



Vancouver, Canada
 May 31 – June 3, 2017/ *Mai 31 – Juin 3, 2017*

Preliminary Schedule for the Hydrotechnical Specialty Conference

Update: May 29, 2017

Please note that the information in this schedule is preliminary and may be subject to change.

Day: Wednesday, May 31, 2017 Time: 09:00 – 12:00 Room: Offsite

ID	Presenter	Topic
--	Brian Hughes / Ken Christison	TECHNICAL TOUR: Northwest Hydraulic Consultants Physical Modelling Laboratory

Day: Wednesday, May 31, 2017 Time: 13:00 – 14.30 Room: Stanley Park Ballroom 3 (50U / 182T)

ID	Presenter	Topic: Flood Hazard and Mitigation	Chair: Ioan Nistor
774	Nadeer Lalji	Assessing the Benefits of Various Levels of Flood Mitigation in a Highly Developed Setting	
727	David Roche	The devil is in the details: assumptions and reality collide in urban dike breach modelling	
777	Kerry Mazurek	Development and Field Application of the RCC Jack Jetty for River Training	
701	Jacob Stolle	Debris Entrainment Dynamics in Extreme Hydrodynamic Conditions	
785	Fiona Dercole	Debris Flood Hazard Management in North Vancouver	

Day: Wednesday, May 31, 2017 Time: 13:00 – 14.30 Room: Oak 2 (18U / 56T)

ID	Presenter	Topic: Water Supply and Wastewater	Chair: Darko Joksimovic
737	Omidreza Shoghli	Developing a diurnal pattern of sewage flow at inlet nodes using limited measured nodes – A Case Study of Greater Tehran Sewer System	
771	Mohamed Elsanabary	Risk Assessment of Waste Water Projects in Egypt	
731	Naser Moosavian	Testing Evolutionary Algorithms for Optimization of Water Distribution Networks	
710	Xiuquan Wang	CCDP: GIS-Based Data Portal for Climate Change Impact Assessment	

Day: Wednesday, May 31, 2017 Time: 15:00 – 16.30 Room: Stanley Park Ballroom 3 (50U / 182T)			
ID	Presenter	Topic: Computational and Physical Modelling 1	Chair: Darren Shepherd
709	Matt Gellis	Tunnel Replacement Project: Morphodynamic Modelling of Trench Migration	
784	Ahmad Shakibaenia	Mesh-free two-phase modelling of highly-dynamic sediment transport	
767	Nikou Jalayeri	TDG Prediction using a CFD model	
753	Priscilla Williams	CFD study of the air-entrainment characteristics of a submerged hydraulic jump	
706	Amir H. Azimi	Simulation of Negatively Buoyant Fountains using Data Mining Methodology	

Day: Wednesday, May 31, 2017 Time: 15:00 – 16.30 Room: Oak 2 (18U / 56T)			
ID	Presenter	Topic: Hydrology 1	Chair: Van-Thanh-Van Nguyen
712	Karen Finney	Automatic Discretization and Parameterization of Watersheds using a Digital Elevation Model	
770	Mohamed Elsanabary	Investigation of Spatial and Temporal Seasonal Rainfall Patterns Over Sinai Peninsula	
748	Steven Weijs	Sourcing and channeling information flows for hydrological prediction	
787	Zahidul Islam	Reconstruction of Area-Capacity Curves for Alberta Lakes	

Day: Thursday, June 1, 2017 Time: 9:30 – 10:30 Room: Stanley Park Ballroom 1 (50U / 182T)			
ID	Presenter	Topic: Keynote Presentations	Chair: Brian Hughes
--	Van-Thanh-Van Nguyen	Linking Climate Change to Hydrological Impacts and Adaptation Studies: Recent Advances in Modeling of Hydrologic Processes over a Wide Range of Space and Time Scales.	
788	Dave McLean	The Importance of Fluvial Geomorphology in Hydraulic Engineering and the Contribution of Rolf Kellerhals	

Day: Thursday, June 1, 2017 Time: 11:00 – 12:00 Room: Stanley Park Ballroom 1 (50U / 182T)			
ID	Presenter	Topic: New Technologies	Chair: Masoud Asadzadeh
734	Usman Khan	Automated feature selection for fuzzy neural networks: an application for urban flood prediction	
703	Fayi Zhou	Optimizing Municipal Drainage Infrastructure Design By Implementing Environment-Based Design Methodology, A Case Study	
759	Sho Harada	Optical remote sensing technique for the generation of meandering river channel topography and sediment grain size	
738	Caterina Valeo	Implementation of bioretention as a low impact development option for stormwater management in communities: a barrier analysis	

Day: Thursday, June 1, 2017				Time: 14:00 – 15:30		Room: Stanley Park Ballroom 1 (50U / 182T)	
ID	Presenter	Topic: Computational and Physical Modelling 2	Chair: Shawn Clark				
705	Scott Baker	3D Physical Modelling of Wind and Wave Overtopping at the Billy Bishop Airport Revetment					
732	Paul Knox	Assessment of Debris Issues Impacting Design of a Flood Diversion Project in a Large Scale Physical Model					
772	Ali Habibzadeh	Harvie Passage on Bow River: Using a Physical Model to Evaluate Post-Flood Rehabilitation Options					
764	Kerry Mazurek	Experiences in Jet Erodibility Testing of Cohesive Soils					
721	Jose Vasquez	Modelling the Generation and Propagation of Landslide-Generated Waves					

Day: Thursday, June 1, 2017				Time: 16:00 – 17:30		Room: Stanley Park Ballroom 1 (50U / 182T)	
ID	Presenter	Topic: Urban Hydrology and Hydraulics	Chair: Gilles Rivard				
733	Jianxun He	Modeling of hydraulic and water quality performance of bioretention cells					
739	Caterina Valeo	Hybrid Absorbable Landscapes: Treatment trains for urban stormwater management – monitoring, modelling, design and implementation					
745	Truong-Huy Nguyen	Statistical Modeling of Extreme Rainfall Processes (SMExRain): A Decision Support Tool for Constructing Intensity-Duration-Frequency Relations for Urban Water Infrastructure Design					
776	Harry Edmar Schulz	Water Oscillations in Vertical Tubes for Application to Drainage Systems					
756	Darko Joksimovic	A study of factors influencing the sediment accumulation rates in stormwater management ponds					

Day: Friday, June 2, 2017				Time: 9:00 – 10:30		Room: Stanley Park Ballroom 2 (50U / 182T)	
ID	Presenter	Topic: Hydrology 2	Chair: Zahidul Islam				
740	Rob Millar	SCS Storm Type Selection for Estimating Design Flows in Canada					
718	Philippe Tremblay	On an Innovative Approach of LID Applications - Québec City Jean Lesage International Airport Case Study					
757	Kerry Mazurek	Modelling Streamflow and Sediment and Nutrient Export in Pothole-Dominated, Cold-Climate Prairie Watersheds using the Soil and Water Assessment Tool (SWAT)					
783	Faheem Sadeque	Local Inflow Calculation for a Cascade Reservoir					
--	Melina Scholefield	Integrated Rainwater Management, Urban Resilience and Vancouver's Green Infrastructure Mandate					

Day: Friday, June 2, 2017				Time: 9:00 – 10:30		Room: Coquitlam (19U / 28T)	
ID	Presenter	Topic: Ice Engineering	Chair: Rob Millar				
717	Ali Oveysi	2DH Lagrangian discrete parcel numerical modelling of ice dynamics in Thames River, ON					
744	Andrew Cornett	Modelling Ice Dynamics in the Upper Saguenay Fjord					
752	Saber Ansari	Quantitative assessment of river ice generation using shore-based photogrammetric techniques					

765	Soheil Ghareh Aghaji Zare	Simulation of ice and sediment processes in an alluvial stream.
778	Shawn Clark	A Comprehensive River Ice Jam Research Program

Day: Friday, June 2, 2017 Time: 11:00 – 12:00 Room: Stanley Park Ballroom 2 (50U / 182T)		
ID	Presenter	Topic: Frequency Analysis and Climate Change Chair: Kerry Mazurek
747	Van-Thanh-Van Nguyen	A Stochastic Approach to Downscaling of Multisite Daily Temperature Series in the Context of Climate Change
773	Shabnam Mostofi Zadeh	Examination of Pooled Flood Frequency Analysis for Canadian Catchments
725	Bertrand Massé	Frequency analysis and plotting positions
742	Colin Brennan	Effects of Climate Change on Stream Erosion in a Small Watershed

Day: Friday, June 2, 2017 Time: 11:00 – 12:00 Room: Coquitlam (19U / 28T)		
ID	Presenter	Topic: Eco Hydraulics and Fisheries Engineering Chair: Mathew Langford
728	Graeme Billay	Field observations and analysis of total dissolved gas generation on the lower Columbia River downstream of the Hugh L. Keenleyside dam
729	Abul Basar Baki	Numerical Modelling of Rock-weir Type Nature-like Fishpasses
735	Rajib Kamal	Field Study on the Decay of Supersaturated Total Dissolved Gases in the Lower Columbia River downstream of Hugh L. Keenleyside Dam
750	Violeta Martin	Deterministic lake and stream temperature modelling: maintaining optimal water temperatures for kokanee and rainbow trout through informed design
719	Étienne Cormier	Design and construction of Atlantic Salmon fish ladders in the Côte-Nord Region (QC) for the crossing of natural waterfalls

Day: Friday, June 2, 2017 Time: 14:00 – 15:30 Room: Stanley Park Ballroom 2 (50U / 182T)		
ID	Presenter	Topic: River, Coastal and Estuary Engineering 1 Chair: Matt Gellis
722	Andrew Nelson	Effect of Longterm Navigation Channel Lowering on Scour and Degradation Processes on Lower Fraser River
726	Bertrand Massé	A simple river meandering model
743	Sanaz Mehrzad	Modelling supercritical flows-induced scour around structures
708	Gaven Tang	Developing Debris-Flood Mitigation Concepts to Address Complex Flooding in Mountain Communities Located on Alluvial Fans
779	Navid Kimiaghalam	Laboratory and field measurements of turbulence using an Acoustic Doppler Current Profiler

Day: Friday, June 2, 2017			Time: 16:00 – 17:30	Room: Stanley Park Ballroom 2 (50U / 182T)
ID	Presenter	Topic: River, Coastal and Estuary Engineering 2		Chair: Monica Mannerstrom
704	Philippe April LeQuéré	Field Investigation and Numerical Modeling of the Flow Hydrodynamics around the Bequia Island Coastline in Saint-Vincent and the Grenadines		
707	Sundar Premasiri	Sediment Transport and Shoreline Changes due to Dredging of Shipping Channels in Bermuda		
746	Andrew Cornett	Modelling Stratified Flows in the Saguenay Fjord with Telemac-3D		
781	Behnaz Ghodoosipour	Experimental and numerical modeling of hydrodynamic loading on pipelines due to extreme hydrodynamic conditions		
775	Jose Vasquez	Scour in Complex Bridge Piers: Fraser and Padma Rivers		

Day: Saturday, June 3, 2017			Time: 9:00 – 12:00	Room: Seymour (36U / 115T)
ID	Presenter	Topic: Special Session		
--	Van-Thanh-Van Nguyen Gilles Rivard	Stormwater Management and Design Practices in the Context of Environmental and Climate Changes : New Developments and Trends		