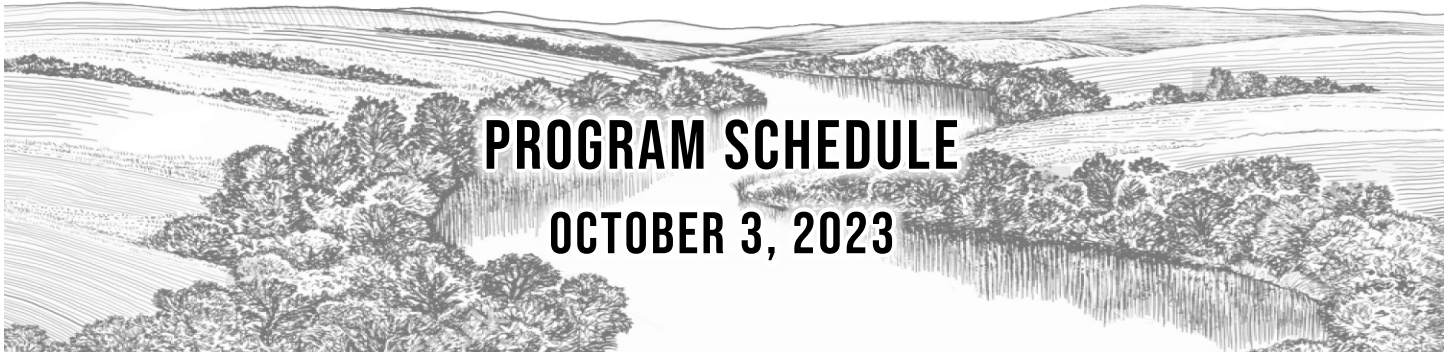


# ST. CROIX RIVER RESEARCH RENDEZVOUS

Science Museum of Minnesota | St. Croix Watershed Research Station



## PROGRAM SCHEDULE OCTOBER 3, 2023

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

9:00 **INTRODUCTION AND ANNOUNCEMENTS:** Dr. Adam Heathcote, Director,  
Department of Water and Climate Change

### **SESSION 1: ORGANISMAL BIOLOGY IN THE ST. CROIX WATERSHED** (moderator Dr. Mark Edlund)

9:10 **An Overview of the Saint Croix National Scenic Riverway's Acoustic Bat Monitoring Program** – Michael Rhoades, Jay Johnson: National Park Service-St. Croix National Scenic Riverway

9:30 **Investigating Bumble Bee (*Bombus*) Nesting in Three Habitats in the Upper Midwest** – Chan Dolan, Zachary Portman, Daniel Cariveau: University of Minnesota Twin Cities Entomology Department

9:50 **Once a Prawn a Time ...: a St. Croix Shrimp Story** – Holly Howard<sup>1</sup>, Elizabeth Nelson<sup>2</sup>, Mark Hove<sup>1</sup>, Matt Berg<sup>3</sup>, Allison Holdhusen<sup>4</sup>, Troy Howard<sup>1</sup>, Tyler Howard<sup>1</sup>, Jenny Kruckenberg<sup>1</sup>, Caitlin Nagorka<sup>4</sup>, Konrad Schmidt<sup>1</sup>, Greg Seitz<sup>5</sup>, Marian Shaffer<sup>4</sup>, and Bob Whaley<sup>1</sup>: <sup>1</sup>Volunteer, <sup>2</sup>Minnesota Department of Natural Resources, <sup>3</sup>Grantsburg High School/Endangered Resource Services, LLC, <sup>4</sup>National Park Service, <sup>5</sup>StCroix360.com

10:10 **Lower St. Croix River Lake Sturgeon Population Demographics and Population Connectivity** – Kasey Yallaly: Wisconsin Department of Natural Resources

10:30 – 10:45 **BREAK**

### **SESSION 2: RESEARCH HAPPENING IN THE ST. CROIX WATERSHED** (moderator Dr. Lienne Sethna)

10:45 **Yellow Iris: Yet Another Invasive Flower** – Connor Bacon<sup>1</sup>, Mike Rhoades<sup>2</sup>, Luke Lindsay<sup>1</sup>, Chris Struckhoff<sup>1</sup>, Logan Planer<sup>3</sup>, Hannah Fennern<sup>3</sup>, Jay Johnson<sup>1</sup>: <sup>1</sup>Seasonal Staff, National Park Services, <sup>2</sup>Full-time Staff, National Park Service, <sup>3</sup>Intern, National Park Services

11:05 **Archaeology at the Pine Needles Natural History Preserve** – Edward Fleming: Department of Anthropology, Science Museum of Minnesota

11:25 **Late Pre-contact Plant Use at the Sheffield Site** – Jasmine Konkur: Department of Anthropology, Science Museum of Minnesota

11:45 – 12:15 **POSTER SESSION**

## **SESSION 3: ST. CROIX RIVER MUSSEL RESEARCH** (moderator Kelsey Boeff, MS)

- 1:15 **Brief Overview of SACN's Zebra Mussel Monitoring Throughout the St. Croix Watershed** – Chris Struckhoff: National Park Service-St. Croix National Scenic Riverway
- 1:35 **Can High Freshwater Mussel Density and Large Mussel Size Restrict Juvenile Recruitment?** – Daniel J. Hornbach<sup>1</sup>, Bernard Sietman<sup>2</sup>, Jillian Fedarick<sup>3</sup> : <sup>1</sup>Department of Environmental Studies, Macalester College, <sup>2</sup>Minnesota Department of Natural Resources, Center for Aquatic Mollusks Programs, <sup>3</sup>Department of Wildlife, Fisheries, and Conservation Biology, University of Maine
- 1:55 **Characterization of Spectaclecase Host Fish, *Hioddon spp.*, Movement Patterns in the St. Croix National Scenic Riverway** – 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>, & Marian Shaffer<sup>4</sup> : <sup>1</sup>U.S. Geological Survey, Upper Midwest Environmental Sciences Center, <sup>2</sup>Minnesota Department of Natural Resources, Center for Aquatic Mollusk Programs, <sup>3</sup>Minnesota Department of Natural Resources, <sup>4</sup>National Park Service, St. Croix National Scenic Riverway
- 2:15 **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>, Doug Aloisi<sup>2</sup>, Megan Bradley<sup>2</sup>, Elizabeth Glidewell<sup>2</sup>, Mike Davis<sup>3</sup>, Bernard Sietman<sup>3</sup>, Madeline Pletta<sup>3</sup>, Lindsay Ohlman<sup>3</sup>, Zeb Secrist<sup>3</sup>, Dan Hornbach<sup>4</sup>, Mark Hove<sup>5</sup>, Dan Kelner<sup>6</sup>, Tamara Smith<sup>7</sup>, Lisie Kitchel<sup>8</sup>, Jesse Weinzinger<sup>8</sup>, Nathan Eckert<sup>9</sup>, Katie Sickmann<sup>10</sup>, Lauren Brochtrup<sup>10</sup>, & Marian Shaffer<sup>11</sup>: <sup>1</sup>U.S. Geological Survey, Upper Midwest Environmental Sciences Center; <sup>2</sup>U.S. Fish and Wildlife Service, Genoa National Fish Hatchery, <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, <sup>7</sup>USFWS, Minnesota-Wisconsin Ecological Services Field Office, <sup>8</sup>Wisconsin Department of Natural Resources, <sup>9</sup>USFWS, Neosho National Fish Hatchery, <sup>10</sup>Wild Rivers Conservancy, <sup>11</sup>St. Croix National Scenic Riverway, National Park Service

## **SESSION 4: MANAGING OUR ST. CROIX WATERSHED** (moderator Dr. Jason Ulrich)

- 2:50 **GIS Along the Riverway** – Claire Cadiz: National Park Service, St. Croix National Scenic Riverway
- 3:10 **Lakeshore Landowner Values: Lessons learned from a survey and focus groups in the Carnelian-Marine-St. Croix Watershed, Minnesota** – Angie Hong: Water Education Senior Specialist with the East Metro Water Resource Education Program
- 3:30 **Restoration of Tracts of High Ecological Value within St. Croix National Scenic Riverway** – Luke Lindsay: St. Croix National Scenic Riverway
- 3:40 **When Lakes Misbehave: Paleolimnological analysis of Ann Lake, Kanabec Co., MN** – Mark Edlund<sup>1</sup>, Joy Ramstack Hobbs<sup>1</sup>, Eric Alms<sup>2</sup>, Deanna Pomije<sup>3</sup>, Sharon Smith<sup>4</sup> : <sup>1</sup>St. Croix Watershed Research Station, Science Museum of Minnesota, <sup>2</sup>MN Pollution Control Agency, <sup>3</sup>Kanabec County SWCD, <sup>4</sup>Ann Lake Watershed Alliance
- 4:00 **CLOSING REMARKS / FROLIC & SOCIAL HOUR**



## **POSTER SESSION: ST. CROIX RIVER MUSSEL RESEARCH**

**Archaeological Collections from the St. Croix Valley at the Science Museum of Minnesota –** Mara Taft, Ed Fleming: Anthropology Department, Science Museum of Minnesota

**Collection Archives at the St. Croix Watershed Research Station –** Mari Leland, Erin Mortenson, Joy Ramstack Hobbs, Mark B. Edlund: St. Croix Watershed Research Station, Science Museum of Minnesota

**The Effect of Extraction Time and Extractant on Chlorophyll- $\alpha$  Concentrations –** Alex Dillon, Amelia Wilson-Jackson, Lienne Sethna: St. Croix Watershed Research Station, Science Museum of Minnesota

**The Role of Thermal Structure and Nutrient Stoichiometry on Harmful Algal Bloom Formation in Remote, Northern Minnesota Lakes –** Lienne Sethna, Adam Heathcote, Mark Edlund: St. Croix Watershed Research Station, Science Museum of Minnesota

**The Science Museum of Minnesota's Biology Collection as a Resource for St. Croix Watershed Biodiversity Research –** Catherine M. Early: Biology Department, Science Museum of Minnesota

**The Water Quality and Other Co-Benefits of Solar Energy –** Patrick Hamilton<sup>1</sup>, Shawn Schottler<sup>2</sup>, Jason Ulrich<sup>2</sup> : <sup>1</sup>Sustainability Initiatives & Global Change, Science Museum of Minnesota, <sup>2</sup>St. Croix Watershed Research Station, Science Museum of Minnesota

