

Program At A Glance

March
7 & 8

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International Lake of the Woods Water Quality Forum

Rainy River Community College

1501 Hwy 71

International Falls, MN

MARCH 7

13:00 – 17:00 Registration open

12:00 – 13:00 Lunch

13:00 – 15:00 Meetings of individual collaborative groups

- 13:00 – 14:00 Climate change synthesis paper working group Specific attendance – contact group lead andrew.paterson@ontario.ca
- 14:00 – 15:00 Core monitoring program – development and scoping General attendance – please just show up
- Meeting rooms are also available for other groups who wish to meet while at the Forum. Contact Todd Sellers tsellers@lowwsf.com to arrange meeting space.

15:00 Break

15:30 – 17:00 Lake of the Woods Control Board: Balancing the Interests

This session is an important opportunity to participate with the Lake of the Woods Control Board to identify water level and flow issues and make recommendations to help the Board improve water level and flow regulation and Board outreach efforts – please plan to attend and participate!

17:00 Break

18:00 – 21:00 FOUNDATION RECEPTION & POSTER SESSION (AMERICINN)

Guest Speaker – Lana Pollack, Chair – US Section, International Joint Commission
Kallemeyn Award Presentation
Student Poster Award Presentation

The AmericInn is the former Holiday Inn across the street from the Rainy River Community College

POSTER SESSIONS – MARCH 7 (AMERICINN) & MARCH 8 (RAINY R. COLLEGE)

The Foundation Reception on March 7th includes the main poster session (at the AmericInn). Posters will also be set up at the College on the 8th as we've done in the past.

1. Water quality on Lake of the Woods, Northwest Angle. [Kayla J. Bowe](#), Red Lake Department of Natural Resources, Red Lake Band of Chippewa Indians.
2. Refining the LoW nutrient budgets: A focus on shoreline erosion and tributary contributions. [J Stephanie Johnson](#), Ph.D., P.E.¹; [Corryn Trask](#)²; [Mike Hirst](#)²; [Josh Stromlund](#)²; [Mark Deutschman](#), Ph.D., P.E.¹
¹ Houston Engineering, Inc.; ² Lake of the Woods County Soil and Water Conservation District.
3. Lake of the Woods Control Board – The Board, the basin and current lake conditions. [Rick Cousins](#), [Matt DeWolfe](#), Lake of the Woods Control Board.
4. Ten year watershed monitoring process of the Minnesota Pollution Control Agency. [Michael J. Kennedy](#), Minnesota Pollution Control Agency.
5. Availability of northern pike breeding habitat in Rainy Lake and Namakan Reservoir. [Anne Timm](#) and [Rod Pierce](#). USDA Forest Service

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08:15 Welcome and Introductions

08:25 SESSION 1 – UPDATES

1. International Multi-Agency Arrangement (IMA) Report.
2. Fishing for answers: Intensive Watershed Monitoring in the Big Fork Watershed. [Erin Andrews](#). Minnesota Pollution Control Agency.
3. Watershed pollutant load monitoring network: Program overview and water quality results. [Patrick Baskfield](#). Minnesota Pollution Control Agency.

9:20 SESSION 2 – CLIMATE CHANGE: From Impacts To Adaptation

4. Keynote 1 – The wet are getting wetter and the dry are getting drier: a climate reality check. [David Pearson](#), Laurentian University, Sudbury, Ontario.

10:00 Break

5. Keynote 2 – Climate change from impacts to adaptation. [Mark Seeley](#), University of Minnesota.
6. Climate change effects on coldwater fish in Lake of the Woods. [Peter Jacobson](#)¹, [Tom Heinrich](#)¹, [Tom Mosindy](#)², [Don Pereira](#)¹. ¹Minnesota Department of Natural Resources; ²Ontario Ministry of Natural Resources.

11:30 SESSION 3 – NUTRIENTS, ALGAE & BIO-MONITORING

7. The CABIN program: monitoring the benthic macro-invertebrate community as a bio-indicator for Lake of the Woods. [Tim Pascoe](#), [Tana McDaniel](#), [Jeffrey Hanna](#), [Sue Watson](#). Environment Canada.
8. An assessment of the long-term phenology and impact of *Bythotrephes longimanus* in Island Lake Reservoir, Minnesota, using sediment records.. [Ashley E Beranek](#), [Donn K. Branstrator](#). University of Minnesota Duluth

12:10 Lunch and Poster Session

9. Reconstructing a historical phosphorus budget for Lake of the Woods. [Edlund, M.B.](#)^{1*}, [Reavie, E.D.](#)², [Schottler, S.](#)¹, [Hogardy, D.](#)³, [Wattrus, N.](#)³, [Baratono, N.](#)⁵, [Paterson, A.M.](#)⁴, [Barotono, N.](#)⁵, [Engstrom, D.E.](#)¹
¹St. Croix Watershed Research Station; ²Center for Water and the Environment, University of Minnesota Duluth; ³Large Lakes Observatory, University of Minnesota Duluth; ⁴Dorset Environmental Science Centre, Ontario Ministry of the Environment; ⁵Minnesota Pollution Control Agency
10. Sediment phosphorus fluxes in the Lake of the Woods. [Bill James](#). U.S. Army Corps of Engineers
11. Characterization of microcystin congeners in water and sediments from Lake of the Woods. [Arthur Zastepa](#), [Pick, F.](#), [Blais, J.](#) University of Ottawa.
12. Satellite monitoring of Lake of the Woods as a tool for assessing lake-wide trends in algal blooms in relation to physical and climate variables. [Caren Binding](#), [Tracie Greenberg](#), & [Robert Bukata](#). Environment Canada

14:50 Break

15:20 SESSION 4 – HYDROLOGY & MODELING

13. Development of a HEC-RAS hydraulic model to describe the movement of water through Namakan Reservoir, Minnesota and Ontario. [Jeffrey Ziegeweid](#)¹, [Brenda Densmore](#)², and [Aaron Thompson](#)³
¹U.S. Geological Survey Minnesota Water Science Center; ²U.S. Geological Survey Nebraska Water Science Center; ³Environment Canada.
14. Estimating the effect of water-level fluctuations on the reproductive success of common loons. [Steve Gutreuter](#)¹, [Steve Windels](#)² and [Ryan Maki](#)². ¹USGS, La Crosse, WI; ²U.S. National Park Service, Voyageurs National Park, International Falls, MN
15. Incorporating change assessment in watershed-scale water-quality modeling applications. [Megan Burke](#). RESPEC.
16. Watershed-scale hydrology and water-quality modeling in Rainy River tributary basins subject to regular timber harvest. [Cindie McCutcheon](#). RESPEC.

16:40 – 17:00 CLOSING REMARKS – LANA POLLACK, CHAIR US-SECTION INTERNATIONAL JOINT COMMISSION