

POSTDOCTORAL PROGRAM IN ENVIRONMENTAL CHEMISTRY

ANNOUNCEMENT OF FELLOWSHIP OPPORTUNITIES

The 2008 awardees and their institutions are listed below. The award of \$120,000 provides a stipend of \$45,000 per year for 2 years for the Postdoctoral Fellow.

The program goal is to develop leadership in environmental chemistry. The recipients of the awards listed below will recruit excellent young Ph.D. graduates, with a preference towards those not trained in the environmental sciences, and provide them with the highest caliber of research experience and education in the environmental chemical sciences. Qualified candidates should consider **applying** to one of these awardees.

The Foundation anticipates that the postdoctoral research accomplishments and educational broadening will be sufficient for the Fellow to attain a position where high quality independent research related to the environment can be continued. For additional information about the program see: www.dreyfus.org.

Gary Brudvig *gary.brudvig@yale.edu*
Yale University
Chemistry
High-valent oxo-Mn species supported on TiO₂ nanoparticles for water splitting catalysis.

Roy Gordon *gordon@chemistry.harvard.edu*
Harvard University
Chemistry & Chemical Biology
Vapor deposition of tin(II) sulfide films and characterization of their optical, electronic and doping properties to facilitate engineering of inexpensive and widely available thin-film solar cells.

Christopher Jones *cjones@chbe.gatech.edu*
Georgia Institute of Technology
Chemical & Biomolecular Engineering
To develop a new method to capture CO₂ from power-plant flue gas, combining recently developed organic/inorganic hybrid sorbents in a fundamentally new capture process.

Jesse Kroll *jbkroll@mit.edu*
Massachusetts Institute of Technology
Civil & Environmental Engineering
Develop and utilize a new technique for measuring the concentrations, properties, and transformations of semivolatile organic compounds to provide new insights into the chemical transformations of organic matter in the environment.

Stephen J. Lippard *lippard@mit.edu*
Massachusetts Institute of Technology
Chemistry
Polymanganese clusters will be constructed as synthetic models to mimic features of Photosystem II and possibly lead to a new catalyst for conversion of solar energy to chemical energy.

Yueh-Lin Loo *lloo@princeton.edu*
Princeton University
Chemical Engineering
Towards the design of low-cost, stable, and efficient organic solar cells via the development of well-defined chemically-modified organic-organic and organic-metal interfaces.

Shannon Stahl *stahl@chem.wisc.edu*
University of Wisconsin-Madison
Chemistry
Use of molecular oxygen as a stoichiometric oxidant to minimize the formation of chemical byproducts and waste in catalysis.

Paul Wennberg *wennberg@caltech.edu*
California Institute of Technology
Divisions of Engineering & Applied Science;
Geological & Planetary Sciences
To develop and apply new methods in spectroscopy and mass spectrometry to examine the formation of organic peroxides from the gas-phase recombination of peroxy radicals, an important contributor to the formation of atmospheric aerosol.