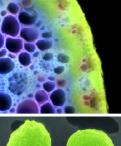


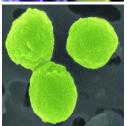


BERAC March 3, 2014



Sharlene Weatherwax, Associate Director of Science Biological and Environmental Research



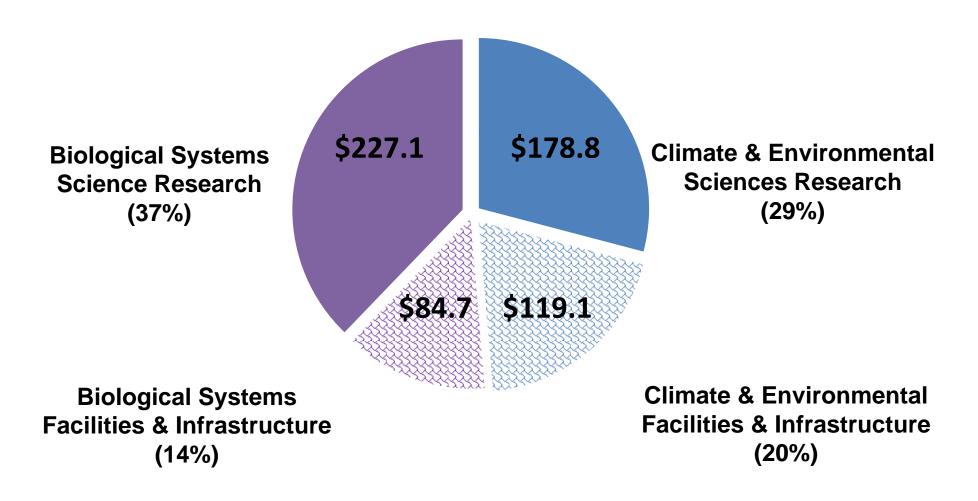


BER FY 2014 Budget

(\$ in millions)

	FY 2012	FY 2013	FY 2014
	Enacted	Enacted	Enacted
Biological Systems Science	312.4	283.9	311.8
Research	219.1	205.0	227.1
Facilities	83.4	78.9	84.7
Climate and Environmental			
Sciences	297.5	276.8	297.9
Research	167.5	161.8	178.8
Facilities	122.4	115.0	119.1
BER Total	609.9	560.7	609.7

BER FY 2014 Budget distribution (\$ in millions)



Personnel – Goodbye & Thank you!



Karen Carlson-Brown Program Support Specialist, CESD



Dean Cole Program Manager, BSSD

Departing BERAC Members – Thank you!



Jay Mace, Member since 2009



Joyce Penner, Member since 2006



Hank Shugart, Member since 2009

Jennifer Reed to receive Presidential honor

December 23, 2013 - President Obama today named 102 researchers as recipients of the Presidential Early Career Awards for Scientists and Engineers (PECASE), the highest honor bestowed by the United States Government on science and engineering professionals in the early stages of their independent research careers.



Jennifer Reed, University of Wisconsin at Madison

Engineering cyanobacteria to improve butanol production

2013 Nobel Prize in Chemistry

Awarded to Martin Karplus, Michael Levitt and Arieh Warshel "for the development of multiscale models for complex chemical systems"

Michael Levitt was supported by BER's
Computational Structural Biology program
from 1995 to 2003 through grants titled
"Towards large-scale automatic modeling of
protein structure from sequence" and
"Bioinformatics and protein engineering in
structural genomics and bioremediation"

Left: Michael Levitt receiving his Nobel Prize from His Majesty King Carl XVI Gustaf of Sweden on December 10, 2013

Right: Michael Levitt delivering his Nobel Lecture "Birth & Future of Multi-Scale Modeling of Biological Macromolecules"





Among the papers published out of the BER-supported research:

- M. Levitt and M. Gerstein, "A unified statistical framework for sequence comparison and structure comparison", *Proc. Natl. Acad. Sci. USA*, 95, 5913-5920 (1998)
- S.E. Brenner, P. Koehl and M. Levitt, "The ASTRAL compendium for protein structure and sequence analysis", *Nucleic Acids Res.*, 28, 254-256 (2000)
 - P. Koehl and M. Levitt, "Protein topology and stability define the space of allowed sequences", *Proc. Natl. Acad. Sci. USA*, 99, 1280-1285 (2002)

Congratulations! Recent BERAC Member Award Winners



Jim Hack, ORNL "R&D Leadership: Director Level Award" Keeping ORNL at the forefront of breakthrough computational science (Nov 2013)



David Randall, 2014 American Meterological Society
Jule G. Charney Award
For transformative research into atmospheric
convection and cloud processes and their improved
representation in global weather and climate models.



Judy Wall, 2013 Curators' Professor, U of Missouri's highest and most prestigious rank acknowledging outstanding scholars with established reputations from the U of Missouri system

Congratulations! BER Staff Recognition!

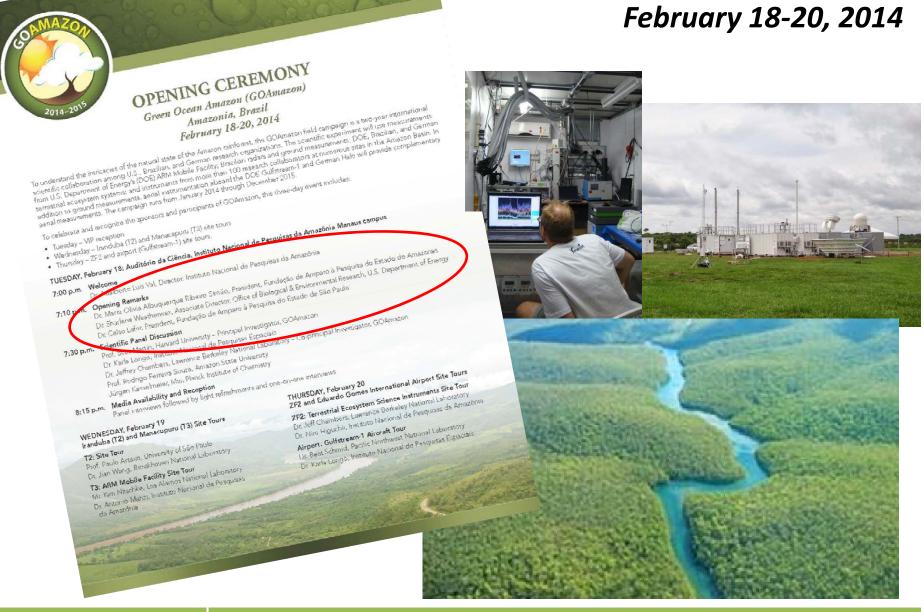
Gary Geernaert

Elected a Fellow of the American Meteorological Society

Sally McFarlane

Elected AAAS Atmospheric and Hydrospheric Sciences Section Steering Group Secretary

Green Ocean Amazon (GOAmazon) Kickoff Amazonia, Brazil February 18-20, 2014



SC Memo on Full Funding Financial Assistance Awards



Office of Science Washington, DC 20585

January 29, 2014

MEMORANDUM FOR OFFICE OF SCIENCE GRANT AND COOPERATIVE

AGREEMENT APPLICANTS AND RECIPIENTS

FROM:

PATRICIA M. DEHMER Tolice St. D. ACTING DIRECTOR, OFFICE OF SCIENCE

SUBJECT:

FULL FUNDING FINANCIAL ASSISTANCE AWARDS

UNDER \$1 MILLION

On Friday, January 17, 2014, President Obama signed the Consolidated Appropriations Act, 2014, funding the Federal Government through September 30, 2014.

Section 310 of Division D of the act states

Notwithstanding section 301(c) of this Act, none of the funds made available under the heading 'Department of Energy—Energy Programs—Science' may be used for a multiyear contract, grant, cooperative agreement, or Other Transaction Agreement of \$1,000,000 or less unless the contract, grant, cooperative agreement, or Other Transaction Agreement is funded for the full period of performance as anticipated at the time of award.

The Office of Science's financial assistance awards have historically been made for three- to five-year project periods with funding provided annually in discrete budget periods. We will no longer fund awards with a project period total cost of \$1,000,000 or less in this way. Any new or renewal financial assistance award with a project period total cost of \$1,000,000 or less will be funded in full.

Beginning immediately, the entire value of any grant or cooperative agreement with a total cost of \$1,000,000 or less will be obligated when the award is made. Funds for the awards will be fully obligated and either placed in the government-wide Automated Standard Application for Payments (ASAP, http://www.fms.treas.gov/asap) or made available for invoicing. The awards will be structured with multiple budget periods. Recipients will need to comply with all award terms and conditions, including reporting requirements, before the award will be amended or modified to allow access to funds through ASAP or invoicing for subsequent budget periods.

The Office of Science anticipates that applications for new and renewal grants and cooperative agreements will be awarded at reduced success rates over the next three to five years. After this transition period, success rates should return to historic norms.

Section 310 of Division D of the act states

Notwithstanding section 30l(c) of this Act, none of the funds made available under the heading 'Department of Energy-Energy Programs- Science' may be used for a multiyear contract, grant, cooperative agreement, or Other Transaction Agreement of \$1,000,000 or less unless the contract, grant, cooperative agreement, or Other Transaction Agreement is funded for the full period of performance as anticipated at the time of award.

Any new or renewal financial assistance award with a project period total cost of \$1,000,000 or less will be funded in full.

Beginning immediately, the entire value of any grant or cooperative agreement with a total cost of \$1,000,000 or less will be obligated when the award is made.

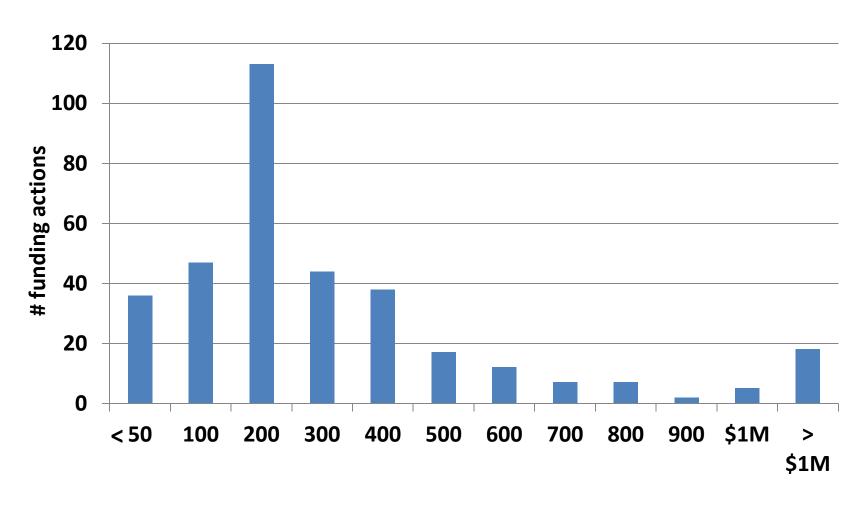
The Office of Science anticipates that applications for new and renewal grants and cooperative agreements will be awarded at reduced success rates over the next three to five years. After this transition period, success rates should return to historic norms.

http://science.energy.gov/grants/policy-and-guidance/full-funding/

Implementing Full Funding Financial Assistance Awards

- Beginning immediately, DOE/SC will implement full funding of multi-year grants and/or cooperative agreements with total cost of \$1M or less. "Full funding" means funds for the *entire award* for the project period is obligated at the time the award is made, instead of funding year-by-year.
- Process for full funding applies to new, renewal, or supplemental grant awards.
 Grants and cooperative agreements with a total cost of more than \$1M, integrated over the project period, are exempt from the full funding requirement.
- There will be no change to how an applicant applies for a grant or cooperative agreement, nor will there be changes to the merit review process.
- BER Program Managers will continue to have oversight of the research program by requiring PIs to submit an annual progress report that must be approved prior to any funds being accessed by the PI the following year.

BER grant distribution in FY 2012



Annual funding (thousands of dollars)

New BERAC Charge

Identify disciplines in which significantly greater emphasis in workforce training at the graduate student or postdoc levels is necessary to address gaps in current and future Office of Science (BER) mission needs. As part of your expert assessment, please consider:

- Disciplines not well represented in academic curricula;
- Disciplines in high demand, nationally and/or internationally, resulting in difficulties in recruitment and retention at U.S. universities and at the DOE national laboratories;
- Disciplines identified in the previous two bullets for which the DOE national laboratories may play a role in providing needed workforce development; and
- Specific recommendations for programs at the graduate student or postdoc levels that can address discipline-specific workforce development needs.