

2008 Darcy Distinguished Lecture

Prof. Michael A. Celia, Princeton University

Geological Storage as a Carbon Mitigation Option

Wednesday, September 10, 2008, 11:00 AM

CIRES Auditorium, University of Colorado, Boulder

The 2008 Henry Darcy Distinguished Lecturer in Ground Water Science will examine geological storage as a carbon mitigation option.

Prof. Michael Celia, chair of Princeton University's Department of Civil and Environmental Engineering, will explore Carbon Capture and Storage (CCS)—a technique where carbon dioxide is captured and injected into deep geological formations.

Human induced emissions of carbon dioxide have increased atmospheric concentrations of carbon dioxide by about 35 percent during the past 200 years. The current concentration, at about 385 parts per million, represents the highest carbon dioxide concentration in the last 500,000 years. Projected future emissions will lead to doubling of preindustrial carbon dioxide concentration within the next 50 years. Prof. Celia will discuss some of the key effects, issues and questions surrounding the injection of carbon dioxide into deep formations.

The lecture series honors Henry Darcy of France for his scientific discoveries of 1856. Darcy's investigations established the physical basis upon which ground water hydrogeology has been studied ever since.

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The lecture series was established by the National Ground Water Research and Educational Foundation. Established in 1994, NGWREF is a 501(c)(3) public foundation focused on conducting educational, research and other charitable activities related to a broader public understanding of ground water.

NGWA, a nonprofit organization comprised of more than 14,000 U.S. and international ground water professionals (contractors, equipment manufacturers, suppliers, scientists, and engineers), is dedicated to advancing the expertise of all ground water professionals and to furthering ground water awareness and protection through education and outreach. NGWA's vision is to be the leading community of ground water professionals that promotes the responsible development, use, and management of ground water resources.

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