evaluation of Rainfall-Runoff Reduction Facilities in Urban Watersheds | Kim | |
| | | | | | | | | - | Sustainable fisheries and water management in estuarine waters | Joseph Lee | |
| | | | | | | | | 1101 | Enhancing fish migration at diversion power plants | Elena-Maria Klopries | |
| | | | | | | | | - | River ethics and practices in China | Haihong Li | |

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| 31 | 25-Jun-2025 | Wednesday | 14:00 | 15:30 | ROOM 2 | Special Session 28 | River Ethics and Water Engineering | - | Hydrological and water quality parameters in rivers draining to Johor Strait | Athaya Qasamah Jauhari | |
| | | | | | | | | - | Localizing River Ethics in China: practical approaches and recent achievements | QiangWu | |
| | | | | | | | | - | Who Speaks for the River? Ethics, Engineering, and the Multipurpose River Landscape | Borjana Bogatinoska | |
| | | | | | | | | - | A Comprehensive Plan for Integrated Water Quality Management in The Brantas River Basin | Astria Nugrahany | |
| 32 | 25-Jun-2025 | Wednesday | 14:00 | 15:30 | ROOM 3 | Special Session 22 | Integrated Flood Risk Management (IFRM): from Science to Practice | 612 | THE STATUS AND FUTURE OF INTEGRATED FLOOD RISK MANAGEMENT – AN EXPERT ASSESSMENT | Stefan Haun | |
| | | | | | | | | 612 | THE STATUS AND FUTURE OF INTEGRATED FLOOD RISK MANAGEMENT – AN EXPERT ASSESSMENT | Daniela Molinari | |
| | | | | | | | | 1305 | CFD ANALYSIS OF HYDRODYNAMIC LOAD ON BRIDGES UNDER SUBMERGENCE AND SEDIMENT DEPOSITION | Alessio Domeneghetti | |
| | | | | | | | | 1337 | INTEGRATION OF FLOOD HAZARD, EXPOSURE, VULNERABILITY AND CAPACITY FOR THE UNESCO SITE MANAGEMENT PLAN OF FLORENCE (ITALY) | Chiara Arrighi | |
| | | | | | | | | 1407 | Propagation of uncertainty from flood inundation modeling to damage estimations: trade-offs in using channel bathymetry derived from topographic LIDAR | Anna Rita Scorzini | |
| | | | | | | | | 1473 | RECENT FLOODS IN CENTRAL EUROPE – LESSON LEARNED FROM NYSA KŁODZKA, POLAND | Pawel Rowinski | |
| | | | | | | | | 1486 | PERFORMANCE OF EARLY WARNING DURING EXTREME FLOOD EVENT: 2022 FLOOD OF NE BANGLADESH | Shampa | |
| | | | | | | | | 1056 | The Socio-economic and Environmental Impact Assessment of Floods: A Case Study | Qian Yu | |
| 33 | 25-Jun-2025 | Wednesday | 14:00 | 15:30 | ROOM 4 | Technical Session | A.2.4 Sediment Transport and Bathymetrical | 83 | Experimental Study Of Dam-Break Induced Local Scour Around Walls | Seyed Abbas Jazaeri | Fabian Bombardelli |
| | | | | | | | | 459 | One-Dimensional Physically-Based Model Of Dam And Levee Breaching Due To Overtopping Flow | Weiming Wu | |
| | | | | | | | | 625 | Assessment Of The Impact Factor On The Coastal Morphology Of Taitung, Taiwan, By Using The Eof Method | WEI-PO HUANG | |

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| | | | | | | | Changes Assessment | 918 | Influence Of Seepage-Integrated Flow Models In Predicting Overtopping Erosion Of Small Levee | Yuki Nakata | |
| | | | | | | | | 949 | Analyzing The Interaction Between Riparian Vegetation And River Morphodynamics From Hydraulic Experiments Based On Remote Sensing | Eun-kyung Jang | |
| | | | | | | | | 430 | Development Of Scour Prediction Equations For Bouldery Strata: An Analytical And Experimental Study | Abhi Sangra | |
| 34 | 25-Jun-2025 | Wednesday | 14:00 | 15:30 | ROOM 7 | Technical Session | A.2.2 Hydraulic Structures and Processes | 51 | Effects Of Group Piles On Local Scouring Around A Bridge Pier In An Open Channel | Terunori Ohmoto | Nils R ther |
| | | | | | | | | 553 | 3d Scour Due To Low-Inclined Circular Jets In Cohesive Soils: A Preliminary Analysis | MICHELE PALERMO | |
| | | | | | | | | 639 | Mitigating Saltwater Intrusion Through The Neo-Panamax Locks | Mar a Gabriela Castrellon Romero | |
| | | | | | | | | 535 | Numerical Simulation Study On The Excavation Of An Auxiliary Traffic Tunnel In A Hydropower Station | Jiaji Chen | |
| | | | | | | | | 190 | Experimental Study Of Self-Lining By Sediment Deposition Over Strip Roughness Elements | Kazumasa Matsumoto | |
| | | | | | | | | 80 | Relationship Between The Morphology And Impact Characteristics Of Cavitation Bubbles Collapse Near Elastic Boundary | Jie Li | |
| 35 | 25-Jun-2025 | Wednesday | 14:00 | 15:30 | ROOM 8 | Special Session 6 | Concept of Adaptation – Coastal Measure and Climate Change | - | Adapting for accelerating climate change. Examples of robust and nature friendly solutions | Bas Reedijk | |
| | | | | | | | | - | Nature-inclusive marine infrastructure can enhance coastal ecosystems | Remment ter Hofstede | |
| | | | | | | | | - | Sustainable Coastal Protection for Climate Adaptation | Wouter Ockeloen | |
| | | | | | | | | 486 | EXTREME STORM SURGE AND WAVE MODELLING AND ITS APPLICATION TO COASTAL ENGINEERING DESIGNS | Adrian Lai | |
| 36 | 25-Jun-2025 | Wednesday | 14:00 | 15:30 | ROOM 9 | Technical Session | A.4.2 Marine Renewable Energy Systems (Wave Power, Tidal Power, Hybrid Solutions, etc) | 36 | Irregular Wave Overtopping On A 2d Fixed Overtopping Wave Energy Converter | HAO CHEN | Sannasi Annamalaisamy Sannasiraj |
| | | | | | | | | 354 | Sensitivity Analysis Of Tidal Stream Resource Using Multi-Scale Channel Network Models | Emils Brazovskis | |
| | | | | | | | | 517 | Performance Of Different Ramp Configurations Characterizing An Overtopping Wave Energy Converter Using Joint Probability Density Functions: Preliminary Numerical Results | SAEED Osouli | |
| | | | | | | | | 692 | A Dual-Functional Slotted Breakwater Integrated With An Oscillating Water Column With A Linear Turbine: Preliminary Analytical Results | Clint Chester Reyes | |

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| | | | | | | | | 842 | Wave Energy On The North American Great Lakes: Nearshore Resource Assessments To Inform Innovative Solutions For Global Technology Development | Gracie Bahr | |
| | | | | | | | | 1039 | A Dynamical Programming Algorithm For Optimal Control Of Tidal Range Schemes | Yuxuan Liu | |
| 37 | 25-Jun-2025 | Wednesday | 14:00 | 15:30 | ROOM 14 | Special Session 33 | Transport dynamics of plastic pollution in aquatic environments | 189 | Monitoring plastic using deep learning model in a controlled laboratory environment | Ana Todorova | |
| | | | | | | | | 1074 | SEASONAL VARIATIONS OF MICRO- AND MESO-PLASTIC CONCENTRATIONS IN RIVERS UNDER NORMAL CONDITIONS | Yugo Kobayashi | |
| | | | | | | | | 1362 | STUDY ON THE RELEASE CHARACTERISTICS OF NANOPLASTICS FROM SINGLE-USE PLASTIC AND PAPER-BASED PRODUCTS | Jiwon Son | |
| | | | | | | | | 217 | Settling behavior of microplastic particles in grid-generated turbulence: a comparative study of fibers and spheres | Siamak Seyfi | |
| | | | | | | | | 1447 | PREPARATION OF SURFACE UNMODIFIED POLYSTYRENE NANOPARTICLES WITH CONTROLLABLE SIZE AND CONCENTRATION | Soobin Yang | |
| | | | | | | | | 1461 | YEARLY PLASTIC FLUX IN CROSS-BORDER REGIONS IN THE NETHERLANDS | Stephanie Oswald | |
| 38 | 25-Jun-2025 | Wednesday | 14:00 | 15:30 | ROOM 15 | Special Session 17 | Guidelines for adaptation to climate change in water engineering | 1456 | LINKING WATER INFRASTRUCTURE ADAPTATION PROCEDURES TO CLIMATE CHANGE WITH DESIGN GUIDELINES | Anastasios I. Stamou | |
| | | | | | | | | - | URBAN INFRASTRUCTURE DESIGN IN THE CLIMATE CHANGE CONTEXT: ADVANCES AND CHALLENGES IN DEVELOPING ENGINEERING PRACTICE GUIDELINES | Van Thanh Van Nguyen | |
| | | | | | | | | - | CONSIDERATIONS OF CLIMATE VARIABILITY IMPACTS FOR ADAPTIVE AND RESILIENT HYDROSYSTEMS | Ramesh Teegavarapu | |
| | | | | | | | | 1391 | BRIEF OVERVIEW OF CURRENT ADAPTATION PRACTICES FOR JAPANESE RIVER MANAGEMENT ON CLIMATE CHANGE | Kenichiro Kobayashi | |
| | | | | | | | | - | Climate-Resilient Delta Systems: Developing an Integrated Assessment Model to Assess Salt Intrusion Mitigation Measures | Paran Pourteimouri | |
| | | | | | | | | - | Climate-Resilient Delta Systems: Developing an Integrated Assessment Model to Assess Salt Intrusion Mitigation Measures | Robert-Jan Den Haan | |
| | | | | | | | | - | Climate-Resilient Delta Systems: Developing an Integrated Assessment Model to Assess Salt Intrusion Mitigation Measures | Mascha Van Der Voort | |
| | | | | | | | | 1333 | Centennial Delta Development: A Prototype Model of The Yellow River Delta | Leicheng Guo, Cheng Yang and Weiming Xie | |
| | | | | | | | | 1588 | Laboratory Experiments on the Underwater Deposit Morphology in Hydraulic Filling Processes | Nanbei Shen, Zheng Gong and Chuang Jin | |

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| 144 | 25-Jun-2025 | Wednesday | 14:00 | 15:30 | ROOM 11 | Special Session #3 | Session 1: Estuarine hydrodynamics and sediment dynamics | 1528 | Response of Estuarine Circulation to Human-Induced Bathymetric Alterations in The Lingding Bay | Peng Yao, Xin Zhao, Jinya Mei and Min Su | |
| | | | | | | | | 1535 | Hybrid Approaches for High Fidelity Modeling of Hydrodynamic Behaviour in Estuaries | Mirian Jiménez Tobio, Beatriz Pérez Díaz, Etienne Faugere, Jared Ortiz Angulo, Paula Camus, Iratxe Lopez, Sonia Castanedo and Fernando Mendez Incera | |
| | | | | | | | | 1586 | Field observations of critical bed shear stress for sediment erosion using a self-designed annular flume | Qian Zhang, Zheng Gong, Chen Chen and Yuqi Zhang | |
| | | | | | | | | 1293 | Modelling Coastal/Estuarine Dynamics Using a Physics-Data Hybrid Neural Network Model | Zaiyang Zhou, Yu Kuai, Jianzhong Ge, Dirk S. van Maren, Kailin Huang, Pingxing Ding and Zhengbing Wang | |
| 145 | 25-Jun-2025 | Wednesday | 14:00 | 15:30 | ROOM 12 | Special Session #4 | Session 4: Estuarine systems as buffers against climate change | 1532 | Coastal Resilience against multiple stressors | David Paterson, James Rimmer, Thomas Baxter, Xuesong Hu, Yuting Yang and Xindi Chen | |
| | | | | | | | | 1507 | Tidal dynamic response to riverbed evolution in the Yangtze River Estuary | Han Yufang | |
| | | | | | | | | 1492 | Impact of Extreme Climatic Conditions on Material Transport and Biogeochemical Processes in Hong Kong Waters | Tianan Deng, Huan-Feng Duan, Jun Sasaki and Alireza Keramat | |
| | | | | | | | | 1510 | Balancing Physical and Human-Driven Morphodynamic Changes: Insights from the 1 Pearl River Estuary | Junjie Deng, Hongze Yu, Yi Zhang, Jingyu Hu, Giovanni Coco and Jiaxue Wu | |
| | | | | | | | | 1515 | Investigating The Role of River and Surge Drivers in Storm Sediment Delivery to A Small Tide-Dominated Estuary in New Zealand | Sanne M. Vaassen, Karin R. Bryan, Andrew Swales, Joel A. Carr and Conrad A. Pilditch | |
| | | | | | | | | 1527 | Morphodynamic Mechanism of Water Diversion Ratio for A Branching River Network Estuary | Min Su, Zhicheng Liu and Peng Yao | |
| 39 | 25-Jun-2025 | Wednesday | 14:00 | 15:30 | ROOM 13 | Special Session 24 | Nature-based Solutions Connecting Science and Practise Workshop | - | How to successfully implement Nature-based Solutions - an introduction to the workshop | Ellis Penning | |
| | | | | | | | | - | The role of stakeholders in implementing Natural Flood Management | Catherine Wilson | |
| | | | | | | | | - | Implementing Natural Flood Managemnet in the UK | Mike Adams | |
| | | | | | | | | - | Implementing Urban Nature-based Solutions for Healty Communities in Singapore | Lyn Liu Huei | |
| 40 | 25-Jun-2025 | Wednesday | 16:00 | 17:30 | ROOM 2 | Technical Session | A.5.3 Computational Methods for Hydraulic and | 276 | Coastal Water Quality Modelling And Microbial Contaminant Transport Under Wave Action – A Systematic Literature Review | Ravindar Rajendran | Pawet Rowinski |
| | | | | | | | | 715 | Fast 1d Flood Simulation Parametrised By 2d Hydraulic Models | Behzad Jamali | |
| | | | | | | | | 539 | Serghei-Swmm: An Efficient High-Performance 1d-2d Bidirectional Hydrodynamic Model | Na Zheng | |

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| | | | | | | | Water Quality Modelling | 448 | A Flexible Subgrid Method For Fast Flood Simulations Using Shallow Water Equations With Enhanced Bathymetry Resolution | Max Bitsch | |
| | | | | | | | | 824 | A New Methodology For Explaining Nonlinear Tidal Processes: Case Study Of The Delaware Estuary | Haoyan Dong | |
| | | | | | | | | 371 | Discontinuous Galerkin Turbulence Simulator For Shallow Vortical Flow With Mixed Eddy Structures | Xitong Sun | |
| 41 | 25-Jun-2025 | Wednesday | 16:00 | 17:30 | ROOM 3 | Special Session 15 | Flood adaptation and resilience | 1346 | ENTROPY-AHP COMBINED METHOD FOR MEASURING RISK-INTEGRATED RESILIENCE (RIR) INDEX IN FLOOD AFFECTED COMMUNITIES OF THE WEST RAPTI RIVER BASIN, NEPAL | Amrit Prasad Sharma | |
| | | | | | | | | 1411 | Comparison of Flood Resilience Approaches in the Netherlands, the United States, and Japan and the Potential Best Practices | Calvin Kim | |
| | | | | | | | | 1424 | COST-EFFECTIVENESS OF NATURE-BASED SOLUTION FOR FLOOD RISK REDUCTION: RIVERBANK EROSION COUNTERMEASURES | Firtana Hanifah | |
| | | | | | | | | 1467 | A geo-adaptive machine learning model for flood mapping | Hongjie Yu | |
| | | | | | | | | 1419 | PROJECT IFLOAT: MANILA WATER COMPANY'S FLOATING BAR SCREEN INITIATIVE FOR SUSTAINABLE FLOOD RESILIENCE IN METRO MANILA, PHILIPPINES | Riza Oiga | |
| | | | | | | | | 1442 | STUDYING STORM SURGE AND COASTAL INUNDATION DURING CYCLONE MOCHA (2023) USING IROMS MODEL | Vikram Pratap Singh | |
| 42 | 25-Jun-2025 | Wednesday | 16:00 | 17:30 | ROOM 4 | Special Session 32 | Surrogate techniques for monitoring sediment transport in fluvial and transitional systems | 898 | HYBRID CDS TECHNOLOGY WITH AI AND GREEN INFRASTRUCTURE FOR SUSTAINABLE URBAN STORMWATER MANAGEMENT | Yale Loo Wong | |
| | | | | | | | | 944 | Performance Evaluation of Continuous Suspended Sediment Discharge Monitoring Using Acoustic Backscatter and Stage Integration in Lowland Area | Dongsu Kim | |
| | | | | | | | | 1292 | CONCENTRATION OF SILT-CLAY SEDIMENT SUSPENSION IN THE DANUBE RIVER USING A DUAL-FREQUENCY ACOUSTIC METHOD | Flóra Pomázi | |
| | | | | | | | | 1376 | Monitoring bedload transport under both hydropeaking and natural flood events by means of ADCP | Colin Rennie | |
| | | | | | | | | 585 | Experimental study on bedload transport measurement using ADCP | Lu Wang | |
| | | | | | | | | - | Bedload Estimation Using ADCP Data: Uncertainty Analysis and GUI Overview | Conevski Slaven | |
| 977 | ASSESSING MORPHOLOGICAL CHANGES IN THE LÆRDAL RIVER: A COMPARATIVE STUDY USING GREEN LIDAR BATHYMETRY DATA | Christy Ushanth Navaratnam | | | | | | | | | |
| 87 | RECREATIONAL-GRADE SONAR: DATA COLLECTION AND MANAGEMENT FOR RECONSTRUCTING THE BATHYMETRY OF LARGE RIVERS | Xin Yi Chong | | | | | | | | | |

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| 43 | 25-Jun-2025 | Wednesday | 16:00 | 17:30 | ROOM 7 | Technical Session | A.2.2 Hydraulic Structures and Processes | 1106 | Image Preprocessing For Bubble Tracking Velocimetry In Highly Aerated Open Channel Flows | Abhishek Mondal | Amparo López Jiménez |
| | | | | | | | | 456 | Functional Evaluation Of Traditional River Structure "Kutsuwa Domo" During Excess Floods | Ryuichi Hirakawa | |
| | | | | | | | | 672 | Investigating The Effects Of Size And Overtopping Conditions On Dike Breach Evolution Through Medium-Scale Laboratory Experiments | Masoumeh Ebrahimi | |
| | | | | | | | | 911 | Optimization Analysis Of Aerator Shape In Slight Slope Spillway Tunnels With Low Froude Number | Qin Yue | |
| | | | | | | | | 554 | Hydrodynamic Impacts On Bridge Decks: A Comprehensive Literature Review | STEFANO PAGLIARA | |
| | | | | | | | | 909 | Hydrodynamic Analysis Of Riverbed Scouring Around Low Weir Using Flow-3d | Siti Nurain Che Mohd Azmi | |
| 44 | 25-Jun-2025 | Wednesday | 16:00 | 17:30 | ROOM 8 | Technical Session | A.3.5 Eco- and Environmental Hydraulics | 1115 | Importance Of Pool Area And Frequency For Aquatic Habitat In Streams | Rohan Benjankar | Abdotmajid Mohammadian |
| | | | | | | | | 1119 | Numerical Experiments On The Effects Of Coastline Alteration On Circulation Patterns In Hakata Bay | Akihiro Hashimoto | |
| | | | | | | | | 522 | The Blocking Effect Of Parallel Fringing Vegetation Arrays On Flow Structure Dynamics | Yuanheng Zhang | |
| | | | | | | | | 611 | Response Patterns Of Hyporheic Exchange Flux And Extent Of A River To Tidal Action And Seasonal Change Of Hydrological Conditions | Jingwen Xing | |
| | | | | | | | | 1107 | Investigation Of Hydraulic Performance Of Fish Passage In Run-Of-River Hydropower Projects In Nepal: A Case Study Of The Jhimruk Hydropower Project | Pawan Bhattacharai | |
| | | | | | | | | 97 | Turbulence Characteristics In Low Velocity Zones For Upstream Fish Passage – Comparison Between Physical Modelling And Cfd Modelling | Hui Ling Wong | |
| 45 | 25-Jun-2025 | Wednesday | 16:00 | 17:30 | ROOM 9 | Special Session 16 | Flood hazard projections and adaptation strategies in low lying coastal areas | 1321 | CLIMATE CHANGE IMPACTS AND ADAPTATION STRATEGIES FOR COASTAL INFRASTRUCTURE, WATER AND WASTE MANAGEMENT FACILITIES | Sannasiraj Sannasi Annamalaisamy | |
| | | | | | | | | 1463 | COMPREHENSIVE COASTAL PROTECTION COUNTERMEASURES OF JAKARTA BAY | Fahmi Shofi Aulia | |
| | | | | | | | | 1419 | PROJECT FLOAT: MANILA WATER COMPANY'S FLOATING BAR SCREEN INITIATIVE FOR SUSTAINABLE FLOOD RESILIENCE IN METRO MANILA, PHILIPPINES | Riza Oiga | |
| | | | | | | | | 1442 | STUDYING STORM SURGE AND COASTAL INUNDATION DURING CYCLONE MOCHA (2023) USING IROMS MODEL | Vikram Pratap Singh | |
| | | | | | | | | 382 | Theoretical foundations on surface detachment of floating plastics | Matthias Kramer | |

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| 46 | 25-Jun-2025 | Wednesday | 16:00 | 17:30 | ROOM 14 | Special Session 33 | Transport dynamics of plastic pollution in aquatic environments | 323 | Detachment of plastic particles from air-water interfaces | Felipe Condo | |
| | | | | | | | | 338 | Development of a Lagrangian plastic transport model for applications in fluvial systems | Charuni Wickramarachchige | |
| | | | | | | | | 518 | Exploring the Sensitivity of Microplastic Accumulation Zones in Rivers using Cloud-Based Particle Transport Modelling | Katelyn Kirby | |
| | | | | | | | | 913 | Experimental Investigation into the Settling of Single and Multiple Microplastic Particles in Quiescent Water | Qiang Ma | |
| 47 | 25-Jun-2025 | Wednesday | 16:00 | 17:30 | ROOM 15 | Special Session 21 | Innovative Water Engineering for Sustainable Development in Latin America | - | Water Security: Information Systems in Support of Decision-Making. Pilot Case in the ITAIPU Biosphere Reserve Basin. | Daniel Vazquez Bado | |
| | | | | | | | | 109 | ASSESSMENT AND MAPPING OF FLOOD SUSCEPTIBILITY USING GEOSPATIAL TECHNIQUES AND MACHINE LEARNING IN THE PERUVIAN TROPICAL ANDES. | Edwin Pino-Vargas | |
| | | | | | | | | - | Itaipu hydrometry: measurements during floods of the Itaipu Iguazu River: case of the Hotel Cataratas Station | Elio Romero | |
| | | | | | | | | 645 | OPTIMUM DESIGN OF PROTECTION DEVICES FOR TRANSIENT STATE IN WATER PUMPING SYSTEMS | Alexandre Kepler Soares | |
| | | | | | | | | 1143 | PERFORMANCE OF A CAVITATION JET APPARATUS: SENSITIVITY ANALYSIS WITH ALUMINUM AND EROSION TESTING ON CONCRETE | José Gilberto Dalfré Filho | |
| | | | | | | | | 819 | ANALYSIS OF INFLOW AND INCREMENTAL FLOW ANOMALY WITH THE ENSO INDEX ON PARANA BASIN | Luiz Henrique Maldonado | |
| 146 | 25-Jun-2025 | Wednesday | 16:00 | 17:30 | ROOM 11 | Special Session #5 | Session 1: Estuarine hydrodynamics and sediment dynamics | 1573 | Reservoir regulation has brought the Yellow River delta evolution under human control | Xiao Wu, Houjie Wang, Yoshiki Saito, Naishuang Bi and Zuosheng Yang | |
| | | | | | | | | 1529 | Experimental Study on the Influence of Quasi-Flexible Vegetation Patches on Flow Structure | Lizhu Wang, Yan Li and Min Xu | |
| | | | | | | | | 1493 | Bifurcation Instability Leads to Autogenic Behavior in Simple Channel Networks | Weilun Gao | |
| | | | | | | | | 1539 | Impact of Tidal Bores on Bathymetric Evolution in A Macrotidal Estuary | K Srimathy and K Murali | |
| | | | | | | | | 1511 | Tide-Mediated Morphodynamic Evolution of Bifurcated River Mouth Channels and Shoals in the Pearl River Estuary | Junjie Deng, Jingyu Hu, Yi Zhang and Jiaxue Wu | |
| | | | | | | | | 1505 | Impacts of Exotic Saltmarsh Removal and Native Saltmarsh Restoration on Bed Level Change and Surficial Sediment Distribution in an Estuary Wetland | Yiming Wu, Zeng Zhou and Karin Bryan | |
| | | | | | | | | 1518 | An SPH Model of Moving Porous Media with Infiltration | Coline de Sousa, Guillaume Oger, Julien Michel, David. Le Touzé and Damien Violeau | |

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| 147 | 25-Jun-2025 | Wednesday | 16:00 | 17:30 | ROOM 12 | Special Session #6 | Session 2: Biophysical interactions and biomorphodynamics Session 5: Sustainability of human-sea coupled coastal wetland systems | 1550 | Coastal Resilience: A Matter of Definition? | Ian Townend, Heyue Zhang, Zeng Zhou, Nicola Crockford and Giovanni Coco | |
| | | | | | | | | 1541 | Local Scale Bioturbation Enhances Landscape Scale Multifunctionality at Fringing Marshes | Haobing Cao | |
| | | | | | | | | 1496 | Sea-level rise versus salt marsh colonization: The adversarial game of self-organized elevation maintenance in tidal marsh | Wenhao Hou, Shuxiu Liang and Aiping Feng | |
| | | | | | | | | 1560 | A Social-Economic Dynamic Model for Predicting Response to Flooding on Coastal Farm Land | Karin Bryan and Joshua Sargent | |
| | | | | | | | | 1584 | Spatio-Temporal Impact of Microalgae on Sediment Grain Size Characteristics on Tidal Flats | Heyue Zhang | |
| | | | | | | | | 1502 | Trade-offs between vegetation and sediment availability in shaping long-term tidal network morphodynamics | Yuxian Gu and Zeng Zhou | |
| | | | | | | | | 1509 | Global patterns of upland loss in response to projected sea level rise in the 21st century | Hengbin Xiao and Yaping Chen | |
| 48 | 25-Jun-2025 | Wednesday | 16:00 | 17:30 | ROOM 13 | Technical Session | A.3.9 Alternative Water Resources | 562 | Treated Wastewater As Alternative Water, Energy And Nutrient Source Made Possible With Anaerobic Process In High Rate Bioreactors | Maria Concetta Tomei | Chia-Ren CHU |
| | | | | | | | A.3.8 Cross-boundary Water Transfer | 40 | Prediction Of Water Level Rise Upstream Of Gate Closures In Large Open Channels | Wei Cui | |
| | | | | | | | A.3.8 Cross-boundary Water Transfer | 48 | Computational Fluid Dynamics (Cfd) Analysis On The Migration Characteristics Of Air Pockets In Long-Distance Pressurized Water Pipelines | Xiangpeng Mu | |
| | | | | | | | A.3.8 Cross-boundary Water Transfer | 823 | Hydrodynamic And Water Quality Simulation Of The Nansi Lake Basin Based On T-Ummm | Lingjiang Lu | |
| | | | | | | | A.3.8 Cross-boundary Water Transfer | 1008 | Study On Water Drainage Processes In An Extra-Long Pressurized Water Delivery Tunnel | Chenxi Ouyang | |
| | | | | | | | A.3.6 Water Reclamation and Reuse | 28 | Understanding Urban Stormwater Toxicity On Microalgae: Implications For Reuse Safety | An Liu | |
| 49 | 26-Jun-2025 | Thursday | 9:00 | 10:30 | ROOM 2 | Technical Session | A.2.3 Enhancements in Urban Drainage Systems | 849 | Simplified Models And Tools For Real-Time Control In Urban Run-Off Management Case Studies | Vittorio Di Federico | Corrado Gissoni |
| | | | | | | | | 184 | Rain Gardens Performance Review In Hong Kong: A Case Study | Chuen King Kwok | |
| | | | | | | | | 1171 | A Risk-Based Approach To Identify Vulnerability Hotspots In Urban Aquifers Under Minimum Data Requirements | Diego Novoa Vazquez | |
| | | | | | | | | 788 | A Research Progress Review On Optimal Placement Of Iot Sensors In Urban Drainage Networks | Tianyu Guo | |

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| | | | | | | | | 865 | Adapting Urban Drainage Management Under Climate Change. Madrid Region Case Study | antonio lastra | |
| | | | | | | | | 881 | Systematical Experimental Investigations Of Air-Water Interactions In Geysers | Yanqing Lu | |
| 50 | 26-Jun-2025 | Thursday | 9:00 | 10:30 | ROOM 3 | Special Session 9 | Debris and Driftwood Accumulation at Hydraulic Structures | - | Turbulence and Stability: what lies under plastic-debris accumulations? | Chit Yan Toe | |
| | | | | | | | | 644 | IDENTIFYING BRIDGES SUSCEPTIBLE OF LARGE WOOD ACCUMULATIONS: A LESSON LEARNT FROM SATELLITE OBSERVATIONS | Diego Panici | |
| | | | | | | | | 1316 | New insights into backwater rise induced by debris blockage at bridges | Alexandre de Becker | |
| | | | | | | | | 1224 | A Matter Of Debris Composition: Analyzing Debris Accumulations At Bridges After The 2021 Flood | Lisa Burghardt | |
| | | | | | | | | 1262 | LABORATORY EXPERIMENTS FOR DRIFTWOOD ACCUMULATION AT BRIDGE DECK IN NARROW CHANNEL | Francesco Ballio | |
| | | | | | | | | - | Experimental and numerical modelling of debris accumulation and associated scour around bridge piers | Wenjun Zhang | |
| 51 | 26-Jun-2025 | Thursday | 9:00 | 10:30 | ROOM 4 | Technical Session | A.2.4 Sediment Transport and Bathymetrical Changes Assessment | 424 | Experimental Study On The Influence Of Cohesive Sediment On Sediment Transport Capacity In The Middle Reaches Of The Yellow River | Qing Feng | Giovanni Coco |
| | | | | | | | | 932 | Pattern Analysis Of Suspended-To-Total Sediment Load Fraction Using Umap | Hyoseob Noh | |
| | | | | | | | | 1090 | What Do Numerical Flow Predictions Above Flat And Degraded Beds Reveal About Scour Holes Observed In Quasi-Equilibrium Bed Of T-Shaped, Lab-Scale Confluence ? | Tian Jin | |
| | | | | | | | | 406 | Unlocking Climate Change Consequences: Insights From Decades Of Sediment Data In A Partially Glacier-Fed River System | Sabrina Schwarz | |
| | | | | | | | | 1131 | Influence Of Water Content And Hydraulic Conditions On Fluvial Dike Breach Evolution And Patterns | Silvia Amaral | |
| | | | | | | | | 295 | Assessing Eroded And Deposited Sediment Volumes After An Extreme Flooding Event | Tamara KuzmaniÄš | |
| | | | | | | | | 1111 | Hydrodynamics And Sediment Redistribution Around Individual Submerged Flexible Vegetation | Hariom Gautam | |
| | | | | | | | | - | Overview of challenges and opportunities in nature-based solutions for water management | Perrine Hamel | |
| | | | | | | | | - | Plural values when measuring the success of nature-based solutions | Leah Bremer | |

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| 52 | 26-Jun-2025 | Thursday | 8:45 | 10:15 | ROOM 5 | Special Session 25 | Nature-based solutions for water security: Recent progress in Monitoring, Evaluation, and Reporting | - | Experiences in monitoring, reporting and verification in Southeast Asia | Kashif Shaad | |
| | | | | | | | | - | Modelling of water resources management in Apac | Jair Smits | |
| | | | | | | | | - | Monitoring and Assessing Krung Thep Benjakitti Forest Park NbS using a Mixed Methods Ecosystem Services Approach | Kim Irvine | |
| 53 | 26-Jun-2025 | Thursday | 9:00 | 10:30 | ROOM 7 | Special Session 26 | New Hydroinformatics Strategy and Application of Catchment Digital Twin | 1264 | MULTI-RESOLUTION RECONSTRUCTION OF LONGITUDINAL STREAMBED FOOTPRINTS USING EMBEDDED SPARSE CONVOLUTIONAL AUTOENCODERS | Yifan Yang | |
| | | | | | | | | 1413 | STRATEGIC WETLAND PLACEMENT: A MULTIFUNCTIONAL APPROACH IN SWEDISH LANDSCAPES | Amir Rezvani | |
| | | | | | | | | 1431 | Construction and practice of digital twin water conservancy model platform For Ministry of Water Resources, China | Ting He | |
| | | | | | | | | - | Digital Twins: from dreams to reality | Philippe Gourbesville | |
| | | | | | | | | - | Extreme Flooding Processes Simulation Combining Real-Time Satellite Monitoring with Hydrodynamic Modelling in Haihe River Basin | Kejian Zhang | |
| | | | | | | | | - | The case of a digital twin developed in the Segura basin (Spain) | Carlos Ballesteros | |
| | | | | | | | | 1339 | AN INNOVATIVE APPROACH OF IMAGE VELOCIMETRY BASED ON DEEP LEARNING ALGORITHM | Chenxi Liang | |
| | | | | | | | | 1341 | A DIGITAL TWIN MODELLING STRATEGY OF BASIN FLOOD PREVENTION WITH INTEGRATED SIMULATION OF DISTRIBUTED HYDROLOGICAL AND HYDRODYNAMIC MODELS | Haowen Wang | |
| 54 | 26-Jun-2025 | Thursday | 8:45 | 10:30 | ROOM 8 | Technical Session | A.2.6 Disaster Risk Reduction | 708 | Recorded Tsunami Evacuation Behaviour In Zushi City, Japan | Joseph Kim | Norio Tanaka |
| | | | | | | | | 1012 | Assessing The Effectiveness Of Green And Grey Solutions For Flood Risk Reduction: A Comparison Of Damage-Based And Score-Based Approaches | Damien Sansen | |
| | | | | | | | | 259 | Study On The Effects Of Different Drainage Measures For Construction Projects Under Extreme Rainstorm And External Flood Conditions | Hongwei Liu | |
| | | | | | | | | 889 | Enhancing Flood Early Warning Dissemination And Evacuation Response Through Agent Based Modelling | Nasrut Hakim bin Ghazali | |

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| | | | | | | | A.2.6 Disaster Risk Reduction | 1064 | Optimising Urban Flood Evacuation Routes With Metaheuristic Algorithms: A Case Study Of York, UK | Chuannan Li | |
| | | | | | | | A.2.6 Disaster Risk Reduction | 344 | Comparative Study Of Various Typical Hydrological Models For Flash Flood Forecasting | Kejia WEN | |
| | | | | | | | B.1.2 Flood and Droughts Management | 1489 | The Use Of Adaptation Pathways To Develop And Implement Strategic Decisions On Integrated Flood Risk Management In Response To Climate Change | Louise Ellis | |
| 55 | 26-Jun-2025 | Thursday | 9:00 | 10:30 | ROOM 9 | Special Session 12 | Emerging Issues for Water Management in Remote Regions with Interplay of Climate Change Social, Economic, and Environmental Factors | 1358 | A SCIENCE-TO-POLICY CAPACITY DEVELOPMENT PROCESS FOR FLOOD PROTECTION | Elpida Kolokytha | |
| | | | | | | | | 1459 | A holistic approach to enhance sustainability of remote rural community with smart rice terrace farming and nature-driven finance for climate resilient society | Daisuke Nohara | |
| | | | | | | | | 1321 | Climate Change Impacts and Adaptation Strategies for Coastal Infrastructure, Water and Waste Management Facilities | Sannasiraj Annamalaisan | |
| | | | | | | | | 1386 | Research on the Evaluation Index System and Application Practices of Green Small Hydropower | Chuanqi Ou | |
| 56 | 26-Jun-2025 | Thursday | 8:45 | 10:15 | ROOM 10 | Technical Session | A.6.2 Hydrological Measurements (Flow, Groundwater, Precipitation, etc.) | 503 | Innovative Camera-Based Measurement Of Discharge, Rainfall And Turbidity In Open Channels And Rivers | Issa Hansen | Asaad Shamseldin |
| | | | | | | | | 523 | Application Of A Simple Geometric Correction Method For River-Discharge Measurement With Image Analysis | Kosuke Kawagishi | |
| | | | | | | | | 1235 | Improving Radar-Derived Precipitation Forecasts Using Ground-Based Station Data And Machine Learning | Payam Heidarian | |
| | | | | | | | | 733 | Erosivity Factor For Rill Erosion With Herbaceous Cover On Disturbed Steep Slopes | Seung Sook Shin | |
| | | | | | | | | 342 | Application Of Integral Length Scale And Convolutional Neural Networks In Hydrological Measurement | Yen Cheng Lin | |
| | | | | | | | | 127 | Research On Index Velocity Method Using Surface Velocity Profiles Measured By Multi-Line Non-Contact Velocimetry | YOUNGSIN ROH | |
| 57 | 26-Jun-2025 | Thursday | 9:00 | 10:30 | ROOM 15 | Technical Session | A.5.1 Artificial Intelligence (AI) Tools for Analysis and Decision Support under Certainties | 1053 | Tidal Phase-Based Characterization Of Water Quality In Coastal Areas Using Deep Learning Algorithms And Hydrodynamics Modeling, Case Study: Swansea Bay, United Kingdom | Man Yue Lam | Ruo-Qian Wang |
| | | | | | | | | 104 | Sensei Software Package For Smart Management Of Water Networks | Carlos Peñas Bernabéu | |
| | | | | | | | | 946 | Analysis Of The Relationship Between Meteorological Fields And Linear Rainfall Bands In The Western Chugoku Region Of Japan Using Self-Organizing Map | Yuma Hironaka | |
| | | | | | | | | 588 | Cross-Plane Prediction Via Convolutional Neural Network (Cnn) Model For Early Biofouling Detection In Swro Desalination Plant | Henry J. Tanudjaja | |

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| | | | | | | | | 187 | Optimization Of Miss Concentration In Biological Reactors Of Wastewater Treatment Plants Utilizing An Lstm Model | LEE SONGEUN | |
| | | | | | | | | 1057 | Studying The Causality Of The Key Variables Influencing The Fecal Indicator Organisms | Man Yue Lam | |
| 149 | 26-Jun-2025 | Thursday | 9:00 | 10:30 | ROOM 11 | Special Session | Session 3: Blue carbon in tidally dominated environments | 1500 | Disturbance of <i>Spartina alterniflora</i> Control on the Carbon Pools in the Northernmost Mangroves of China | Yining Chen and Jiaqi Wu | |
| | | | | | | | | 1585 | Interplay Between Saltmarsh Carbon Burial and Lateral Exchange in Coastal Wetlands: The Role of Biomorphodynamic Feedback | Yuhan Wang, Zeng Zhou, Junji Yuan, Aijun Wang, Huan Li, Luzhen Chen, Karin Bryan and Simon Mudd | |
| | | | | | | | | 1534 | Legacy of aquaculture on soil carbon fluxes of restored mangrove forests | Minxian Luo and Yaping Chen | |
| | | | | | | | | 1545 | Tidal effects on blue carbon cycling in coastal saltmarsh wetlands | Ying Huang, Yebing Xie and Jianwu Tang | |
| | | | | | | | | 1583 | Machine learning for predicting marine shallow gas emission under hydrodynamics | Cong Hu, Yanyun Xing and Yonggang Jia | |
| | | | | | | | | 1504 | Influence of typhoons on carbon accumulation in coastal saltmarshes and mudflats: a case study from Hangzhou Bay | Zhang Ziyun, Chen Yining and Xia Xiaoming | |
| 150 | 26-Jun-2025 | Thursday | 9:00 | 10:30 | ROOM 12 | Special Session | Session 6: Technological advances and nature-based solutions | 1565 | Study on Characteristics and Forecasting of Submesoscale Eddies in The Northern South China Sea | Lei Ren, Wei Jun, Zhenchang Zhu and Michael Hartnett | |
| | | | | | | | | 1495 | Extraction of patches and stripes in saltmarsh wetlands using deep neural networks | Zichao Guo, Zeng Zhou, Fernando Javier Mendez Incera, Xu Fan and Yanyan Kang | |
| | | | | | | | | 1520 | Classifying New Zealand Estuaries Using New Satellite-Derived Optical Indicators | Zhanchao Shao, Karin Bryan, Dana Clark and Conrad Pilditch | |
| | | | | | | | | 1542 | Evaluating the Effectiveness of Nature-Based Solutions in Mitigating Tropical Cyclone-Induced Coastal Flooding | Beatriz Pérez Díaz, Pablo Alonso-Alguacil, Borja González-Reguero, Fernando Javier Mendez Incera, Sonia Castanedo, Alba Ricondo and Laura Cagigal Gil | |
| | | | | | | | | 1519 | Beach Terrain Inversion Based On Multi-Source Data Fusion | Zhuocheng Liu, Lianqiang Shi, Junli Guo, Wenliang Zhang and Qinghua Ye | |
| | | | | | | | 1503 | Are exotic saltmarsh species better than native species for coastal protection? | Bing Liu and Yining Chen | | |
| | | | | | | A.6.3 Water Quality Sampling and Analysis | 218 | Effects Of Ice Breakup On Water Quality In The North Saskatchewan River, Canada | Xiaoyu Zhang | Dongdong Shao | |
| | | | | | | A.6.3 Water Quality Sampling and Analysis | 399 | Empirical Comparison Of Water Column Plastic Sampling Methods | Stephanie Batistim Oswald | | |
| | | | | | | A.6.3 Water Quality Sampling and Analysis | 966 | Exploration Of The Dissolved Inorganic Carbon Dynamics In Deep And Large Reservoirs With Different Regulation Types | Dan Zhang | | |

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| 58 | 26-Jun-2025 | Thursday | 8:45 | 10:30 | ROOM 14 | Technical Session | A.6.3 Water Quality Sampling and Analysis | 538 | Bioremediation Of Emerging Contaminants Using Algal Bacterial Consortium | UBHAT ALI | |
| | | | | | | | A.6.4 Aquatic Ecology and Biological Surveys | 1034 | Habitat Change Analysis Of Fish Community To Building Block Methodology Mimicking Natural Flow Regime Patterns In Nakdong River In South Korea | Wensi Zhang | |
| | | | | | | | B.1.7 Other Related Topics | 740 | Metagenomic Insights Into Microbial Adaptations To Climate Warming In The Yellow River Of China | Jie Gao | |
| | | | | | | | B.2.7 Other Related Topics | 1369 | Development Of Floating Treatment Wetland For Purifying The Water In Coal Mining Subsidence Area | Jie Gao | |
| 59 | 26-Jun-2025 | Thursday | 9:00 | 12:30 | ROOM 13 | Special Session 5 | Advances on the study of vegetation in a variety of settings | - | Overview of current research landscape on vegetated flows | Heidi Nepf | |
| | | | | | | | | - | Flow-vegetation-sediment interaction and the performance of the linear superposition principle to determine bed shear stress | Jochen Aberle | |
| | | | | | | | | - | Modelling wave decay by submerged vegetation: How to account for mutual flow-vegetation interactions? | Davide Vettori | |
| | | | | | | | | - | Turbulence within and around mangrove pneumatophores: Predictions, patchiness, and persistence | Julia Mullarney | |
| 60 | 26-Jun-2025 | Thursday | 8:45 | 10:15 | ROOM 16 | Technical Session | A.2.2 Hydraulic Structures and Processes | 679 | Introduction To The Effect Of Flow Under Vertical Angled Baffle Walls On Bedload Transport | Tino Kostic | Claudia Adduce |
| | | | | | | | | 693 | Repeatability In Human Body-Structure Interactions In Experiments To Assess Hazards To Public Safety For A Low Head Dam Retrofit | Hayden Reitenbach | |
| | | | | | | | | 746 | The Use Of Artificial Vegetation As A Replacement For Natural Vegetation In Air-Water Flow Modeling | Anne Mozer | |
| | | | | | | | | 930 | Reynolds Number Effects On Turbulence Characteristics Of Hydraulic Jumps With Undeveloped Inflow Conditions | Ryugen Satoh | |
| | | | | | | | | 916 | Corrugated Rough Aprons As A Countermeasure Against Local Scour Downstream Of Submerged Wall Jets With Shallow Tailwater Depths | Pramit De | |
| 61 | 26-Jun-2025 | Thursday | 9:00 | 10:30 | ROOM 17 | Technical Session | A.5.4 Computational Methods for Coastal | 114 | Adjoint Data Assimilation For Tidal Stream Energy Modelling Optimisation | Connor Jordan | Peart Li |
| | | | | | | | | 86 | Numerical Study On The Effect Of Baffle Quantity On Sloshing Reduction In A Rectangular Tank | Deping Cao | |
| | | | | | | | | 136 | Vortex Scouring Process Around A Vertical Pile Varying Shapes And Flow Regimes | Abdelkader Hammouti | |

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| | | | | | | | Processes (Waves, Currents, etc.) | 822 | Investigating Wave Propagation Over An Offshore Breakwater: Experimental Results And Numerical Approach With Shallow Water Modeling | Bobby Minola Ginting | |
| | | | | | | | | 103 | Wave-Induced Seabed Liquefaction: Numerical Simulation And Analysis | Zhengxie Zhang | |
| | | | | | | | | 1232 | Monte Carlo Simulation For Projection Of Extreme Wind Speed Increase Due To Climate Change | Ngai Fung WONG | |
| 62 | 26-Jun-2025 | Thursday | 11:00 | 12:30 | ROOM 2 | Special Session 34 | Trends and Variations in Hydroclimatic Variables: Links to Climate Variability and Change | 165 | Mekong River Flow and Hydrological Extremes: Climate Change, Dam, and Reservoir Impacts | Sameh Kantoush | |
| | | | | | | | | 1332 | Climate and Water Discharge Patterns of the Cidanau River in Indonesia | Budi Indra Setiawan | |
| | | | | | | | | 1319 | Copula-based Analysis of Extreme Compound Flooding Events in Peninsular India (1980-2023) | Vikas Poonia | |
| | | | | | | | | 292 | Aspects Amplified the Recent Extreme Flood Event in Dubai | Hadir Abdelmoneim | |
| 63 | 26-Jun-2025 | Thursday | 11:00 | 12:30 | ROOM 3 | Technical Session | A.2.5 Forecasting and Warning | 331 | Flood Forecasting Using Process- And Data-Driven Approaches | Indiana Olbert | Roberto Ranzi |
| | | | | | | | | 128 | Study Of Rainfall-Melting Snow Runoff Forecasting Throughout The Year Using Open Data Available In Japan | Yoko Hirasawa | |
| | | | | | | | | 482 | Connecting The Level Of Detail In Spatial Discretization Of A Watershed With Peak Flow Predictions In A Distributed Model | Simon Martinez Rendon | |
| | | | | | | | | 237 | Refraction Behavior Analysis Of Tsunamis Originating From The Northern Offshore Region Of Noto Peninsula, Japan | Konosuke Nagao | |
| | | | | | | | | 348 | Study On Runoff Simulation With Multi-Source Precipitation Information Fusion Based On Multi-Model Ensemble | Runxi Li | |
| | | | | | | | | 1060 | Development Of A Hysteretic Diagnostics For Classifying Sequential Development Of Flood Wave Types In A Single Flood Event | Ikhan Lee | |
| | | | | | | | | 508 | LEVERAGING URBAN DIGITAL TWINS FOR ENHANCED FLOOD RISK MANAGEMENT AND DECISION-MAKING IN SMART CITIES | Lars Backhaus | |
| | | | | | | | | 812 | INTEGRATION OF HIGH-RESOLUTION PHYSICAL FLOOD SIMULATIONS WITH MACHINE LEARNING FOR URBAN FLOOD PREDICTION | Ryosuke Akoh | |
| | | | | | | | | 1347 | IDENTIFYING CRITICAL AREAS FOR RUNOFF MITIGATION IN SLOPED URBAN ENVIRONMENTS | Antoine Passaquin | |
| | | | | | | | | 1378 | Sponge city concept tailored to sloping urban areas | Maële Belmont | |

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| 64 | 26-Jun-2025 | Thursday | 11:00 | 12:30 | ROOM 4 | Special Session 20 | Innovative Approaches to Urban Resilience: Addressing Flood Risks and Climate Adaptation | 613 | AHP-BASED PRIORITIZATION OF FLOOD RISK MITIGATION MEASURES: AN APPLICATION IN THE VENETO REGION (ITALY) | Tommaso Lazzarin | |
| | | | | | | | | 109 | ASSESSMENT AND MAPPING OF FLOOD SUSCEPTIBILITY USING GEOSPATIAL TECHNIQUES AND MACHINE LEARNING IN THE PERUVIAN TROPICAL ANDES | Del Piero R. Arana-Ruedas | |
| | | | | | | | | 92 | THE APPLICATION OF ARTIFICIAL INTELLIGENCE MODELS IN FLOOD DYNAMICS SIMULATION | Song-Yue Yang | |
| | | | | | | | | 1088 | FLOOD RISK ASSESSMENT FOR TRANSPORTATION NETWORKS TO ENHANCE RESILIENCE AND EMERGENCY PREPAREDNESS | Natasha Petrucelli | |
| | | | | | | | | 322 | MULTI-MODEL DEEP LEARNING ENSEMBLE FOR FLOOD EVENT AND PROBABILITY PREDICTION | Kyung Soo JUN | |
| | | | | | | | | 1245 | FLOODS IN CITIES: NEW INSIGHTS FOR INTEGRATING PLUVIAL FLOODING INTO FLOOD RISK MANAGEMENT PLANS | Gianfranco Becciu | |
| 65 | 26-Jun-2025 | Thursday | 10:45 | 12:30 | ROOM 5 | Technical Session | A.3.2 River Engineering and Management | 689 | Experimental Quantification Of Hydrodynamic Effects On The Root Development Of Plant Cutting | Yahel Eliyahu Yakir | Deping Cao |
| | | | | | | | | 378 | Development Of A Parameterization Tool To Create Generic Rivers For Hydraulic Simulations Of Run-Of-River Pumped Storage Hydropower | Kanchan Shrestha | |
| | | | | | | | | 935 | Balancing Adaptation And Mitigation Of Vegetation Cutting In River Channels In A Class 1 Water System | TAKAYA KANEKO | |
| | | | | | | | | 958 | Impacts Of Xiangjiaba Reservoir Outflow Of The Navigation Benefit Of Upper Yangtze River | Shiyu Zhang | |
| | | | | | | | | 458 | Depth-Averaged Turbulence Modelling Controls On Fine Sediment Deposition In Compound Channel | David Vetsch | |
| | | | | | | | | 731 | Hydro-Morphodynamic Characteristics Of A Mining Pit Near A Channel Confluence | Ravi Kumar Mishra | |
| 66 | 26-Jun-2025 | Thursday | 11:00 | 12:30 | ROOM 7 | Technical Session | A.2.1 Coastal Processes and Hazards | 1127 | Tsunami-Like Flow Interaction With The Vertical Seawall Under Overtopping Conditions Using Openfoam | Harish Selvam | Hitoshi Tanaka |
| | | | | | | | | 167 | Characterizing Compound Flood Risk From River Discharge, Precipitation, And Storm Surge In The Chao Phraya River Delta | WEI JIAN | |
| | | | | | | | | \ | A Semi-Automatic Compound Flood Modelling Chain-A Case Study In New Zealand During Ex-Tropical Cyclone Gabrielle | Zhonghou Xu | |
| | | | | | | | | 1085 | Contrasting Physical And Cfd Simulations In Estuarine Natural Cavities | Rita Carvalho | |

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| | | | | | | | | 1446 | Fine Characterization Of Wind Drag Force In Shallow Lakes Based On The Wind-Wave-Flow Mutual Feedback Model | GAO ANG | |
| | | | | | | | | 478 | Development Of Multipurpose Harbour In Weligama Bay, Sri Lanka | D P C LAKNATH | |
| 67 | 26-Jun-2025 | Thursday | 11:00 | 12:30 | ROOM 8 | Technical Session | B.2.4 Nature-based Solutions for Coastal and Estuarine Waters | 232 | Wave Attenuation By Submerged Vegetation Under Orthogonal Wave-Current Conditions | Zichen Xu | Catherine Wilson |
| | | | | | | | | 255 | Integrated Approach For Coral Reef Conservation And Rehabilitation In The Philippines | Hiroyuki Takasuna | |
| | | | | | | | | 561 | The Influence Of Shoot Distribution On Wave Attenuation And Local Hydrodynamics Of Seagrass Meadows | Xihang Xu | |
| | | | | | | | | 326 | Local Stakeholder Engagement In Sustainable Management Of Marine Habitats Using Satellite Technology - An Example From Malaysia | Malinda Auluck | |
| | | | | | | | | 752 | Investigation Of Wave Attenuation Over Mangroves In Singapore | Emily Thong | |
| | | | | | | | | 1002 | UNESCO WATER SCIENCE - 50TH ANNIVERSARY OF THE INTERGOVERNMENTAL HYDROLOGICAL PROGRAMME IHP AND 60 YEARS OF WATER SCIENCES AT UNESCO | Helmut Habersack | |
| 68 | 26-Jun-2025 | Thursday | 11:00 | 12:30 | ROOM 9 | Special Session 8 | Dam Safety: Addressing modern challenges and future risk | 481 | Assessing the Risk of Sequential Dam Breaks: A Case Study of Tuirial Dam | Dhyan Singh Arya | |
| | | | | | | | | 634 | Experimental Study on Hydraulic Characteristics of Dam-Break Floods Encountering Earthquake-Damaged Arch Dam | Liyuan Zhang | |
| | | | | | | | | 107 | Comparison Of Machine Learning Techniques and Empirical Formulas for the Prediction of the Discharge through a Fluvial Dike Breach | Vincent Schmitz | |
| | | | | | | | | 1301 | Seismic Hazard Assessment of Sirmour District, Himachal Pradesh, India | Mukat Lal Sharma | |
| | | | | | | | | 1300 | Impact of Declustering on Seismicity Parameters: A Case Study of Purvanchal Region of Uttar Pradesh, India | Ravindra Kumar Gupta | |
| | | | | | | | | 1392 | Hydro-Suction: A Sustainable Solution for Reservoir Sedimentation Management | Zulfequar Ahmad | |
| | | | | | | | | - | Spanish projects that represent significant progress in dam safety | Rubén Castilla | |
| | | | | | | | | 536 | Reproducing Suspended Sediment Transport In Half-Channel Vegetated Flow Using 2d Horizontal Eddy Viscosity Models | Jiaqi Liu | |
| | | | | | | | | 779 | Construction And Validation Of A Fully Integrated Unsaturated-Saturated Solute Transport Model | Zhibo Zhang | |

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| 69 | 26-Jun-2025 | Thursday | 10:45 | 12:30 | ROOM 10 | Technical Session | A.5.3 Computational Methods for Hydraulic and Water Quality Modelling | 774 | Integrated Air And Water Phase Modelling Of Hydrogen Sulphide Transport In Sewer Systems | Line Karin Mortensen | Takashi Asaeda |
| | | | | | | | | 1218 | Modelling The Spatiotemporal Transport And Fate Of Microplastics In Tropical Coastal Waters | Felix Gaffu Tandadajaja | |
| | | | | | | | | 1162 | Non-Velocity-Based Technique For Discharge And Roughness Estimation In Steady Flow | Behnam Balouchi | |
| | | | | | | | | 531 | Experimental And Numerical Study Of Free Surface Elevations And Surface Velocities In A T-Shaped, Lab-Scale Confluence Flow | Alemu Tezera Dessie | |
| | | | | | | | | 1108 | A New Optimization Model Of Reservoir Operation Considering Ensemble Streamflow Forecast Uncertainty: Integration Of Robust Optimization Concept And Karhunen-Loeve Expansion Method | Duan Chen | |
| 70 | 26-Jun-2025 | Thursday | 11:00 | 12:30 | ROOM 14 | Technical Session | A.2.2 Hydraulic Structures and Processes | 863 | The Brisk Project: A Comprehensive Approach To Bridge Scour Risk In The Face Of Climate Change | Ana Margarida Bento | S. Samuel Li |
| | | | | | | | | 874 | Numerical Investigation Of Blockage Effects Of The Spur Dike Field Under Tidal Bore Interactions Using Openfoam | Nandhini Duraimurugan | |
| | | | | | | | | 900 | Low-Impact Weirs Contributing To Sustainable Development Goals | James Zulfan | |
| | | | | | | | | 636 | Effects Of A Channel Bend On The Supercritical Flow Characteristics And Sediment Movements Leading To Nonuniform Invert Abrasion | Subhojit Kadia | |
| | | | | | | | | 1055 | Mean Flow And Turbulence Around A Single Submerged Spur Dike In A Trapezoidal Channel | Abhimanyu Prasad Tripathi | |
| | | | | | | | A.6.10 Other Related Topics | 330 | Effects Of Various Boundary Conditions On Hydraulic Bore Running Up An Open Channel | Kanta Sugiura | |
| 71 | 26-Jun-2025 | Thursday | 10:45 | 12:30 | ROOM 15 | Technical Session | A.5.6 Hydroinformatics and Big Data Analytics | 71 | Hydroinformatics Technologies For Supporting Urban Drainage Planning, Maintenance, Flood Response And Reservoir Operations In Singapore | Wing Ken Yau | Huan-Feng Duan |
| | | | | | | | | 357 | Characterization Of Acoustic Signals Collected From A Smart Water Network For Leak Detection | Wei Zeng | |
| | | | | | | | | 956 | Yr-Wic: A Water-Intelligence-Computing Driven Approach For Sustainable Development Of The Yellow River | Yan Tang | |
| | | | | | | | | 1160 | Study Of The Classification Potential Of Inflows In Water Distribution Networks Within The Visibility Domain | Orazio Giustolisi | |
| | | | | | | | | 1295 | Transient Wave-Based Data Assimilation For Leak Localization In Single Water Pipes | Qluru Chen | |
| | | | | | | | | 570 | How Well Do The Gridded Rainfall Datasets Reproduce The Indian Summer Monsoon Rainfall Events? A Country Wide And Regional Suitability Assessment | Priyank Sharma | |

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| 72 | 45834 | Thursday | 11:00 | 12:30 | ROOM 11 | Special Session 10 | Earth Observation to monitor land and water ecosystems | 404 | HYPERSPECTRAL ANALYSIS AND THEORETICAL MODELING OF SURFACE WATER COLOR FOR SUSPENDED SEDIMENT CHARACTERIZATION | Ruo-Qian Wang | |
| | | | | | | | | 238 | MULTISOURCE SATELLITE DATA INTEGRATION FOR EFFECTIVE WATER TEMPERATURE MONITORING | Matteo Redana | |
| | | | | | | | | - | Earth Observation-Based Assessment of Short-Duration Rainstorms: Uncovering Spatiotemporal Patterns in Shanghai | Jiayan Xu | |
| | | | | | | | | 1364 | TURBIDITY EFFECTS ON UAS-BASED UNDERWATER BATHYMETRY RECONSTRUCTION IN A TRAPEZOIDAL CHANNEL | Moritz Roth | |
| | | | | | | | | 1477 | EVALUATING PERFORMANCE OF SMAP AND AMSR-2 SOIL MOISTURE RETRIEVALS OVER TROPICAL AGRICULTURAL REGION | Akash Atmurkar | |
| | | | | | | | | 1483 | Comparison of remote sensing datasets for flood retention basin design | Gordon Gija | |
| | | | | | | | | - | Next generation flood measurement systems: Stereoscopic camera stations; UAVs with RTK GPS; towed depth sounder systems; and aerial Ground Penetrating Radar (GPR) | Hamish Biggs | |
| - | Wrap-up and presentation of Remote Sensing WG | Michael Nones | | | | | | | | | |
| 152 | 26-Jun-2025 | Thursday | 11:00 | 12:30 | ROOM 12 | Special Session | Session 6: Technological advances and nature-based solutions | 1543 | Using oyster reefs to control erosion and deposition: Laboratory experiments across scales | Rafael Tinoco, Salman Alkhidhr, Kamil Czaplinski, Jacopo Composta, Limin Sun, Luca Martinelli, William Nardin and Alberto Canestrelli | |
| | | | | | | | | 1538 | Addressing the Integration Challenges in Ecological Environment Assessment and Water Body Research: Overcoming Limitations in Vertical Distribution, Layer Stratification, and Tool Integration | Manjie Li and WeiBo Zhong | |
| | | | | | | | | 1582 | Cost-Effectiveness of Nature-Based Solution for Flood Risk Reduction: Riverbank Erosion Countermeasures | Firlana Hanifah, Qisthina Dewi and Hendra Ramdhani | |
| | | | | | | | | 1514 | China's intertidal mollusc aquaculture sustains an endangered shorebird flyway | Hebo Peng and Zhenchang Zhu | |
| | | | | | | | | 1581 | Experimental investigation on wave attenuation of oyster castles in optimized layout based on Bragg resonance | Wei Xu, Jun Fan, Jianhao Liu, Chao Wu, Yuzhu Li and Aifeng Tao | |
| 73 | 26-Jun-2025 | Thursday | 11:00 | 12:30 | ROOM 13 | Special Session 5 | Advances on the study of vegetation in a variety of settings | - | Bedload sediment transport in vegetated channels | Chao Liu | |
| | | | | | | | | - | Flow-vegetation interactions across natural and managed aquatic landscapes: an ecosystem perspective | Loreta Cornacchia | |
| | | | | | | | | - | Flow vegetation interactions - Field measurements with stereoscopic Particle Image Velocimetry (PIV) | Hamish Biggs | |
| | | | | | | | | - | Flow surface characteristics and flow resistance of different grass species and artificial grass | Hanwen Cui | |

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| | | | | | | | | - | Effects of vegetation in channel morphodynamics | Florian Cordier | |
| 74 | 45834 | Thursday | 10:45 | 12:30 | ROOM 16 | Technical Session | A.6.1 Advanced Experimental Techniques | 381 | Flow-Induced Steady Deformations Of Hyperelastic Geomembranes | Giovanni De Cesare | Adrian Lai |
| | | | | | | | | 299 | Evaluating Breakwater Damage Progression: Experimental And Theoretical Insights | Ana Cristina Santos Mendonça | |
| | | | | | | | | 917 | Hydraulic Model Test On The Criteria For Channel Divergence In Multiple Bars Regime | Haruki WATABE | |
| | | | | | | | | 969 | Turbulence Induced Free-Surface Fluctuations In Open-Channel Flow | Stuart Cameron | |
| | | | | | | | | 862 | Viscosity Effects On Aeration Efficiency In Plunging Jets | Maggie Ntombifuthi Bingo | |
| | | | | | | | | 200 | Ingesting Acoustic Doppler Current Profilers (Adcp) Data Into Acoustic Mapping Velocimetry (Amv) | Gabor Fleit | |
| | | | | | | | A.3.11 Other Related Topics | 1249 | Synergistic Removal Of Perfluorooctanoic Acid And Nitrogen In An Anammox Biofilter: Performance And Interaction | Xiaojing Zhang | |
| 75 | 45834 | Thursday | 11:00 | 12:30 | ROOM 17 | Technical Session | A.4.1 Reservoir Renewable Energy Systems (Hydropower, Floating Solar, etc) | 419 | Managing Total Dissolved Gas Supersaturation In Norwegian Hydropower Systems | Wolf Ludwig Kuhn | Lloyd Chua |
| | | | | | | | | 1322 | Ecological Effects Of Innovative And Conventional Hydropower Plants – Results From 10 Years Of Research | Juergen Geist | |
| | | | | | | | | 687 | A New Profile For The Nozzle Of Cross-Flow Turbines In Real Operating Conditions | Tullio Tucciarelli | |
| | | | | | | | | 642 | Physics-Informed Neural Network For Stability Analysis Of Hydropower Generating Systems | Weichao Ma | |
| | | | | | | | | 466 | A Generational Opportunity: Fishsafe Turbines For Sustainable Hydropower | Abraham Schneider | |
| | | | | | | | | 489 | Typhoon-Induced Wave Analysis And Structural Performance Evaluation Of Floating Photovoltaic Systems In Hong Kong - A Case Study | Chi Chung So | |
| 76 | 45834 | Thursday | 13:30 | 15:00 | ROOM 1 | Technical Session | A.2.4 Sediment Transport and Bathymetrical | 1202 | Numerical Investigation For Changing Processes Of Riverbed Variation And Surface Grain Size In A River Channel During A Large Flood | Takashi Wada | Ramesh Teendavaranu |
| | | | | | | | | 1047 | Vertical Sorting In Intense Transport Of Bimodal Contact Load: Measured Distributions In Collisional Layer And Effects On Bed Friction And Flow Condition | Vaclav Matousek | |
| | | | | | | | | 467 | Numerical Study Of Sediment Budget In The Noakhali Islands Area Of The Meghna Estuary | RAHMAN MD SHAHINUR | |

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| | | | | | | | Changes Assessment | 604 | Unresolved CfD – Dem Simulation Of Embankment Failure Due To Overtopping And Seepage Flow | Daisuke KOBAYASHI | |
| | | | | | | | | 346 | Stabilization Of Sediment Deficit Bays: An Example From Unawatuna Bay, Sri Lanka | Sanjeeva Wickramaratne | |
| | | | | | | | | 424 | Experimental Study On The Influence Of Cohesive Sediment On Sediment Transport Capacity In The Middle Reaches Of The Yellow River | Qing Feng | |
| 77 | 45834 | Thursday | 13:30 | 15:00 | ROOM 2 | Technical Session | A.1.1 - A.1.6 | 833 | Similarity Solutions For Axisymmetric Gravity-Driven Forchheimer Flow In Porous Media | Vittorio Di Federico | Zeng Zhou |
| | | | | | | | | 1239 | Analysis Of The Spatial And Temporal Dynamics Of Exceptional Precipitation In Portugal: An Innovative Approach | Luis Angel Espinosa Villalpando | |
| | | | | | | | | 1303 | Impacts Of Climate Change On Natural Runoff In The Yellow River Basin Of China During 1961–2020 | Yiqi Yan | |
| | | | | | | | | 220 | Harnessing Advanced Technologies To Optimize Industrial Water Footprint Reduction | Jimmy Yu | |
| | | | | | | | | 1037 | Lifecycle Assessment As Applied To Full-Scale Wastewater Treatment Infrastructure | Sailaja Poudel | |
| | | | | | | | | 349 | Evaluating The Impact Of El Niño And Climate Change On Water Surface Availability Using Soil Moisture Accounting | Kristopher Lloyd Furio | |
| 78 | 45834 | Thursday | 13:30 | 15:00 | ROOM 3 | Special Session 31 | Socio-economic challenges in Asia: future roles of urban water network modelling and optimization | 1359 | Multi-Phase Planning of Water Infrastructure in Response to Future Population Decline | Donghwi Jung | |
| | | | | | | | | 1497 | 24/7 CLOUD-HOSTED SOLUTION EVALUATION FOR ANOMALY DETECTION AND LOCALIZATION IN SINGAPORE'S WATER DISTRIBUTION NETWORKS | Alvin Wei Ze Chew | |
| | | | | | | | | 1416 | EFFICIENT AND EQUITABLE OPERATION OF WATER DISTRIBUTION NETWORKS | Sridharakumar Narasimhan | |
| | | | | | | | | 1498 | OPTIMIZING PRESSURE SENSOR PLACEMENT IN SMART WATER GRIDS | Ashley Zhang | |
| | | | | | | | | 1352 | Development of network structural improvement to cope with depopulation in rural areas for optimal water distribution system operation | Young Hwan Choi | |
| | | | | | | | | 1400 | SMART WATER DISTRIBUTION SYSTEMS FOR LEAK DETECTION: THEIR BENEFITS AND FUTURE CHALLENGES | Sanghoon Jun | |
| | | | | | | | | 1331 | Flood Damage Estimation in South Korea using Global Flood Model's Results | Chaerin Lee | |
| | | | | | | | | - | Needs and added values of new technologies for flash floods management | Philippe Gourbesville | |

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| 79 | 45834 | Thursday | 13:30 | 15:00 | ROOM 4 | Special Session 4 | Advanced technologies applied for Flash Flood Defence and Management | - | Multi-Stage Progressive Flash Flood Monitoring, Forecasting and Early Warning: China's Practices and Achievements | Ronghua Liu | |
| | | | | | | | | 617 | Risk Assessment of Flash Flood Disasters Using a Coupled Random Forest-Feature Selection Algorithm | Xiaolei Zhang | |
| | | | | | | | | - | Present and Anticipated Future Flash Flood Study in Greater Jakarta, Indonesia | Shie-Yui Liong | |
| | | | | | | | | 1388 | Mechanism analysis of flash flood disaster, application of "6-19" Lijiang flood, Guangxi, China | Xiaohan Ju | |
| | | | | | | | | 1350 | A MODELLING-BASED CATCHMENT FLOOD MANAGEMENT: APPLICATION OF "23-7" CATASTROPHIC FLOOD IN ZIYA RIVER | Fangrui Dong | |
| | | | | | | | | 1360 | A framework of river network routing modeling coupled water and energy balance | Rui Qian | |
| | | | | | | | | 1419 | PROJECT FLOAT: MANILA WATER COMPANY'S FLOATING BAR SCREEN INITIATIVE FOR SUSTAINABLE FLOOD RESILIENCE IN METRO MANILA, PHILIPPINES | Christian Quintos | |
| 80 | 45834 | Thursday | 13:30 | 15:00 | ROOM 5 | Technical Session | A.3.1 Water Resources Management | 173 | Evolution Of Sewer Planning In Singapore: From Excel To Hydraulic Modelling | Tamilarresan Ravichanthiran | |
| | | | | | | | | 754 | Increasing Pressure Between Water Supply And Power Production Over Regional Water Resources In Heavy Snowfall Basin Under Changing Climate | Daisuke Nohara | |
| | | | | | | | | 129 | Research On Brackish Water Resources Allocation For Crop Irrigation Safety | TING WANG | Tae-Woong Kim |
| | | | | | | | | 801 | Evaluating The Risk Of Microplastic Contamination Of Water Resources: Case Of Mfoundi Subbasin-Cameroon | Desmond Ndre Shiwomeh | |
| | | | | | | | | 502 | Evaluation Of The Water Conservation Function Of The Hanjiang River Basin (China) Based On The Invest Model | Yiwei Guo | |
| | | | | | | | | 53 | Peak Flow Attenuation And Open Water Regulation Effects Along The Lower Peace River, Canada | Faizal Yusuf | |
| 81 | 45834 | Thursday | 13:30 | 15:00 | ROOM 7 | Technical Session | B.1.2 Flood and Droughts Management | 786 | Decomposing The Uncertainty Cascade In Projections Of Compound Hot-Dry Events | Parisa Hosseinzadehtalei | |
| | | | | | | | | 979 | Development And Application Of An Urban Flood Risk Index | Markus Eder | |
| | | | | | | | | 559 | Typhoon Characteristics And Their Influence On Drought Conditions In Taiwan | Yuei-An Liou | YI-AN SHENG LIN |

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| | | | | | | | Water Resource Management | 1219 | Peru Reconstruction Project – A National Climate Change Adaptation Programme: Leaving A Legacy | Chris Hughes | |
| | | | | | | | | 697 | Drought Risk Management In Climate Change Scenarios, Through The Development Of A Vulnerability Index, Case Study: Morelia City, Michoacán Mexico. | Angel Flores | |
| | | | | | | | | 976 | Exploring The Joint Behaviour Of Flood Characteristics In Semi-Arid Rivers | Achala Singh | |
| 82 | 45834 | Thursday | 13:30 | 15:00 | ROOM 8 | Technical Session | B.2.3 Nature-based Solutions for Large Rivers | 1021 | Nature Based Solutions In Danube4all - Restoration Of The Danube River Basin Waters For Ecosystem And People From Mountains To Coast | Ellis Penning | Perrine Hamel |
| | | | | | | | | 750 | Construction Of River Barriers In The Jinsha River Basin: Evaluating Development Benefits And Threats To River Connectivity | Lei Huang | |
| | | | | | | | | 234 | Design Principles And Multifunctionality Of Flood Resilient Landscapes | Borjana Bogatinoska | |
| | | | | | | | | 987 | The Spatiotemporal Distribution Characteristics Of Biological Bait Sources In Riparian Zones And The Quantity Estimation Transported Into Rivers | Xiangdong Pan | |
| | | | | | | | | 1198 | Mainstreaming And Upscaling Nature Based Solutions In Northwest Europe: Experiences From Small And Large Scale Pilots | Stanford Wilson | |
| | | | | | | | | 564 | Technology And Innovation For Enabling Pre-Feasibility Assessments In Watershed Investment Programs Using Waterproof | Carlos Andres Rogeliz Prada | |
| 83 | 45834 | Thursday | 13:30 | 15:00 | ROOM 9 | Technical Session | A.5.5 Data-Driven Methods and Machine Learning Techniques | 509 | Using Machine Learning To Discriminate Different Types Of Particle Jumps In Dns Of Sediment Transport | Ricardo Rebel | Victor Wang |
| | | | | | | | | 334 | Enhanced Prediction Of Groundwater Quality Index Using Machine Learning Algorithms | Tahmida Naher Chowdhury | |
| | | | | | | | | 766 | Study On How Shapes And Distributions Of Synthetic Rainfall As Training Data Affect The Accuracy Of Random Forest Model Augmented With Hydrodynamic Model | Kexin Liu | |
| | | | | | | | | 667 | Laboratory Channel Widening Simulation And Prediction Considering Soil Type, Upslope Inflow And Slope Gradient | CHAO QIN | |
| | | | | | | | | 185 | Prediction Of Water Level And Quality Changes In The Yeongsan River, Korea Using An Lstm-Based Deep Learning Model | Hyeji Han | |
| 84 | 45834 | Thursday | 13:30 | 15:00 | ROOM 10 | Special Session 7 | Current Research in coastal protection and flood resilience conducted in CFI Singapore | - | Ocean wave Climatology and Renewable Energy Potential in the Southeast Asian Seas based on 45-Years Wave Modelling | Xingkun Xu | |
| | | | | | | | | - | Fingerprints Discovering of Extreme Coastal Water Levels in Singapore Strait | Qin Jiang | |
| | | | | | | | | - | Interaction of Tidal, Monsoonal, And ENSO Influences on Sea Level Variability in the Singapore Strait | Sumit Dandapat | |

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| | | | | | | | | - | Impact of Seepage Flows on Tsunami-Induced Sediment Transport and Scour | Zhengyu Hu | |
| | | | | | | | | - | How does Mangrove Root Architecture Influence Flow and Turbulence | Luoning Zhang | |
| 85 | 45834 | Thursday | 13:30 | 15:00 | ROOM 14 | Special Session 2 | Adaptive management of riparian vegetation in the era of climate change | 571 | Experimental study on the spatial traits of sedimentation driven by discontinuous nearshore vegetation patches | Liu Yang | |
| | | | | | | | | 1294 | SPATIAL DISTRIBUTION OF WOODY VEGETATION IN MAJOR RIVERS OF SOUTH KOREA | Seonggi An | |
| | | | | | | | | 1298 | Simulating channel morphology and riparian vegetation dynamics : Integrating precipitation and temperature effects on germination and growth | Hun Choi | |
| | | | | | | | | 1323 | THE MECHANISM OF RIPARIAN VEGETATION SPECIES' COLONIZATION AT SPECIES SPECIFIC ELEVATION | Takashi Asaeda | |
| | | | | | | | | 1348 | EXPERIMENTAL STUDY ON SEDIMENT DEPOSITION ON MIDDLE FLOOD CHANNEL UNDER DIFFERENT VEGETATION HEIGHTS AND SURFACE EDDIES STRUCTURES | Norio Tanaka | |
| | | | | | | | | 1398 | INTEGRATING NATURE-BASED SOLUTION FOR EXTREME FLOOD DAMAGE MITIGATION WITH RIPARIAN VEGETATION MANAGEMENT: CASE STUDIES FROM GEUMGANG RIVER IN KOREA | Un Ji | |
| | | | | | | | | 1412 | COMBINED EFFECTS OF REINTRODUCED MEGAFUNA AND HYDROLOGICAL REGIME SHIFT ON FLOODPLAIN VEGETATION DYNAMICS | Sida Li | |
| 86 | 45834 | Thursday | 13:30 | 15:00 | ROOM 15 | Special Session 30 | Sediment management for reservoir sustainability | 343 | Study on surveying dam sediment topography using a uav-mounted green laser and on dam sediment flushing analysis. | Kota Shimizu | |
| | | | | | | | | 1440 | Sediment venting through power waterways: a field monitoring concept | Carolin Friz | |
| | | | | | | | | 847 | Modelling Sediment Deposition in Reservoir Using Complex Model Chain and Limited Data – Focus on 1D Numerical Modelling | Slaven Conevski | |
| | | | | | | | | 542 | Alpine Reservoir Sedimentation: Challenges In Modelling Rapidly Varying Flow Conditions at Inflow Section | Sudesh Dahat | |
| | | | | | | | | 586 | Reservoir Sedimentation Challenges and Issues with Case Study | Hi Tiwari | |
| | | | | | | | | - | Reservoir sedimentation management in the Upper Rhône River (France) | Kamat El kadi Abderrezzak | |
| | | | | | | | | 484 | A Scale-Invariance Approach To Modeling Of Extreme Rainfall Processes For Urban Infrastructure Design In The Climate Change Context | Van Thanh Van Nguyen | |
| | | | | | | | | 303 | Robust And Cost-Optimal Increment Sizes And Pathways For Several Archetypes Of Coastal Protection In A Singaporean Context | Maarten Schoemaker | |

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| 87 | 45834 | Thursday | 13:30 | 15:00 | ROOM 12 | Technical Session | B.1.3 Improvement in Design Guidance under Climate Change | 635 | Stochastic Downscaling And Uncertainty Partition In Climate Projections For Singapore | Mengzhu Chen | Angelos Findikakis |
| | | | | | | | | 675 | Weakly Non-Stationary Return Period Analysis Of Rainfall Events Modelled By A Poisson Process With Trends | Giulio Calvani | |
| | | | | | | | | 1228 | Progressive Adaptive Approach And Design Allowance In Port Works Design Manual | Tak Shing TSUI | |
| | | | | | | | | 1190 | The Australian Climate Change Calculator - Mapping The Change In Flood Risk Across The Country | Monique Retallick | |
| 88 | 45834 | Thursday | 13:30 | 15:00 | ROOM 13 | Special Session 27 | Outfall systems and effluent discharges | 352 | Environmental Impact and Mitigation Strategies for Marine Brine Discharges from Seawater Desalination Processes. | Jose Francisco Sanchez Gonzalez | |
| | | | | | | | | 858 | NUMERICAL ANALYSIS OF AIR ENTRAINMENT OF A PLUNGING JET FLOW UNDER DIFFERENT VISCOSITY LEVELS OF FLUID . | Dasun Lahiru Muthumala Jayasooriya | |
| | | | | | | | | 88 | PREDICTING WATER TEMPERATURE IN SOUTHEAST ASIAN RESERVOIRS AND THEIR DOWNSTREAM RIVERS. | Matteo Redana | |
| | | | | | | | | 940 | ADVANCING ENVIRONMENTAL RISK MITIGATION: LES-BASED ANALYSIS OF DENSE JET DISCHARGES IN FLOWING CURRENTS FOR IMPROVED MIXING BEHAVIOR PREDICTIONS. | Majid Mohammadian | |
| | | | | | | | | 799 | An Enhanced Algorithm for Underwater Blast Bubble Simulation. | Xingrui Tao | |
| | | | | | | | | 1227 | CHALLENGES IN LOCATING AND DESIGNING OF SEAWATER INTAKE ARRANGEMENTS IN OPEN SEAS AND CREEKS: INSIGHTS FROM THE INDIAN CONTEXT. | Guruprasath J | |
| | | | | | | | | 1524 | OBSERVATION AND MODELING OF THE THERMAL PLUME FROM A NEAR NUCLEAR POWER PLANT INTO COASTAL WATERS | Xiaoli Chen | |
| | | | | | | | | 1524 | OBSERVATION AND MODELING OF THE THERMAL PLUME FROM A NEAR NUCLEAR POWER PLANT INTO COASTAL WATERS | Li Zeng | |
| 89 | 45834 | Thursday | 13:30 | 15:00 | ROOM 16 | Technical Session | A.4.3 Offshore Renewable Energy Systems (Offshore Wind Power, Oceanic Current Power, etc) | 62 | Influence Of Vibration On Equilibrium Scour Depth Around Monopile Foundations Under Combined Current Wave Conditions | Bruce Melville | Pavel Tkalich |
| | | | | | | | | 959 | Emulating Meteorological And Oceanic Parameters In The Design Of Offshore Wind Platforms In A Changing Climate With Bluemath-Hub Framework | Vatvanuz Fernandez-Quiruelas | |
| | | | | | | | | 1027 | Dynamic Response Analysis Of An Innovative Scour Protection System: Small-Size Artificial Reefs Combined With Umbrella Structures | Wenhui Wei | |
| | | | | | | | | 827 | Time Evolution Models For Scour Burial Of Isolated Objects On A Granular Seabed | Tommaso Attili | |
| | | | | | | | | 953 | Experimental Study On The Mechanical Properties And Scour Resistance Of Solidified Marine Dredged Clay | Hao Meng | |

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| 90 | 45834 | Thursday | 13:30 | 15:00 | ROOM 17 | Special Session 11 | Education and professional development: the needs of water professionals in a changing environment and society | - | IAHR Label for Water Training and Education - A Flagship Initiative of UNESCO-IHP | Phillipe Gourbesville | |
| | | | | | | | | - | The contribution of the IAHR EPD committee in supporting the development of young water professionals | Michael Nones | |
| | | | | | | | | 1857 | Research Training Group 'Urban Water Interfaces' | Reinhard Hinkelmann | |
| | | | | | | | | 1471 | Accelerating SDG6 implementation in the Global South through capacity development: challenges and solution | Ioana Popescu | |
| | | | | | | | | - | The value of regional and global cooperation for capacity building and knowledge exchange | Concepción Marcuello | |
| 91 | 45834 | Thursday | 15:30 | 17:00 | ROOM 2 | Special Session 36 | Water System Operation and Digital Twin | 1425 | MATHEMATICAL MODELLING FOR EFFECTIVE WATER LOGGING MANAGEMENT IN THE DORIKA RIVER BASIN: A CASE STUDY | Km Luxmi | |
| | | | | | | | | 1312 | Ecological drought concept and its assessment for Yellow River Estuary | Bojun Liu | |
| | | | | | | | | 1415 | Research on Hierarchical Control Strategies for Urban River Based on Model Predictive Control | Minghan Yang | |
| | | | | | | | | 1335 | Real-time model predictive control of urban drainage system in coastal areas | Qiu Yang | |
| | | | | | | | | 1343 | Study on Joint Optimal Scheduling of Urban Hydraulic Engineering Cluster based on Model Predictive Control | Wenwen Feng | |
| | | | | | | | | 1402 | Hydro-storage short-term optimal scheduling for clean energy consumption | Yue Yang | |
| | | | | | | | | 1423 | Study on the influence of cumulative effect of forecast error on reservoir operation benefit | Jia Wang | |
| | | | | | | | | 1464 | Sensitivity analysis of predictive control parameters for real-time dispatch modeling of hydroelectric power plants | Shangjun Ye | |
| | | | | | | | | 1457 | ANALYZING ENERGY DISSIPATION AND FLOW CHARACTERISTICS OF POONDI DAM: A CASE STUDY IN CHENNAI, TAMIL NADU, INDIA. | Balaji C | |
| | | | | | | | | 1457 | ANALYZING ENERGY DISSIPATION AND FLOW CHARACTERISTICS OF POONDI DAM: A CASE STUDY IN CHENNAI, TAMIL NADU, INDIA. | Diwakar D | |
| | | | | | | | | 1454 | Chinese practice of digital twin for water diversion project | Ke Xu | |
| 1422 | Research on water level prediction of reservoir lakes in water transfer projects based on two-dimensional cloud model | Ke Xu | | | | | | | | | |

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| | | | | | | | | - | Digital Twin Empowering the High-Quality Operation of the South-to-North Water Diversion Project | Changcheng Pan | |
| | | | | | | | | 1439 | STUDY ON SHORT-TERM OPTIMAL REGULATION OF CANAL STORAGE UNDER EXTREME CONDITIONS | Quan Li | |
| | | | | | | | | 1431 | Construction and practice of digital twin water conservancy model platform For Ministry of Water Resources, China | Siyu Cai | |
| 92 | 45834 | Thursday | 15:30 | 17:00 | ROOM 3 | Technical Session | A.5.7 Other Related Topics | 286 | Development Of Digital Testbeds To Support The Policy Of River Basin Disaster Resilience And Sustainability By All | Tetsuya Takeshita | Jonathan Tan |
| | | | | | | | | 296 | Diwatt: An Open-Source Digital Twin Framework For Demand Response In Water Resource Recovery Facilities | Behzad Mozafari | |
| | | | | | | | | 369 | Interference Noise Cancellation For Leak Detection In Water Distribution System | Chengcheng Yin | |
| | | | | | | | | 598 | Stochastic Simulation Of Daily Precipitation And Temperature Based On A Multisite Multivariate Weather Generator | Xin Li | |
| | | | | | | | | 691 | Quantum Simulation & Optimization Of Water Distribution Networks | Koen Leijnse | |
| | | | | | | | | 815 | Development Of An Operational 2d Flow Model Of The Rhine For An Assistance System For Inland Navigation | Eduard Schaefer | |
| 93 | 45834 | Thursday | 15:30 | 17:00 | ROOM 4 | Technical Session | A.6.5 Environmental Management and Monitoring | 339 | Model-Based Assessment Of The Cost-Effectiveness Of Mitigation Strategies Against Wastewater-Sourced Pharmaceuticals Towards Riverine Health Enhancement | Geovanni Teran Velasquez | Jenn Wei Er |
| | | | | | | | | 386 | Recent Developments In Real-Time Control And Monitoring Of Stormwater Along Italian Highways | Stefano Biondi | |
| | | | | | | | | 857 | Multimodal AI For River Health Assessment: A Proof Of Concept With Chatgpt-4 And Riparian Quality Index Photo Analysis | Enya Roseli Enriquez Brambila | |
| | | | | | | | | 890 | Examination Of Sandbar Excavation In The Tidal River Sections For Expansion Of Ayu Spawning Bed Area | Keisuke YOSHIDA | |
| | | | | | | | | 894 | Spectral Data-Based Technique For Flow Measurement In Sewer Pipes | HOSOO LEE | |
| | | | | | | | | 627 | Innovative Sediment Transport Monitoring, What Influence Do Protective Structures Have On The Sediment Balance | Rolf Rindler | |
| | | | | | | | | 228 | Hydraulic Dynamics And Water Quality Influence Of Johor Rivers In The Johor Strait: A Comprehensive Analysis | Athaya Jauhari | |
| | | | | | | | | 661 | Characterizations Of Water Quality Trends Using A Water Quality Index Based On Over Fifty Years Of Historical Monitoring Data From The Sumida River In Tokyo | Martwi Diah Setiawati | |

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| 94 | 45834 | Thursday | 15:30 | 17:00 | ROOM 5 | Technical Session | A.3.1 Water Resources Management | 756 | A New Indicator For Identification Of Critical Nodes And Pipes In Water Distribution Networks Based On Minimum Pressure Approach | Daniele Puleo | Xingwei Chen |
| | | | | | | | | 1216 | Invisible Branches And Trapped Waves: Redefining Wave Physics In Pipe Systems | Daniele Puleo | |
| | | | | | | | | 669 | A General Inverse Method For Estimating Environmental Hydraulic Parameters: Subset Simulation Approach | Utban Ahmed | |
| | | | | | | | | 662 | Water Transfer Efficiency Improvement In Central Route Of South-To-North Water Diversion Project In Winter | CONGJI HAN | |
| 95 | 45834 | Thursday | 15:30 | 17:00 | ROOM 7 | Technical Session | A.6.7 Remote Sensing – Others (Unmanned Aerial Vehicles (UAV), Radar, etc) | 836 | Estimating Water Stress In Avocado Trees Using Drone-Based Thermal Imagery And Micro-Sprinkler Irrigation In Peru | JOSE JESUS MARTIN TOLEDO CHOQUEHUANCA | Mingtao Jiang |
| | | | | | | | | 737 | Soil Moisture Estimation At Vineyards Using Uav Multispectral Imagery And Machine Learning | Takuya Matsumoto | |
| | | | | | | | | 891 | Monitoring Water Stress In Rice Using Thermal Imagery: A Case Study In Lambayeque, Peru | LIA RAMOS FERNANDEZ | |
| | | | | | | | | 920 | Quantifying Bedload Transport Variability Using Acoustic Monitoring Systems In Flume Experiments | Zheng Chen | |
| | | | | | | | | 1097 | Real-Time Predictions Of Suspended Sediment Concentration Using Machine Learning | Mohamed Saber | |
| | | | | | | | | 804 | Leak Detection Of Water Distribution Pipelines Based On Wt-Mfcc And Multiple Neural Network Models | Kaiyi Tan | |
| 96 | 26-Jun-2025 | Thursday | 15:30 | 17:00 | ROOM 8 | Technical Session | B.2.2 Nature-based Solutions for Upstream Catchments and Small Streams | 540 | Validating Risk-Based Mowing Strategies For Aquatic Vegetation Management In Regulated Lowland Streams | Ellis Penning | Jiarui Lei |
| | | | | | | | | 102 | Monitoring Perspectives Of Natural Flood Management In Uk Catchments | Slaven Conevski | |
| | | | | | | | | 122 | Evaluation Of Nature-Based Solutions In Hydrological Modelling: A Case Study In The Hindu Kush Himalayas | Guglielmo Sonnino Sorisio | |
| | | | | | | | | 179 | Evaluating The Effectiveness Of Nature-Based Solutions For Small Stream Restoration | Helene Boisgontier | |
| | | | | | | | | 211 | Integrating Subgrid Sampling With Nature-Based Solutions (Nbs) Interventions For Enhanced Flood Risk Reduction In The Riseley Brook Catchment | Shifteh Mobini | |
| | | | | | | | | 556 | Reflections on Planning and Implementing Nature-Based Solutions For Flood and Sediment Resilience in Nordic Infrastructure: Insights from the EU Nature-Demo Project | Amrie Singh | |
| | | | | | | | | | | | |
| | | | | | | | | 637 | Predict Suspended Sediment Concentration In An Alpine Stream Using Data-Driven Modelling | maurizio righetti | |

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| 97 | 26-Jun-2025 | Thursday | 15:30 | 17:00 | ROOM 9 | Technical Session | A.5.5 Data-Driven Methods and Machine Learning Techniques | 802 | Automatic Quality Control Of Rain Gauges Using Machine Learning And Generalization To A Catchment | Karen Schulz | Wenming (William) Zhang |
| | | | | | | | | 1030 | Advancing Hydrological Modeling In Complex Terrain With Satellite Data And Integrated Hydrological-Soft Computing Approaches | Muhammad Adnan Khan | |
| | | | | | | | | 720 | Spatial Structure Analysis For Downscaling Oceanic Information | Xuan Wang | |
| | | | | | | | | 730 | Selection Of Machine Learning Algorithms For Reservoir Inflow Forecast: A Case Study Of The Da River Basin | Le Huu Minh Quan | |
| | | | | 1067 | | | | Robust Sensor Data Validation With Deep Learning: Performance Analysis With Synthetic Anomalies | Rocco Palmitessa | | |
| 98 | 26-Jun-2025 | Thursday | 15:30 | 17:00 | ROOM 10 | Special Session 7 | Current Research in coastal protection and flood resilience conducted in CFI Singapore | - | CFD Simulations of Storm Surge and the Interaction with Green and Grey Coastal Structures | Yudi Zhou | |
| | | | | | | | | - | Assessing the Drivers of Sea Level Changes at the Singapore Coastline | Farzin Samsami | |
| | | | | | | | | - | Innovative Solutions for Coastal Protection: Flexible Seawall Method | Hao Chen | |
| | | | | | | | | - | Integrating Wave Energy Converters in Floating Structures for Coastal Protection in Singapore | Xuejie Zhang | |
| | | | | | | | | - | Towards Multi-Scale Assessment of Hydrodynamical and Structural Influences on Coral Larvae Settlement and Resilience of Hybrid Coastal Protection Solutions | Ronald Chan | |
| | | | | | | | | - | Hydrodynamic Effects of Submerged Coastal Vegetation on Wave-Current Interactions | Guanyi Gao | |
| | | | | | | | | - | Impact of Terrestrial and Marine Factors on the Natural Growth of Mangroves | Huang Sheng | |
| 99 | 26-Jun-2025 | Thursday | 3:30 PM | 5:00 PM | ROOM 14 | Special Session 2 | Adaptive management of riparian vegetation in the era of climate change | 1460 | ADVANCEMENTS IN NUMERICAL MODELING OF FLOW RESISTANCE IN VEGETATED CHANNELS: FUTURE DIRECTIONS AND CHALLENGES | Hyoseop Woo | |
| | | | | | | | | 1551 | THE CLOUT OF MULTIPLE PLANTS SPECIES ON FLOW RESISTANCE AND EFFECTIVE SEDIMENT TRANSPORT IN VEGETATED RIVERS | Andrea Del Gaudio | |
| | | | | | | | | 397 | THE IMPACT OF RIVER SAND MINING ON MIXING LAYERS IN A SQUEEZED MANGROVE FOREST IN THE MEKONG DELTA, A SCHEMATIZED MODEL APPROACH | S.H Truong | |
| | | | | | | | | 1383 | Vegetation coverage threshold for reducing surface runoff-induced non-point source pollution: a case study of Shenzhen | Ke Wang | |
| | | | | | | | | 1006 | Simulation of supersaturated total dissolved gas transport in compound vegetated channel | Youquan Yuan | |

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| | | | | | | | | 522 | The blocking effect of parallel fringing vegetation arrays on flow structure dynamics | Yuan-Heng Zhang | |
| 100 | 26-Jun-2025 | Thursday | 3:30 PM | 5:00 PM | ROOM 11 | Special Session 29 | Safety Assessment for Instream Installations using Multi-Sensor-Based Remote Technology | 1349 | Validation of data reliability for monitoring river-crossing installations using a multibeam sonar-equipped USV | Seongin Yoon | |
| | | | | | | | | 1381 | Developing a drone bathymetric lidar using simulation for parameter optimization | Jaehak Kim | |
| | | | | | | | | 895 | Crack segmentation application using UNET deep learning model for hydraulic structures | Dong Sop Rhee | |
| | | | | | | | | 1427 | Development of robust dam crack detection models using UAV-acquired data | Jiwan Hong | |
| | | | | | | | | 1380 | Integration of drone and BIM data for facility management | Ojin Kwon | |
| | | | | | | | | 1395 | Basic design of a remote measurement technology-based system for water resource facility safety management | Yungjun Lee | |
| | | | | | | | | 1410 | Estimating the discharge from the distribution of surface velocity using the maximum entropy method | Sangjin Han | |
| | | | | | | | | 1401 | A study on the comprehensive safety assessment methodology of river-crossing installations using advanced measurement technologies | Taesoo Eum | |
| 101 | 26-Jun-2025 | Thursday | 3:30 PM | 5:00 PM | ROOM 12 | Technical Session | A.6.9 Data Uncertainty Analysis and Assessment | 470 | Evaluating Measurement Uncertainty In Adcp Discharge Using The Gum Method | Marian Muste | Dawei Guan |
| | | | | | | | | 16 | Meta-Analysis Of Bedload Transport Measurements | Sebastian Schwindt | |
| | | | | | | | | 414 | The Hunt For Uncertainties In Assumptions Within Irrigation Models | Seth Nathaniel Linga | |
| | | | | | | | | 202 | On The Normality And Controls Of Dissolved Oxygen In Riverbeds: Insights From Field Measurements | Beatriz Medeiros Fernandes Negreiros | |
| | | | | | | | | 807 | Impact Of Update Frequency And Observation Network Density On The Performance Of Hydrological Data Assimilation | Kumudu Madhawa Kurugama | |
| | | | | | | | | 768 | Investigation Of Uncertainty Analysis In Simulating Storm Surge And Wave Height Using Adcirc And Swan Coupled Model | Wei-Che Huang | |
| | | | | | | | | 676 | Numerical Investigation Of Wave-Current Induced Scouring Development Around A Subsea Pipeline | Pengzhi Lin | |
| | | | | | | | | 364 | Scale Effects In 3d Granular Slides On A Smooth Incline | Valentin Heller | |

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| 102 | 26-Jun-2025 | Thursday | 3:30 PM | 5:00 PM | ROOM 13 | Technical Session | A.2.7 Other Related Topics | 274 | An Empirical Study On Wave Attenuation By A Wet Type Of Vegetated Floating Island | Yuan-Jyh Lan | JanJaap Brinkman |
| | | | | | | | | 878 | Turbulent Dam-Break Wave With High Volume Of Release | andrea del gaudio | |
| | | | | | | | | 124 | Research And Application Of Three-Dimensional Flood Indicator System Of Urban Underground Space | Peng Liu | |
| | | | | | | | | 624 | Sequential Nonlinear Analysis Of Buildings Exposed To Flash Flooding And Earthquake | Maria Pregnolato | |
| 103 | 26-Jun-2025 | Thursday | 3:30 PM | 5:00 PM | ROOM 16 | Technical Session | A.4.1 Reservoir Renewable Energy Systems (Hydropower, Floating Solar, etc) | 741 | Experimental Analysis Of A New Regulation System For Cross-Flow Type Turbines In Mini-Hydropower Plants | Calogero Picone | Kim Irvine |
| | | | | | | | | 744 | Experimental Study On Hydraulic Characteristics And Stability Of A Novel Shaft Coaxial Surge Chamber In Pumped Storage Hydropower Station | Wenlong Zhao | |
| | | | | | | | | 1481 | Variable Speed Pump Storage With Robust Ac Excitation Converter For Doubly Fed Induction Machine | MARTIN GESKE | |
| | | | | | | | | 690 | Coupling Mechanical And Electric Rotors In Small Cross-Flow Type Turbines | Tullio Tucciarelli | |
| | | | | | | | | 1188 | Comparative Analysis Of The Short-Term Scheduling Performance Of Conventional Hydropower And Pumped Storage In Horizon Of Renewable Energy Integration | Weijia Yang | |
| | | | | | | | | 74 | The Vortex Energy Drive: A Novel Technology In Harnessing Hydro-Kinetic Energy | HAO CHEN | |
| 104 | 26-Jun-2025 | Thursday | 3:30 PM | 5:00 PM | ROOM 17 | Technical Session | A.2.2 Hydraulic Structures and Processes | 543 | A Sensitivity Analysis Of The New Design Of Overflow Spillways: Weirs With Varying Profile | Fatna Ouksaili | INTAN SUPRABA |
| | | | | | | | | 1233 | Complementary Physical And Numerical Modelling Of Wave Overtopping With Application To Two-Tiered Seawall Defence | Christopher Wong | |
| | | | | | | | | 1487 | Hybrid Modeling Of The Spillway Of The La Fuensanta Dam (Spain) | Francisco Ramon Andres Martin | |
| | | | | | | | | 713 | Hydraulic Assessment Of Tunnel Spillway Using 3d Numerical Model | Rahil Ahmad | |
| | | | | | | | 1132 | Study On The Reduction Of Scour Downstream Of A Weir By Varying End-Sill Height | Pankaj Singh | | |
| | | | | | | | B.1.1 Coastal Protection and Management | 360 | Ecological Restoration Planning Of Coastal Zone In The Yangtze River Delta Region Under Changing Climate | Yangyue Yu | |
| | | | | | | | | 1089 | Non-Cohesive Sediment Transport During Steady-Flow Flushing Operations In Sewer Pipes | Biao Huang | |

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| 105 | 27-Jun-2025 | Friday | 9:00 AM | 10:30 AM | ROOM 1 | Technical Session | A.2.3 Enhancements in Urban Drainage Systems | 1077 | A Review Of Sponge City Concept Implementation In Yogyakarta, Indonesia | Shakti Rahadiansyah | Yui Liang |
| | | | | | | | | 345 | Implementing Urban Pluvial Floods' Mitigation Measures In An Interactive Tool Built With Open Data | Diego Novoa Vazquez | |
| | | | | | | | | 1259 | Climate Change And Urban Hydraulic Resilience In Italy Through Nature-Based Solutions: The Sunrise Project | Corrado Gisondi | |
| | | | | | | | A.3.5 Eco- and Environmental Hydraulics | 1207 | Vertical Profiles Of Velocity And Turbulent Kinetic Energy At Vertical Slot Fish Pass | Mehmet Salih Turker | |
| | | | | | | | | 1062 | Hydrodynamic Characteristics Of Compound Channel During Flood Inundation And Recession Processes: A Combined 2d/3d Numerical Study | Jaming Liu | |
| 106 | 27-Jun-2025 | Friday | 9:00 AM | 10:30 AM | ROOM 2 | Technical Session | A.2.2 Hydraulic Structures and Processes | 1152 | Flow And Turbulent Characteristic Over Spillways Slab Gaps | Sevket Cokgor | Hariff Santo |
| | | | | | | | | 505 | Turbulence Flow and Local Scour Characteristics Around Submersible Twin In-Line Piers With Varying Submergence Ratio | JAGILINKI ARAVIND | |
| | | | | | | | | 560 | Hydrodynamic Characteristics Of Submerged Turbulent Wall Jets | Rajesh Kumar Mahato | |
| | | | | | | | | 583 | Estimation Of Efforts In The Lower Beam Of Segment Gates Subject To Hydraulic Jump Waves | Raquel Takeda | |
| | | | | | | | | 1000 | Clear-Water Bridge Pier Scour Under Overtopping Flow Conditions | Jeong-Myeong Lee | |
| | | | | | | | B.1.6 Adoption of Green and Grey Water Infrastructure | 910 | Multiple Benefits Evaluation Of Lid Practices Under Climate Change | Qian YU | |
| 107 | 27-Jun-2025 | Friday | 9:00 AM | 10:30 AM | ROOM 3 | Technical Session | A.6.6 Remote Sensing – Satellite | 7 | Remote Sensing For The Study Of Climate Change And Intensive Agriculture And Its Effects On An Overexploited Fossil Aquifer System, Arid Region, Atacama Desert | Edwin Pino Vargas | Hieu Kieu |
| | | | | | | | | 795 | Spatial And Temporal Analysis Of Chlorophyll-A Using Sentinel-2 Data At Sutami Reservoir, Indonesia | Firman Sarifudin Efendi | |
| | | | | | | | | 1114 | Responses To Climate Change In The Complexity And Instability Of Braided Rivers In Central Asia | Zhiwei Li | |
| | | | | | | | | 775 | Evaluation of Satellite Imagery-Based High-Resolution DTMs for Flood Analysis in Steep-Slope Regions | Maulana Ibrahim Rau | |
| | | | | | | | B.2.7 Other Related Topics | 558 | Thermal Regimes In River Systems Shaped By Precipitation And Paddy Field Agriculture In Japan | Morihiro Harada | |
| | | | | | | | | 861 | Modelling Nutrient Emissions Into Waterbodies Caused By Various Land-Use | Samaneh Alighanbari | |

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| 108 | 27-Jun-2025 | Friday | 9:00 AM | 10:30 AM | ROOM 4 | Technical Session | A.2.5 Forecasting and Warning | 762 | Probabilistic Decision Support For Anticipatory Flood Actions In Alexandria City, Egypt | Biswa Bhattacharya | Mark Hegnauer |
| | | | | | | | | 155 | Advances In Flash Flood Forecasting For Urban And Semi-Arid Regions: A Case Study From Saudi Arabia | FAWAZ ALZABARI | |
| | | | | | | | | 527 | 2d Modeling On River Flow Characteristics Due To Extreme Rainfall | I GEDE TUNAS | |
| | | | | | | | | 1189 | A Novel Discrete Boltzmann Model For Shallow Water Flows With Wet And Dry Scheme | Yong Peng | |
| | | | | | | | | 548 | Rainfall And Runoff Characteristics In The Kumano River Basin Using Different Resolution Global Warming Prediction | KOHJI TANAKA | |
| 109 | 27-Jun-2025 | Friday | 9:00 AM | 10:30 AM | ROOM 5 | Technical Session | A.2.4 Sediment Transport and Bathymetrical Changes Assessment | 996 | Operational Flood Forecasting Using Integrated Nwp-Hydrological Distributed Models And Deep Learning:Projections Of Flews Manipur | Romeji Ngangbam | Michael Nones |
| | | | | | | | | 78 | A Data-Driven Approach To Real-Time Reconstruction Of Turbulent Flow Fields On Coarse-Grain Bed Using Sparse Observational Boundary Data | Yifan Yang | |
| | | | | | | | | 1156 | Assessing The Effect Of A Morphological Acceleration Factor On 2d Morphodynamic Modeling In A Braided River | Behnam Balouchi | |
| | | | | | | | | 1092 | Observing And Analyzing The Riverbed Evolution Process In Relation To Different Floodplain Widths Through Flume Experiments. | Chong-Yu Sun | |
| | | | | | | | | 803 | Sand-Gravel Mining Impacts On Sediment Transport And Morphology Of Thoubal River | ROMEJI NGANGBAM | |
| | | | | | | | | 847 | Modelling Sediment Deposition In Reservoir Using Complex Model Chain And Limited Data - Focus On 1d Numerical Modelling | Slaven Conevski | |
| 110 | 27-Jun-2025 | Friday | 9:00 AM | 10:30 AM | ROOM 6 | Technical Session | A.2.6 Disaster Risk Reduction | 1080 | Spatiotemporal Variations In Riverbed Stability In The Lower Jingjiang Reach Of The Yangtze River And Its Response To Flow And Sediment Characteristics | Jingyi Zhu | Kenji Kawaike |
| | | | | | | | | 1103 | Using Comprehensive Field Data For Validating Large-Scale Hydrodynamic Hindcasting Of An Extreme Flood Event | Pratik Chakraborty | |
| | | | | | | | | 671 | 3d Numerical Assessment Of Water-Induced Forces On People During The Evacuation Of Flooded Stairs | Beniamino Russo | |
| | | | | | | | | 607 | Development Of Evaluation Model For Driftwoods Generation In The Kawabe River Basin Due To Heavy Rain Event And Assessment Of The Effect Of The Climate Change | Shinichiro Yano | |
| | | | | | | | | 609 | Aseismic Mechanism Of Laminated Shear Energy Dissipation Structure In Hydraulic Tunnels During An Earthquake | Ningbo Li | |
| | | | | | | | 1050 | Risk Assessment Of Rainfall-Induced Landslides By Slope Unit-Based Data Augmentation | JIE LIU | | |

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| | | | | | | | | 510 | Development Of Building Fragility Curves For Flooding In The July 2020 Kuma River Flood, Japan | Riku Kubota | |
| 111 | 27-Jun-2025 | Friday | 9:00 AM | 10:30 AM | ROOM 7 | Technical Session | A.3.5 Eco- and Environmental Hydraulics | 694 | High-Resolution Numerical Modelling Of Sediment Dynamics In Submerged Canopies | Shahabaddin Abbaszadeh | FERNANDO J. MENDEZ |
| | | | | | | | | 992 | Prediction Of Climate Change Impact On River Temperature In The First Class Rivers Of Chugoku Region Using Deep Learning | Daichi Fukumaru | |
| | | | | | | | | 1006 | Simulation Of Supersaturated Total Dissolved Gas Transport In Compound Vegetated Channel | Youquan Yuan | |
| | | | | | | | | 957 | Study On The Impact Of Entrainment Effects At River Intakes On Early Fish Resources | Zhonghang Wu | |
| | | | | | | | | 1196 | Effect Of Brush Block On The Movement Characteristics Of Squalius Orpheus In A Pool-Weir Fish Pass: Ethohydraulic Experiments | Mehmet Salih Turker | |
| | | | | | | | | 1081 | Open-Channel Confluence As An Oblique, Curved, Confined Jet In A Crosflow | Yunqiang ZHU | |
| 112 | 27-Jun-2025 | Friday | 9:00 AM | 10:30 AM | ROOM 8 | Technical Session | A.2.1 Coastal Processes and Hazards | 1138 | Numerical Assessment Of Wave Interaction With Curved Front Face Pile-Supported Breakwater | Shaik Firoj | Yaodong Zhang |
| | | | | | | | | 938 | Numerical And Experimental Study Of Wave Dynamics Around Detached Breakwaters | Shu Kai Ng | |
| | | | | | | | | 227 | A Study On Prediction Of Saltwater Intrusion In Costal Aquifer Using Lstm Technique | Woochang Jeong | |
| | | | | | | | | 239 | The Effects Of The Structural Complexity On The Flow Field Around Menger-Type Cubic Artificial Reefs | Jialin Zhao | |
| | | | | | | | | 700 | Intensified Wind And Discharge Impact Of River Plume Spreading On Berau Continental Shelf | Andi Egon | |
| | | | | | | | | 876 | Numerical Investigation Of Tsunami Force Reduction In Micro-Roughness Elements With Varying Blockage Effect | Nandhini Duraimurugan | |
| 113 | 27-Jun-2025 | Friday | 9:00 AM | 10:30 AM | ROOM 9 | Technical Session | A.3.2 River Engineering and Management | 1142 | Modelling Flood And Large Wood: A Dynamic Duo In Motion | Stefano Sibilla | Thue Noehr Geil |
| | | | | | | | | 488 | Research On Model Tests And Numerical Simulations Of The Hydraulic Characteristics Of Curved Spillways | FEI LIU | |
| | | | | | | | | 1018 | 3d Numerical Modelling Of Flow Overtopping Induced Of Fluvial Dikes | Zhou Shiqin | |
| | | | | | | | | 105 | A Comparison Of Scour And Flow Field At Three Different Spur Dikes | Lav Kumar Gupta | |

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| | | | | | | | | 1026 | Computation Of Bed Shear Stress Using Multiple Methods And Quadrant Analysis In An Asymmetric Sinuous Channel | Prafukumar V Timbadiya | |
| | | | | | | | | 939 | Sand Supply To Gravel Bed And Its Effect To Gravel Mobilization And Channel Evolution | Hiroshi Miwa | |
| 114 | 27-Jun-2025 | Friday | 9:00 AM | 10:30 AM | ROOM 10 | Technical Session | A.6.2 Hydrological Measurements (Flow, Groundwater, Precipitation, etc.) | 948 | Estimation Of River Cross-Sectional Profile During Flood Condition Based On River-Water-Surface Flow | Hideto Yoshimura | Pui Yee Wong |
| | | | | | | | | 950 | Image Processing Technique Of Velocity For Videos With Shaking, Panning, Tilting And Rotation Taken During Flooding | Jin Kashiwada | |
| | | | | | | | | 513 | Rainfall Intensity Measurement By Using Deep Learning With Optical And Acoustic Sensors | Cheng Wei Wu | |
| | | | | | | | | 485 | Estimation Of Flow Discharge Of Large-Sized Rivers In Flood Time Using A Drone Video | Kwonkyu YU | |
| | | | | | | | | 701 | Unsteady Features Of Bedload And Near-Bed Turbulence Measured In A Braided Gravel Bed River | Ryota Tsubaki | |
| | | | | | | | B.1.7 Other Related Topics | 994 | Evaluating The Performance Over MI-Based Of Xgboost Over Mlr For Heatwave Prediction | MANALI PAL | |
| 115 | 27-Jun-2025 | Friday | 9:00 AM | 10:30 AM | ROOM 14 | Technical Session | B.2.4 Nature-based Solutions for Coastal and Estuarine Waters | 659 | The Evolution Of Hydrodynamic Intensities And Sediment Erosion Along Submerged Aquatic Vegetation | XINYALIANG | Kian Yew Lim |
| | | | | | | | | 887 | Conceptual Framework For Mangrove-Based Eco-Engineering Solutions | Danica Tothova | |
| | | | | | | | | 215 | Enhancing Mangrove Restoration Through The Socio-Economic Cost-Benefit Approach | Erika Ng | |
| | | | | | | | | 194 | Strengthening Mangrove Restoration: Portable Breakwater Solutions For Enhancing Sapling Survival And Root Stability | Sindhu Sreeranga | |
| | | | | | | | | 817 | Nature Inclusive Coastal, Ports And Offshore Infrastructures | Fernando Colom | |
| | | | | | | | B.2.2 Nature-based Solutions for Upstream Catchments and Small Streams | 555 | Evaluation Of Nature-Based Flood Mitigation Measures In Alluvial Fan Floodplain | Kazuaki Ohtsuki | |
| 116 | 27-Jun-2025 | Friday | 9:00 AM | 10:30 AM | ROOM 15 | Technical Session | A.3.1 Water Resources Management | 1345 | Water Resource Management For Sustainable Agriculture: A Framework To Adapt To A Changing Climate In Ghana's Tree Crop Sector | Francesco Cioffi | Huihong Liu |
| | | | | | | | | 159 | Integrating Hydrologic Insights With Environmental Flow Needs: A Spatial-Temporal Approach | Yan Zhou | |
| | | | | | | | | 703 | Assessment Of Drinking Water Losses In The Wellington Region | Yan Zhou | |

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| | | | | | | Technical Session | B.1.2 Flood and Droughts Management | 172 | Factors determining the efficiency of drinking water production locations in the Netherlands | Timothy Lord | | |
| | | | | | | | | 819 | Analysis Of Inflow And Incremental Flow Anomaly With The Enso Index On Parana Basin | Luiz Henrique Maldonado | | |
| | | | | | | | | 1149 | The Role Of Groundwater Resources In Drought Mitigation In Southern Angola | Pedro Lombe | | |
| 117 | 27-Jun-2025 | Friday | 9:00 AM | 10:30 AM | ROOM 11 | Technical Session | A.3.4 Urban Hydraulics | 1023 | A Case Study On Integrating And Repurposing An Existing Public Irrigation Channel Into A Water Feature In A Private Residential Development | JONAH MARIE MALOLOS | Rocco Palmitessa | |
| | | | | | | | | 98 | Field Investigation Of The Flow Field In Box Culverts – Preparation And Challenges | Hui Ling Wong | | |
| | | | | | | | | 717 | Dynamics Of Gas Phase Hydrogen Sulfide Distribution In A Prototype Sanitary Sewer Network | Yu Qian | | |
| | | | | | | | | 497 | Experimental Study On Dynamic Characteristics Of Entrapped Air In Urban Drainage System | Rui-lin Feng | | |
| | | | | | | | | 141 | Hydraulic Performance And Flow Characteristics Of Adjustable Tilting Weir | Jiazhen Li | | |
| 118 | 27-Jun-2025 | Friday | 9:00 AM | 10:30 AM | ROOM 12 | Technical Session | B.3.1 Hydro-Environment History and Heritage | 915 | Applicability Of 2d Hydraulic Model For Small-Scale Urban Flood Scenarios In Heritage Sites: A Case Study Of Katsura Imperial Villa, Japan | XI CHEN | Hyoseop Woo | |
| | | | | | | | | 985 | Demonstration Center For Urban Water Cycle At A University Building Scale | Matjaz Mikos | | |
| | | | | | | | | 145 | Is There A Need For Model-Based Water Research To Involve Stakeholders: An Insight On Sociohydrology Practices In The Philippines? | Jastine Mae Galang | | |
| | | | | | | | | 1229 | Sharing Traditional Water Management Techniques To Deliver Sdgs And Tackle The Global Water Crisis | David Hetherington | | |
| | | | | | | | B.3.4 Coastal Resilience and its Definitions | | 110 | Case Study Of Breakwater Response Analysis In The Superposition Of Earthquake And Tsunami | | masayuki Takamoto |
| | | | | | | | A.3.11 Other Related Topics | | 243 | The Impact Of Water Engineering On The Evolution Of Human-Water Relationship: A Case Study Of Dongting Lake | | Xingya Xu |
| 119 | 27-Jun-2025 | Friday | 9:00 AM | 10:30 AM | ROOM 13 | Technical Session | R 1.5 Resilience Strategies for Extreme Events | 633 | Assessing Land Use Change Scenarios To Reduce Impacts Of Extreme Flash Flooding In Semiarid Coastal Areas Of Southeast Of Spain | SANDRA GARCIA GALIANO | Maria Preonlatu | |
| | | | | | | | | 893 | Evaluation Of Compound Extremes Of Temperature And Precipitation In The State Of Florida, United States | Ramesh Teegavarapu | | |
| | | | | | | | | 1061 | Automation Of Dynamic Adaptation Pathways Planning (Study Case: North Jakarta Bay) | Elyada Eben Ezer | | |

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| 119 | 27-Jun-2025 | Friday | 9:00 AM | 10:30 AM | ROOM 16 | Technical Session | B.1.7 Other Related Topics | 1076 | A Study On The Development Of Urban Flood Resilience Index From The Perspective Of Socio-Ecological Systems | Su Min Song | Zi Qian Yang |
| | | | | | | | | 1110 | Comparative Analysis Of Flood Risk Assessment : A Spatial Vs Social Based | Annisak Laila Rakhmawati | |
| | | | | | | | | 663 | Assessing The Impact Of Flood Events On Seasonal Hypoxia Using D4pdf Database In The Ariake Sea, Japan | LIN HAO | |
| 120 | 27-Jun-2025 | Friday | 9:00 AM | 10:30 AM | ROOM 16 | Technical Session | B.1.3 Improvement in Design Guidance under Climate Change | 770 | Numerical Modeling Of Surf Zone Hydrodynamics Using Swash | Leonardo Damiani | Zi Qian Yang |
| | | | | | | | | 221 | Hydrodynamic Evaluation Of Flood Control At Yamadazeki Barrage: A Two-Dimensional Model Analysis Of Oblique Weir In Chikugo River | Toshinori Tabata | |
| | | | | | | | | 1133 | Integrating Impacts Of Climate Change On Aquatic Environments In Inter-Basin Water Regulation: Establishing A Critical Threshold For Best Management Practices | Didi Song | |
| | | | | | | | | 253 | Towards Coastal Resilience In Singapore: Adaptive Planning Strategies | XUELU WANG | |
| | | | | | | | 254 | Building Climate Resilience And Ensuring Water Security In Ramanathapuram: Strategies For Sustainable Adaptation | Subha Muthu Kumar | | |
| | | | | | | | B.1.7 Other Related Topics | 126 | Cooling The Concrete Jungle: A Hybrid Statistical And Machine Learning Approach To Urban Heat Island Mitigation In Auckland Cbd | Kilisimasi Latu | |
| 121 | 27-Jun-2025 | Friday | 9:00 AM | 10:30 AM | ROOM 17 | Technical Session | A.6.1 Advanced Experimental Techniques | 993 | On The Use Of Substitute Sediments To Study Entrainment And Retention In Wakes | Ingo Schnauder | Hua Liu |
| | | | | | | | | 440 | Residual Energy Of Hydraulic Jumps: Characterization Using Image Velocimetry | Robert Ljubicic | |
| | | | | | | | | 845 | Performance Evaluation Of Pressure Sensors Under Two-Phase High-Speed Flows In A Low-Level Outlet | Janine VÁlgele | |
| | | | | | | | | 981 | Scour Monitoring Around Piers To Recognize Critical Conditions For Existing Bridges | Pietro Giaretta | |
| | | | | | | | | 1014 | Wind-Wave-Dependent Properties Of Aerodynamic Roughness Length In A Large-Scale Wind-Wave Tank | WENYI LI | |
| 122 | 27-Jun-2025 | Friday | 11:00 AM | 12:30 PM | ROOM 1 | Technical Session | A.3.3 Reservoirs Management | 855 | Evaluating Outflow Discharge From Flood Control Reservoirs: A Comparison Of The Chicago Storm-Based Method And The Variational Approach | Dina Pirone | Alvin Goh |
| | | | | | | | | 646 | Study On An Inflow Flood Identification Model Of Reservoir Group | Jing Huang | |
| | | | | | | | | 60 | Two-Dimensional Hydrodynamic Analysis And Field Measurements For The Assessment Of Eutrophication In The Peñitas Reservoir, Mexico | Fabian Rivera-Trejo | |

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| | | | | | | | B.1.6 Adoption of Green and Grey Water Infrastructure | 95 | A Methodology To Consider The Effect Of Paddy Field Dams Using Open Polygon Data Toward Basin Flood Control Management | Kenichiro Kobayashi | |
| | | | | | | | B.2.2 Nature-based Solutions for Upstream Catchments and Small Streams | 34 | A Study Of The Impact Of Bioswale To Filter Npk Fertilizer For Algal Bloom Mitigation | INTAN SUPRABA | |
| | | | | | | | A.5.7 Other Related Topics | 1165 | Digital Hydraulic Jump At Froude Number 6 Properties Along The Hydraulic Jump Length | Rita Carvalho | |
| 123 | 27-Jun-2025 | Friday | 11:00 AM | 12:30 PM | ROOM 2 | Technical Session | A.2.2 Hydraulic Structures and Processes | 763 | Investigation Of Suspended Sediment And Turbine Erosion For The Sustainable Operation Of A Planned Low-Head Hydropower Plant | Robert Boes | Cheng Chen |
| | | | | | | | | 964 | Design Of A Hydraulic Laboratory Experimental Set Up For Observing Suspended Sediment Transport And The Deposition In A Pipes | Yoon-Hwan Jeong | |
| | | | | | | | | 1609 | Numerical And Physical Modelling Of A Bottom Outlet Stilling Basin Without Impact Element | LUIS Balairon | |
| | | | | | | | | 927 | Experimental Study On Lateral Overflow Angle In Straight Open Channel | Koji Asai | |
| | | | | | | | A.3.4 Urban Hydraulics | 850 | Cfd Modelling Study Of Air-Water Stratified Flow In The Partially Filled Underground Gravity Main | Janek Laanearu | |
| | | | | | | | A.3.4 Urban Hydraulics | 1045 | Experimental Investigation Of Acoustic Wave Propagation In Fully Developed Turbulent Pipe Flow | XIN MENG | |
| 124 | 27-Jun-2025 | Friday | 11:00 AM | 12:30 PM | ROOM 3 | Technical Session | A.5.3 Computational Methods for Hydraulic and Water Quality Modelling | 670 | Real-Time Water Consumption Model Using Google Popular Times: A Cost-Effective Alternative To Smart Water Metering | Milad Rajaei | Ronald Chan |
| | | | | | | | | 864 | Improving Sedimentation Efficiency In Accelerator Decanters: A Case Study Using Cfd | CELIA ORTEGA | |
| | | | | | | | | 990 | Calibration Of A Hybrid Transient-Machine Learning Model For Anomaly Detection In Water Transmission Mains Using A Physical Testbed | maurizio righetti | |
| | | | | | | | | 1051 | Enhancements Of A Two-Dimensional Shallow Water Mps Method To Model Non-Newtonian Flash Floods | Ahmad Shakibaeinia | |
| | | | | | | | | 93 | Simulation Of Flow And Fish Behavior Including Check Dams (Groundsills) And Fishways In The Toyohira River Using Iric-Gelato | Michihiro Hamaki | |
| | | | | | | | | 392 | Air Entrainment In Hydraulic Jumps With A Novel Theoretical/Numerical Model | Leiza Evelin D'Angelo | |
| | | | | | | | | 1059 | Experimental Investigation Of Wind-Driven Subsurface Turbulence | XIANTING ZHAO | |
| | | | | | | | | 206 | Velocity Structure Measurement For Water Flow With Air Bubbles In A Horizontal Pipe | Chaebin Song | |

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| 125 | 27-Jun-2025 | Friday | 11:00 AM | 12:30 PM | ROOM 4 | Technical Session | A.6.1 Advanced Experimental Techniques | 125 | Unraveling The Role Of Pocket Geometry In The Initiation Of Large Sediment Particles: Insights From Imu-Based Analysis | Xin Lu | Jochen Aberle |
| | | | | | | | | 472 | Urban Flood Pilot Experimental Facility For The Development Of An Urban Flood Infrastructure Monitoring System And Evaluation Method | Jongmin Kim | |
| | | | | | | | | 1210 | Density Currents Interacting With An Array Of In-Line And Emergent Cylinders | #N/A | |
| | | | | | | | A.6.10 Other Related Topics | 1010 | Effect Of Contraction Length On Hydrodynamics And Scour Characteristics For Pressure Flow Under A Bridge Deck | THEKKILAKKATTU NYPE ELDHO | |
| 126 | 27-Jun-2025 | Friday | 11:00 AM | 12:30 PM | ROOM 5 | Technical Session | B.1.2 Flood and Droughts Management | 1011 | Effect Of Antecedent Soil Moisture Conditions On Flood Characteristics | Vamsi Krishna Vema | Shiyong Xu |
| | | | | | | | | 73 | Advanced Methodology For Intensified Flash Drought Detection And Ecosystem Impacts Across Indian River Basins | VIKAS POONIA | |
| | | | | | | | | 1399 | Flood Risk Assessment Of Kerala Using A Local-Inertial Model | BHADRA DEVADAS | |
| | | | | | | | | 85 | Optimization Of Flood-Control Reservoirs Considering Climate Change Impact On High Water Waves | Igor Mtkar | |
| | | | | | | | | 328 | Assessing Compound Flood Drivers In Peninsular India: A Bivariate Analysis Of Precipitation, Runoff, And Soil Moisture | ANKITA MUKHERJEE | |
| | | | | | | | | 727 | Using Advanced Economic Modelling To Value Tangible And Intangible Benefits Of Flood & Drought Resilience | Liyana Fad'l | |
| 127 | 27-Jun-2025 | Friday | 11:00 AM | 12:30 PM | ROOM 6 | Technical Session | A.2.6 Disaster Risk Reduction | 1091 | A Comprehensive Design Framework For Placement Of Urban Flood Prevention Measures For Critical Area | RUIXUAN WU | Farzin Samsami |
| | | | | | | | | 363 | Study On The Effect And Influencing Factors Of Leaching Desalination Method | Penghe Wang | |
| | | | | | | | | 1031 | Multi-Driver Approach To Modeling Compound Flood Hazards (Case Study Of Pekalongan City, Indonesia) | Annisak Laila Rakhmawati | |
| | | | | | | | A.2.5 Forecasting and Warning | 1013 | An Efficient Early Warning System Of Tropical Cyclone-Induced Impacts For Small Pacific Island Countries | FERNANDO J. MENDEZ | |
| | | | | | | | A.4.3 Offshore Renewable Energy Systems (Offshore Wind Power, Oceanic Current Power, etc) | 443 | Hydrodynamic Impact Of Offshore Wind Farms In New York And New Jersey Area | Ruo-Qian Wang | |
| B.1.7 Other Related Topics | 491 | Hydrological Modelling: Insights Into Hydrological Signals And Contaminant Transport | Adil Siripatana | | | | | | | | |
| | | | | | | | | 923 | The Effects Of Vegetation Height And Density On Flow And Turbulence Within And Behind A Patch Of Vegetation | Masaya Yoshikai | |

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| 128 | 27-Jun-2025 | Friday | 11:00 AM | 12:30 PM | ROOM 7 | Technical Session | A.3.5 Eco- and Environmental Hydraulics | 1180 | Lessons From The Field: Fish Can Go With The Pipe Flow | Hiruni Kammanankada | Xindi Chen |
| | | | | | | | | 1213 | Ethohydraulic Experiments On Downstream Fish Migration With Oppermann Fine Screen | Cumhur Ozbey | |
| | | | | | | | | 1384 | Time-Varying Effects Of Water Diversion From River To Lake On Lacustrine Phytoplankton Communities | Jiangyu Dai | |
| | | | | | | | | 534 | Sediment Transport In Vegetated Channel | Jennifer Duan | |
| | | | | | | | B.1.3 Improvement in Design Guidance under Climate Change | 616 | VULNERABILITY OF DAMS AND RESERVOIRS TO CLIMATE CHANGE IN THE MEDITERRANEAN REGION: THE CASE OF ALMOPEOS DAM IN NORTHERN GREECE | Anastasios Stamou | |
| 129 | 27-Jun-2025 | Friday | 11:00 AM | 12:30 PM | ROOM 8 | Technical Session | A.5.4 Computational Methods for Coastal Processes (Waves, Currents, etc.) | 411 | Analysis Of Three-Dimensional Dynamics In The St. Lawrence Fluvial Estuary | Maelys Le Mouel | Zhengzhi Deng |
| | | | | | | | | 1144 | Numerical Study Of Wave Attenuation Across Different Vertical Vegetation Zones | Maelys Le Mouel | |
| | | | | | | | | 1178 | Numerical Investigation Of Regular Wave Interaction With Cylinder Array | Julio Ramirez | |
| | | | | | | | | 332 | Fluid-Structure Interactions Based On A Large Eddy Simulations Numerical Wave Tank | Ashutosh Priyadarsan | |
| | | | | | | | | 1252 | Modelling Of Sediment Clump In Open Water Sediment Disposal | Er Jenn Wei Er | |
| | | | | | | | A.4.8 Other Related Topics | 1098 | Tidal Hydrodynamic Modelling Of Sunda Shelf Seas | Amyrhu Abu Bakar | |
| 130 | 27-Jun-2025 | Friday | 11:00 AM | 12:30 PM | ROOM 9 | Technical Session | A.5.5 Data-Driven Methods and Machine Learning Techniques | 1173 | Data-Driven Leak Detection In Real Water Distribution Networks With Multiple Excitation | Vincent Tjuatja | Hui Zhang |
| | | | | | | | | 983 | A Random Forest-Based Traceability Method For Drifting Corpse Drop Sites | Yuzhao Xie | |
| | | | | | | | | 1003 | Data Completion For River Cross Section Morphology Under The Water Based On Deep Learning Models | Yuzhao Xie | |
| | | | | | | | | 1195 | Physics-Informed Neural Networks With Automated Parameter Scaling For Simulation Of Water Pollution | Haoran Li | |
| | | | | | | | | 442 | Flow Routing In Rivers With Neural Networks | RICARDO GUTIERREZ | |
| | | | | | | | A.3.11 Other Related Topics | 44 | Gumbel Distribution Function Parameters Estimation Using Gravitational Search | Maritza Arganis | |

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| 131 | 27-Jun-2025 | Friday | 11:00 AM | 12:30 PM | ROOM 10 | Technical Session | A.4.4 Water-Energy-Food Nexus | 854 | Resilience Of Irrigated Agroecosystems: A Nexus Approach Using Multidimensional Indicators And Smart Water Technologies | Umberto Fratino | Baixin Jiang | |
| | | | | | | | | 1179 | Characterization Of An Innovative Off-Grid Hydraulic Device For Irrigation Sustainability | Davide Troiani | | |
| | | | | | | | | 516 | Adaptive Water Management Under Coal-Fired Power Phase-Out: New Equilibrium And Multiple Benefits | Haixing Gou | | |
| | | | | | | | | 169 | Evaluation On The Sustainability Of The Water-Energy-Food-Energy Nexus Based On A Comprehensive Indicator System | Zixi Liu | | |
| | | | | | | | | 287 | Development Of Analytic Network Framework For Techno-Economic Analysis Of Urine Treatment Technologies | Haresh Dash | | |
| 132 | 27-Jun-2025 | Friday | 11:00 AM | 12:30 PM | ROOM 14 | Technical Session | B.2.7 Other Related Topics | 496 | Development Of Fluid Force Measurement Equipment For Hydraulic Experiments | HARUKI MATSUI | Celine Teo | |
| | | | | | | | | B.2.6 Ecosystem Services | 545 | Mangrove Ecosystem Services In Fiji: Bridging Knowledge Gaps In Ecosystem Services Valuation | | Laura Montano |
| | | | | | | | | 123 | Adapting Catchment Approaches To A Changing World - Building Capacity, Governance And Funding Solutions In The Uk | Michael Adams | | |
| | | | | | | | | 205 | Variability In Water Temperature Due To Hydropeaking In A Mountain River: Implications For Invertebrates | Estrella del Carmen Carrero Carralero | | |
| | | | | | | | | 365 | Connecting Water, Biodiversity And Cultural Ecosystems Services – Research And Practice | Ana Estela Barbosa | | |
| 133 | 27-Jun-2025 | Friday | 11:00 AM | 12:30 PM | ROOM 15 | Technical Session | A.2.3 Enhancements in Urban Drainage Systems | 504 | Identification Of Hydraulic Jump Types In Mitigating The Risk Of Accidents On Recreational Hydraulics (Rafting Tourism) To Support Sustainable River Management | Adhy Kurniawan | Tian Li | |
| | | | | | | | | 1261 | Urban Coasts And Extreme Events In Spain | Jose M. GRASSA | | |
| | | | | | | | | A.4.5 Water Management for Urban Agriculture | 361 | Seeking Effect Of Global Warming On Wheat Crop Indicated By Neural Network Aided Crop Water Stress Index | | Palash Krishna Dandotia |
| | | | | | | | | 374 | Data-Driven Prediction Of Canopy Temperature Using Artificial Neural Networks | Gopal Das Singhal | | |
| | | | | | | | | 454 | Integrated Planning Of Water Resources And Management For The Emirate Of Abu Dhabi | Mike Healey | | |
| A.4.6 Water for Hydrogen Production | 666 | Hydrogen-Assisted Biogas Upgrading: A Pathway To Renewable Energy Optimisation And Climate Mitigation | Saba Aghdam Tabar | | | | | | | | | |
| A.4.6 Water for Hydrogen Production | 729 | How Can Water Authorities Influence The Hydrogen Economy – Lessons From Australia | Alexus Van der Weyden | | | | | | | | | |

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| | | | | | | | A.4.3 Offshore Renewable Energy Systems (Offshore Wind Power, Oceanic Current Power, etc) | 615 | Frequency-Domain And Mesh-Independent Dynamic Response Analysis For Wave Spectral Fatigue Assessment Of Offshore Structures | Yu TAN | |
| 134 | 27-Jun-2025 | Friday | 11:00 AM | 12:30 PM | ROOM 11 | Technical Session | B.2.1 Innovative Solutions for City in Nature with Water | 1054 | Shaping Water Innovation Ecosystems: A Systems Framework For Governance And Aquapreneurship | Pepe Puchol-Salort | Fang Yenn Teo |
| | | | | | | | | 1329 | Assessing The Hydrological Performance Of Green Roof Experimental Trays Having Distinctive Configurations | Kilisimasi Latu | |
| | | | | | | | | 385 | Water-Sensitive Urban Design - Innovative Climate Change Adaptation With Rain And Grey Water Management In The Research Project Resource:Mannheim, Germany | Jochen Hack | |
| | | | | | | | | 593 | A City Re-Growing With Water: The Implementation Of Nature-Based Solution From Large- To Small-Scale | Yangyue Yu | |
| | | | | | | | | 314 | Preliminary Assessment Of The Suitability And Effectiveness Of Nature-Based Solutions For Urban Flood Mitigation. Methodology, Tools And Application Cases | Eduardo Garc a Alonso | |
| | | | | | | | | 257 | Assessment Of Natural Flood Management Schemes: Case Study Of Upper Weardale, Uk | Medha M | |
| 135 | 27-Jun-2025 | Friday | 11:00 AM | 12:30 PM | ROOM 12 | Technical Session | A.6.4 Aquatic Ecology and Biological Surveys | 967 | Nitrogen Cycling And Microbial Dynamics In Singapore's Coastal Waters | Shuowang Lin | Jia Wang |
| | | | | | | | | 798 | Mussel-Id: An Efficient Deep Learning Model For Target Detection Of Golden Mussel Larvae In Water Diversion Project | Xing Xuanwei | |
| | | | | | | | | 1052 | The Morphological Characteristics Of The Fish Habitats Distributed At The Tongde Basin In Upper Yellow River | Chubin Weng | |
| | | | | | | | | 960 | Pfas Shapes The Diversity Of Bacterioplankton In A Typical Freshwater Of Subtropical Monsoon Ecosystem | Muhammad Ibrahim | |
| | | | | | | | | 678 | Wake Characteristics In A Staggered Boulder Array | Yannick Marschall | |
| | | | | | | | | 1367 | Operation Of Pilot-Scale Floating Wetland In The Treatment Of Micro-Polluted River Water | Rui Wang | |
| 136 | 27-Jun-2025 | Friday | 11:00 AM | 12:30 PM | ROOM 16 | Technical Session | A.3.2 River Engineering and Management | 914 | Meandering Development Processes Of The River With Floodplain Vegetation Experimentally | Chang-Lae Jang | Umberto Alibrandi |
| | | | | | | | | 1231 | Hydraulic Modeling And Sediment Transport For Flood Mitigation: Insights From Geremeas Basin (It) | Andrea Sulis | |
| | | | | | | | | 989 | An Expression For Force Exerted By The Downflow On The Sediment Bed Using Lagrangian Coherent Structures | Murali Krishnamraju Kalidindi | |
| | | | | | | | A.1.6 Other Related Topics | 269 | Potential Reduction Of Non-Navigatable Ice-Blocked Season In The Great Lakes Due To Climate Warming | Haoran Shi | |

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| | | | | | | | A.1.5 Reduction of Greenhouse Gas Emissions from Water Systems | 668 | Co2 And Ch4 Emissions Of The Upper Yellow River On The Tibetan Plateau: Freeze-Thaw Seasonal Variations And Environmental Controls | Chen Li | |
| | | | | | | | A.5.7 Other Related Topics | 1204 | Effect Of Wastewater Treatment Biological Reactor Geometry On Required Mixing Intensity | Ketan Madane | |
| 137 | 27-Jun-2025 | Friday | 11:00 AM | 12:30 PM | ROOM 16 | Technical Session | B.1.1 Coastal Protection and Management | 783 | A Hybrid Structure to Reduce Wave Overtopping in Urban Coast of Jakarta | Matthijs Bos | Sarah Hiong |
| | | | | | | | | 726 | Experimental Investigation Of Wave Overtopping On Hard And Nature-Based Coastal Structures | RABBANI RAEMEE | |
| | | | | | | | | 787 | Dunefront Project: Demonstration Of Dune-Dike Hybrid Nature-Based Solutions | Zeger Sierens | |
| | | | | | | | | 649 | Selection Of Optimal Flood Protection Standard For Singapore's Coastline | | |
| | | | | | | | | 975 | Case Study Of Sustainable Downstream Storage For Coastal Area Water Supply | | |
| 138 | 27-Jun-2025 | Friday | 11:00 AM | 12:30 PM | ROOM 17 | Technical Session | A.5.2 Computational Methods for Climate and Meteorology | 877 | Automated Rainfall Data Generator For Continuous Modelling Of Stormwater Pollutants And Runoff | | Davide Wüthrich |
| | | | | | | | | 1187 | Evaluating The Effects Of Wastewater Management Strategies On Soil And Water Resources In Rural Terre Haute, Indiana, Usa | | |
| | | | | | | | | 761 | Discrete Wavelet Transform Approach To Identify Influential Time Scales In Temperature Trends Over The Cauvery River Basin, India | | |
| | | | | | | | | 1100 | Ranking Of Cmp6-Gcm For The Precipitation Variable Across The Brahmaputra Basin Of India | | |
| | | | | | | | | 1230 | Weather Research Forecast Modelling And Pseudo-Global Warming Technique For Projection Of Tropical Cyclones In South China Sea Impacting Hong Kong | | |
| | | | | | | | | 765 | Comparing Optimization Methodologies For Calibration Of 2d/3d Hydrodynamic Models | | |
| | | | | | | | A.2.2 Hydraulic Structures and Processes | 1215 | FORM AND FRICTION DRAG COEFFICIENTS OF FINE SCREENS: STREAMLINED AND RECTANGULAR BAR PROFILES | | |
| | | | | | | | | 201 | Experimental Study of Local Scour Downstream of a Stilling Basin | | |
| | | | | | | | | 1222 | PARAMETER ESTIMATION AND IDENTIFIABILITY OF OXYGEN TRANSFER IN SELF-AERATED FLOWS | | |
| | | | | | | | | 520 | Analysis and extension of streamflow and sediment load in the Jialing River Basin | | |
| | | | | | | | A.2.4 Sediment Transport and Bathymetrical Changes Assessment | 520 | Analysis and extension of streamflow and sediment load in the Jialing River Basin | | |

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| Poster Presentations | 25-Jun-2025 | Wednesday | 1:00 PM | 2:00 PM | ROOM 2 | Technical Session | A.2.5 Forecasting and Warning | 268 | Monthly rainfall prediction model based on CONVLSTM2D | | |
| | | | | | | | A.2.6 Disaster Risk Reduction | 164 | Flood Risk Investigation with Application of Low Impact Development Facilities in Urban Areas using Storm Water Management Model | | |
| | | | | | | | | 1073 | The Impact of Tributary Debris Flow on the Sediment Transport of Main River | | |
| | | | | | | | | 747 | Geospatial modelling - the nexus for climate induced hazard assessment and informed decision making for disaster risk reduction | | |
| A.3.1 Water Resources Management | 738 | Three-Water Integration and Co-Governance Strategy for Enhancing Agricultural Water Use Efficiency and Mitigating Non-Point Source Pollution | | | | | | | | | |
| Poster Presentations | 25-Jun-2025 | Wednesday | 1:00 PM | 2:00 PM | ROOM 3 | Technical Session | A.3.2 River Engineering and Management | 156 | Estimating rainfall-runoff amounts based on cluster analysis of spatiotemporal rainfall distributions using long-term ensemble climate projection data | | |
| | | | | | | | A.3.4 Urban Hydraulics | 928 | EVALUATION OF URBAN DRAINAGE SYSTEM AND ESTIMATE THE FLOOD INUNDATION AND RISK MAP USING PCSWMM IN KAMPUNG ALOR DILI TIMOR LESTE | | |
| | | | | | | | A.3.4 Urban Hydraulics | 638 | WATER AND SEWAGE UTILITIES APPROACH TO WATER HAMMER. AN EVALUATION OF THE SWEDISH STATE OF KNOWLEDGE | | |
| | | | | | | | A.3.9 Alternative Water Resources | 370 | ARTIFICIAL SPRINGS AS AN UNCONVENTIONAL WATER SOURCE AND AN ALTERNATIVE FOR RECLAMATION OF MINING ENVIRONMENTS | | |
| | | | | | | | A.5.1 Artificial Intelligence (AI) Tools for Analysis and Decision Support under Certainties | 1096 | AI-DRIVEN IDENTIFICATION OF CYANOBACTERIA FOR ENHANCE WATER QUALITY MONITORING AND MANAGEMENT | | |
| A.5.1 Artificial Intelligence (AI) Tools for Analysis and Decision Support under Certainties | 1256 | AI ASSISTANT IN MARITIME TRAINING: A STUDY ON LLMS AND RAG APPLICATIONS | | | | | | | | | |
| A.5.5 Data-Driven Methods and Machine Learning Techniques | 1049 | QUANTIFYING THE IMPACT OF THE INDUCING FACTORS OF FLASH FLOOD ACROSS THE HENGDUAN MOUNTAINS REGION, CHINA | | | | | | | | | |
| A.5.6 Hydroinformatics and Big Data Analytics | 1040 | 4K-Camera-derived Large multimodal model-based person-related utilisation analysis of riverine environment | | | | | | | | | |
| A.6.2 Hydrological Measurements (Flow, Groundwater, Precipitation, etc.) | 603 | HYDRAULIC CHARACTERIZATION OF SEDIMENTARY AQUIFER SYSTEMS WITH DATA SCARCITY: A CASE STUDY OF THE MIDDLE MAGDALENA VALLEY, COLOMBIA. | | | | | | | | | |
| Poster Presentations | 25-Jun-2025 | Wednesday | 1:00 PM | 2:00 PM | ROOM 3 | Technical Session | A.6.4 Aquatic Ecology and Biological Surveys | 793 | Unraveling fish diversity and assembly patterns by edna metabarcoding in the yangtze river upstream nature reserve of rare and endemic fishes | | |
| | | | | | | | A.6.4 Aquatic Ecology and Biological Surveys | 1158 | How do aquatic vegetation impact aquatic environments under varying hydraulic conditions? Identifying ecological indicators for best management practices in large-scale reservoir forebays | | |
| | | | | | | | A.6.8 GIS Applications | 1028 | GIS-AIDED EVALUATIONS OF LAND-USE CHANGE AND CO2 EMISSION IN FUKUOKA, JAPAN | | |

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| Poster Presentations | 25-Jun-2025 | Wednesday | 1:00 PM | 2:00 PM | ROOM 4 | Technical Session | A.6.8 GIS Applications | 1375 | GEOSPATIAL SOLUTIONS FOR ENHANCED GROUNDWATER SECURITY: ADVANCING MANAGED AQUIFER RECHARGE IN A CHANGING ENVIRONMENT AND SOCIETY | | |
| | | | | | | | B.1.1 Coastal Protection and Management | 587 | WAVE MITIGATION IN COASTAL PROTECTION: CFD ANALYSIS OF STEPPED AND PONTOON TYPES FLOATING BREAKWATERS | | |
| | | | | | | | B.1.2 Flood and Droughts Management | 439 | APPLICATIONS OF DROUGHT INDICATORS FOR ANALYSIS OF WATER RESOURCES SCARCITY IN THE WARTA CATCHMENT IN POLAND | | |
| | | | | | | | | 1206 | Effects of bed erodibility on non-cohesive fluvial dike breaching induced by flow overtopping | | |
| | | | | | | | B.2.5 Biodiversity in Aquatic Environments | 157 | CHANGES IN FISH COMMUNITIES IN NEWLY CONSTRUCTED LENTIC WATER AREAS CONNECTED TO THE YODO RIVER FOR RESTORATION | | |
| | | | | | | | | 828 | HYDRODYNAMICS ALTERS THE DIVERSITY, STRUCTURE AND ASSEMBLY PROCESS OF MACROINVERTEBRATES IN HIGH-ALTITUDE ALPINE RIVER NETWORKS | | |
| CLOSING | 27-Jun-2025 | Friday | 12:30 PM | 1:00 PM | ROOM 1 | CLOSING | | | | | |