

Capture and Geologic Sequestration of Carbon Dioxide to Mitigate Global Warming

Is Sequestration Necessary? Can We Do It at an Acceptable Total Cost?

Free Public Lecture • **January 27, 2011, 7PM** • USGS Conference Room A, Bldg 3 • 345 Middlefield Road, Menlo Park

By Yousif Kharaka, USGS National Research Program

- Combustion of fossil fuels currently releases approximately 30 billion tons of carbon dioxide (CO₂) to the atmosphere annually
- Increased anthropogenic emissions have dramatically raised atmospheric CO₂ concentrations in the last 100 years
- There is broad scientific consensus that global warming, and resulting climate changes, are caused mainly by increases in atmospheric CO₂
- Geochemistry of CO₂ sequestration: Recent results and remaining major technical and environmental challenges for successful geologic storage

USGS National Research Program:
<http://water.usgs.gov/nrp>

