

BERAC

October 15, 2012

**Sharlene Weatherwax, Associate Director of Science
Biological and Environmental Research**

Current BER Budget Status

	FY 2012	FY 2013	FY 2013	FY 2013	FY 2013
	Enacted	President's Request	House Mark	Senate Mark	6 Month CR allocation at the House Mark
Biological Systems Science	311,458	309,773	274,879	309,773	132,379
Research	228,063	225,691	197,984	225,691	94,656
Facilities	83,395	84,082	76,895	84,082	37,723
Climate and Environmental Sciences	298,099	315,574	267,121	315,574	131,955
Research	175,725	193,556	165,395	193,556	80,759
Facilities	122,374	122,018	101,726	122,018	51,196
BER Total	609,557	625,347	542,000	625,347	264,334

SBIR/STTR included in the Research lines

Personnel Updates



Michael Teresinski--retired



Patrick Horan—transfer to DHS

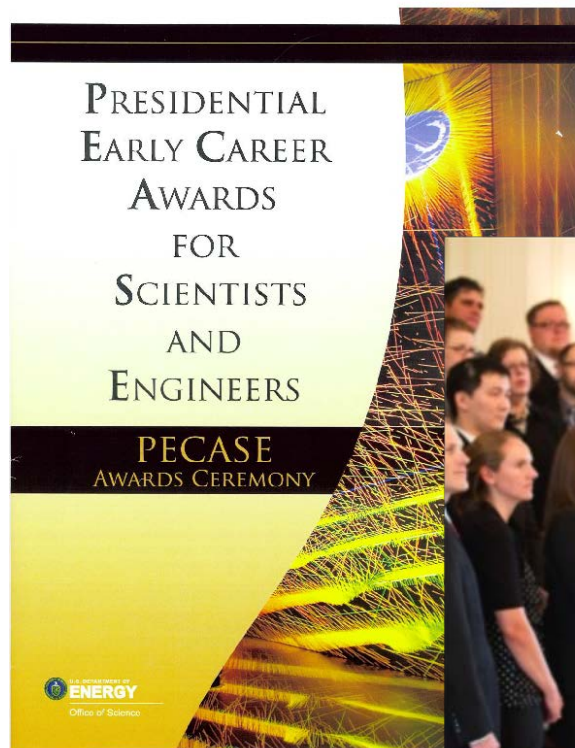
Recruitments:

- **Atmospheric Scientist**
- **Program Manager for Bioenergy Research Centers**
- **Science Assistants – BSSD & CESD**
- **Microbiologist**

New BERAC Charge

- **Committee of Visitors review of Climate and Environmental Sciences Division**
- **“...assess the processes used by the Climate and Environmental Sciences Division (CESD) within BER to manage CESD research programs and its user facilities, the William R. Wiley Environmental Molecular Sciences Laboratory (EMSL) and the Atmospheric Radiation Measurement (ARM) Climate Research Facility.”**

Awards



- **Heileen Hsu-Kim**
- Duke University
- Nanoscale Mercury Sulfide-Organic Matter Interactions and Implications for Solubility and Biomethylation
- Focus on understanding the formation, dissolution, aggregation, and bioavailability of nanoparticulate mercuric sulfides in the presence of natural organic matter, an important, but not well understood, aspect of the mercury biogeochemical cycle.

Awards



**Andrzej Joachimiak, Argonne Natl Lab-
elected as a Foreign Member of the Polish
Academy of Arts and Sciences.**



**Huimin Zhao, University of Illinois –
2012 Guggenheim Fellowship, awarded
annually to a diverse group of scholars,
artists and scientists.**

Awards



Jay Keasling, LBNL – Heinz Award.

Awarded for significant contributions in: Arts and Humanities; Environment; Human Condition; Public Policy; and Technology, the Economy and Employment



Steve Wofsy, Harvard – Roger Revelle Medal.

Awarded by the American Geophysical Union for outstanding contributions in atmospheric sciences, atmosphere-ocean coupling, atmosphere-land coupling, biogeochemical cycles, climate, or related aspects of the Earth system.

Getting the word out about BER

Research Highlights Archive of Office of Biological & Environmental Research - Microsoft Internet Explorer provided by Office o

https://public.ornl.gov/site/bernews/default.cfm

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Office of Biological and Environmental Research

Searchable Archive of Research Highlights

BER fundamental science is vital to the nation's energy security and environmental future. [More about BER](#)

To search for all highlights associated with a listed topic, select the topic of interest, and click "List." Clicking multiple topics will include all highlights in all of the selected topic areas. [Help](#)

To reset form for a new search, click:

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(choose one or more)

Mission Science

Cross-Cutting

Scientific Literature

User Facilities and Centers

DOE ARM Climate Research Facility

Recent Highlights

Aug 15, 2012
More Wet and Dry Months in the Tropics in Response to Global Warming
Quantifying how global warming impacts the spatiotemporal distribution of precipitation represent [\[more...\]](#)

Aug 14, 2012
New Method for Delivering Biologically Active Molecules into Algae Cells
Algae can produce a wide variety of biofuels, chemical building blocks, nutrients, and proteins u [\[more...\]](#)

Aug 01, 2012
Improved Assessment of Climate Model Clouds
Direct comparison of climate-model simulated clouds with satellite observations has been difficult [\[more...\]](#)

<https://public.ornl.gov/site/bernews/default.cfm>

Getting the word out about BER

The image displays a collage of overlapping web browser windows from the Department of Energy's Office of Science, showcasing various research programs and facilities:

- Genomic Science Program Systems Biology for Energy and Environment:** Features a header with the program name and a navigation menu including "About the Program" and "Research".
- DOE Joint Genome Institute (JGI):** Promotes "Enabling Advances in Bioenergy & Environmental Research" and lists categories like Genomes, Project List, and User Programs.
- ARM Climate Research Facility:** Focuses on climate research, with a "Recovery Act" section and a feature titled "Aho! It's MAGIC in the Pacific".
- Terrestrial Ecosystem Science:** Includes a section for "About NGEE Arctic Experiments" and a large landscape image.
- EMSL: Environmental Molecular Sciences Laboratory:** Highlights "EMSL's IMPACT" in areas like Biofuels, Catalysis, Energy Storage, and Solar Power, and features a "Become an EMSL User" section.

Getting the word out about BER

Special Sessions

- 2012 American Society for Microbiology, Enviably Microbial Powers to Tap Earth's Energy,

Town Halls

- 2012 Tri Society Meeting (ASA / CSSA / SSA), A Look at Activities Supporting DOE's Mission Needs in Bioenergy and the Environment
- 2012 Ecological Society of America, DOE Terrestrial Ecology Program portfolios, strategies, and plans
- 2012 American Geophysical Union, DOE's strategy for Next Generation Ecosystem Experiments
- 2012 American Geophysical Union, Strategies for Leadership Class Computing and Climate Modeling at DOE
- 2013 American Meteorological Society, DOE Integrated Assessment Research - strategic directions
- 2013 American Meteorological Society, The Water Cycle Workshop Recommendations and DOE priorities

DOE Celebrates 35 years

BER Celebrates its 35 Year+ Employees!

- Atomic Energy Agency (AEC): 1946-1974
- Energy Research and Development Agency (ERDA): 1975-1977
- U.S. Department of Energy (DOE): 1977-present



- Arthur Katz
- Karen Carlson-Brown
- Kathy Holmes
- Mike Riches