

GLOBAL CHANGE EDUCATION PROGRAM

ORIENTATION

June 8 — June 15, 2003

A G E N D A

JUNE 8, 2003 - SUNDAY

6:00 - 9:00 p.m.

INITIAL WORKING SESSION

Clackamas Room

Welcome

Milton Constantin, Program Manager-GCEP
Oak Ridge Institute for Science and Education

Goals and Objectives for Summer 2003

Jeffrey Gaffney, Chief Scientist-GCEP
Argonne National Laboratory

JUNE 9, 2003 - MONDAY

8:30 - 9:20

Welcome to SURE Orientation

Milton Constantin
Program Manager -GCEP
Oak Ridge Institute for Science and Education

Overview of Orientation

Jeffrey Gaffney
Chief Scientist-GCEP
Argonne National Laboratory

9:30-10:30

*How Do We Handle Uncertainties in Global Change Analysis:
Policy Implications*

Stephen Schneider
Stanford University

11:00-12:00 *Climate Change, Hydrology, and the Intercomparison of Ecological Models*
Wendy Gordon, GCEP-GREF Fellow
The University of Texas at Austin

1:30-2:30 *DOE Research Aircraft Facility
Gulfstream 159 Aircraft for Airborne Atmospheric Research*
W. R. Barchet
Pacific Northwest National Laboratory
Presented by Jeffrey S. Gaffney

3:00-4:00 *Technological Change in Agriculture in the Yucatan Peninsula:
Implications for Deforestation and Global Climate Change Policy*
Christopher Busch, GREF Fellow
University of California at Berkeley

JUNE 10, 2003 - TUESDAY

9:00-9:30 *ARM Overview*
William Porch
Los Alamos National Laboratory

9:30-10:30 *ARM Tropical Western Pacific Infrastructure and Science*
William Porch
Los Alamos National Laboratory

11:00- 12:00 *Aerosols and Their Potential Importance in Radiative Balance*
Jeffrey Gaffney
Chief Scientist-GCEP
Argonne National Laboratory

1:30-2:30 *Fluorescent Detection of Formaldehyde in the Troposphere*
Anne Case, GREF Fellow
Georgia Institute of Technology

3:00-4:00 *Hygroscopic Growth of Atmospheric Aerosols and
Their Optical Properties*
Cynthia Randles, GREF Fellow
Princeton University

4:00-5:00 *Nancy's Global Change Hot Topic - 2003!*
Nancy Marley
Argonne National Laboratory

JUNE 11, 2003 - WEDNESDAY

9:00-9:30 *Ecology and Carbon Sequestration Program Overview*
Jeffrey Gaffney
Argonne National Laboratory

9:30 10:30 *Construction and Interpretation of the Ice Core Record of
Nitrate at Greenland Using Stable Isotopes of Nitrogen and
Oxygen*
Meredith Hastings, GREF Fellow
Princeton University

11:00-12:00 *Spatial and Temporal Heterogeneity of Redox Fluxation
and Microbial Communities in a Tropical Soil*
Jennifer Pett-Ridge, GREF Fellow
University of California at Berkeley

1:30 -2:30 p.m. *Mechanisms of Soil Carbon Stabilization with
Reforestation of Tropical Pastures*
Erika Marin-Spiotta, GREF Fellow
University of California at Berkeley

2:30 - 3:30 *Impacts of Interacting Elevated CO₂ and CO₃ on Forest
Ecosystems: Results from the Aspen FACE Project*
David Karnosky
Michigan Technological University

4:00-5:00 *An Analysis of Carbon Sequestration by Measure of
Cellulose and Lignin in Northern Wisconsin Wetlands with
X-ray Absorption Near Edge Spectroscopy (XANES)*
Heidi Bialk, GREF Fellow
University of Wisconsin, Madison

JUNE 12, 2003 - THURSDAY

- 8:30-9:15 *NIGEC - A Perspective*
Ruth Reck
National Director, NIGEC
University of California, Davis
- 9:15-10:00 *Below Ground Carbon Flux & Dynamics in Douglas-Fir
Forests*
Jeff Klopatek
Arizona State University
- 10:30-11:15 *Bridging Science and Policy: Climate Change Research and
Outreach in the Pacific Northwest*
Amy Snover
University of Washington
- 1:30 -2:30 *Patterns and Controls for Ecosystem Carbon Flux Across
50° of Latitude*
Walter C. Oechel
San Diego State University
- 2:30 - 3:30 *Wind River Canopy Crane Research Facility*
Jerry Franklin
University of Washington
- 4:00-5:00 *Aging in Pacific Northwest Forests - from the perspective
of scientists as well as the trees*
Barbara Bond
Oregon State University

June 13, 2003 - FRIDAY

All Day Session

- 9:30-12:00 *Wind River Canopy Crane Research Facility Tour*
David Shaw
Wind River Canopy Crane Research Facility
University of Washington

June 14, 2003 -SATURDAY

8:30-9:30 *The Atmospheric Science Program:
Where Chemistry and Meteorology Hit the Road*
Nancy Marley & Jeffrey Gaffney
Argonne National Laboratory

9:30-10:30 *Solar Irradiance in the UV-B Region as Influenced by Ozone
and Particulate Abundances in an Urban Atmosphere*
Shelby Winiecki, GREF Fellow
The University of Chicago

11:00- 12:00 *Volcanoes and Antarctica*
Lois Jean Wardell, Former GREF Fellow
McGill University

1:30-5:00 Workshop - - - - So How Do Your Write and Successfully Publish
a Scientific Paper or Abstract? (The Politics of Publishing!)
Nancy Marley & Jeffrey Gaffney
Argonne National Laboratory

KEYNOTE ADDRESS

*“Megacities and Their Impacts: From the Urban to the
Global Scale”*

*Jeffrey S. Gaffney
Argonne National Laboratory*