

# GOALS AND OBJECTIVES FOR SUMMER 2008



GLOBAL CHANGE EDUCATION PROGRAM



# **Summer Undergraduate Research Experience - SURE**

## **Orientation Workshop – Knoxville, TN – Oak Ridge National Laboratory (ORNL)**

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

What are some of the key issues in the Southeast!

## **Research Experience – Mentoring!**

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

## **Final Workshop – Washington, D.C.**

Oral Presentations on Accomplishments!

**Summer Undergraduate Research Experience (SURE)**

**Graduate Research Environmental Fellows (GREF)**

**Orientation for NEW SURE and GREF and Returning  
SURE and GREF Fellows**

– Opportunity for Status Report – GREF!

Get to Meet your Fellow SURE and GREF students!

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

**Final Workshop – More Status Reports – SURE and GREF!**

# NETWORKING

**Getting to know the players!**



**Getting to know other students in the field!**



## **Our Global Change Education Program Goals:**

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

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

Encourage undergraduates to enter graduate school!

Help graduate students complete thesis in Global Climate 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)

Justin Wilkinson-Lockheed Martin Space Operations

National Aeronautic Space Agency (NASA)

David Erickson – Oak Ridge National Laboratory

Rich Norby – Oak Ridge National Laboratory

Doug Sisterson – Argonne National Laboratory

Aimee Classen – Oak Ridge National Laboratory/U. Tenn. Knoxville

Amy Wolfe – Oak Ridge National Laboratory

Don Myers – Tennessee Valley Authority

# **SPEAKERS – GREF STUDENTS!**

Sarah O'Brien – University of Illinois at Chicago

Colleen Iversen – University of Tennessee, Knoxville

Emily Fischer – University of Washington, Seattle

Eric Ward – Duke University

Victoria Wittig – University of Illinois at Urbana-Champaign

Erika Roessler – University of Michigan

Erin Hokanson – University of Wisconsin, Madison



## **THE GCEP STAFF**

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

Milt Constantin – 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

ORISE – Oak Ridge Institute for Science and Education

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 – THEN WE HAVE DONE OUR JOB – THERE IS LOTS TO BE DONE IN GLOBAL CLIMATE CHANGE RESEARCH!**

**WE HOPE TO GET YOU THINKING ABOUT WHAT DOES 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!**