

A MULTI-DISCIPLINARY WORKSHOP SERIES FOR TEACHERS ON CLIMATE CHANGE

Overview

Science workshops will address how the climate is changing and how these changes affect the earth system, while others will offer content and strategies for teaching about climate change from economic, public policy, and literacy perspectives. Interested teachers are invited to sign up for one or several of these workshops.

Spring 2007 Workshops

Saturday January 20th *Dr. Constantine Hadjilambrinos* *The School of Public Administration*

CLIMATE CHANGE IN A CHANGING WORLD

Hands-on activities will provide direct experiences of the phenomena of climate change, the ways in which scientists are trying to understand it, the impact of climate on weather, the ecology, society and the economy, and the impact of one's daily activities on global climate change.



Saturday February 10th *Dr. Tim Moy* *Department of History*

SCIENCE AS A SOCIAL ACTIVITY: THE CASE OF GLOBAL CLIMATE CHANGE

Modern science is an inherently social activity; scientists work in teams, communicate their findings, and try to convince other scientists that they are right. The scientific consensus that arises from this complex social dynamic then disperses to the lay public as scientific knowledge. We will examine the continuing evolution of the scientific consensus on global climate change, considering to what extent scientific ideas are drawn from nature and how much they are socially constructed.

Saturday March 3rd *Dr. Kate Krause* *Department of Economics*

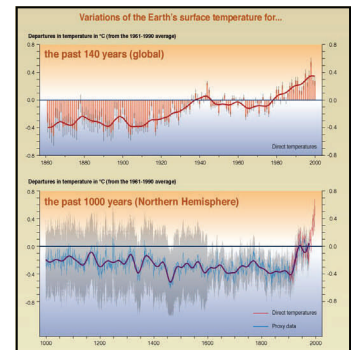
CLIMATE CHANGE IN YOUR WALLET: THE ECONOMICS OF GLOBAL WARMING

The environment is a shared resource, and shared resources tend to be over-used and even abused. This is the Tragedy of the Commons, a concept that can explain how economic incentives may lead to environmental degradation. But, while economics can get us into these messes, it can also help identify some ways out. We will explore economic models of the Commons, investigate the environmental costs and the benefits of economic development, and assess alternative policies that could reduce the environmental damage associated with modern economic life.

Saturday March 24th *Dr. Les McFadden* *Department of Earth and Planetary Sciences*

SOILS AND CLIMATE *(*This is a field-based workshop and will meet at the Elena Gallegos Open Space*)*

Global climate changes will likely be very problematical for critical human endeavors such as agriculture. In order to understand how climate changes could affect soils, we will investigate the roles that climate and other factors play in the formation of soils, by visiting a field site and inspecting soils and other related environmental features. Specifically, we will discuss the techniques used to describe soils in the field on the basis of soil morphologic features, such as soil texture, color and structure.



Saturday April 14th *Dr. Grant Meyer* *Department of Earth and Planetary Sciences*

CLIMATE CHANGE, EARTH SURFACE PROCESSES, AND NEW MEXICO'S LANDSCAPES *(*This is a field-based workshop and will meet at the La Cueva Picnic Ground*)*

Climate changes have occurred throughout geological history over timescales ranging from less than a decade to millions of years. What has been the nature of climate change during the period of human evolution, and what effect have these changes had on the Earth and landscapes in New Mexico? We will visit local field sites to examine and interpret geological evidence of past climates and landscape change, and discuss how predicted future climates might alter processes that shape the landscape and affect humans and ecosystems.

Saturday May 5th *Dr. Scott Collins* *Department of Biology*

GLOBAL CHANGE EFFECTS ON ARIDLAND ECOSYSTEMS *(*To be held at the Sevilleta Field Station, 60 miles south of Albuquerque. Transportation provided. *)*

We will start with a discussion about global environmental change and aridland ecosystems, and then tour research experiments in place at Sevilleta. Activities and discussion during the tour will focus on changes in landscape patterns in aridland ecosystems, vegetation boundaries as visual indicators of climate change and biotic responses to changes in the environment.

To sign up for workshops, email Dr. Matt Nyman (mwnyman@unm.edu). Please include your name, school, school address, topic and grade level you teach, and phone number. Lunch will be provided for all workshops. All workshops, except the field-based workshops, will be held at UNM in Northrop Hall, Room 114, and start at 9 AM lasting for about 6 hours. A certificate of completion will be provided for each participating teacher.



WORKSHOPS ARE SPONSORED BY THE
UNM COLLEGE OF ARTS AND SCIENCES TEACHERS' INSTITUTE
AND THE
SCIENCE EDUCATION INSTITUTE OF THE SOUTHWEST

