

Fuel Cell Opportunities in the Division of Materials Sciences, Office of Basic Energy Sciences, U.S. Department of Energy

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Outline

- I. Budget
- II. Areas of Research
 - Fuel Cells
- III. Opportunities
 - Where to get more information

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Examples of Areas of Research that Underpin the Mission

- ★ Analytical chemistry
- ★ Atomic, Molecular, and Optical Physics
- ★ Batteries and Fuel Cells
- ★ Bioenergetics
- ★ Biomaterials and Biocatalysis
- ★ Catalysis
- ★ Chemical Kinetics
- ★ Chemical Physics
- ★ Ceramics
- ★ Combustion Dynamics
- ★ Condensed Matter Physics
- ★ Corrosion
- ★ Earth Structure
- ★ Electrochemistry
- ★ Fermentation Microbiology
- ★ Geophysics and Geochemistry
- ★ Heavy Element Chemistry
- ★ Instrumentation Development
- ★ Intermetallic Alloys
- ★ Magnetism and Magnetic Materials
- ★ Materials Physics and Chemistry
- ★ Metals Forming
- ★ Materials Welding and Joining
- ★ Metallurgy
- ★ Mineral Reactions
- ★ Organometallic Chemistry
- ★ Photochemistry
- ★ Photosynthetic Mechanisms
- ★ Plant and Microbial Sciences
- ★ Plant Genomics
- ★ Polymer Science
- ★ Process Engineering
- ★ Radiation Effects
- ★ Robotics and Control Systems
- ★ Rock Deformation
- ★ Rock-Fluid Dynamics
- ★ Separations Science
- ★ Solar Energy Conversion
- ★ Solid Dynamics
- ★ Solid State Physics and Chemistry
- ★ Structural Characterization
- ★ Superconductivity
- ★ Surface Science
- ★ Synthesis and Processing Science
- ★ Thermophysical Properties

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Examples of PIs Currently Supported by BES in Fundamental Research Areas That Underpin Electrochemical Technologies

Bates (ORNL)

Angell (ASM)

Licht (Clark)

MacDonald (Penn State)

Ocko (BNL)

Ross (LBNL)

McBreen (BNL)

Smyrl (Minn)

Maroni, Nagy, Melendres (ANL)

Tuller (MIT)

Fultz (Cal Tech)

Halley (Minn)

Opportunities

More Information

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[BES](#)

- [Abstracts of all National Lab, University, Industry Projects](#)
- [Request for Proposals](#)

[PAIR](#)

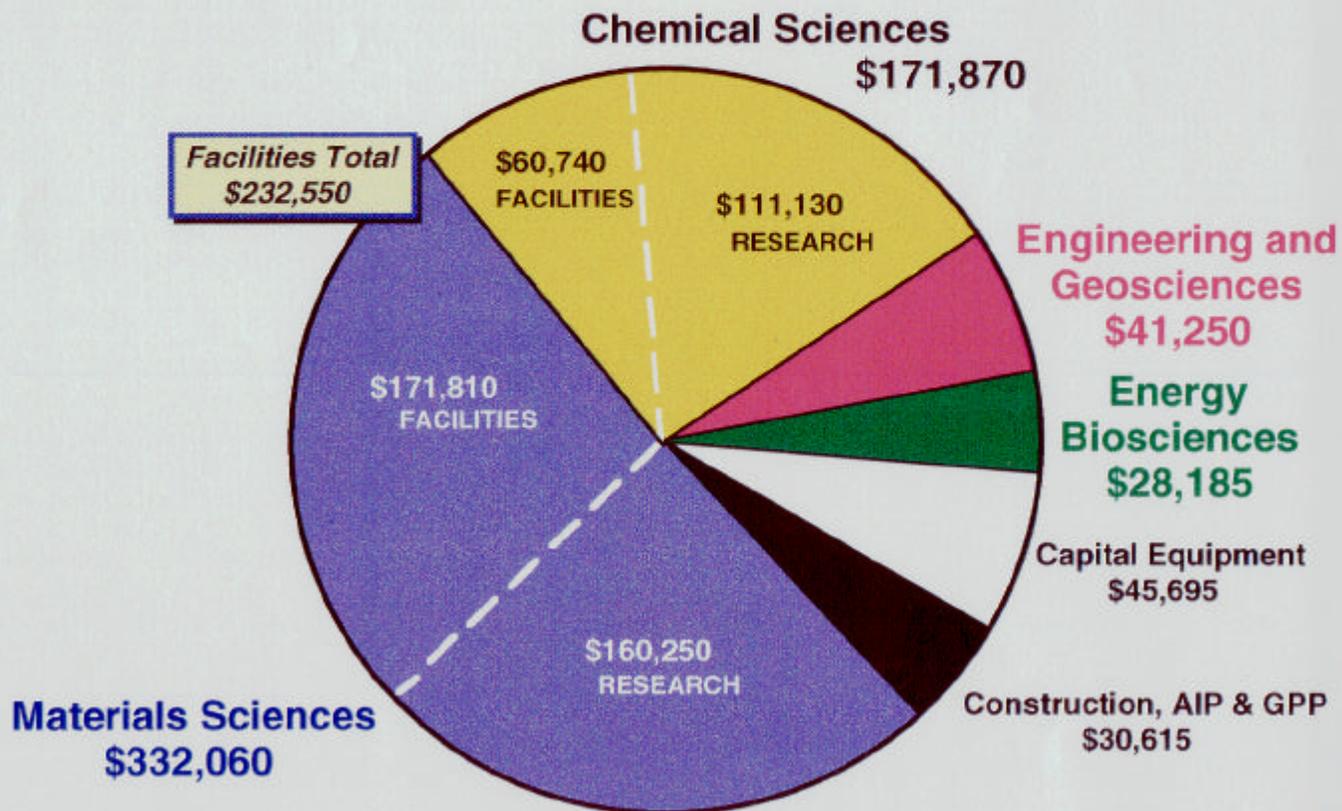
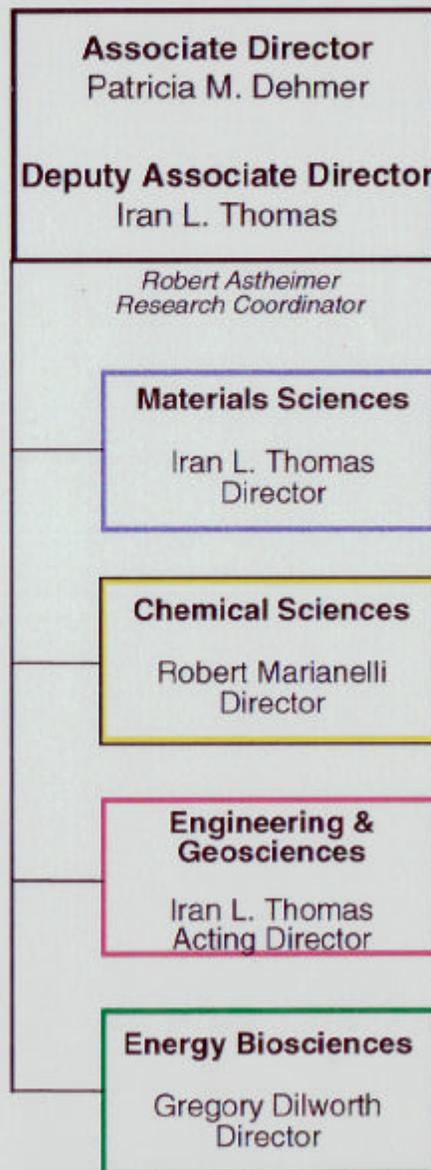
- [Partnership for Academic-Industry Research](#)
- [Preproposal Deadline October 1, 1997](#)

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**FY 1997
Budget Appropriation
\$649,675**

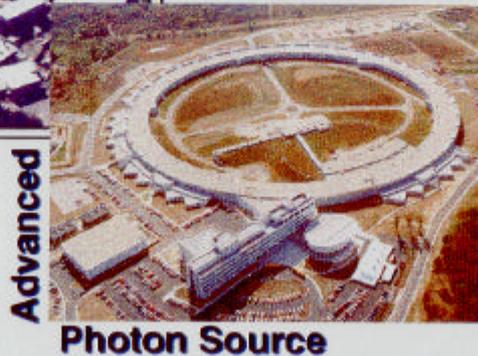
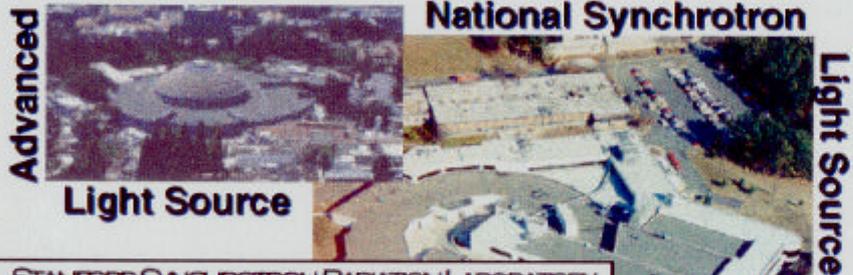




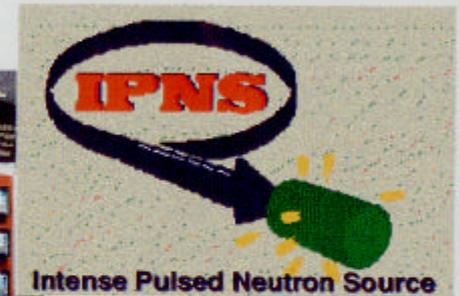
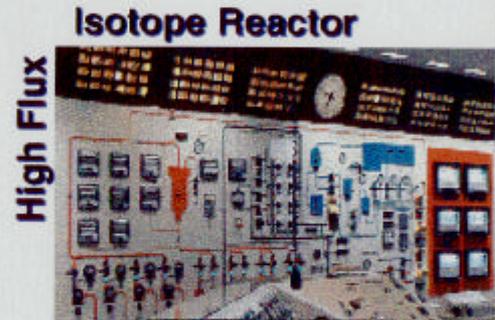
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Scientific User Facilities

Light Sources



Neutron Sources



LANSCE High Flux

Combustion Research Facility



And...