

Jordan Lake Nutrient Management Study Research Symposium

Wednesday, April 3, 2019
North Carolina Botanical Garden
Chapel Hill, NC

The purpose of this symposium is to **share the breadth of research** happening as part of the Jordan lake Nutrient Management Study **and facilitate dialogue** among various stakeholders within the Jordan Lake watershed.

- 10:00 Welcome & Nutrient Management Study Background
Mike Piehler
- 10:20 **In-Lake Factors Affecting Algal Growth**
- Circulation and Structure of Jordan Lake From Continuous Observations
Harvey Seim, Rick Luettich, Molly Gilchrest, Nadia Frances, Tony Whipple, & Ryan Neve
- Nutrient Limitation Dynamics In Jordan Lake Reservoir: Management Implications
Hans Paerl, Nathan Hall, Betsy Abare, Jeremy Braddy, Karen Rossignol, & Randolph Sloup
- Understanding Phytoplankton Shade Adaptation to Improve Nutrient Response Models
Nathan Hall
- Cyanotoxin Dynamics in Jordan Lake
Astrid Schnetzer, Marco Valera, Mark Vander Borgh, & Elizabeth Fensin
Funded by the Urban Water Consortium/Water Resources Research Institute
- Clarifying Questions
- 11:10 Table Discussion: Do these findings change your perception of Jordan Lake's Water Quality?
What implications do they have for managing nutrients in Jordan Lake?
- 11:25 **Watershed Inputs Affecting Algal Growth**
- Development and Infrastructure's Role in Nutrient Loading Within the Jordan Lake Watershed
Joseph Delesantro, Jonathan Duncan, Diego Riveros-Iregui, Keridwen Whitmore, Joanna Blaszczak, Emily Bernhardt, Dean Urban, & Lawrence Band
- Sediment Dynamics in Jordan Lake
Brent McKee and Sherif Ghobrial
- Clarifying Questions
- 12:00 Lunch – Paid for by the UNC Institute for the Environment **Over →**



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- 12:45 **Integrating Scientific Findings Into Modeling Efforts**
- Evaluating the Long-term Nutrient Removal Performance of a Bioretention Cell in Chapel Hill
Bill Hunt
- Jordan Lake Watershed and Water Quality Modeling to Assess Historical and Projected Eutrophication
Dan Obenour & Sankar Arumugam
- Creating a New Nutrient Response Model for Jordan Lake
Jim Bowen
- Clarifying Questions
- 1:25 Table Discussion: How should these new models shape policy with regards to nutrient management in Jordan Lake?
- 1:45 **Collaboration in Watershed Management**
- Jordan Lake One Water – A Transformative Approach to Watershed Management
Cameron Colvin
- 1:55 **Funding Nutrient Management Efforts**
- Financing Nutrient Management in the Jordan Lake Watershed
Erin Riggs & Evan Kirk
- Clarifying Questions
- 2:25 Table Discussion Topic: Which financing approaches are best suited for implementation in the Jordan Lake watershed?
- 2:45 Closing Remarks
Mike Piehler
- 3:00 Adjourn

