School of
CIVIL AND ENVIRONMENTAL ENGINEERING AND EARTH SCIENCES
Clemson® University

# DISTINGUISHED LECTURE

***Friday, March 29, 2024 @ 1:25 PM, Watt Center Auditorium***
***Reception Follows in the Watt Center Atrium***


## Catherine A. Peters, Ph.D.

**George J. Magee Professor of Geosciences and Geological Engineering**

**Director, Program in Geological Engineering**

**Civil and Environmental Engineering Dept.**

**Princeton University**


## Underground $H_2$ Storage and Natural Production: Pathways to Energy Decarbonization

Drawing on experimental studies conducted by her lab, Professor Peters will discuss strategies for optimizing the storage of H2 gas underground for gas purity and operational safety. She will also introduce new research that explores how, by coupling a unique set of naturally occurring mineral reactions deep underground, it may be possible to produce natural H2 while simultaneously mineralizing carbon dioxide (CO2) – a breakthrough in the production and storage of H2 gas that would facilitate the transition to a clean energy future and the achievement of global targets for mitigating climate change.