

Ten researchers from the Department of Energy (DOE), including seven from labs the Office of Science stewards, were elected 2014 Fellows of the American Association for the Advancement of Science (AAAS).

The honor recognizes individuals chosen by their peers for, “Their scientifically or socially distinguished efforts to advance science or its applications.” The new fellows were formally announced in *Science* and will also be recognized at the 2015 AAAS Annual Meeting in San Jose, California.

New AAAS fellows from the Department of Energy include:

Office of Science

- Mark T. Spitzer, program manager for the Solar Photochemistry program in the Office of Basic Energy Sciences. He was honored “For exemplary accomplishments in the development and management of basic research programs in solar energy.”

Ames Laboratory

- Richard LeSar, the Lynn Gleason Professor of Interdisciplinary Engineering in the Department of Materials Science and Engineering and a scientist at the U.S. Department of Energy’s Ames Laboratory, is being honored “For pioneering work in modeling and understanding molecular solids under high pressures, and in applying simulations and theory to understand and predict dislocation behavior.”

Lawrence Berkeley National Laboratory

- William D. Collins, who heads the Earth Sciences Division’s Climate Sciences Department for Berkeley Lab and also serves as the chief scientist for the Accelerated Climate Modeling for Energy (ACME) project, a joint effort between DOE and the National Center for Atmospheric Research. He was recognized for, “Distinguished contributions to the field of climate science through fundamental research on interactions among sunlight, heat, the coupled climate system, and global environmental change.” Collins is also a professor in residence at UC Berkeley’s Department of Earth and Planetary Science.
- Heinz M. Frei, a chemist with Berkeley Lab’s Physical Biosciences Division, who was honored for, “Distinguished contributions to the understanding of photochemical reactions, and, in particular, for the advancement of robust catalysts for solar energy conversion.”

Los Alamos National Laboratory (LANL)

- Mary Y.P. Hockaday, Associate Director of the Experimental Physical Sciences Directorate at the lab, who was honored for, “Exemplary leadership at Los Alamos National Laboratory in support of the nation's nuclear security and in realizing the technologies to foster that security.”

National Renewable Energy Laboratory (NREL)

- Brian A. Gregg, a Principal Scientist at NREL's Center for Chemical and Materials Science, was recognized for, “Distinguished contributions to the field of solar photoconversion, particularly for developing a unified understanding of the photoconversion mechanism in the various cell types.”

Oak Ridge National Laboratory (ORNL)

- Michelle V. Buchanan is ORNL's Associate Laboratory Director for Physical Sciences. She was elected for, “Exceptional technical leadership and service in the chemical and physical sciences, and for contributions to setting the nation's research priorities.”
- Liyuan Liang directs ORNL's Office of Institutional Planning and manages the Laboratory's ARPA-E programs. She was cited by AAAS for “Leadership in understanding mercury transformation in the environment, leading to the discovery of mercury methylation genes in anaerobic bacteria.”
- Melanie A. Mayes, holds staff scientist positions in ORNL's Environmental Sciences Division and Climate Change Science Institute, and a joint faculty position with the University of Tennessee Department of Earth and Planetary Sciences. She was recognized for, “Distinguished contributions to the field of soil hydrogeology, using experimentation to improve models of biogeochemical processes relevant to contaminant transport and organic carbon cycling.”

SLAC National Accelerator Laboratory

- Tom Abel is an associate professor in the Department of Physics and at SLAC National Accelerator Laboratory and acting director of the Kavli Institute for Particle Astrophysics and Cosmology. He was named an AAAS fellow for his “Distinguished work and significant advances in the area of supercomputer simulations of the first stars in the Universe.”

The Office of Science is the single largest supporter of basic research in the physical sciences in the United States and is working to address some of the most pressing challenges of our time. For more information please visit <http://science.energy.gov>.

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