

THAW 2014
CONFERENCE PROGRAMME, 12-15 MARCH 2014
QUÉBEC CITY

WEDNESDAY 12 March

Observatoire de la Capitale, 1037 De La Chevrotière, Québec, QC G1R 5E9

17h-19h00 **Icebreaker at the Observatoire de la Capitale**

THURSDAY 13 March - DAY 1

2425, rue de la Terrasse, Université Laval, Québec G1V 0A6 (Pavillon Gene H. Kruger, ROOM 2330)

- 8h30-9h30 **Theme 1 Plenary** *Guido Grosse*
Thermokarst lake dynamics - A review
- 9h30-10h00 Coffee break - next to conference room
- 10h00 **Oral presentations** **Walter Anthony, K.**- *Methane emissions from 50 years of thermokarst in Alaskan lakes*
- 10h15 **Fedorova, I.**- *Vulnerability of polar lakes according to investigation of Yamal Peninsula, the Lena River delta, and East Antarctica oases*
- 10h30 **Johansson, E.**- *Water balance and hydrological interactions between catchment, lake and talik in a periglacial landscape*
- 10h45 **Kirpotin, S.**- *Western Siberian peatlands as indicator and regulator of climatic changes on global scale*
- 11h00 **Lamoureux, S.**- *Erosion and downstream transport of sediment from permafrost slope disturbances: recovery times and biogeochemical implications*
- 11h15 **Wrona, F.**- *Effects of a changing cryosphere on the hydrology, geochemistry and ecology of Western Arctic tundra lakes*
- 11h30 **Kouraev, A.**- *Hydrology of permafrost-affected Siberian wetlands from satellite and in-situ observations*
- 11h45 **Liljedahl, A.K.**- *Observed pan-Arctic ice wedge degradation in continuous permafrost and modeled effects on watershed-scale hydrology*
- 12h-13h00 Lunch will be served in the cafeteria in the adjacent building, Pavillon Abitibi-Price
- 13h-14h00 **Theme 2 Plenary** *Breck Bowden*
Interactions among biogeochemistry, hydrology, and stream ecology in permafrost-dominated Arctic watersheds
- 14h **Oral presentations** **Amyot, M.**- *Thaw ponds as sites of methyl Hg accumulation and photodemethylation in eastern Canada*
- 14h15 **Buell, M-C.**- *Quantifying carbon emissions from tundra ponds and identifying their role in the tundra carbon cycle*
- 14h30 **Canário, J.**- *Thermokarst lakes as potential sources of contaminants to Subarctic aquatic ecosystems*
- 14h45 **Gooseff, M.**- *Implications to aquatic ecosystems from thermokarst on previously stable stream banks in Taylor Valley, Antarctica*
- 15h-15h30 Coffee break - next to conference room
- 15h30 **Oral presentation** **McLennan, D.** - *Cryosphere monitoring and research in the Arctic: New opportunities at the Canadian High Arctic Research Station*
- 15h45 **Express speeches** 2 minute presentations of certain posters
- 16h30-19h00 **Poster session** In the cafeteria in the adjacent building, Pavillon Abitibi-Price
- 19h00 Dinner on your own (young researchers meet as organized by Frederic Bouchard)

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FRIDAY 14 March - DAY 2

2425, rue de la Terrasse, Université Laval, Québec G1V 0A6 (Pavillon Gene H. Kruger, ROOM 2330)

8h30-9h30	Theme 3 Plenary <i>Jan Karlsson</i> <i>Food web dynamics and biomass production in lakes at high latitudes: effects of climate change and permafrost thawing?</i>
9h30-10h00	Coffee break - next to conference room
10h00	Oral presentations Hobbie, J.- <i>No significant warming trend has been detected at the Alaska LTER site since 1989 but ecological effects are obvious</i>
10h15	Crump, B.- <i>Microbial diversity in Arctic freshwaters overlying permafrost is structured by inoculation of microbes from soils</i>
10h30	Comte, J.- <i>Bacterial biogeographic patterns in permafrost thaw ponds and implications for greenhouse gas emissions</i>
10h45	Kohler, T.- <i>Nutrient availability influences microbial mat biomass and elemental composition in Taylor Valley, Antarctica</i>
11h00	Lento, J.- <i>Impacts of permafrost slump activity on stream benthic macroinvertebrate communities</i>
11h15	Steven, B.- <i>Response of High Arctic soil bacteria to intermittent water pulses in permafrost water tracks</i>
11h30	Cory, R.M.- <i>The fate of carbon draining permafrost soils is controlled by photochemical reactions in addition to microbial degradation in arctic surface waters</i>
11h45	Runkle, B.R.K.- <i>Lateral fluxes of carbon and nitrogen, Lena River Delta, Siberia</i>
12h-14h00	Lunch will be served in the cafeteria in the adjacent building, Pavillon Abitibi-Price Discussion groups block 1
14h30-21h00	Walk and sugar shack at Ile d'Orléans Bus will be departing from the entrance of the Pavillon G.H. Kruger, on rue de la Foresterie

SATURDAY 15 March- DAY 3

2425, rue de la Terrasse, Université Laval, Québec G1V 0A6 (Pavillon Gene H. Kruger, ROOM 2330)

8h30	Oral presentations MacIntyre, S.- <i>Comparative physical limnology of Arctic lakes: implications for fluxes of greenhouse gases</i>
8h45	Turner, K.- <i>Characterizing the past and present hydrology of a lake-rich thermokarst landscape (Old Crow Flats, Yukon) and its relations to climate and land-cover</i>
9h00	Langer, M.- <i>Frozen ponds – production and storage of methane during the Arctic winter</i>
9h15	Fortier, D.- <i>Morphometry and evolution of thermal erosion gullies in the valley of the glacier C-79, Bylot Island, Canadian Arctic archipelago</i>
9h30-10h00	Coffee break - next to conference room
10h-12h00	Discussion groups block 2
12h-14h00	Lunch will be served in the cafeteria in the adjacent building, Pavillon Abitibi-Price Wrap-up discussions from 3 rapporteurs
14h-14h30	Closing remarks