



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

Sunday, July 9th

18:00

Ice Breaker Reception
Kwanlin Dün Cultural Centre



Monday, July 10 th	
7:30	Continental breakfast
8:15	Opening remarks
Session 1: Ice Mechanics and thermal properties	
Session Chair: TBA	
8:30	<i>*Laboratory measurements of frazil ice properties in saline water</i> C. Schneck, M. Loewen
8:52	<i>*Waves propagating along a channel with hinge-cracked ice cover</i> N. Liu, J. Kells, K-E Lindenschmidt
9:14	Measurement of Ice Covers under Moving Loads G. Van Der Vinne, M. Lanteigne, J. Snyder
9:36	Numerical modelling of ice cover in City of Edmonton's stormwater ponds A. Oveisy, Y. She, M. Loewen
9:58	Coffee Break
Session 2: Anchor ice related research	
Session Chair: TBA	
10:15	<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
10:37	<i>*Sediment Transport by Anchor Ice Releases: A Study of Three Rivers</i> H. Kalke, V. McFarlane, C. Schneck, M. Loewen, M. Jasek
10:59	<i>*Observations of temperature and dissolved oxygen in the hyporheic environment of an anchor-ice-affected hydropeaking stream</i> J. Nafziger, T. Chung, Y. She
11:21	3D Sonar Imaging and Bathymetry of In-Situ Anchor Ice in the Peace River J. Evans, M. Jasek
11:43	Evaluating a Distributed Temperature-Sensing System for Anchor-Ice Studies E. Kempema, R. Ettema
Lunch (12:05 - 13:20)	
Posters (13:20 - 14:00)	
Session 3: Flood risk and modeling	
Session Chair: TBA	
14:10	Flood mapping of river ice break up jams in River Kyrönjoki delta J. Aaltonen, M. Huokuna
14:32	Near Real-time Ice-Related Flood Hazard Assessment on the Exploits River, Newfoundland S. Warren, T. Puestow, M. Richard, A.A. Khan, M. Khayer, K.-E. Lindenschmidt
14:54	<i>*River ice hydraulic modeling of the Slave River Delta</i> F. Zhang, K.-E. Lindenschmidt
15:16	<i>*Sustainable ice-jam flood management in the Peace River, western Canada</i> P. Rokaya, A. Das, H. Wheeler, K.-E. Lindenschmidt
15:38	Coffee Break
Session 4: Flood risk along small rivers	
Session Chair: TBA	
16:00	Ice-Related Floods and Flood Damage Reduction along Streams and Small Rivers B. Turcotte, K. Alfredsen, S. Beltaos, B.C. Burrell
16:22	Flooding Caused by Freezeup on Ship Creek, AK J.S. Rocks, S.F. Daly, M. Reilly-Collette
16:44	Ice-Related, Urban Winter Flooding of Flat Creek, Jackson, Wyoming E. Kempema, B. Remlinger, S.F. Daly, R. Ettema
17:06	Freeze-up related flooding on a small regulated river in central Yukon D. Morissette, D. Andres, M. O'Connor, R. Gee, F. Pearson



Tuesday, July 11th

7:30	Continental breakfast
8:15	Keynote Presentation: Overview of Rive Ice Steven F. Daly
Session 5: River ice monitoring Session Chair: TBA	
8:50	Monitoring ice processes: Sharing experience to improve successful research programs B. Turcotte, S. Clark, S. Beltaos, B. Morse, M. Jasek, K. Alfredsen, L. Lind
9:12	<i>*Measurements of frazil ice particles at the onset of supercooling in the North Saskatchewan and Peace Rivers, V. McFarlane, M. Loewen, H. Kalke, C. Schneck, F. Hicks</i>
9:34	Predictions of Ice Jams in the Dauphin River R.W. Carson, S.P.Clark, K-E. Lindenschmidt, J-P. Saucet, Wael Taha
9:56	Freeze-up Jam Observations on the Dauphin River S.P. Clark, L. Wazney, A. Wall
10:18	Coffee Break
Session 6: Breakup and ice jams observations and modeling Session Chair: TBA	
10:30	Using dendrochronology to identify historic ice jams T.A. Dahl, S.A. Gibson, J.B. Webber
10:52	Aerial Monitoring of Vegetation to Identify Ice-related Bank Erosion along the Middle Reach of the Susitna River, Alaska, R. Vandermause, R. Ettema
11:14	Self-sustaining waves resulting from storage release in prismatic ice-covered channels S. Beltaos
11:14	Peace River 2014 Break-up and the Resulting Ice Jam Flooding of the Peace-Athabasca Delta M. Jasek
11:36	Numerical modelling of ice dynamics during 2009 Hay River ice breakup A. Oveisy, Y. She
Lunch (12:00 -)	
Whitehorse Rapids Generating Facility	
Wolf Creek Research Basin	
Fish Lake hike	



Wednesday, July 12 th	
7:30	Continental breakfast
Session 7: Climate impacts on river ice processes Session Chair: TBA	
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
8:52	<i>*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</i>
9:14	Evolution of Fast Ice Coverage in James Bay W. Taha, A. Cueto-Bergner, M. Levasseur, A. Tremblay
9:36	Climate and Ice Impacts on Great Slave Lake Levels and Flows in the Mackenzie River, Northwest Territories, R. Andrishak, G. Van Der Vinne
9:58	Coffee Break
Session 8: Flow regulation and flood mitigation Session Chair: TBA	
10:20	Ice Formation and Breakup in Regulated Rivers and Reservoirs M. Huokuna, M. Morris, S. Beltaos, B.C. Burrell
10:42	Incorporating ice effects in environmental flow indices K. Alfredsen
11:04	Ice Boom Design Challenges in a very large, high-latitude, north-flowing River R. Abdelnour, E. Abdelnour, E. Robert, J. Malenchak
11:26	Groundwater Dewatering Mitigation System for Freeze-up Ice Jams at the Town of Peace River, Alberta, M. Jasek, S. Alloisio
Lunch (11:50 - 13:20)	
Session 9: Dam construction and rehabilitation Session Chair: TBA	
13:20	Numerical Ice Model Studies During the Design and Construction of the Keeyask Generating Station, J. Malenchak, M. Morris, J. Groeneveld, S. Bohrn
13:42	Ice Mitigation Measures Used During the Construction of the Keeyask Generating Station after the Failure of the Ice Boom, M. Morris, J. Malenchak
14:04	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
14:26	Numerical Ice Model Studies of the Lower Churchill River J. Groeneveld, S. Zare, C. McLean, E. Porter, R. Woolgar
14:48	Coffee Break
Session 10: River ice processes forecasting Session Chair: TBA	
15:30	Alaska Pacific River Forecast Center Operations S. Lindsey, C. Johnson
15:52	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
16:14	Near Real-Time Monitoring of Ice Break-up in Ontario's Far North in Support of the Provincial Flood Forecasting and Warning Program, A. Beaton, K. Corston, A. Deschamps, J. Van Der Sanden, S. Tolszczuk-Leclerc
16:36	Lectures end
18:30	Awards Banquet Kwanlin Dun Cultural Centre