

RESEARCH GRANTS AND FELLOWSHIPS

Active or Awarded During 2007-08

(Acronyms are defined at the end of this document)

AMERICAN CHEMICAL SOCIETY/PETROLEUM RESEARCH FUND

Huang, Tina (Chemistry) Summer Research Fellowship
"Theoretical Investigation of Ionomeric Polymer-Nanotube Composites as Novel Materials for Solar Energy Applications"

Miles, William (Chemistry)
"The Furan Approach to the A-ring of Vitamin D Analogues"

Nataro, Chip (Chemistry)
"Compounds of bidentate phosphines with metallocene backbones: electrochemistry and catalysis"

Tavakoli, Javad (Chemical and Biomolecular Engineering)
"Mechanistic Study of Methanol Oxidation to Dimethoxymethane over Supported multi-Component Metal Oxide Catalysts"

AMERICAN INSTITUTE OF CHEMICAL ENGINEERS

Jones, Sharon (Civil and Environmental Engineering)
Tavakoli, Javad (Chemical and Biomolecular Engineering)
Support for Student Research

BIBLIOGRAPHICAL SOCIETY OF AMERICA

Duhl, Olga Anna (Foreign Languages and Literatures)
Folter Fellowship - "A Critical Edition of La Nef des folles"

BRISTOL-MYERS SQUIBB

Miles, William (Chemistry)
"The Reactions of γ -Hydroxybutenolides with Carbon Nucleophiles"

JOHN CARTER BROWN LIBRARY

Galarza-Sepulveda, Denise (Foreign Languages and Literatures) Summer Fellowship
"Luxury Goods and Immigrant Evils: The Economics of Eighteenth-Century Nationalism"

CANADIAN GOVERNMENT

Byrd, Deborah (English)

"Multinational Empowerment Programming for Young and Low-Income Mothers"

CORPORATION FOR NATIONAL AND COMMUNITY SERVICE

Kimber, Chawne (Mathematics)

Shulman, David (Anthropology and Sociology)

"National Community-based Research Networking Project" (subcontract from Princeton)

KATHYRN WASSERMAN DAVIS FOUNDATION

Hutchinson, Gladstone (Economics and Business)

Student Chapter, Engineers Without Borders, 100 Projects for Peace - "Entrepreneurial Economic Development, Self-Agency, and Sustainable Peace in Rural Honduras"

Bauer, Dam (Anthropology and Sociology)

Student Project, 100 Projects for Peace - "Politics through Art in Kenya"

CAMILLE AND HENRY DREYFUS FOUNDATION

Husic, David (Chemistry)

Special Initiatives Grant - "Establishment of a Consortium for Educational and Research Opportunities in the Chemical and Molecular Aspects of Plant Science"

Sherma, Joseph (Professor Emeritus, Chemistry)

Senior Scientist Mentor Initiative Grant #3: "Interdisciplinary Analytical Chemistry-Biology Research"

ENVIRON FOUNDATION

Kney, Arthur (Civil and Environmental Engineering)

"Society for Environmental Engineering and Scientists"

FORUM OF FEDERATIONS

Kincaid, John (Government and Law)

"A Global Dialogue on Federalism #2"

Kincaid, John (Government and Law)

"Global Dialogues Conference"

FULBRIGHT COMMISSION

Corvino, Justin (Mathematics) Research Fellowship to Sweden

Lamb-Faffelberger, Margarete (Foreign Languages and Literatures)
Teaching Assistant in Chinese

FLORENCE GOULD FOUNDATION

Lalande, Roxanne (Foreign Languages and Literatures)
Grant to host the annual North American Society for 17th Century French Literature Conference

JOHN SIMON GUGGENHEIM MEMORIAL FOUNDATION

Bodenhorn, Howard (Economics and Business) Fellowship

ISAAC NEWTON INSTITUTE FOR MATHEMATICAL SCIENCES

Gordon, Gary (Mathematics) Visiting Fellowship

McMahon, Elizabeth (Mathematics) Visiting Fellowship

EWING MARION KAUFFMAN FOUNDATION

Bodenhorn, Howard (Economics and Business)
"African American Entrepreneurship in the Mid-Nineteenth Century South"

KECK GEOLOGY CONSORTIUM

Sunderlin, David (Geology and Environmental Geosciences)
Summer Research in Alaska

CHRISTIAN R. AND MARY F. LINDBACK FOUNDATION

Suleiman, Muhannad (Civil and Environmental Engineering)
"Sustainable and Green Pavement Systems"

NATIONAL ENDOWMENT FOR THE HUMANITIES

Barclay, Paul (History) Fellowship

"Imperial Centrifuge: Japan's Colonial Subalterns and the Indigenous Peoples of Taiwan, 1873-1930"

Sanborn, Joshua (History) Fellowship

"Life in the Killing Zone: Soldiers, Civilians, and the Ecosystems of War in Russia, 1914-1918"

NATIONAL INSTITUTES OF HEALTH

Bookwala, Jamila (Psychology)

"Parent Care Transitions, Marital Relationships, and Health Outcomes"

Kurt, Robert (Biology)

Academic Research Enhancement Award - "Tumor-derived CCL5 and Breast Cancer Metastasis"

NATIONAL SCIENCE FOUNDATION

Caslake, Laurie (Biology)

Research Opportunity Award for work at the Arizona State University

"Microbial Distributions in North American Biological Soil Crusts: Exploring the Great Divide"

Caslake, Laurie (Biology)

Roth, Mary (Civil and Environmental Engineering)

"Biological Improvement of Sands for Liquefaction Prevention and Damage Mitigation"

(subcontract from the University of California at Davis)

Corvino, Justin (Mathematics)

"RUI: Problems in Geometric Analysis and General Relativity"

Corvino, Justin (Mathematics)

"REU Supplement: RUI: Problems in Geometric Analysis and General Relativity"

Ferri, James (Chemical and Biomolecular Engineering)

"RUI: Physicochemical Mechanics in Nanostructured Soft Surface Materials"

Gordon, Gary (Mathematics)

"REU: Undergraduate Research in Mathematics at Lafayette College"

Gordon, Gary (Mathematics)

"REU Supplement: Undergraduate Research in Mathematics at Lafayette College"

Hovis, Guy (Geology and Environmental Geosciences)

"RUI: Energies of Mineral, Rock, and Magma Processes"

Huang, Tina (Chemistry)

Ferri, James (Chemical and Biomolecular Engineering)

"MRI: Acquisition of Instrumentation for Undergraduate Research and Education in Nanoscale Surface Science"

Jemison, William (Electrical and Computer Engineering)

Wey, Todd (Electrical and Computer Engineering)

Kortyna, Andrew (Physics)

"MRI: Acquisition of Signal Analysis Equipment for High Frequency Electrical and Optical Research"

Kortyna, Andrew (Physics)

"RUI: Cold Collisions of Highly Excited Atoms - Orientation, Alignment, and Velocity Effects on Associative Ionization at Low Collision Energies"

Kortyna, Andrew (Physics)

"RUI: Closing the gap between hot and cold collisions - orientation, alignment, and velocity effects on associative ionization of state-selected atoms in a single beam"

Kortyna, Andrew (Physics)

"REU Supplement: RUI: Closing the gap between hot and cold collisions - orientation, alignment, and velocity effects on associative ionization of state-selected atoms in a single beam"

Kurtz, Stephen (Civil and Environmental Engineering)

Helm, Jeffrey (Mechanical Engineering)

Nesbit, Steven (Mechanical Engineering)

Root, Robert (Mathematics)

Saliklis, Edmond (former faculty member, Civil and Environmental Engineering)

"MRI: Acquisition of Instrumentation for Integrated Structural Testing and Digital Image Correlation Laboratory"

Lawrence, Kira (Geology and Environmental Geosciences)

"Collaborative Research: High latitude temperature and biological responses to Plio-Pleistocene global change" (collaborative project with Brown University which received a separate award)

Liew, Chun Wai (Computer Science)

Computer and Information Science and Engineering Pathways to Revitalized Undergraduate Computing Transformation Grant (CPATH-T)

"CPATH-T: Campus Wide Computation Initiative - A New Model for Computing Education" (collaborative project with Union College which received a separate award)

Mylon, Steven (Chemistry)

Kney, Arthur (Civil and Environmental Engineering)

Caslake, Laurie (Biology)

Tavakoli, Javad (Chemical and Biomolecular Engineering)

"RUI: An Innovative Hybrid Technology for the Removal and Destruction of Perchlorate from Aqueous Systems Using Polymeric Ligand Exchange Technology and a Packed Bed Bio-Reactor"

Mylon, Steven (Chemistry)

Darcy, Patricia (Chemical and Biomolecular Engineering)

Ferri, James (Chemical and Biomolecular Engineering)

"MRI: Acquisition of Instruments to Enhance Undergraduate Research Opportunities in Colloidal and Complex Fluid Science"

Mylon, Steven (Chemistry)

"RUI/International Research and Education in Engineering: An Innovative Hybrid Technology for the Removal and Destruction of Perchlorate from Aqueous Systems Using Polymeric Ligand Exchange Technology and a Packed Bed Bio-Reactor"

Ospina-Giraldo, Manuel (Biology)

"Phytophthora sojae: A High Quality Reference Sequence for the Oomycetes"
(subcontract from Virginia Tech)

Raich, Anne (Civil and Environmental Engineering)

"CAREER: Enhancing Conceptual Design Using Multi-Objective, Dynamically Encoded Genetic Algorithms to Optimize Structural Topology, Geometry, and Size"

Root, Robert (Mathematics)

Liew, Chun Wai (Computer Science)

"Biomimetic Evolutionary Analysis: The Origin of Vertebrae via Computational and Robotic Simulations of Fish" (subcontract from Vassar College)

Rossmann, Jennifer (Mechanical Engineering)

"MRI: Acquisition of High-Speed Camera and Instrumentation for Flow Visualization and Measurement"

Rossmann, Jennifer (Mechanical Engineering)

"MRI: Acquisition of PIV System for Study of Biological Flows"

Roth, Mary (Civil and Environmental Engineering)

"Reliability Assessment of the Serviceability Performance of Geotechnical Structures Using Neural Networks" (subcontract from Clemson University)

Ruebeck, Christopher (Economics and Business)

Jones, Sharon (Civil and Environmental Engineering)

Pfaffmann, Jeffrey (Computer Science)

"RUI: Decision Making, Risk and Uncertainty: Integrating Agent-Based Modeling and Life Cycle Analyses to Enhance Environmental Policy-Making"

Ruggles, Roger (Civil and Environmental Engineering)

Invited Participant because of NSF-funded REU in Uganda

"Workshop on Globalizing Engineering Education: Lessons Learned from African and US Partnerships"

Tavakoli, Javad (Chemical and Biomolecular Engineering)
Morton, Samuel (Chemical and Biomolecular Engineering)
Piergiovanni, Polly (Chemical and Biomolecular Engineering)
"MRI: Acquisition of Instruments to Establish and Promote a Green Engineering Program at Lafayette College"

NAZARETH, PA BORO

Kney, Arthur (Civil and Environmental Engineering)
Support for Biosolids Research

PENNSYLVANIA DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES

Brandes, David (Civil and Environmental Engineering)
"*FlightPath*: A Computer Program for Simulating Potential risk of Wind Power Sites to Migrating Raptors in Pennsylvania"

Malinconico, Lawrence (Geology and Environmental Geosciences)
"Geophysical Mapping of Pennsylvania" (subcontract from Penn State University)

PRINCETON UNIVERSITY

Jones, Sharon (Civil and Environmental Engineering)
Woodrow Wilson School of Public and International Affairs Visiting Research Fellowship

SAGE PUBLICATIONS

Kincaid, John (Government and Law)
Support for Publications

US DEPARTMENT OF AGRICULTURE/FOREST SERVICE

Germanoski, Dru (Geology and Environmental Geosciences)
"Geomorphic, Hydrologic, and Vegetation Interactions Related to Meadow Complexes in the Central Great Basin – Implications for Restoration: Phase 4"

Germanoski, Dru (Geology and Environmental Geosciences)
"Geomorphic, Hydrologic, and Vegetation Interactions Related to Meadow Complexes in the Central Great Basin – Implications for Restoration: Phase 5"

Germanoski, Dru (Geology and Environmental Geosciences)
"Geomorphic, Hydrologic, and Vegetation Interactions Related to Meadow Complexes in the Central Great Basin – Implications for Restoration: Phase 6"

US DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT

Bookwala, Jamila (Psychology)
Crain, Mark (Economics and Business)
Kincaid, John (Government and Law)
Shulman, David (Anthropology and Sociology)
HOPE VI Grant (subcontract from the Easton Housing Authority)

US DEPARTMENT OF THE INTERIOR/NATIONAL PARKS SERVICE

Sunderlin, David (Geology and Environmental Geosciences)
Fellowship

US DEPARTMENT OF TRANSPORTATION/SUN GRANT

Morton, Samuel (Chemical and Biomolecular Engineering)
"Enzymatic and Multiphase Solution Processing of Lignocel"
(subcontract from Florida A&M University)

US ENVIRONMENTAL PROTECTION AGENCY

Jones, Sharon (Civil and Environmental Engineering)
Brandes, David (Civil and Environmental Engineering)
Student Chapter, Engineers Without Borders - "Community Oriented Design and Evaluation for Sustainable Infrastructure"

Jones, Sharon (Civil and Environmental Engineering)
Hutchinson, Gladstone (Economics and Business)
Student Chapter, Engineers Without Borders - "CODE-PSI to Promote Sustainable Systems in Honduras"

VERMITECH

Kney, Arthur (Civil and Environmental Engineering)
Support for Student Research

Kney, Arthur (Civil and Environmental Engineering)
Support for Biosolids Research

VON HUMBOLDT FOUNDATION (MAX-PLANCK INSTITUTE)

Ferri, James (Chemical and Biomolecular Engineering) Fellowship

C-RUI – Collaborative Research at Undergraduate Institutions

MRI - Major Research Instrumentation

REU – Research Experiences for Undergraduates

RUI – Research at Undergraduate Institutions (Note: Proposals with RUI designations compete against proposals from research institutions. Proposals are judged first and foremost on scientific merit. The RUI designation is a reminder to reviewers that the pace of the research may be slower at an undergraduate institution because of the heavier teaching load and the lack of graduate student assistance.)