



Environmental Seminar Series
Presents:

***Open Ocean Iron Enrichment:
Scientific Study and
Carbon Sequestration***

Dr. Kenneth Coale
***Acting Director, Moss Landing Marine
Laboratories, California State University***

Date & Time: Wednesday April 30, 2003, 5:00 PM
Location: Smittcamp Alumni House

(Reception: 5:00PM – Lecture: 5:15 PM)

This program is open to all members of the professional, educational, and research communities. It is sponsored by: the Department of Earth and Environmental Sciences, with a grant from the College of Science and Mathematics. For additional information, please contact the Earth & Environmental Sciences Department office at (559) 278-3086 or email vengieb@csufresno.edu.

Parking restrictions will be relaxed in Lot V (at Shaw and Woodrow Avenues) between 4:30 and 7:00 PM for seminar participants. An online campus parking map is located at: <http://www.csufresno.edu/univrelations/map/Default.html>.

Open Ocean Iron Enrichment: Scientific Study and Carbon Sequestration

ABSTRACT

Increasing concentrations of atmospheric carbon dioxide have been linked to global temperatures and climate change. Although much of this anthropogenic carbon dioxide (produced by the combustion of fossil fuels and deforestation) ends up in the atmosphere, a large fraction is absorbed by the oceans. Processes that control the flux of carbon dioxide between the oceans and the atmosphere are, therefore, thought to be important in controlling climate. Recent findings by scientists at Moss Landing Marine Laboratories, indicate that carbon uptake is directly related to ocean productivity and that ocean productivity is linked to the availability of the element iron.

In this talk, Dr. Kenneth Coale will explore the linkages between iron, ocean production and climate change and report on recent open ocean enrichment experiments in the equatorial Pacific and Southern Ocean. Can ocean iron fertilization be used to control global warming? Come find out.