

SPONSORED PROGRAMS and RESEARCH
Award Activity - March 2003

Business, Moore School of

Business Administration - Division of Research

Schunk, Donald

Economic Update - (JA06) **\$12,500**
USCRF/The South Financial Group

Education, College of

Instruction & Teacher Education

Battle-Bailey, Lora

*Increasing Second and Third Grade Teachers' Mathematics Knowledge using
Standards-Based Instructional Strategies and Homework - (GJ04)* **\$77,591**
SC Commission on Higher Education

Freeman, Nancy

*Model Outdoor Learning Environment at the USC/Gateway Child Development
Center - (FL10)* **\$199,999**
SC Department of Health & Human Services/HHS

Stephens, Diane

*The South Carolina Research Initiative: Impact on the Reading Skills and
Strategies of Children in Grades K-5 and on Teacher's Reading Beliefs and
Practices - (FA01)* **\$187,659**
US Department of Education (USDE) - General

Office of Program Evaluation

Seaman, Michael

Evaluation of Arts Participation Initiative - (GA00) **\$20,000**
SC Arts Commission

Teacher Quality Enhancement Project Evaluation - (FA00) **\$49,725**
SC Department of Education/USDE

Engineering & Information Technology, College of

Chemical Engineering

Amiridis, Michael

Van Zee, John

REU Site: Chemical Engineering Research in Japan - (FA30) **\$174,600**
USCRF/National Science Foundation (NSF) - General

Balbuena, Perla

Modeling Lithium-Ion Conducting - (FA23) **\$20,000**
USCRF/University of Dayton Research Institute/DOD

Chemical Engineering

Ploehn, Harry

Modeling Efforts for the Advanced Alternate Power Source - (FA28) **\$200,000**
USCRF/US Government (USG) - General

Ritter, James

International Travel: Third Pacific Basin Conference of Adsorption Science and Technology - (FA29) **\$15,000**
USCRF/National Science Foundation (NSF) - General

Van Zee, John

I/UCRC for Fuel Cells Center Management - (KA07) **\$88,000**
USCRF/USC Research Foundation

The Effects of Reformate Components and Impurities on MEA Performance - (JA25) **\$120,000**
USCRF/W. L. Gore & Associates

Civil & Environmental Engineering

Rizos, Dimitris

Structural Evaluation and Monitoring of HPS 70W Steel Bridge - (FA18) **\$172,806**
SC Department of Transportation/DOT

Computer Science & Engineering

Cameron, Kirk

Utilization of Aggregate Network Load Modules for High Performance Computing Applications - (JA01) **\$51,204**
USCRF/Ixia

Clarke, Duncan

Testing Based on Hybrid System Model - (FA13) **\$15,000**
USCRF/University of Pennsylvania/NSF

Electrical Engineering

Dougal, Roger

USC Participants in Electric Ship Research and Development Consortium - (FA17) **\$965,043**
USCRF/Florida State University/ONR/DOD

Huhns, Michael

Research Allocation in Dynamic Uncertain Domains - (F168) **\$50,001**
Air Force Research Laboratory/DARPA/DOD

Seminario, Jorge

Nanocell Approach to a Molecular Computer - (FA04) **\$118,160**
USCRF/Rice University/DARPA/DOD

Electrical Engineering

Sudarshan, Tangali

Silicon Carbide: Material Characterization, Epitaxy, and Device Fabrication and Testing - (FA23) **\$1,467,906**
USCRF/Office of Naval Research (ONR)/DOD

Engineering & Information Technology, College of

White, Ralph

SCUREF Project #16 Distinguished Scientist - (FA02) **\$31,250**
SC Universities Research & Education Foundation (SCUREF)/WSRC/DOE

Mechanical Engineering

Chao, Yuh

Refinement of Constraint-Based Fracture Toughness Model to Include Shallow Cracks - (FA29) **\$8,525**
SC Universities Research and Education Foundation (SCUREF)/WSRC/DOE

McNeill, Stephen

Characterization and Model Assessment for Impact Damage Evolution in Functionally Graded Composites Using a Novel Nano-Second 3D Deformation Measurement System - (FA25) **\$80,000**
USCRF/Department of the Army/DOD

English Program for Internationals

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Rowe, J. Alexandra

Professional Development Seminar for Teachers from Kazakhstan and Russia and Celebrating Teaching Excellence Across Cultures - (FJ02) **\$280,140**
USCRF/American Councils for International Education/DOS

Environment, School of the

Environment, School of the

Herren, LeAnn

Fixed Price Task Contract Between Industrial Ecology and the SC Manufacturing Extension Program - (GL00) **\$20,000**
SC Manufacturing Extension Program/CHE

Families in Society, Institute for

Families in Society, Institute for

Floyd, Anita

Contract to Amend the S.C. Analysis of Impediments to Fair Housing Report - (FA16) **\$3,000**
SC Department of Commerce/HUD

Hess, Peg

Technical Assistance to Northwest Crescent Center - (KL04) **\$5,000**
USCRF/Furman University/Duke Endowment

Liberal Arts, College of

History

Chesnutt, David

The Papers of Henry Laurens - (FA02) **\$10,384**
National Historical Publications & Records Commission

Psychology

Flaspohler, Paul

Daily Challenges and Coping-Competence - (FA17) **\$1,812**
USCRF/National Institute of Mental Health (NIMH)/NIH

Kelly, Sandra

Alcohol Exposure, Social Behavior and Development - (FA06) **\$290,667**
USCRF/National Institute on Alcohol Abuse & Alcoholism (NIAAA)/NIH

Mendez, Julia

Companion Curriculum: Connecting Head Start Parents and Teachers to Promote Early Learning - (FA02) **\$250,000**
Administration for Children & Families (ACF)/HHS

Wandersman, Abraham

Formative and Summative Evaluation of SC EPSCoR and BRIN Grants - (GA01) **\$20,000**
SC Research Authority

Public Service & Policy Research, Institute for

Oldendick, Robert

Expanding Health Care Coverage and Stabilizing Rates within South Carolina - (FA10) **\$142,048**
SC Department of Insurance/HRSA/HHS

Performance Outcomes Measures Project - IV - (FL08) **\$70,275**
SC Department of Health & Human Services

South Carolina Trails Survey - (GL09) **\$37,246**
SC Parks, Recreation & Tourism

Sociology

Simpson, Brent

Gender and Cooperation in Social Dilemmas - (FA03) **\$58,333**
USCRF/National Science Foundation (NSF) - General

Southern Studies, Institute for

Edgar, Walter

South Carolina Encyclopedia Project - (KA00) **\$95,957**
SC Humanities Council

Mass Communications & Information Studies, College of
Journalism & Mass Communications, School of
Bierbauer, Charles

Strategic Communications Course - (FL19) **\$131,461**
USCRF/Social Security Administration (SSA) - General

Medicine, School of
Basic Science Research
Allen, Dennis

BRIM-SOM Equipment - (FA02) **\$90,000**
USCRF/National Center for Research Resources (NCRR)/NIH

Family & Preventive Medicine
McDermott, Suzanne

State Implementation Projects for Preventing Secondary Conditions - (FL04) **\$398,807**
USCRF/Centers for Disease Control (CDC)/HHS

STEPS to Your Health - (GL03) **\$15,000**
SC Department of Disabilities & Special Needs

Internal Medicine
Bryan, Charles

Midlands Care Consortium - SC ADAP Insurance Funding - (FL12) **\$50,000**
SC Department of Health & Environmental Control/HHS

Midlands Care Consortium-Ryan White Base Funds - (FL10) **\$1,698,345**
SC Department of Health & Environmental Control/HHS

Midlands Care Consortium-Ryan White Emerging Communities Fund - (FL11) **\$231,136**
SC Department of Health & Environmental Control/HHS

Ophthalmology
Pakalnis, V. Al

*Protein Kinase C Beta Inhibitor - Diabetic Retinopathy Study 2 (PKC-DRS2) A
Phase 3 Clinical Trial - (JA00)* **\$10,373**
USCRF/Parexel

Pathology
Creek, Kim

HPIV16-Induced TGF-Beta Resistance in Human Keratinocytes - (FA02) **\$258,100**
USCRF/National Cancer Institute (NCI)/NIH

Pathology & Microbiology
Fox, Alvin

Source of Chemical Markers for Bacteria in Indoor Air - (JA00) **\$274,359**
Philip Morris USA

Pathology & Microbiology

Ghaffar, Abdul

Novel Cellular and Small Animal Models to Selectively Screen for Functional Food and Dietary Supplements Which Delay Fatigue and Enhance Physical Stamina and Mental Alertness - (FA01) **\$10,000**
USCRF/Clemson University/DOD

Pediatrics/Developmental Disabilities, Center for

Kotchmar, George

SC DHEC Division of STD/HIV - (FL16) **\$28,324**
SC Department of Health & Environmental Control/HHS

Lamb, Lawrence

A Centralized Laboratory for CD34+ and CD3+ Enumeration for a Clinical Trial of T-Cell Inactivation for Unrelated Donor Transplants Phase I - (FA03) **\$9,072**
National Marrow Donor Program/ONR/DOD

Schwartz, I. David

Basal/Bolus Therapy with Insulin Aspart - (JA01) **\$5,937**
USCRF/Novo Nordisk

Pharmacology, Physiology & Neuroscience

Wolf, Matthew

Mechanism of Taxotere-Induced Endothelial Barrier Dysfunction - (JA01) **\$51,563**
USCRF/Aventis Pharmaceuticals

Research & Special Projects

Faulkner, Larry

The Dean's Rural Primary Care Clerkship - (K208) **\$38,450**
The Duke Endowment

Fowler, Stanley

Eastover Telemedicine Project-Matching Funds - (KQ03) **\$30,016**
Richland County Health Care Association

Surgery

Yost, Michael

Tissue Engineered Artificial Myocardium - (FA00) **\$139,644**
National Heart, Lung & Blood Institute (NHLBI)/NIH

Nursing, College of

Family & Community Health Nursing

Andrews, Jeannette

Sister to Sister: Helping Low-Income Women Quit Smoking - (FA00) **\$1,182**
USCRF/National Institute of Nursing Research (NINR)/NIH

Pharmacy, College of

Basic Pharmaceutical Sciences

Wyatt, Michael

Effect of Dietary Components on DNA Repair - (FA07) **\$70,464**
USCRF/National Cancer Institute(NCI)/NIH

Pharmacy & Health Outcomes Sci.

Dickson, W. Michael

Analysis of SC Medicaid Schizophrenia Data - (JA04) **\$35,000**
USCRF/CareScience

Public Health, Norman J. Arnold School of

Communication Sciences & Disorders

Healy, Eric

Speech Perception by Normal and Impaired Listeners - (FA00) **\$72,667**
USCRF/National Institute of Child Health & Human Development (NICHD)/NIH

Environmental Health Sciences

Bernhard, Joan

Exploration of Eukaryotic Microbes in Sulfide-Enriched Sediments at Redox Boundaries in the Black Sea - (FA51) **\$14,945**
USCRF/National Science Foundation (NSF) - General

Newman, Lee

Phytoremediation - (FA33) **\$21,000**
USCRF/University of Washington/NIH

Epidemiology & Biostatistics

Mayer-Davis, Elizabeth

Defining Diabetes in Youth: South Carolina Site - (FA29) **\$28,744**
USCRF/University of Colorado/NIH

Weinrich, Sally

Collaborative Recruitment Centers for African American Hereditary Prostate Cancer - (F101) **\$30,000**
Wayne State University/Howard University/NIH

Exercise Science

Davis, J. Mark

Carbohydrates Electrolyte Drinks for Fluid Replacement During and After Exercise - (J120) **\$50,000**
Quaker Oats Company

Pate, Russell

Promotion of Physical Activity in High School Girls - (FA12) **\$684,922**
USCRF/National Heart, Lung & Blood Institute (NHLBI)/NIH

Health Promotion, Education & Behavior

Richter, Donna

GA: SC Campaign to Prevent Teen Pregnancy - (KPI2) **\$3,884**
SC Campaign to Prevent Teen Pregnancy

Valois, Robert

Youth Risk Behavior Survey - (FA20) **\$21,515**
SC Department of Education/HHS

Health Services & Policy Research, Center for

Murday, David

Children's Access to Primary Care - (KA02) **\$20,105**
USCRF/The Duke Endowment

Public Health, Norman J. Arnold School of - (Dean)

Hebert, James

Hurley, Thomas

*Dietary Assessment-Randomized Trial of Sevelamer Hydrochloride in Chronic
Kidney Disease Patients - (JA00)* **\$40,500**
USCRF/GelTex Pharmaceuticals, Inc.

Regional and Four-Year Campuses

USC Aiken

Casdorph, Michael

Ubiquitous Campus Computing - (GQ00) **\$798,000**
SC Commission on Higher Education

Farmer, James

Pikens Salley Symposium on Southern Womens' History - (FL17) **\$1,200**
SC Humanities Council/NEH

Priest, Jeffrey

*USC Aiken/USC Salkehatchie/Aiken Technical College Partnership to Prepare
Paraprofessionals for Education Careers - (FL16)* **\$79,844**
SC Commission on Higher Education/USDE

Weed, Keri

Evaluation of Youth Violence Prevention Cooperative Agreement - (FA12) **\$15,725**
The Mental Health Association of Aiken County/NIH

USC Beaufort

Meeks, Lila

Network Infrastructure to Support Increased Technology Use - (GL04) **\$657,179**
SC Commission on Higher Education

USC Spartanburg

Charles, James

Middle Level Teacher Education Initiative Grant - (GJ04) **\$5,000**
SC Education Oversight Committee

USC Spartanburg

Ferrell, Jim

Palmetto Professorship - (K128) **\$5,000**
Carolina Piedmont Foundation

Research, Vice President for

NanoCenter

Murphy, Catherine

zur Loye, Hans-Conrad

REU Site: Undergraduate Research in Nonoscience - (FA15) **\$59,612**
USCRF/National Science Foundation (NSF) - General

Prozorov, Ruslan

*Summer Research Fellowship - Using Ferromagnetic Nanoparticles to Increase
Critical Currents in Type II Superconductors - (KA05)* **\$8,000**
USCRF/American Chemical Society

Science and Mathematics, College of

Baruch Institute

Morris, James

Coastal Wetland Indicators - (FA41) **\$245,571**
USCRF/University of North Carolina/EPA

Staton, Joseph

*Development of a Cross-Linked Copepod Life-cycle and Molecular-genetic Assay
for Examining Exposures and Effects to Coastal Use Insecticides - (FA42)* **\$52,118**
SC Sea Grant Consortium/NOAA

Biological Sciences

Brodie, Renae

*CAREER: Colonizing Land Via the Estuarine Route: Ontogeny of
Osmoregulation and Settlement Behaviors in Brackish Water Fidler Crabs -
(FA50)* **\$121,370**
USCRF/National Science Foundation (NSF) - General

Dewey, Michael

Holladay, John

*Taxotere and Paclitaxel Disposition, Antitumor Activity and Hematopoietic
Toxicity as a Function of Elevated Serum Alpha-1 Acid Glycoprotein - (JA00)* **\$13,824**
USCRF/Aventis Pharmaceuticals

Felder, Michael

Alcohol Metabolism Genes in Transgenic Mice - (FA44) **\$308,571**
USCRF/National Institute on Alcohol Abuse and Alcoholism (NIAAA)/NIH

Higgins, Kevin

*CAREER: The Assessment of Extinction Risk from Deleterious Mutation, Habitat
Fragmentation, and Environmental Change - (FA51)* **\$630,000**
USCRF/National Science Foundation (NSF) - General

Biological Sciences

Patel, Rekha

Regulation of Smooth Muscle Proliferation - (F198) **\$216,750**
National Heart, Lung & Blood Institute (NHLBI)/NIH

Vance, Vicki

Bowman, Lewis

Regulation of Post-Transcriptional Gene Silencing - (FA09) **\$209,525**
National Institute of General Medical Sciences (NIGMS)/NIH

Chemistry & Biochemistry

Bryson, Thomas

A.P. Sloan Foundation Recruiting Support for Chemistry and Biochemistry - (KJ00) **\$2,000**
Alfred P. Sloan Foundation

Bunz, Uwe

ADIMET: A Tool for the Synthesis of Alkyne-Briged Polymers - (FA18) **\$10,000**
USCRF/National Science Foundation (NSF) - General

Sugar-Coated PPEs, Novel Nanomaterials and Sensing Modules for Disease and Bioterrorism Related Threats - (FA37) **\$99,586**
USCRF/US Department of Energy (DOE) - General

Dawson, John

Editing: Journal of Inorganic Biochemistry - (J400) **\$5,668**
Elsevier Science, Inc.

Kistler, W. Stephen

Role of Specific Proteins in Spermatogenesis - (F173) **\$72,750**
National Institute of Child Health & Human Development (NICHD)/NIH

Myrick, Michael

Development of Prototypes of Multivariate Optical Imaging Systems for Packaging Adulterants - (JA03) **\$374,997**
USCRF/Detect-X, Incorporated

Shimizu, Ken

New Strategies for Improved Imprinted Polymers - (FA05) **\$225,781**
National Institute of General Medical Sciences (NIGMS)/NIH

Wuthier, Roy

Role of Matrix Vesicles in Calcification - (FA35) **\$60,000**
USCRF/National Institute of Arthritis & Musculoskeletal & Skin Diseases (NIAMS)/NIH

Geological Sciences

Kellogg, James

Editorship of Elsevier Science Ltd: Journal of South American Earth Sciences - (J400) **\$10,400**
Elsevier Science, Ltd.

Geological Sciences

Owens, Thomas

The Lithospheric Structure of the Indian Subcontinent - (F186) \$50,127
National Science Foundation (NSF) - General

Talwani, Pradeep

South Carolina Seismic Monitoring Network - (FA45) \$105,995
SC Universities Research and Education Foundation (SCUREF)/WSRC/DOE

Torres, Raymond

Coastal Wetland Indicators - (FA15) \$54,561
USCRF/University of North Carolina/EPA

Intertidal Marsh Hydrology and Geomorphology - (FA44) \$55,846
USCRF/National Science Foundation (NSF) - General

Yogodzinski, Gene

Acquisition of a Quadrupole ICP Mass Spectrometer for the Department of Geological Sciences and Marine Science Program at the University of South Carolina - (FA46) \$173,268
USCRF/National Science Foundation (NSF) - General

Collaborative Research: High Field Strength Elements and Hf-Nd Isotope Systematics in Aleutian Lavas: Implications for Conservative Element Behavior in Subduction Zones - (FA47) \$139,039
USCRF/National Science Foundation (NSF) - General

Mathematics

Temlyakov, Vladimir

Greedy Approximation - (FA06) \$34,499
USCRF/National Science Foundation (NSF) - General

Physics & Astronomy

Johnson, Joseph

Continued Enhancement and Deployment of IVIS - (FA30) \$77,428
SC Department of Public Safety/DOJ

Donation Module for SC IRIS System - (GA05) \$12,000
SC Emergency Management Division

Kulkarni, Varsha

Zinc Abundances in Damped Ly-alpha Systems at $z < 0.5$: A Missing Link in the Chemical History of Galaxies - (FA29) \$51,418
USCRF/Space Telescope Science Institute/NASA

Social Work, College of

Social Work, College of

Bond, Pamela

Interpreter Training and Testing Services - (FL13) \$31,287
SC Department of Social Services/HHS

Social Work, College of
Wright, Lois

Field Initiated Research: Successful Adolescent Adoption - (FA04)
Administration for Children & Families (ACF)/HHS

\$83,271

Grand Total

\$15,124,155