

# DISTINGUISHED LECTURE

sponsored by the  
**Clemson Hydrogeology Symposium**



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### ***Advances in Geological Storage of Carbon Dioxide in Deep Geological Formations***

*Capturing carbon dioxide and storing it in deep underground geological formations is one of the most important approaches for reducing emissions of greenhouse gases into the atmosphere. Recent studies indicate that globally about 10 Gt/year of CO<sub>2</sub> storage may be required by the middle of the century, including about 1 Gt/year in the U.S. Managing subsurface storage of this much CO<sub>2</sub> requires the ability to characterize the storage potential of geological formations, predict and manage CO<sub>2</sub> plume migration and pressure buildup, and monitor the fate and transport of CO<sub>2</sub> in the subsurface. This presentation will provide an overview of recent advances in CO<sub>2</sub> storage science and engineering, including new results from the GeoCquest Field Validation Test being conducted in Australia.*

***Thursday, April 3, 2025 @ 11 a.m. | Madren Center auditorium (SCEEES)***

*Tiger Transit (Watt to Madren) departs Watt @ 10:30 a.m. | Tiger Transit (Madren to Watt) departs Madren at 12:15 p.m.*