

**Environmental Engineering**

**and Earth Sciences**

**EEES Department Seminar**

**From Beaker to Basin:
Leveraging Research to Prepare for the Future at Charlotte Water**

**Dr. Muriel Steele**

Charlotte Water

****At Charlotte Water, research and development (R&D) plays a pivotal role in shaping the future of water and wastewater services. As the largest utility in the Southeast, Charlotte Water is looking to expand its R&D program to enhance the efficiency, sustainability, and resilience of its operations. Dr. Steele’s presentation will highlight the driving factors behind Charlotte Water's commitment to R&D, with a particular focus on process intensification and resource recovery. It will explore how these research initiatives are not only optimizing current processes but also preparing the utility to meet future challenges in water resource recovery. Through a series of project examples, the presentation will demonstrate how applied research is helping transform Charlotte Water's approach to water treatment, resource recovery, and environmental stewardship. By leveraging cutting-edge technologies and data-driven insights, Charlotte Water is paving the way for a sustainable, efficient, and innovative water future.

**12:00 PM**

**Monday, March 31, 2025**

**Rich Lab Auditorium**

***“Attendance is mandatory for graduate students enrolled in
EES 8610, EES 9610, and GEOL 8610”***