



18:00

Ice Breaker Reception
Kwanlin Dün Cultural Centre



Monday, July 10th	
7:30	Continental breakfast
8:30	Opening remarks
Session 1: Ice Mechanics and thermal properties	
Session Chair: Shawn Clark	
8:40	<i>*Laboratory measurements of frazil ice properties in saline water</i> C. Schneck, V. McFarlane, M. Loewen
9:00	<i>*Two-way fluid-structure interaction model of waves propagating in a channel with an ice cover,</i> N. Liu, J. Kells, K-E Lindenschmidt
9:20	Measured Dynamic Response of Ice Roads to Moving Trucks G. Van Der Vinne, M. Lanteigne, J. Snyder
9:40	Numerical modelling of ice processes in a stormwater pond in the City of Edmonton, AB, Canada, A. Oveysi, Y. She, M. Loewen
10:00	Coffee Break
Session 2: Anchor ice related research	
Session Chair: Nadia Kovachis	
10:20	<i>*Observations of Anchor Ice Formation and Release at Clark Lake/Split Lake</i> C. Nguyen, K. Dow, J. Malenchak, M. Morris, and J. Westmacott
10:40	<i>*Predicting Surface Ice Concentration using Machine Learning</i> H. Kalke, M. Loewen
11:00	<i>*Anchor ice effects on the hyporheic environment in a hydropeaking stream</i> J. Nafziger, T. Chung, Y. She
11:20	3D side scan sonar Imaging of in-situ anchor ice in the Peace River J. Evans, M. Jasek
11:40	Evaluating a Distributed Temperature Sensing System for Anchor-Ice Studies E. Kempema, R. Ettema
Lunch (12:00 - 13:20)	
Session 3: Flood risk along small rivers	
Session Chair: Yves Gauthier	
13:20	Ice-Related Floods and Flood Delineation along Streams and Small Rivers B. Turcotte, K. Alfredsen, S. Beltaos, B.C. Burrell
13:40	Mitigation of Freeze-up Related Flooding on a Small Regulated River in Central Yukon, D. Morissette, F. Pearson, D. Andres, R. Gee, M. O'Connor
14:00	Ice-Related, Urban Winter Flooding of Flat Creek, Jackson, Wyoming E. Kempema, B. Remlinger, S.F. Daly, R. Ettema
14:20	Flooding Caused by Freezeup on Ship Creek, AK J.S. Rocks, S.F. Daly, M. Reilly-Collette
14:40	Coffee Break
Posters (15:00 - 15:40)	
Session 4: Flood risk and modelling	
Session Chair: Karen Dow	
15:40	<i>*River Ice Hydraulic Modeling of the Slave River Delta</i> F. Zhang, K.-E. Lindenschmidt
16:00	<i>*Exploring flow operation schemes for sustainable ice-jam flood management along the Peace River in western Canada,</i> P. Rokaya, A. Das, H. Wheeler, K.-E. Lindenschmidt
16:20	Flood mapping of river ice breakup jams in River Kyrönjoki delta J. Aaltonen, M. Huokuna
16:40	Near Real-time Ice-Related Flood Hazard Assessment of the Exploits River, Newfoundland, Canada, S. Warren, T. Puestow, M. Richard, A.A. Khan, M. Khayer, K.-E. Lindenschmidt



Committee on River Ice Processes and the Environment
19th Workshop on the Hydraulics of Ice Covered Rivers: Jul. 9 - 12, 2017
Kwanlin Dün Cultural Centre, Whitehorse, Yukon, Canada

Tuesday, July 11th

7:30	Continental breakfast
8:30	Keynote Presentation: Overview of River Ice Steven F. Daly
Session 5: River ice monitoring Session Chair: Knut Alfredsen	
9:18	Monitoring ice processes: Sharing experience to improve successful research programs B. Turcotte, S. Clark, S. Beltaos, B. Morse, M. Jasek, K. Alfredsen, L. Lind
9:30	Measurements of frazil ice particles at the onset of supercooling V. McFarlane, M. Loewen
9:50	Freeze-up Jam Observations on the Dauphin River L. Wazney, S.P. Clark, A. Wall
10:10	Aerial Monitoring of Vegetation to Identify Ice-related Bank Erosion along the Middle Reach of the Susitna River, Alaska, R. Vandermause, R. Ettema
10:30	Coffee Break
Session 6: Breakup and ice jams observations and modelling Session Chair: Mike Morris	
10:50	Using dendrochronology to identify historic ice jams T.A. Dahl, S.A. Gibson, J.B. Webber
11:10	Self-sustaining waves resulting from dynamic storage release in ice-covered channels S. Beltaos
11:30	Peace River 2014 Break-up Sequence that led to the Ice Jam Flooding of the Peace-Athabasca Delta, M. Jasek
11:50	Modelling Ice Jam Formation in the Hay River Delta during 2009 Breakup A. Oveisy, Y. She
Box lunch to go (12:10 -)	
Whitehorse Rapids Generating Facility	
Wolf Creek Research Basin	
Fish Lake hike	



Wednesday, July 12th

7:30	Continental breakfast
Session 7: Climate impacts on river ice processes Session Chair: Spyros Beltaos	
8:30	Impacts of Climate Warming on River Ice Break-up and Snowmelt Freshet Processes on the Porcupine River in Northern Yukon, J.R. Janowicz
8:50	*Assessing the impacts of climate change on ice jams along the Athabasca River at Fort McMurray, Alberta, Canada, A. Das, P. Rokaya, K.-E. Lindenschmidt
9:10	Evolution of Landfast Ice Coverage in James Bay W. Taha, A. Cueto-Bergner, M. Levasseur, A. Tremblay
9:30	Climate and Ice Impacts on Great Slave Lake Levels and Flows in the Mackenzie River, Northwest Territories, R. Andrishak, G. Van Der Vinne
9:50	Coffee Break
Session 8: Flow regulation and flood mitigation Session Chair: Joe Groeneveld	
10:10	Ice in Regulated Rivers and Reservoirs M. Huokuna, M. Morris, S. Beltaos, B.C. Burrell
10:30	Incorporating ice effects in environmental flow indices K. Alfredsen
10:50	Modelling probabilities of ice jam flooding from artificial breakup of the Athabasca River ice cover at Fort McMurray, K-E. Lindenschmidt
11:10	Ice Boom Design Challenges in a Very Large, High-Latitude, North-Flowing River R. Abdelnour, E. Abdelnour, E. Robert, J. Malenchak
11:30	Groundwater Dewatering Mitigation System for Freeze-up Ice Jams at the Town of Peace River, Alberta, M. Jasek, S. Alloisio, B. Robinson
Lunch (11:50 - 13:30)	
Session 9: Dam construction and rehabilitation Session Chair: Robyn Andrishak	
13:30	Numerical Model Studies of Ice Conditions During the Design and Construction of the Keeyask Generating Station, J. Groeneveld, J. Malenchak, M. Morris
13:50	Ice Mitigation Measures Used During the Construction of the Keeyask Generating Station after the Failure of the Ice Boom, M. Morris, J. Malenchak
14:10	Modelling the Impacts of Dam Rehabilitation on River Ice Jam: A Case Study on the Matane River, QC, Canada, S. Nolin, P. Pelletier, F. Groux
14:30	Coffee Break
Session 10: River ice processes forecasting Session Chair: Karl-Erich Lindenschmidt	
14:50	Alaska Pacific River Forecast Center Operations S. Lindsey, C. Johnson
15:10	The River Ice Automated Classifier Tool (RIACT), T. Puestow, A. Cuff, M. Richard, S. Tolszczuk-Leclerc, J.-S. Proulx-Bourque, A. Deschamps, J. van der Sanden, S. Warren
15:30	Near Real-Time Monitoring of Ice Break-up in the Far North of Ontario Using RADARSAT-2 in Support of Provincial Flood Forecasting and Warning, A. Beaton, K. Corston, A. Deschamps, J. Van Der Sanden, S. Tolszuk-Leclerc
15:50	Closing remarks
18:30	Awards Banquet Kwanlin Dun Cultural Centre