

St. Croix River Research Rendezvous

- A 30 YEAR RETROSPECTIVE -

Tentative Program Schedule

October 22, 2019

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

9:00 **INTRODUCTION AND ANNOUNCEMENTS** – Jim Almendinger, Director, St. Croix Watershed Research Station; Vikki Getchell, Director, Lee & Rose Warner Nature Center

Session 1 Current Research in the St. Croix River Watershed

9:10 **Breaking the St. Croix Down Into Bite-Sized Pieces** – Jeremy Williamson, Polk County Land & Water Resources Department

9:30 **Engaging Agricultural Stakeholder in Development of the Lower St. Croix “One Watershed Plan”** – Angie Hong, East Metro Water Resource Education Program

9:50 **The Effect of Habitat Conditions on *Lumbricidae* Population in the St. Croix State Park** – Emily Maiers, Molly O’Brien, advised by Mekel Wiederholt Meier, Mary Bridget Samson, Jerry Kelly, Edgewood High School of the Sacred Heart

10:10 **Minnesota Master Naturalists and University Researcher Study Life History Needs of a Local Native Mussel** – Joel Donna, University of Wisconsin-River Falls, Minnesota Master Naturalist Program, University of Minnesota-St. Paul; Mark Hove, Chris Rounds, Dept. of Fisheries, wildlife and Conservation Biology, University of Minnesota-St. Paul; Susan Binkley, Susan Deetz, John Loegering, Amy Rager, Dennis Zerwas, Jr., Minnesota Master Naturalist Program, University of Minnesota-Extension

10:30 – 10:45 **BREAK**

Session 2 Retrospective: Policy and Advocacy in St. Croix Scenic Riverway

10:45 **Creating the St. Croix National Scenic Riverway** – Julie Galonska, National Park Service-St. Croix Falls, WI

11:05 **Revisiting the History of the St. Croix Basin Water Resources Planning Team: What’s Next?** – Randy Ferrin, Retired, National Park Service-St. Croix Falls, WI, St. Croix Basin Team Coordinator

11:25 – 12:00 **POSTER SESSION**

12:00 – 1:00 **LUNCH**

Session 3 Retrospective: Biological Studies within the St. Croix River Watershed

1:00 **Reflections on Water, Wetlands, and Unsung Heroes: If We Don’t Look, We Don’t See** – Judy Helgan, Retired, Minnesota Pollution Control Agency

1:20 **Inspired by the Mollusk Diversity of the St. Croix–MN DNR is Restoring Mussels in Other Rivers** – Mike Davis, Minnesota Department of Natural Resources

1:40 – 1:55 **BREAK**

Session 4 *Retrospective: Water Quality Studies, Standards and Protection*

1:55 **Tale of Two Rivers** – Dan Engstrom, Retired, Director emeritus, St. Croix Watershed Research Station

2:15 **Monitoring Lake St. Croix: Setting Standards and Monitoring Progress** – Kent Johnson, Retired, Metropolitan Council

2:35 **Hydrologic Models in the St. Croix: Wherefore, Whence, and Whither** – Jim Almendinger, Director, St. Croix Watershed Research Station; Richard Kiesling, US Geological Survey

Session 5 **CLOSING REMARKS and FAREWELLS / FROLIC & SOCIAL HOUR**

2:55 **If you Build It, Will They Come?** – Ron Lawrenz, Retired, Director, St. Croix Watershed Research Station and Warner Nature Center

3:20 **Recognition and Farewell to the Lee & Rose Warner Nature Center** – Vikki Getchell, Director, Warner Nature Center

3:30 Frolic

Poster Presentations (Poster Session, 11:25 - 12:00)

Assessment of Activated Carbon's Ability to Absorb Common Water Contaminants – Philip Margarit, Dr. Jill Coleman Wasik, Department of Plant and Earth Sciences, University of Wisconsin-River Falls

The Effect of *Orconectes rusticus* on Macroinvertebrates Population at Head of the Rapids Boat Launch in St. Croix State Park – Jade Fitzgerald, Shao-Ting Lin, advised by Mekel Wiederholt Meier, Mary Bridget Samson, Jerry Kelly, Edgewood High School of the Sacred Heart

Microplastic Prevalence and Size Distribution in Water, Macroinvertebrates, and Trout from a Cold-Water Stream in Western Wisconsin, USA – Claire Simmerman, Department of Soil, Water and Climate, University of Minnesota-St. Paul, Dr. Jill Coleman Wasik, Department of Plant and Earth Sciences, University of Wisconsin-River Falls

Modelling Egg Transport and Hatching Success To Investigate the Likelihood of Invasive Carp Populations Becoming Established in the Lower St. Croix River – Jeffery Ziegeweid, J. William Lund, USGS Upper Midwest Water Science Center; Nick Frohnauer, Minnesota Department of Natural Resources; Alan Kasprak, Utah State University; P. Ryan Jackson, Evan Lindroth, USGS Central Midwest Water Science Center

Phenological Study of Darner Dragonfly (Family: *Aeshnidae*) Emergence in the St. Croix River Valley, Minnesota – Samantha Youngdale, Hannah Young, Dr. Emily G. Schilling, Augsburg University

Phosphorus Storage in the Little Falls Lake Impoundment Basin and Potential Phosphorus Release After Flooding – Allyson Haag, Belle Evert, Dr. Jill Coleman Wasik, Department of Plant and Earth Sciences, University of Wisconsin-River Falls

Studying the Nutrient Levels of Freshwater Springs and the Effect They Have on the Growth of Filamentous Algae in St. Croix State Park – Nate Frucht, Truly Wallhaus, advised by Mekel Wiederholt Meier, Mary Bridget Samson, Jerry Kelly, Edgewood High School of the Sacred Heart