

Falls Lake Nutrient Management Study Research Symposium

Thursday, April 7, 2022
North Carolina Botanical Garden
Chapel Hill, NC

The purpose of this symposium is to **share the breadth of research** happening as part of the Falls Lake Nutrient Management Study and the Upper Neuse River Basin Association's efforts to re-examine the Falls Lake Nutrient Management Strategy.

- 10:00 Welcome and NC Policy Collaboratory Overview – Greer Arthur
- Nutrient Management Study Background - Mike Piehler
- The UNRBA Pathway to a Re-Examination of the Falls Lake Nutrient Management Strategy* – Forrest Westall
- 10:30 **Session 1 In-Lake Processes**
- In Situ Observational Study of Falls Lake* – Rick Luettich, Tony Whipple, Harvey Seim, and Ollie Gilchrest
- Assessment of Zooplankton-Phytoplankton Relationships in Falls Lake* – Nathan Hall and Mike Piehler
- Monitoring for Algal Toxins in Falls Lake* – Emily Pierce, Will McClure, Marco Valera, Joseph Mohn and Astrid Schnetzer
- Defining the Balance Between N₂ Fixation and Denitrification* – Nathan Hall, Mike Piehler and Hans Paerl
- Stakeholder Questions
- Table Discussion
- 11:35 **Session 2 Watershed Processes**
- Sand Filters and Silva Cells* – Bill Hunt, Caleb Mitchell
- Evaluating and Managing Nutrient Inputs From Onsite Wastewater Systems in the Falls Lake Watershed: A Multiscale Approach* - Guy Iverson, Michael O'Driscoll, Charles Humphrey Jr., John Hoben, Natasha Bell, Jennifer Richardson, Ann Marie Lindley and Jordan Jernigan
- Sediment and Carbon Accumulation in Falls Lake* – Brent McKee, Sherif Ghobrial, Mackenzie Wise, and Alyson Burch
- Stakeholder Questions
- Table Discussion
- 12:30 Break for Lunch

1:15

Session 3 Stakeholder Engagement, Financing, and Future Work

Assessing Controls on Watershed Nutrient Loading Through Data-Driven Modeling – Dan Obenour

Paying For Nutrient Management in Falls Lake - Evan Kirk, Elsemarie Mullins, and Erin Riggs

UNRBA's Re-Examination: Where We Are, What We've Learned, Moving Forward – Forrest Westall

Stakeholder Questions

Table Discussion

Closing Remarks - Mike Piehler

2:30

Adjourn



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