RAINY-LAKE OF THE WOODS WATERSHED 2024 FORUM
March 6-7, International Falls, MN

Program At A Glance

DAY 1 – MARCH 6

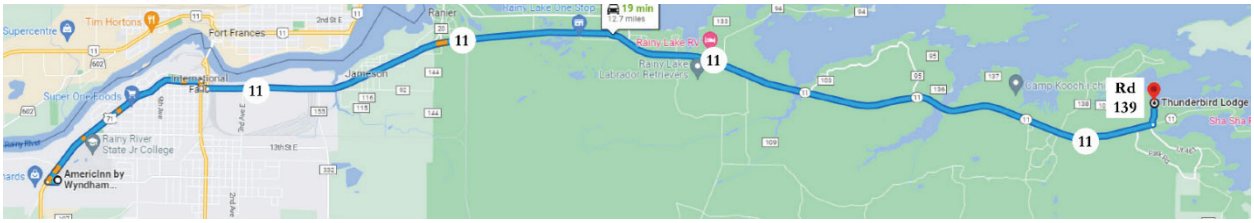
9:00	**Forum Opening**	
Traditional Welcome: Fred Desjarlait, Spiritual Advisor, Red Lake Nation **Opening Remarks:** Parliamentary Secretary to the Prime Minister and Special Advisor for Water, Terry Duguid **Greetings:** Consul Marylin Gayton **Opening Remarks:** Joshua Jones, Red Lake DNR		
Session 1: Water Governance (Moderator: Lucas King)		
9:30	0:20	IJC / International Rainy-Lake of the Woods Watershed Board Update IRLWWB Co-chairs: Michael Goffin, Karl D. Jansen (acting for Col. E. Swenson)
9:50	0:20	Objectives, Alert Levels and Core Monitoring Project Update Teika Newton
10:10	0:20	Protecting international waters in the heart of North America: The role of civil society movements on transboundary water quality Becky Rom
10:30	0:30	**BREAK**
Session 2: Ecosystem Modeling (Moderator: Teika Newton)		
11:00	0:20	Coming back to Rainy-Namakan: Updating the Rainy River and Rainy-Namakan Integrated Ecosystem Response Models (IERMs) into the Integrated Social Economic and Environmental (ISEE) system Marianne Bachand et al.
11:20	0:20	Anishinaabe performance indicators for adaptive management of the Rainy – Namakan Rule Curves Johann Strube and TBD
11:40	0:20	Lake of the Woods Southern Shore Barrier Island Erosion Investigation: Status report Zachary Morris & Craig Taylor
12:00	1:30	**LUNCH**
Session 3: Contaminants & Mining (Moderator: Doug Franchot)		
13:30	0:20	Assessing the vulnerability of waters to mining in the Rainy–Lake of the Woods watershed Aliesha Krall et al.
13:50	0:20	Groundwater–surface water model for the Canada–United States Rainy–Lake of the Woods transboundary watershed Hazan Russel et al.
14:10	0:20	Sulfate in the Rainy River Headwaters: A survey of background conditions in the watershed, as well as the tributary discharges to, and downstream transport of sulfate from Birch Lake, in Lake and Saint Louis counties, Minnesota (69-0003-00) Matt Norton
14:30	0:30	**BREAK**

Day 1 March 6 cont'd

Sesson 4: Ecological Interactions (Moderator: Chris Herc)		
15:00	0:20	Grand Council Treaty #3 environmental stewardship Michaela Novak & Laine Fyke
15:20	0:20	Looking back and thinking ahead: How aquatic invasive species have altered zooplankton communities in the Rainy–Lake of the Woods Watershed Kylie Cattoor et al.
15:40	0:20	Invasive cattail removal in boreal lake systems as a means of improving wildlife habitat Steve K. Windels et al.
16:00	0:20	Using mesocosms to assess greenhouse gas production and carbon sequestration by native wild rice (Zizania aquatica) Blake Cooney et al.
16:20	0:40	**Travel to Thunderbird Lodge**
17:00		**Reception and buffet dinner at Thunderbird Lodge on Rainy Lake** Guest speaker TBD • Kallemeyn Award • Wilson Stewardship Award

AmericInn &College → 12 miles / 20 minutes → Thunderbird Lodge

Highway 11 East Rd 139



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Lake of the Woods water sustainability foundation

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150 YEARS

GRAND COUNCIL TREATY #3

In cooperation with Jefferson National Parks Association Voyageurs National Park

LOWDSA Lake of the Woods District Stewardship Association

Rainy Lake Conservancy

Voyageurs Conservancy

Minnesota Pollution Control Agency

DESC

DAY 2 – MARCH 7

Start	Min	Symposium Sessions March 7
8:50	0:10	Day 2 Welcome and Introductions
Session 5: Nutrient dynamics: Drivers of Cyanobacteria and Cyanotoxin Production (Moderator: Andrew Paterson)		
9:00	0:20	Contrasting patterns of algal, cyanobacterial, and cyanotoxin production in Lake of the Woods and Upper and Lower Red Lake Mari Leland et al.
9:20	0:20	Does internal loading of phosphorus drive cyanobacteria blooms in remote Minnesota lakes? Lienne Sethna et al.
9:40	0:20	Enhanced monitoring of Lake of the Woods highlights nitrogen dynamics and stratification as potential triggers of cyanobacterial blooms Adam Heathcote, *Mark Edlund et al.
10:00	0:20	Nitrogen dynamics and fixation control cyanobacterial abundance, diversity, and toxicity in Lake of the Woods (USA, Canada) Cody Sheik et al.
10:20	0:30	**BREAK**
Session 6: Science to Watershed Actions (Moderator: Mike Kennedy)		
10:50	0:10	Presenter & Panel Introductions and Instructions Mike Kennedy, moderator
11:00	0:20	Presentation: Science to Action in Minnesota Jeff Hrubes, Tara Solem and Mike Hirst
11:20	0:20	Presentation: Environment & Climate Change Canada Lake of the Woods Nutrients Update Daniel Rokitnicki
11:40	0:20	Panel Discussion with Attendees Panelists: Jeff Hrubes (BWSR), Tara Solem (Lake SWCD), Mike Hirst (LoW SWCD), Daniel Rokitnicki (ECCC-CWA), Becca Reiss (N. St. Louis SWCD), Pam Tomevi (Koochiching SWDD) Moderator: Mike Kennedy
12:00	1:30	**LUNCH**
Session 7: Nutrient & Sediment Load Tracing (Moderator: Jesse Anderson)		
13:30	0:20	Sediment mapping and progress toward understanding legacy phosphorus in the Rainy River corridor Anna Baker et al.
13:50	0:20	Tracking sediment sources in the Little Fork River using sediment fingerprinting Anna Baker et al.
14:10	0:20	A case for considering nitrogen in monitoring and management efforts in the Lower Rainy River basin Catherine Eimers et al.
14:30	0:20	Rainy River nutrient and sediment water quality trends, from ECCC and MPCA long-term monitoring programs Diana Fred, Jesse Anderson et al.
14:50	0:30	**BREAK**

Session 8: Monitoring Program Updates (Moderator: Ryan Maki)		
15:20	0:20	Progress Update: MPCA's Intensive Watershed Monitoring efforts in the Lake of the Woods Watershed Wesle Sigl
15:40	0:20	**E**ffects of lake levels on nutrient conditions and HABS and cyanotoxin production in Lake Kabetogama James Larson et al.
16:00	0:20	ECCC update on water quality monitoring in the Lake of the Woods Rainy River Basin Diana Fred
16:20	0:10	**Closing Remarks - Forum Ends approximately 4:30**

2024 Forum Organizing Committee

Todd Sellers, Lake of the Woods Water Sustainability Foundation
Andrew Paterson, Ontario Ministry of Environment, Conservation and Parks
Jesse Anderson, Minnesota Pollution Control Agency
Mike Kennedy, Minnesota Pollution Control Agency
Kelly Sjerven, Minnesota North College, Rainy River Campus
Lucas King, Territorial Planning Unit, Grand Council Treaty 3
Kayla Bowe, Red Lake Department of Natural Resources
Ryan Maki, Voyageurs National Park
Diana Fred, Environment and Climate Change Canada
Matthew Julius, St. Cloud State University
Teika Newton, Lake of the Woods Water Sustainability Foundation
Reuben Wagenius, St. Cloud State University – IT / Video Support.

A Big Shout Out!

- ✓ Minnesota North College, Rainy River Campus – and Kelly Sjerven for this great venue.
- ✓ All our Sponsors who helped make the 2024 Forum Possible:

Lake of the Woods Water Sustainability Foundation
Grand Council Treaty #3
Consulate General of Canada in Minneapolis-St. Paul, Global Affairs Canada
Minnesota North College - Rainy River campus
St. Cloud State University
International Joint Commission
Minnesota Pollution Control Agency
Jefferson National Parks Association in cooperation with Voyageurs National Park
Dorset Environmental Sciences Centre - OMECP
Lake of the Woods District Stewardship Association
Rainy Lake Conservancy
Voyageurs Conservancy