



# 10th International Conference on Flood Management (ICFM10)

Adapting to Global Change: Innovative Approaches to Flood Management and Resilience  
May 20-22, 2026, London, Ontario, Canada





**Hosts:** Western University Faculty of Engineering

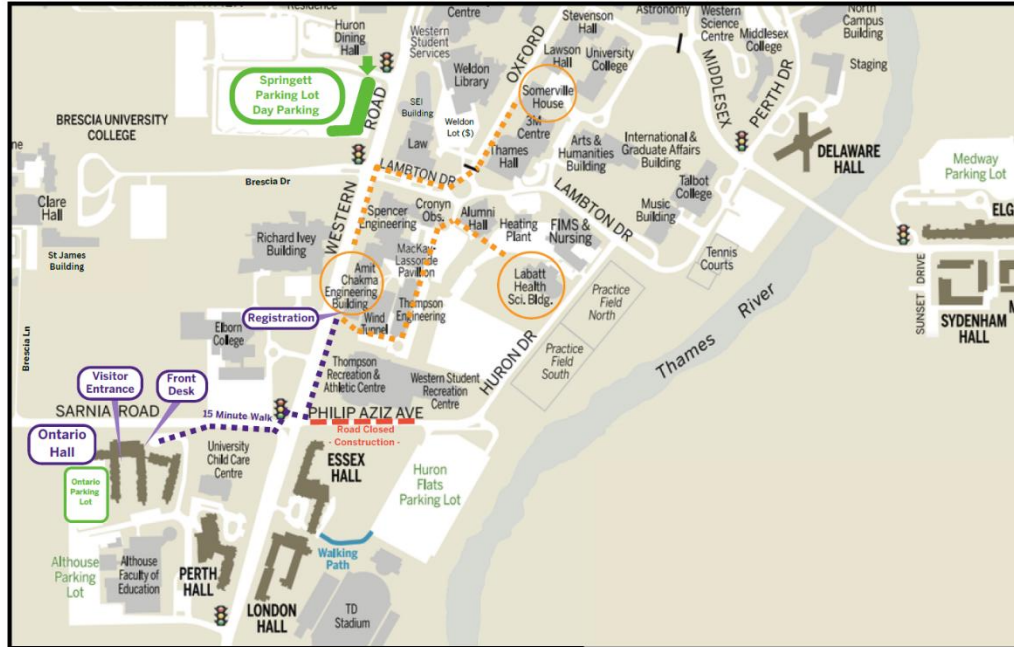
Institute for Catastrophic Loss Reduction



**Partners:** Public Safety Canada Natural Resources Canada



# Conference Map



## Legend

### Ontario Hall Residence

- On Campus Accommodations



### Amit Chakma Engineering Building (ACEB)

- Registration
- Opening Reception
- Special Sessions | Parallel Sessions



### Labatt Health Sci. Building (HSB)

- Plenary Sessions



### Somerville House (SH)

- The Great Hall Banquet



Time	08:00-08:30	08:30-09:00	09:00-09:30	09:30-10:00	10:00-10:30	10:30-11:00	11:00-11:30	11:30-12:00	12:00-12:30	12:30-13:00	13:00-13:30	13:30-14:00	14:00-14:30	14:30-15:00	15:00-15:30	15:30-16:00	16:00-16:30	16:30-17:00	17:00-17:30	17:30-18:00
May 19																				Registration – ACEB atrium
																				ICFM Ad Hoc Committee ACEB4405
	Committee of the association of state floodplain managers meeting ACEB3445																			
May 20	Registration ACEB atrium	Conference opening Room HSB40	Break HSB atrium	PLS1 Room HSB40		Lunch ACEB atrium		SS1 room ACEB1450	Break ACEB atrium	SS2 room ACEB1450	Welcome reception ACEB atrium									
								SS7 room ACEB1410		SS8 room ACEB1410										
								PS41 room ACEB1420		PS45 room ACEB1420										
								PS42 room ACEB2345		PS417 room ACEB2345										
								PS43 room ACEB2440		PS420 room ACEB2440										
May 21			SS3 room ACEB1450	Break ACEB atrium	PS31 room ACEB1450	Lunch ACEB atrium		SS4 room ACEB1450	Break ACEB atrium	SS5 room ACEB1450										
			SS9 room ACEB1410		PS32 room ACEB1410			SS10 room ACEB1410		SS11 room ACEB1410										
			PS47 room ACEB1420		PS37 room ACEB1420			PS410A room CEB1420		PS413A room CEB1420										
			PS48 room ACEB2345		PS34 room ACEB2345			PS411 room ACEB2345		PS414 room ACEB2345										
			PS49 room ACEB2440		PS35 room ACEB2440			PS412 room ACEB2440		PS415 room ACEB2440										
May 22			SS6 room ACEB1450	Break ACEB atrium	PS33 room ACEB1450	Lunch ACEB atrium		PS419 room ACEB1450	Break HSB atrium	Conference closing PLS2 Room HSB40	Conference banquet Somerville house - Great Hall (16:30-22:00)									
			PS416 room ACEB1410		PS38 room ACEB1410			PS423 room ACEB1410												
			PS46 room ACEB1420		PS39 room ACEB1420			PS421 room ACEB1420												
			PS418 room ACEB2345					PS422 room ACEB2345												
May 23		Field trip "Flood Management along the Thames River"							FIDS meeting Place TBD											
May 24	Optional excursion - Niagara																			

PLS – plenary session SS – special session PS – parallel session Panel sessions

**May 20, 2026**

**9:00 – 10:00 Conference opening: Room HSB40**

Welcome – Slobodan P. Simonovic, Chairperson, ICFM Ad Hoc Committee

Welcome – Kenneth Coley, Dean of Engineering, Western University

Welcome – Paul Kovacs, Executive Director, Institute for Catastrophic Loss Reduction

**“ISFD1 – ICFM10: A global platform evolving with flood risk and resilience challenges”, Prof. Slobodan P. Simonovic**

*Break (HSB atrium)*

**10:30 – 12:00 Plenary session 1: “Flood Management Across Scales: From Global Challenges to Local Action”, high-level panel (moderator Nigel Wright)**

Toshio Koike, Executive Director, International Centre for Water Hazard and Risk Management under the auspices of UNESCO (ICHARM), Public Works Research Institute (PWRI), Tsukuba, Japan.

Gordon McBean, Professor, Western University, former Assistant Deputy Minister, Environment Canada, London, Canada.

Angela Coleman, LL.B., B.A., General Manager: Conservation Ontario, Toronto, Canada.

*Lunch (ACEB atrium)*

**13:00 - 14:30 Parallel sessions**

**SS1: Targeted Flood Hazard, Flood Risk, and Financial Risk Analysis Using Global Flood Hazard Models**

Moderator: Robin Burke, Public Safety Canada – Room ACEB1450

**SS7: Innovations and Case studies in Canadian Flood Mapping**

Moderator: Robert Chlimsky, Ontario Branch – Canadian Water Resources Association – Room ACEB1410

**PS41: Global change and emerging flood risks (a) - Chairperson Gordon McBean, Room ACEB1420**

*Rajesh R. Shrestha, Alex J. Cannon, Carter Conboy*

*“Historical attribution and future projections of extreme flooding in the transboundary Saint John River Basin”*

*Michael Landry, Sarah Percival, Joshua Griffiths, Nicholas Smith*

*“Reframing resilience to guide indicator identification for index-based coastal flood resilience assessments within the UK’s nuclear decommissioning sites”*

*M Retallick, M Babister, N Dunning, H Babister and B Jamali*

*“Determining climate change impacts across Australia”*

*Niels M. Welsch, Jord J. Warmink1, Suzanne J.M.H. Hulscher and Denie C.M. Augustijn*

*“Finding Vulnerabilities to High Water Levels and Their Drivers in an Interconnected River Delta Under Climate Change”*

**PS42: Global change and emerging flood risks (b) - Chairperson Cheng Zhang, Room ACEB2345**

*Donald H. Burn and Paul H. Whitfield*

“Shifting Streamflow Regimes and Unusual Flood Events have an Impact on Flood Frequency Analysis for Cold Regions Watersheds”

*Reza Rezvani, Tamsin Lyle, Nikoletta Stamatatou, and Yinlue Wang*

“Exploring Hydrologic Extremes in the Nicola River Watershed: Weaving Science and Traditional Knowledge Together”

*Astrid Labrujere, Saskia van Gool, Jantine Hoekstra, Meinte Blaas and Quirijn Lodder*

“The Impact and Outlook of Extreme Sea Level Rise on Flood Protection and Freshwater Systems in the Netherlands”

*Gamze Koç and Changxing Lan*

“Bridging Climate Information and Stakeholder Decisions: A Co-Design Approach for Regional Climate Change Adaptation”

**PS43: Flood hazard and risk mapping across spatial scales (a) – Chairperson Tamsin Lyle , Room ACEB2440**

*Maria Clara Fava et al*

“Integrated Methodologies for Flood Susceptibility Mapping and Urban Flood Prediction”

*Marcos Roberto Benso et al*

“Comparative Analysis of DEM Products for Flood Susceptibility Mapping in Urban Areas using Machine Learning”

*Ladislav Palán et al*

“Next Generation Flood Model for Canada: A Comprehensive Approach by Impact Forecasting”

*Sophia Eugeni, Vanessa McMaster, and Dale Muir*

“Accounting for Reasonably Plausible Flood Conditions, such as Bridge Obstruction, in Floodplain Mapping”

*Break (ACEB atrium)*

**15:00 – 16:30 Parallel sessions**

**SS2: Data-Driven Hydrological Monitoring and Modelling for Flood Forecasting**

Moderator: Angela Corina, World Meteorological Organization – Room ACEB1450

**SS8: Success and Challenges From the Flood Hazard Identification and Mapping Program (FHIMP) (panel session)**

Moderator: Brian Perry, Natural Resources Canada – Room 1410

**PS45: Flood hazard and risk mapping across spatial scales (b) – Chairperson Lanhai Li, Room ACEB1420**

*Md Makamum Mahmood et al*

“Flood Mapping for Small Creeks on the Canadian Prairies: Challenges and Strategies - Stettler Flood Mapping Case Study”

*Dale Muir, Ryan McQueen, and Vanessa McMaster*

“Inclusion of Geomorphic Hazards in Floodplain Mapping and Land Use Regulation”

*Wilfred Ho, Melanie Randolph, Elizabeth Speller, Namrata Shrestha*

“Next generation watershed and subwatershed planning to inform flood mitigation in the context of urbanization and climate change”

*Badri Bhakta Shrestha, Mohamed Rasmy, Katsunori Tamakawa, Sauhardra Joshi and Daisuke Kuribayashi*

“Approach for Assessing Land-Cover Changes using Satellite Imagery and their Impact on Risk of Flooding”

**PS417: Flood impacts on infrastructure and critical services including cascading failures (a) - Chairperson Donald Burn, Room ACEB2345**

*Quentin Chiotti*

“Navigating Tracks of Resilience: Integrating Climate Change Flood Risks into Rail Transit Infrastructure Design, Asset Management, and Operations & Maintenance”

*Leon S. Besseling, Anouk Bomers, Jord J. Warmink, Suzanne J.M.H. Hulscher*

“Surrogate Modelling for Uncertainty Analysis of Dike Breach Floods”

*Yared A. Abebe, M. Pregnolato and Sebastiaan N. Jonkman*

“Healthcare Facilities And Flood Risk Management: The July 2021 Flood In The Netherlands, Germany And Belgium”

*Xiaolei Zhang et al*

“Flash Flood Disaster Risk Simulation Technology Based on Classified Recursive Feature Elimination-Random Forest Optimization Algorithm”

**PS420: Flood risk governance, policy frameworks, and institutional coordination (a) - Chairperson Angela Peck, Room ACEB2440**

*Kuniyoshi Takeuchi*

“Flood-Related Land Use Control in Japan: Reverse Zoning, Location Optimization Plan and Basin Flood Control”

*Baba Serges Zango, Shawn Tse, Christie Cho*

“Flood Hazard Identification and Mapping Program (FHIMP): Research Update”

*Andrew David Tabas, Ian Pattison, Leo Peskett, and Lindsay Beevers*

“Gaming Good Governance: Co-Design of a Serious Game about Overcoming the Barriers of Natural Flood Management”

*Rita Lucero and Nick Lorrain*

“When Creeks Spill into Cities: Flood Forecasting and Warning, and Interagency Coordination”

**16:30 – 18:00 Welcome reception – ACEB atrium**

**May 21, 2026**

**9:00 – 10:30 Parallel sessions**

**SS3: From Impact-based Forecast to Action: Hydrological and Warning Services for Protecting Lives and Livelihoods**

Moderator: Hwirin Kim, World Meteorological Organization – Room ACEB1450

**SS9: The Role of Remote Sensing and AI in Flood Mapping**

Moderator: Brian Perry, Natural Resources Canada – Room ACEB1410

**PS47: Flood hazard and risk mapping across spatial scales (d) – Chairperson Xiaolei Zhang, Room ACEB1420**

*Leonard Chek Yuet Wong, Wah Sang Eddy Chiang, Wing Sze Winsy Choi, and Chi Hung Philip Tsang*

“Mosaic Model Map (M<sup>3</sup>): Hong Kong’s Cutting-edge Solution for Real-time City-wide Flood Risk Visualisation”

*Sarah Lindenlaub, Guilherme Samprogna Mohor, Benjamin Creutzfeldt, Hanna M. Floto, Annegret H. Thielen*

“Urban Flood Risk Management: Mapping Potential Impacts of Pluvial Flooding on Elements at Risk”

*Frank den Heijer*

“Comprehensive Risk-Perspective for Flood Defence System Management”

*Maria Pinto, Warick Honour and Yasitha Bopetta*

“Flood Risk Management In The Upper Nepean River Catchment, Australia”

**PS 48: Advanced flood modelling (a) – Chairperson Kuniyoshi Takeuchi , Room ACEB2345**

*Marina Batalini de Macedo et al*

“Flash flood assessment for economic losses in an urban basin of the São Paulo metropolitan region – Brazil”

*Holger Maiwald and Jochen Schwarz*

“Damage Prognosis of Dynamic Flood Events Using a System of Harmonized Damage Grades and Considering Uncertainties”

*Mohamed Rasmy et al*

“Assessment of water and food security nexus under climate change using a seamless modelling framework”

*Bill Trenouth, AECOM Canada ULC*

TBD

**PS49: Advanced flood modelling (b) – Chairperson Edward McBean, Room ACEB2440**

*Joe Forbis, Cary Talbot, Cuong Ly*

“Forecast-Informed Reservoir Operations (FIRO): A Roadmap of Lessons Learned for Implementation”

*Mehrdad Jafarzadeh Khoshroudi, Mohammad Reza Najafi, and Kelly Anne Ogden*

“Hydrodynamic Modelling of Lake Ontario for Flood Resilience”

*Minglong Fei, Baoyi Wei, Yi Zhang and Xiaoxin Zhang*

“Comparing Engineering and Resilience Strategies for Urban Flood Control: A Case Study of the "23-7" Flood in Mentougou, Beijing”

*Milan Stojković et al*

“Data-Centric ML-based flood forecasting system of the Drina-Lim hydropower system (south-east Europe)”

*Break (ACEB atrium)*

**11:00 – 12:00 Parallel sessions**

**PS31: Global change and emerging flood risks (c) - Chairperson Maria Fava, Room ACEB1450**

*Gordon McBean*

“Climate Change is Accelerating the Impacts of Extreme Weather Events – Flooding Actions are Needed Locally to Globally”

*Akintunde I. Makinde and Babatunde J. Abiodun*

“Simulating the Influence of the Agulhas Current on Cut-Off Low-Induced Flooding in KwaZulu-Natal, South Africa”

*Jiajin Feng, M. Reza Najafi, and Melika Rahimi Movaghar*

“Analysis of Hydroclimatic Extremes in the Great Lakes Basin Under Climate Change Using WRF-Hydro”

**PS32: Urban flood mitigation and stormwater management strategies (a) - Chairperson Lisa Bowering Taylor, Room ACEB1410**

*Junguo Liu*

“Flood simulation and stormwater resource utilization”

*Thea M.D. Giliomee, Ione Loots and Marco van Dijk*

“Reducing flood risk by improving the hydraulic capacity of box culverts through inlet modifications”

*Mohammad Hajiseyedjavadi<sup>1</sup>, Khashayar Saniei, Bill Thompson, Kenneth Cheney*

“Identifying and Prioritizing Mitigation Options to Address Climate-Related Flooding in an Established Urban Area: A Case Study of Sophia Creek Subcatchment, Barrie, Ontario”

**PS37: Bridging science, policy, and practice through transdisciplinary approaches - Chairperson Joseph Forbis, Room ACEB1420**

*Clemens Neuhold, Martin Wenk, Helena Mühlmann, Elena Leutgöb, Marion Wallner*

“River development and risk management concept – a tool to enhance coordination on catchment scale in Austria”

*Cary A. Talbot, F. Martin Ralph and Cuong Ly*

“Research to Implement Policy and Operations Change: Forecast Informed Reservoir Operations within the US Army Corps of Engineers”

*Ellen Tromp, Niels Hoogendoorn and Eric van der Meij*

“Fast-tracking the Collaboration and Comprehension of Civil Engineering Structures within the Dutch Flood Protection Programme”

**PS34: Community, infrastructure and system resilience to flooding (b) - Chairperson Yongbo Liu, Room ACEB2345**

*Maria Pregnolato*

“Flood-Resilience Priorities for Infrastructure Through Multi-Stakeholder Causal Mapping”

*Nathan Valsangkar and Ben Humphreys*

“Estimating Flood Damages in Data-Sparse Regions: Challenges, Uncertainties, and Strategies for Efficient Field Data Collection”

*Tatiana Ferrari and Heiko Apel and Kaija J. Andersen and Martin Drews*

“A Decade after Bodil: Assessing Coastal Flood Adaptation in Roskilde, Denmark”

**PS35: Adaptation strategies under increasing flood risk - Chairperson Tang Qihong, Room ACEB2440**

*K. W. Yuen et al*

“Flood Management Strategies in Hong Kong: Addressing Climate Change through Progressive Adaptive Approach combining with Adaptation, Resilience, and Management (ARM)”

*Zhengyao Fu*

“Resilient City-Oriented Flood Control and Waterlogging Prevention Planning for the Beijing Municipal Administrative Center”

*Örs Antal and Anita Mária Süveggyártó*

“Flood protection based on the concept of differentiated design levels in Hungary”

*Lunch (ACEB atrium)*

**13:00 – 14:30 Parallel sessions**

**SS4: Emerging Technologies in Flood Hazard and Flood Risk Estimation (panel session)**

Moderator: Robin Burke, Public Safety Canada – Room ACEB1450

**SS10: Flood Insurance in Canada: A Policy Perspective (panel session)**

Moderator: Mathieu Boudreault, Université Québec à Montréal – Room ACEB1410

**PS410: Advanced flood modelling (c) – Chairperson Junguo Liu, Room ACEB1420**

*Abdulaziz Mohamed Abdullahi*

“Enhancing Flood Management and Resilience in Somalia’s Riverine Zones”

*Luka Vinokić et al*

“Uncertainties in ML-based Daily Reservoir Inflow Forecasting: A Case Study on Drina-Lim Hydropower Plants”

*Sien Liu et al*

“Digital Twin for Urban Flood Resilience: Integrating Four-Pre Modules into Digital Infrastructure”

*Farrukh A. Chishtie, Rana U. Ali, Abdolreza Bahremand, Mujtaba Hassan, John J. Clague*

“PHLASH: A Physics-Informed Hybrid Learning Framework for Enhanced Short-Duration Flash Flood Forecasting”

**PS411: Advanced flood modelling (d) - Chairperson Marina Batalini, Room ACEB2345**

*Elisabeth Bowering, Sarah Irwin, Allyson Bingeman, and Glenn Cunningham*

“Hydrologic Modelling to Investigate Flood Mitigation Measures in the Muskoka River Watershed using SWAT+”

*Adya Aiswarya Dash and Edward McBean*

“Prophet-driven AI Modeling for Flood Prediction in the Bow River, Canada”

*Yawei Ning et al*

“An enhanced DP-POA algorithm for reservoir flood control optimization operation”

*Yuxiao Liu, Cheng Zhang*

“A Deep Learning-Enhanced Web Crawling System for Global Water-related Disaster Dataset “

**PS412: Use of emerging data sources - Chairperson Dan Sandink, Room 2440**

*Podt, M., Bron, C., den Heijer1, F., Rijke, J.S.*

“Building large-scale flood defence datasets using open data”

*Anaí Floriano Vasconcelos et al*

“Urban Flood Prediction Using Products based on Weather Radar Data”

*Jaqueline Carolino Santos et al*

“Integrating Hydraulic Modeling and Citizen Science for Past Flood Reconstruction in the Upper Paranapanema River Basin”

*Heather McGrath, Karen E Dunbar and Usman Khan*

“Comparative Analysis of Feature Selection Methods in ML-based Flood Susceptibility Mapping”

*Break (ACEB atrium)*

**15:00 – 16:30 Parallel sessions**

**SS5: Assessment and Mitigation of Urban Flooding Using Advanced Modelling Tools**

Moderator: Soheil Kashi, GHD – Room ACEB1450

**SS11: Ontario Conservation Authorities: Watershed Management - A Proven Solution to Building Flood Resilience (panel session)**

Moderator: Jo-Anne Rzakki, Conservation Ontario – Room ACEB1410

**PS413: Flood forecasting and early warning systems, including ungauged basins (a) – Chairperson Nirupama Agrawal, Room ACEB1420**

*Lanhai Li, Farong Huang, Chenwei Tu*

“Response of spring flood to snow cover in Kaidu River Basin, China”

*Lin Wenqing et al*

“Four-pre” application for Flood Control under Matrix Management in Modern Reservoir—A Case Study in Hengshan Reservoir”

*Tetsuya Takeshita, Hisashi Kuronuma, Yuki Hamada, and Yoshimasa Morooka*

“Research on Improving the Accuracy of Flood Prediction Technology Using Satellites, Drones and Digital Testbeds”

*Conrad Zorn and Ryan Paulik*

“Quantifying Flood Risks in New Zealand: A National Scale Assessment”

**PS414: Flood forecasting and early warning systems, including ungauged basins (b) - Chairperson Ali Chavoshian, Room ACEB2345**

*Chang Chen and Dawei Zhang*

“Seq2Seq-DDPM: A novel interval flood forecasting model based on Sequence-to-Sequence Denoising Diffusion Probabilistic Model”

*Elissa Yeates et al*

“Regionally Adaptive Assessment of Dams for Forecast-Informed Reservoir Operations Potential”

*Zhihui Liu, Shuguang Liu, Guihui Zhong*

“Non-stationary Hydrological Frequency and Uncertainty Analysis of Extreme Tide Levels in the Huangpu River under Changing Environments”

*Vanessa McMaster, Edwin Wang and Dale Muir*

“Spatial Representation of Wave Run-up in Regional Shoreline Floodplain Mapping”

**PS415: Uncertainty, causality, and confidence in flood risk information – Chairperson Wang Tao , Room ACEB2440**

*Jennifer Spinney and Nirupama Agrawal*

“Hazard Risk Communication: A Canadian Case Study”

*Shawn Tse and Serges Zango*

“Flood hazard identification and mapping program (FHIMP): Technical Bulletins and Uncertainty in Flood Mapping”

*Mark Babister, Harrison Babister, Behzad Jamali, Nathan Dunning, and Monique Retallick*

“A novel and efficient approach to estimate lifetime exposure risk with changing flood probabilities”

*Jack W. Warden, M. Reza Najafi and Hamidreza Shirkhani*

“Uncertainty in Climate Projection Indicators for Flood Risk Assessment of Dam Infrastructure”

**May 22, 2026**

**9:00 – 10:30 Parallel sessions**

**SS6: Estimating Impacts of Changing Precipitation Extremes on Urban Flood Hazard and Risk**

Moderator: Robin Burke, Public Safety Canada - – Room ACEB450

**PS416: Drivers of urban flooding and interactions with the urban water cycle - Chairperson Ramesh Tripathi, Room ACEB1410**

*Zhang Cheng and Wang Kaifeng*

“The Resilience Assessment Study Based on Urban Flooding ModelA Case Study of Suqian City”

*Philip Hull*

“Cost Effective Hydraulic Modelling to enable Resilient Urban Regeneration within Reservoir Inundation Areas”

*André L. Teixeira, João Victor S. Maia and Nicolly de Lima Barbosa*

“A Data-Driven SPC Framework for Flood Prevention Using SNIRH Time Series in R and Python”

*Jie Mu et al*

“Flood defense technology of “July 23” catastrophic floods in the Haihe River based on hydrodynamic model and remote sensing data”

**PS46: Flood hazard and risk mapping across spatial scales (c) – Chairperson Benyou Jia, Room ACEB1420**

*Mohammad Shoraka, Raulina Wojtkiewicz, Karthik Ramanathan, and Ahmed Abdelhady*

“Enhancing Flood Vulnerability Assessment: Integrating Flow Velocity, Duration, and Debris Flow into a Component-Level Framework”

*Yoshua Widijatmoko, Xilin Xia, and Nigel Wright*

“Flood Hazard Forecasting With Convolutional Neural Network Based Spatio-Temporal Flood Prediction”

*Dequan Zhou and Diana Sankar*

“The Relationship Between Peak Flow and Flood Volume for Deriving Probable Maximum Flood Hydrographs in Ontario”

*Nirul Ranjan Patra, Sabirul Sk and Subhankar Karmakar*

“Mapping Flood Hazard and Resilience under Riverine Sand and Gravel Mining Conditions in a Coastal Flood Catchment: Case Study of Jagatsinghpur, India”

**PS418: Flood impacts on infrastructure and critical services including cascading failures (b) - Chairperson Rajesh Sretsha, Room ACEB2345**

*Jingjing Kong, Shuhe Lian, Chao Zhang*

“Vulnerability Analysis of China’s Integrated Transportation Network Under Flooding: A Case Study of the July 20 Heavy Rain in Zhengzhou”

*Mateo Hernández Sánchez and Eduardo Mario Mediondo*

“Fuzzy logic control implementation for flow regulation in stormwater urban reservoirs”

*Ahmed U. Abdelhady and Raulina Wojtkiewicz*

“Empirical Insights from Post-Event Coastal Flood Damage Surveys after Hurricanes Helene and Milton in Florida”

*Jingxiu Wu et al*

“Assessment of Urban Flood Risk and River Network Regulation Capacity Under Extreme Rainfall Conditions”

*Break*

**11:00 – 12:00 Parallel sessions**

**PS33: Urban flood mitigation and stormwater management strategies (b) - Chairperson Mario Mediondo, Room ACEB1450**

*Kayuri Govender, Maria Dorothea Giliomee and Ione Loots*

“Debris Retention Upstream of Culverts: Pier Structure Optimization Through Physical Modelling”

*Ralph M.J. Schielen , Saskia van Vuren and Marco Taal*

“Beyond Room for the River: Towards a Multifunctional, Climate-Robust, and Resilient Management Strategy in the Netherlands”

*R. Mark Palmer<sup>1</sup>, Trevor Boston, Steven French, and Hamid Mohebzadeh*

“Deployment of a Machine Learning Model for North America-wide Hydrometric Flow Forecasting with LiDAR-based Floodplain Mapping Capabilities”

**PS38: Role of communities, citizen science, and non-traditional actors in flood risk management - Chairperson Guo Xinlei, Room ACEB1410**

*Benyou Jia et al*

“Integrated Analysis of Flooding and Waterlogging Risks in New Urban Development: A Case Study of Jinan Start-up District, China”

*Vinay Kumar Chukka and Tirupati Boliseti*

“Sensitivity-Driven Log-Linear Modelling of Time-to-Peak for Enhanced Flood Forecasting in Heterogeneous Canadian Catchments”

*Sophie Laidlaw et al*

“Establishing Resilient Community Flood Groups to Reduce Flood Impacts in England and Wales”

**PS39: Changing flood regimes and extremes under climate change (b) – Chairperson Yuexiao Liu, Room ACEB 1420**

*Rose Cook, Nigel Wright, and Xilin Xia*

“Compound Flooding and the Role of Nature-Based Solutions in Coastal and Estuarine Systems”

*Sabirul Sk, Nirul Ranjan Patra, Subimal Ghosh, Subhankar Karmakar*

“Geomorphic Controls on Cascading Flood–Landslide Multi-Hazard Susceptibility Revealed by Machine Learning and Explainable AI in a Fragile Biodiversity Hotspot of India”

*Issa Hansen, Salvador Peña-Haro and Beat Lüthi*

“An Innovative Camera-based Flow Monitoring and Flood Early Warning System “

*Lunch break (ACEB atrium)*

**13:00 – 14:30 Parallel sessions**

**PS419: Community, infrastructure and system resilience to flooding (a) - Chairperson Nirupama A, Room ACEB1450**

*Max C.J. de Vries, Joanne Vinke-de Kruijf, Leentje Volker, and Denie C.M. Augustijn*

“Identifying boundaries that enhance system resilience in an integrated FRM project”

*De Leeuw, A.M et al*

“Flood resilient landscapes: application of a design approach for future-proof landscapes”

*Isha Dev, Sabirul Sk, Nirul Ranjan Patra and Subhankar Karmakar*

“A Flood Risk Analytics and Visualisation Platform for Socio-Economic Scenarios”

*Annemiek Roeling, Saskia van Vuren, Quirijn Lodder, Saskia van Gool and Menno van Manen*

“How to keep the Netherlands safe and liveable for future generations as sea levels rise? Current approach, a solid basis! “

**PS423: Changing flood regimes and extremes under climate change (a) – Chairperson Reza Najafi, Room ACEB 1410**

*Afshin Shaygani, Yasaman Taleghani, Mohammad Reza Najafi, Merce Casas Prat and Julien Cousineau*

“Efficient Compound Flooding Scenario Evaluation via Hydrodynamic Modelling and Coordinate Based Neural Surrogates”

*QiuHong Tang, Li He, Gang Zhao, Chi Zhang, Ximeng Xu, Jie Wang, Xiaobo Yun, Xingcai Liu and Yuanyuan Zhou*

“Improving flood monitoring and forecasting in High Mountain Asia using remote sensing of glacier lake outbursts”

*Yasaman Taleghani, Mohammad Reza Najafi, Mercè Casas-Prat, Julien Cousineau, Mohammad Fereshtehpour*

“Assessing Future Compound Coastal Flooding Along the Pacific Coast of North America Using Multi-model Projections”

*Issam Mohamed, Yasaman Masa'eli, Mohammad Reza Najafi*

“Investigating the Behavior of Hail, Wind, and Extreme Rainfall Events and Their Impact on Urban Flooding in Alberta”

**PS421: Flood risk governance, policy frameworks, and institutional coordination (b) - Chairperson Maxim Fortin, Room ACEB 1420**

*Clemens Neuhold*

“Hazard zone planning in Austria – a tool to link flood risk management and settlement development”

*Ruth Awara, Claudia Carter, Hong Xiao, and David Proverbs*

“From Statues To Systems: Evaluating Legal And Policy Coherence For Blue Green Infrastructure In England And Canada”

*Ali Chavoshian, Shinji Honda, Yuka Sasaki, Shara Astillero*

“A Comparative Review of Japan’s Framework for Developing a Comprehensive Flood Control Master Plan”

*Anicia Touraine Andersson et al*

“Enacting Cross-Border Cooperation: Insights from Regional Flood Risk Practitioners”

**PS422: Financing flood risk reduction, insurance, and risk transfer mechanisms - Chairperson Paul Kovacs, Room ACEB 2345**

*Mikio Ishiwatari, Masashi Sakamoto, and Daisuke Sasaki*

“Long-term Economic Analysis of Flood Protection Infrastructure: A River Basin Approach”

*Mikio Ishiwatari and Akiyuki Kawasaki*

“Financing Flood Protection in Archipelagic Asia: A Comparative Analysis of Indonesia, Japan, and the Philippines”

*David Casagrande, John Roper, and Paolo Bocchini*

“Resilience Bonds as a Public-Private Partnership for Managing Increasing Risks of Climate Change”

*Anna Serra-Llobet, Clemens Neuhold, Francisco Espejo-Gil, Robin Bourke*

“International approaches to flood risk management: the role of insurance, maps and regulations. Comparing the US, the EU and Canada”

*Break (HSB atrium)*

**15:00 – 16:30 Plenary session 2, Chairperson Nigel Wright, Room HSB40**

“Three flood challenges”, Lu Jin, vice-president, IWHR

“ICFM10 Declaration”, Dan Sandink, ICLR

“Welcome to ICFM11”, Cheng Zhang, Director, ICFM Permanent Secretariat

Closing remarks, Slobodan P. Simonovic, Chairperson, ICFM Ad Hoc Committee

*Conference banquet 16:30 – 22:00, Somerville House – Great Hall*

## POSTERS

1. *Erika Peklanska, Rafael Navas, Nevil Quinn, Michael Horswell, Sara-Jayne Williams, University of Bristol, UK*  
Socio-scientific synergies: transdisciplinary approaches to shaping hydro-futures with catchment communities
2. *Masatoshi DENDA ✕, Daiki YAMASHITA and Daisuke KURIBAYASHI, Water-related disaster research group, Public Works Research Institute, Japan*  
Research on social implementation of a new water-related disaster education matching between seeds of research institute and needs of local government
3. *Masatoshi DENDA ✕, Daiki YAMASHITA and Daisuke KURIBAYASHI, Water-related disaster research group, Public Works Research Institute, Japan*  
Research on water-related disasters education for secondary students using metaverse and gamification
4. *Juan Miguel Rosillo-Comino et al, GLOWATER Research Group, Universitat de les Illes Balears, Spain and other*  
Flash flood risk prevention and resilience in Mediterranean area through an integrated multi-stakeholder governance model: The LocAll4Flood project
5. *Mellinda Gabrielle Nogueira Santos, Marina Batalini de Macedo, and Daniele Feitoza Silva, , Federal University of Itajubá, Brazil*  
Flood Risk and Climate Change Management: A Review of International Literature and Brazilian Policies
6. *Thiago S. Biscaro et al, INPE – National Institute for Space Research, Cachoeira Paulista, SP, Brazil, UFSCar – Federal University of São Carlos, São Carlos, SP, Brazil*  
Multi-scale forecasting of extreme weather events for hydrological applications
7. *Stanley Cabral Cramolichi et al, Federal University of São Carlos, São Carlos, Brazil*  
Municipal management of extreme climate events: contribution to urban resilience in a medium-sized municipality
8. *Shanliang Zhang et al, Power China Huadong Engineering Corporation Limited, and College of Environmental and Resource Sciences, Zhejiang University, Hangzhou, China*  
DeepONet-Enhanced Real-Time Flood Forecasting: Bridging Operator Learning and Hydrodynamic Models
9. *Mark Babister, Monique Retallick, Allison Wong, WMAWater, Australia*  
Climate change: Too much modelling and not enough decision making
10. *Vanessa Streifeneder et al, Department of Geoinformatics – Z\_GIS, University of Salzburg, Austria and Faculty of Geographical Sciences, University of Lodz, Poland*  
From Hazard to Impact: A Vulnerability Analysis of Austrian Communities Affected by the 2024 Floods
11. *Anaïs Couasnon, Dirk Eilander, Ferdinand Diermanse, Deltares, Delft, The Netherlands*  
Comparing compound flood risk assessments methods: bridging theory and practice through guidelines and case studies
12. *Maria Pinto, Camden Council, NSW, Australia*  
Climate Change Action on flooding in Camden Local Government Area, NSW, Australia
13. *Ashlyn Cherian, Yiping Guo, Bryan Karney, Department of Civil Engineering, McMaster University, Hamilton, and Department of Civil & Mineral Engineering, University of Toronto, Toronto, ON, Canada*  
Evaluating Long-Term Persistence Across Regionally Averaged Hydroclimatic Variables
14. *Charlotte Milne, Margaret Low, Natasha Youngchief, Institute for Resources, Environment and Sustainability, and School of Community and Regional Planning, University of British Columbia, Vancouver, Canada, Governance and Natural Resources, Sumas First Nation*  
Mapping Indigenous Values to Inform Collaborative Flood Management
15. *Won Yong Ha, Anas Alsharo, Bruce MacVicar, Chul Min Yeum, University of Waterloo, Department of Civil & Environmental Engineering, Waterloo, Canada*  
Computer Vision–Based Assessment of Storm Drain Inlet Clogging for Mitigating Property-Scale Pluvial Flood Risk

16. *Baljeet Kaur, Saleh Sebti and Neelam Gupta, Credit Valley Conservation, ON, Canada*  
Hydrology of the Credit River Rural Catchments - Impacts of Land Use and Climate Change on Flood Flows
17. *Tao Wang, Xinlei Guo, Yuzhuang Chen, Jiajia Pan, China Institute of Water Resources and Hydropower Research (IWHR), Beijing, China*  
Simulation and analysis of river ice processes to mitigate ice disasters: a cases study in the Yellow River, China
18. *Xinlei Guo<sup>1</sup>, Jiajia Pan, Hui Fu, Tao Wang, State Key Laboratory of Water Cycle and Water Security, China Institute of Water Resources and Hydropower Research, Beijing, China*  
Winter Ice Regime Characteristics and Water Conveyance Capacity Improvement of Long-Distance Open Channels
19. *Heather J. Murdock, et al, University of Potsdam*  
Flood early warning and response during the July 2021 flood: cross country comparison based on household survey data
20. *Heather J. Murdock and Evalyna Bogdan, University of Posdam Germany and York University, Toronto, Canada*  
Playing our way to better flood management in Canada: Analysis of serious game design to enhance flood literacy
21. *Mingfu Guan, Wenke Song, Kaihua Guo, Department of Civil Engineering, The University of Hong Kong, Hong Kong Special Administrative Region*  
SwinFlood: A Transferable Deep Learning Model for Rapid Spatiotemporal Inundation Mapping