

civil & environmental engineering department presents

# 2010 AEESP DISTINGUISHED LECTURE

(Association of Environmental Engineering and Science Professors)

# KIRLIN DISTINGUISHED SEMINAR SERIES

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## Geologic Sequestration of CO<sub>2</sub>: Evaluating and Monitoring Seal Rock Integrity



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The leading technology under development for management of CO<sub>2</sub> separated and captured from large emission sources, such as electric power plants, is carbon capture and geologic sequestration (CCS). Worldwide, only a few large scale tests of CCS have been conducted. In the U.S., the DoE has established seven regional partnership programs for large-scale testing of CCS, including evaluations of the rate of leakage from the storage reservoirs.

This talk will present an overview of CCS and the challenge of risk assessment in relation to deployment of the technology. Potential mechanisms for leakage from CO<sub>2</sub> storage reservoirs and performance objectives under consideration will be discussed. Results of research on seal rocks overlying saline reservoirs will be presented and the implications for assessment and monitoring of seal rock integrity in CCS will be discussed.

**Friday, October 1, 2010**

**11:00am Meet the speaker, refreshments**

**12:00pm Lecture**

**1110 Kim Engineering Building**

