



Photo courtesy of Elizabeth D'Addio

Why should you consider this REU site?

- ✓ Summer research at a top chemical engineering department
- ✓ Stimulating research environment
- ✓ Broad variety of cutting-edge research projects
- ✓ Exciting location close to Baltimore, Delaware beaches, Philadelphia
- ✓ On-campus housing provided
- ✓ Competitive stipend of \$4,600
- ✓ Travel allowance of up to \$600



150 Academy Street
University of Delaware
Newark, DE 19716
Phone: (302) 831-2543
Fax: (302) 831-1048

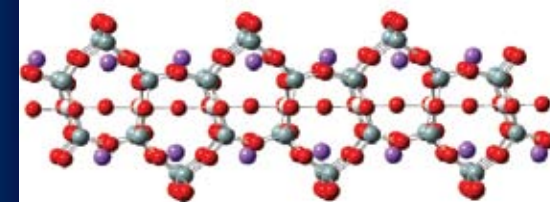
WWW.CHE.UDEL.EDU/REU



The University of Delaware is committed to assuring equal opportunity to all persons and does not discriminate on the basis of race, creed, color, gender, age, religion, national origin, veteran or handicapped status, or sexual orientation in its educational programs, activities, admissions or employment practices as required by Title IX of the Educational Amendments of 1972, Section 504 of the Rehabilitation Act of 1973, Title VII of the Civil Rights Act of 1964, and other applicable statutes. Inquiries concerning Section 504 compliance and information regarding campus accessibility should be referred to the Americans with Disabilities Act (ADA) Coordinator, 831-4643, located at 413 Academy Street. Inquiries concerning Title VII and Title IX should be referred to the Office of the Assistant Vice President for Affirmative Action, 831-8735, located at 124 Hulliher Hall.

Chemical Engineering
University of Delaware

Undergraduate Research in Energy and Sustainability



NSF-REU
June 7-August 12
2010



NSF-REU Summer Research



PROFILE

This NSF-REU site provides a unique summer research experience in energy-related research topics.

Research in alternative energies is a key theme in engineering and will remain at the top of national research priorities for quite some time. The chemical engineering profession is in an exceptional position to tackle the energy-related challenges of the 21st century.

Faculty members in energy-related research areas, ranging from heterogeneous catalysis to novel nanomaterials for energy reduction, offer exciting projects for the participants.

We also offer visits to local companies involved in energy-related research (fuel cells, hydrocarbon processing, biofuels) and to energy research facilities on campus as well as brown bag lunches, informal seminars, poster sessions, and many social activities.

FACULTY PARTICIPANTS

- ◆ Thomas H. Epps, III (Director)
- ◆ Jochen A. Lauterbach (Director)
- ◆ Antony N. Beris
- ◆ Douglas J. Buttrey
- ◆ Jingguang G. Chen
- ◆ Eric M. Furst
- ◆ Michael E. Mackay
- ◆ Annette D. Shine
- ◆ Norman J. Wagner
- ◆ Richard P. Wool

STUDENT ACTIVITIES

Day Trips:

- ✓ GE Solar
- ✓ Air Liquide
- ✓ ExxonMobil
- ✓ DuPont

Workshops:

- ✓ Communication and Presentation Skills
- ✓ Ethics
- ✓ Solar Hydrogen IGERT Conference
- ✓ Brown Bag Lunches with Graduate Students
 - ◆ Research Overviews
 - ◆ Experiences at UD

RESEARCH PROJECTS

This REU site offers a choice of exciting research projects in the following energy related areas:

- ✓ Biomass conversion to fuels
- ✓ Fuel cell materials
- ✓ Hydrogen generation and storage
- ✓ Novel catalytic materials
- ✓ Modeling of drag reducing agents
- ✓ Nanostructured conducting membranes
- ✓ Materials for enhanced solar energy collection
- ✓ Directed self-assembly of photonic nanomaterials



UNIVERSITY OF DELAWARE
Chemical Engineering

150 Academy Street
University of Delaware
Newark, DE 19716
Phone: (302) 831-2543
Fax: (302) 831-1048

Application deadline: March 1, 2010

U.S. Citizenship or Permanent Residency is required.

Email: cheg-reu@udel.edu

Visit: www.che.udel.edu/reu