

# Falls Lake Nutrient Management Study

## Research Symposium Agenda

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 Gilchrest*  
*Quantifying Sediment Nutrient Processing – Mike Piehler, Suzanne Thompson, and Chelsea Brown*  
*Defining the balance between N<sub>2</sub> 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

**Video links for this virtual meeting are provided on the next page.**



UNC  
INSTITUTE FOR  
THE ENVIRONMENT



NC Policy  
Collaboratory

## Symposium Open and Welcome

### [Welcome & Nutrient Management Study Background](#)

*Mike Piehler*

### [UNRBA's re-examination of the Falls Lake Nutrient Management Strategy](#)

*Forrest Westall*

## 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, & John Hoben*

### [Evaluating the importance of reservoirs as organic carbon sinks and their role in climate change](#)

*Brent McKee*

[Live Q&A Session](#) | Typed Q&A can be viewed in the description box of the video

*Bill Hunt, Michael O'Driscoll, & Brent McKee*

## Session 2: In-Lake Processes

### [In situ observational study of water circulation and physical properties in Falls Lake](#)

*Rick Luettich, Tony Whipple, Harvey Seim, & Ollie Gilchrest*

### [Quantifying Sediment Nutrient Processing](#)

*Mike Piehler, Suzanne Thompson, & Chelsea Brown*

### [Defining the balance between N<sub>2</sub> fixation and denitrification](#)

*Nathan Hall & Hans Paerl*

### [Cyanotoxin presence & year-round dynamics in Falls Lake](#)

*Astrid Schnetzer*

### [Live Q&A Session](#)

*Rick Luettich, Mike Piehler, Nathan Hall, & Astrid Schnetzer*

## Session 3: Stakeholder Engagement, Financing, & Future Work

### [Community engagement for integrated watershed management](#)

*Danielle Spurlock*

### [Paying for Nutrient Management in Falls Lake](#)

*Evan Kirk, Elsemarie Mullins, & Erin Riggs*

### [Nutrient Modeling in Piedmont Reservoirs](#)

*Dan Obenour*

### [UNRBA: Next steps for developing recommendations for a revised Management Strategy](#)

*Forrest Westall*

[Live Q&A Session](#) | Typed Q&A can be viewed in the description box of the video

*Danielle Spurlock, Evan Kirk, Dan Obenour, Forrest Westall*