

# ST. CROIX RIVER RESEARCH RENDEZVOUS

St. Croix Watershed Research Station | Science Museum of Minnesota  
Wild Rivers Conservancy of the St. Croix and Namekagon



8:30 – 9:00 **Registration & Continental Breakfast**

9:00 **INTRODUCTION AND ANNOUNCEMENTS:** Alison Brown, President, Science Museum of Minnesota; Matt Poppleton, Executive Director, Wild Rivers Conservancy; Dr. Adam Heathcote, Director, Department of Water and Climate-Science Museum of Minnesota

## **SESSION 1: INTERFACES BETWEEN HUMANS AND WATER**

(moderator Dr. Adam Heathcote)

9:10 **Rondo Recreation In the St. Croix River Valley, 1909-1977** — Haley Prochnow: Ramsey County Historical Society, St. Croix Falls Historical Society

9:30 **A Success Story: The Role of Lake Sediment Cores In Real-World Lake Management** — Mark Edlund<sup>1</sup> and Michael Kinney<sup>2</sup>: <sup>1</sup>Science Museum of Minnesota-St. Croix Watershed Research Station, <sup>2</sup>Comfort Lake-Forest Lake Watershed District

10:10 **Sequential Diagnostic Monitoring Plus: How Monitoring Data, Historical Records and Economics Can Identify And Rapidly Eliminate High Phosphorus Sources Causing Water Quality Problems** — Michael Kinney: Comfort Lake-Forest Lake Watershed District

10:30 – 10:45 **BREAK**

## **SESSION 2: AQUATIC BIOLOGY IN THE ST. CROIX RIVER**

(moderator Dr. Lienne Sethna)

10:45 **An Update On Partner-Based Winged Mapleleaf (*Quadrula Fragosa*) Propagation Efforts** — Michelle Bartsch<sup>1</sup>, Diane Waller<sup>1</sup>, Steve Houdek<sup>1</sup>, Theresa Schreier<sup>1</sup>, Gage Valeri<sup>1</sup>, Craig Bockholt<sup>2</sup>, Megan Bradley<sup>2</sup>, Elizabeth Glidewell<sup>2</sup>: <sup>1</sup>USGS-Upper Midwest Environment Sciences Center, <sup>2</sup>U.S. Fish and Wildlife Services *\*Author list continued on page 2*

11:05 **Documenting Seasonal Mooneye Movement To Support Spectaclecase Recovery In The St. Croix River** — Matthew Meulemans<sup>1</sup>, Michelle Bartsch<sup>1</sup>, Diane Waller<sup>1</sup>, Bernard Sietman<sup>2</sup>, Zeb Secrist<sup>2</sup>, Joel Strias<sup>3</sup>, and Marian Shaffer<sup>4</sup>: <sup>1</sup>USGS-Upper Midwest Environmental Sciences Center, <sup>2</sup>MNDNR-Center for Aquatic Mollusk Programs, <sup>3</sup>Minnesota DNR, <sup>4</sup>National Park Service, St. Croix National Scenic Riverway

11:25 **Bug Hotels: Monitoring Ecosystem Health And Aquatic Macroinvertebrate Communities Using Artificial Substrate Samplers At The St. Croix National Scenic Riverway** — Rick Damstra and Dave VanderMeulen: National Park Service Great Lakes Inventory and Monitoring Network

11:45 – 12:15 **POSTER SESSION**

12:15 – 1:15 **LUNCH**

## **SESSION 3: CONSERVATION EFFORTS IN THE ST. CROIX**

(moderator Dr. Jason Ulrich)

- 1:15      **Long Term Trends In Fish Populations In The Lower St. Croix River** — Sam Jacobson: Wisconsin Department of Natural Resources
- 1:35      **Minnesota's Native Fish Bill: A Case Study in Shifting the “Rough Fish Paradigm”** — Tyler J. Winter: Native Fish for Tomorrow
- 1:55      **TMDL Implementation To Address Eutrophication Of Lake St. Croix** — Marc White: Wild Rivers Conservancy of the St. Croix and Namekagan
- 2:15      **The Zone of Interaction: Assessing Water Quality Risk Through Soil Sampling – A Participatory Research Project** — Kelsey Hyland and Chelsea Zegler: University of Wisconsin–Madison Division of Extension, Agriculture Water Quality Program
- 2:35 – 2:50      **BREAK**

## **SESSION 4: INVASIVE SPECIES MANAGEMENT**

(moderator Dr. Mark Edlund)

- 2:50      **Combatting Purple Loosestrife in the St. Croix Watershed via Beetle-Raising Volunteers** — Maria Young: Wild Rivers Conservancy of the St. Croix and Namekagan
- 3:10      **Yellow Iris Treatments** — Grace Holland: National Park Service
- 3:30      **Utilizing Forestry Mowing Equipment For Habitat Restoration At The St. Croix National Scenic Riverway** — Isaiah Messerly: National Park Service

**CLOSING REMARKS:** Dr. Adam Heathcote, Director, Department of Water and Climate

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### **OPTIONAL FROLIC AND SOCIAL HOUR**

Rendezvous attendees are welcome to continue conversations at the nearby Brookside Bar and Grill. It's just across the street!

*(Venue restrictions prohibit alcohol on site.)*



**\*Author list continued: An Update On Partner-Based Winged Mapleleaf (*Quadrula Fragosa*) Propagation Efforts** — Kathryn Holcomb<sup>3</sup>, Lindsay Ohlman<sup>3</sup>, Isabel Boyce<sup>3</sup>, Bernard Sietman<sup>3</sup>, Zeb Secrist<sup>3</sup>, Dan Hornbach<sup>4</sup>, Mark Hove<sup>5</sup>, Dan Kelner<sup>6</sup>, Nick Utrup<sup>7</sup>, Lisie Kitchel<sup>8</sup>, Nathan Eckert<sup>9</sup>, Marc White<sup>10</sup>, Kassie Zimmer<sup>10</sup>, and Marian Shaffer<sup>11</sup>: <sup>3</sup>Minnesota Department of Natural Resources-Center for Aquatic Mollusk Programs, <sup>4</sup>Macalester College-Department of Environmental Studies, <sup>5</sup>University of Minnesota Department of Fisheries, Wildlife and Conservation Biology, <sup>6</sup>U.S. Army Corps of Engineers-St. Paul District, <sup>7</sup>U.S. Fish and Wildlife Service, MN-WI Ecological Services Field Office, <sup>8</sup>Wisconsin Department of Natural Resources, <sup>9</sup>U.S. Fish and Wildlife Service-Neosho National Fish Hatchery, <sup>10</sup>Wild Rivers Conservancy, <sup>11</sup>National Park Service-St. Croix National Scenic Riverway

## **POSTER SESSION:**

**Ecosystem enhancement for the Lower Wabash River** — Jeremy Williamson, John Stofleth, and Stephanie Day: cbec eco engineering.

**Mapping High-Resolution Sonar as a Biological Research Tool for Native Mussels** — Jenny L. Hanson<sup>1</sup> and Marian Shaffer<sup>2</sup>: <sup>1</sup>U.S. Geological Survey Upper Midwest Environmental Sciences Center, <sup>2</sup>National Park Service St. Croix National Scenic Riverway

**Optimizing Visitors Social Media Platform Engagement** — Elena Tsakakis<sup>1</sup>, and Ingrid E. Schneider, PhD.<sup>2</sup>: <sup>1</sup>University of Minnesota (at time of data collection), <sup>2</sup>University of Minnesota Department of Forest Resources

**Rubus Parvifolius (Small Leaf Bramble), The Invasive Raspberry Of The St. Croix River Valley And Best Management Practices For Eradication** — Elissa Thompson and Tara Kelly: Washington Conservation District

**Zebra Mussel Assessment** — Chris Struckhoff: National Park Service

