

Falls Lake Nutrient Management Study Research Symposium

May 19, 2021

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 (UNRBA) efforts to re-examine the Falls Nutrient Management Strategy.

- 10:00 Welcome & Nutrient Management Study Background - *Mike Piehler*
- 10:10 *UNRBA' re-examination of the Falls Lake Nutrient Management Strategy – Forrest Westall*
- 10:25 **Session 1 Watershed Processes**
- Sand Filters and Silva Cells – Bill Hunt, Jeffrey Johnson, Sarah Waickowski*
- Onsite wastewater a hidden source of nutrients to Falls Lake - Michael O'Driscoll, Charles Humphrey Jr., Guy Iverson, and John Hoben*
- Evaluating the importance of reservoirs as organic carbon sinks and their role in climate change. – Brent McKee*
- Stakeholder Questions
- Interactive Session
- 11:25 **Session 2 In-Lake Processes**
- In situ observational study of water circulation and physical properties in Falls Lake – Rick Luettich, Tony Whipple, Harvey Seim, and Ollie Gilcrest*
- Quantifying Sediment Nutrient Processing – Mike Piehler, Suzanne Thompson, and Chelsea Brown*
- Defining the balance between N₂ fixation and denitrification – Nathan Hall and Hans Paerl*
- Cyanotoxin presence & year round dynamics in Falls Lake – Astrid Schnetzer*
- Stakeholder Questions
- Interactive Session
- 12:35 Break for Lunch

1:05

Session 3 Stakeholder Engagement, Financing, and Future Work

Community engagement for integrated watershed management- Danielle Spurlock

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

Nutrient Modeling in Piedmont Reservoirs – Dan Obenour

UNRBA: Next steps for developing recommendations for a revised Management Strategy –
Forrest Westall

Stakeholder Questions

Interactive Session

2:20

Closing Remarks - Mike Piehler

2:30

Adjourn



UNC
INSTITUTE FOR
THE ENVIRONMENT



NC Policy
Collaboratory