

# GOALS AND OBJECTIVES FOR SUMMER 2007



GLOBAL CHANGE EDUCATION PROGRAM



# **Summer Undergraduate Research Experience - SURE**

## **Orientation Workshop – Little Rock, Arkansas**

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

What are some of the key issues in the South!

## **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!



## **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**

Jeff Gaffney – University of Arkansas at Little Rock (UALR)

Nancy Marley – University of Arkansas at Little Rock (UALR)

Mike Ledbetter – University of Arkansas at Little Rock (UALR)

Beth McMillan – University of Arkansas at Little Rock (UALR)

Justin Wilkinson-Lockheed Martin Space Operations

National Aeronautic Space Agency (NASA)

Mary Good – University of Arkansas at Little Rock (UALR)

Julie Whitbeck – University of New Orleans

Stephen Rudd – National Park Service – Hot Springs National Park

Robert Twilley – Louisiana State University

T.J. Blasing – Oak Ridge National Laboratory

Amy Wolfe – Oak Ridge National Laboratory

# **SPEAKERS – GREF STUDENTS!**

Kevin Mueller – Penn State University

Sarah O’Brien – University of Illinois at Chicago

Esther Zeledon – University of California, Berkeley

Rose Ravelo – Purdue University

Monica Martinez-Aviles – Purdue University



## THE GCEP STAFF

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

Milt Constantin – Oak Ridge Associated Universities (ORAU)

Alicia Wells – Oak Ridge Associated Universities (ORAU)

Donna Holdridge- Argonne National Laboratory (ANL) – Web Site

Jeff Gaffney – University of Arkansas at Little Rock (UALR)

Nancy Marley – University of Arkansas at Little Rock (UALR)

Estelle Gilbreth – University of Arkansas at Little Rock (UALR)

# **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

UALR – University of Arkansas at Little Rock

**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!**