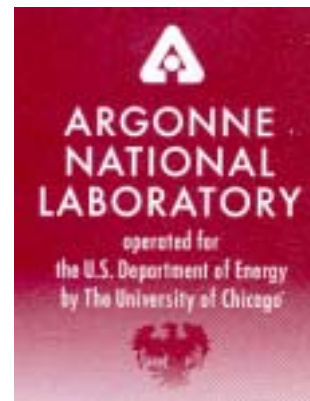


GOALS AND OBJECTIVES FOR SUMMER 2004



GLOBAL CHANGE EDUCATION PROGRAM



Summer Undergraduate Research Experience - SURE

Orientation Workshop – Argonne National Laboratory

What is DOE Office of Biological and Environmental Research (BER) doing in Global Change Research?

Research Experience – Mentoring!

Opportunity to do hands on work in Global Change Study Areas!

Final Workshop – Washington, D.C.

Oral Presentations on Accomplishments!

Graduate Research Environmental Fellows – GREF

Orientation for NEW GREF and Returning GREF

– Opportunity for Status Report!

Get to Meet your Fellow SURE and GREF students!

SURE $\Rightarrow \Rightarrow \Rightarrow \Rightarrow$ GREF!

Final Workshop – More Status Reports!

NETWORKING

Getting to know the players!



Getting to know other students in the field!



Our GCEP Goals:

Give students the opportunity to find out what research is like!

One on one with leaders in the field of Global Change!

Encourage undergrads to enter graduate school!

Help grad students complete thesis in Global Change!

Increase high quality U.S. Scientists!



GLOBAL CHANGE EDUCATION PROGRAM

SURE and GREF Goals:

Find out what research is all about!

Meet new people – mentors and students interested in
Global Change Research and Environmental Issues

Learn, Learn, Learn!*

Find out what the Dept. of Energy is doing!

Let us know how it went! – Feed back!

Final Workshop – Oral Presentations- SURE (short)
- GREF (longer)

* Note: This is lifelong process, trust me on this.. I am still learning!

SPEAKERS – MENTORS

David Archer – The University of Chicago

John Frederick – The University of Chicago

Jeff Gaffney – Argonne National Laboratory

Julie Jastrow – Argonne National Laboratory

Ken Kemner – Argonne National Laboratory

Jim Liljegren – Argonne National Laboratory

Doug MacAyeal – The University of Chicago

Nancy Marley – Argonne National Laboratory

Roser Matamala – Argonne National Laboratory

R. Mike Miller – Argonne National Laboratory

Doug Sisterson – Argonne National Laboratory

Justin Wilkinson-Lockheed Martin Space Operations

National Aeronautic Space Agency (NASA)

SPEAKERS – GREF STUDENTS!

Laura Alvarez-Aviles – The University of Alaska, Fairbanks

Amy Bratcher – Texas A&M University

Elsa Cleland – Stanford University

Alison Drake – University of Arizona

Dabrina Dutcher Stolzenburg – University of Minnesota

Emily Holister – Texas A&M University

Erika Marin- Spiotta – University of California, Berkeley

Tony Watson – University of Illinois, Urbana-Champaign

Shelby Winiecki – The University of Chicago

THE GCEP STAFF

Mr. Rick Petty – DOE Office of Biological and Environmental Research, Climate Change Research Division

Mr. Peter Lunn – DOE OBER

Milt Constantin – Oak Ridge Associated Universities

Mary Kinney – Oak Ridge Associated Universities

Donna Holdridge- Argonne National Laboratory – Web Site

Pat Shoulders – Argonne National Laboratory

Jeff Gaffney – Argonne National Laboratory

Some Final Comments!

Abbreviations need to be defined –

DOE is Department of Energy

BER – is Office of Biological and Environmental Research

GCEP – is Global Change Education Program

SURE – is Summer Undergraduate Research Experience

GRAF – is Graduate Research Environmental Fellowships

ARM – Atmospheric Radiative Measurements

ASP – Atmospheric Science Program

ACP – Atmospheric Chemistry Program

NIGEC – National Institutes for Global Environmental Change

EMP – Environmental Meteorology Program

VTMX – Vertical Transport and Mixing

TCP – Terrestrial Carbon Program

PER – Program for Ecological Research

IA - Integrated Assessment

ORAU – Oak Ridge Associated Universities

SOARS – Significant Opportunities in Atmospheric Research and Science

ANL - Argonne National Laboratory

BNL – Brookhaven National Laboratory

ORNL – Oak Ridge National Laboratory

PNNL – Pacific Northwest National Laboratory

LBNL – Lawrence Berkeley National Laboratory

LLNL – Lawrence Livermore National Laboratory

LANL – Los Alamos National Laboratory

EMSL – Environmental Molecular Sciences Laboratory

ALSO....

**IF YOU ARE OVERWHELMED WITH ALL OF THE
INFORMATION PRESENTED.. GOOD!**

**WE HOPE TO GET YOU THINKING ABOUT WHAT DOE
IS DOING – IN MANY AREAS..**

**YOU MAY LEARN DIFFERENT SPEAKS! (BIO.. GEO..
..ECO..ATMO..SPEAK)**

**THE ENVIRONMENTAL PROBLEMS OF THE FUTURE
WILL REQUIRE INTERDISCIPLINARY INTERACTIONS
OF EXPERTS FROM THEIR FIELDS.. WE HOPE YOUR
PART OF THAT!**



Glad you got here safe and sound and are part of GCEP!

Enjoy the Lectures and the Discussions!

If you need anything.. Ask Milt Pat or Mary!