

SPONSORED PROGRAMS and RESEARCH
Award Activity June 2002

Business and Finance

Recycling & Waste Management

Pergolizzi L.

Purchase of Recycling Bins - Part II - (GL01) **\$10,000**
Palmetto Pride/SC Governor's Office

College of Education

Educational Psychology

Hult R.

A Study of Professional Development Schools; Student Achievement; Teacher Quality and Teacher Recruitment - (LA01) **\$17,000**
National Education Association

Yell M.

Drasgow E.

Marshall K.

Preparing Future Teachers of Students with Emotional and Behavioral Disorders - (F250) **\$197,677**
US Department of Education

Project Respect: Retaining Special Education Teachers' - (F145) **\$148,721**
US Department of Education

Instruction & Teacher Education

Baker H.

Writing Improvement Network - (GL08) **\$50,000**
EIA/SC Department of Education

Brown M.

Graduate Coursework and Certification for Early Childhood Faculty and Mentors - (FJ03) **\$329,789**
SC Department of Health & Human Services/HHS

Physical Education

Mensch J.

GA: Cardinal Newman School - (KP02) **\$6,000**
Cardinal Newman School

GA: Richland SD#2 - (HP02) **\$12,000**
Richland County School District One

SC Educational Policy Center

Monrad D.

An Investigation of Technical Issues Related to the SC Accountability System - (GA04) **\$100,000**
SC Department of Education

College of Engineering & Information Technology

Chemical Engineering

Gadala-Maria F.

Coagulation of Latex - (JA09) **\$33,453**
USCRF/Fuji Photo Film, Inc.

Van Zee J.

Testing of Gas Diffusion Media Performance Using Mathematical Models - (JA04) **\$27,327**
USCRF/W.L. Gore & Associates, Inc.

Computer Science & Engineering

Huhns M.

Robust Software with Errors Through Team-Oriented Programming - (FA00) **\$52,011**
National Science Foundation (NSF) - General

Electrical Engineering

Dougal R.

USC Participants in Electric Ship Research and Development Consortium - (FA17) **\$1,210,697**
USCRF/Florida State University/ONR

Khan A.

High PRF Ultraviolet Detectors Based on Quaternary AlInGaN Layers and Heterojunctions - (FA05) **\$212,290**
National Aeronautics & Space Administration (NASA) - General

Manufacturing and Lifetime Testing of Novel Insulating Gate GaN-AlGaN FET Devices and Circuits - (FA15) **\$1,025,000**
USCRF/US Army Space & Missile Defense Command/DOD

Seminario J.

Nanocell Approach to a Molecular Computer - (FA04) **\$131,096**
Defense Advanced Research Projects Agency/DOD

Simin G.

WBGs Epitaxial Materials Development and Scaleup for rf/Micro-wave Millimeter Wave Devices - (FA16) **\$825,000**
USCRF/Defense Advanced Research Projects Agency (DARPA)/DOD

Electrical Engineering

Sudarshan T.

Silicon Carbide Growth Modeling, Material Processing and Characterization - (FA14) **\$726,283**
USCRF/Office of Naval Research/DOD

Silicon Carbide Materials Research & Technology Development - (F169) **\$40,523**
USCRF/Office of Naval Research

Engineering & Information Technology, College of

White R.

Mariner Command Bridge Project - (GA08) **\$10,000**
SC Manufacturing Extension Partnership

Mechanical Engineering

Lyons J.

Ebert C.

GK-12 Engineering Fellowships to Enhance Science Education in South Carolina Schools - (FJ00) **\$422,811**
National Science Foundation (NSF) - General

Peters W.

Craig N.

NSF Graduate Research Fellowship Award - (FA24) **\$32,000**
National Science Foundation (NSF) - General

Reynolds A.

Structural Amorphous Metals - (FA23) **\$7,596**
USCRF/Howmet Corporation/DARPA

Rocheleau D.

Acquisition of Brown and Sharpe Coordinate Measurement Machine - (JQ00) **\$7,000**
USCRF/Brown & Sharpe, Inc.

Intel Corporation Participation - Acquisition of Brown & Sharpe Coordinate Measurement Machine - (JQ01) **\$5,000**
USCRF/Intel Corporation

College of Hospitality, Retail & Sports Management

Hospitality, Retail & Sports Mgmt - Dean's Office

Jordan D.

South Carolina Academy of Science Central Office - (G400) **\$65,000**
SC Academy of Science/SC Department of Education

Williams H.

National Writing Project: Santee-Wateree - (F408) **\$25,000**
National Writing Project/USDE

College of Journalism & Mass Communications

Journalism & Mass Communications, College of
Collins E.

GA: Central Carolina Community Foundation - (KP04) **\$2,500**
Central Carolina Community Foundation

College of Liberal Arts

Anthropology

Adams J.

Migration, Flows and Intergenerational Processes - (FA00) **\$72,250**
USCRF/National Institute of Child Health and Human Development
(NICHD)/NIH

Archaeology & Anthropology, Institute of

Smith S.

Curation Assessment and ICRMP Revisions - (GA03) **\$10,886**
SC National Guard

Art

Streible D.

Orphan Film Symposium - (FL01) **\$12,600**
SC Humanities Council/NEH

English

Cowart D.

New Americans: Recent Immigrant Writing - (FA01) **\$40,000**
National Endowment for the Humanities

Geography

Dahlman C.

*Remaking Bosnia: The International Community and the Returnee Policy
Process in Three Bosnian Localities - (FA08)* **\$11,732**
USCRF/National Science Foundation (NSF) - General

Kovacik C.

Integrating Geography, Science and Mathematics - (KA02) **\$49,257**
USCRF/National Geographic Education Society

History

Grier K.

GA: Historic Columbia Foundation - (KP06) **\$6,993**
Historic Columbia Foundation

GA: Historic Columbia Foundation - (KP07) **\$6,993**
Historic Columbia Foundation

History

GA: Historic Columbia Foundation - (KP08) Historic Columbia Foundation	\$6,993
GA: SC Confederate Relic Room and Museum - (GP12) SC Confederate Relic Room and Museum	\$6,018
GA: South Carolina Confederate Relic Room and Museum - (GP13) SC Confederate Relic Room and Museum	\$6,620

Taylor C.

The Papers of Henry Laurens - (FA02) National Historical Publications	\$7,679
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Wilson C.

The Papers of John C. Calhoun - (FA03) USCRF/National Historical Publications & Records	\$40,000
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Institute for Southern Studies

Brown T.

Conference on Brown v. Board of Education Semicentennial Essay Collection - (FL00) USCRF/Virginia Foundation for the Humanities/NEH	\$2,500
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International Studies, Institute of

Shin E.

Fulbright Hays Group Project Abroad: Korea and South Carolina - (LL00) USCRF/US Department of Education	\$4,500
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Naval Science

Moon V.

NROTC Educational Instruction: Calculus and Physics - (FJ03) US Navy/DOD	\$1,000
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Psychology

Booze R.

HIV/Cocaine Neurotoxicity in Females - (FA09) USCRF/National Institutes of Health (NIH) - General	\$50,000
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Follingstad D.

GA: Department of Family & Preventive Medicine - (LP05) Family & Preventive Medicine	\$13,000
GA: Lexington County Community Mental Health Center - (GP07) Lexington County Community Mental Health Center/SC	\$12,538
GA: Palmetto Health Alliance - (LP07) Palmetto Health Alliance	\$25,000

Psychology

GA: SC Department of Mental Health - (GP08) \$20,060
SC Department of Mental Health

GA: The Nurturing Center - (KP01) \$15,040
The Nurturing Center

Huebner E.

GA: Pine Grove School - (J728) \$48,000
Pine Grove School

Lugo J.

Kelly S.

Alcohol Exposure, Social Behavior and the Amygdala - (F147) \$24,263
National Institute on Alcohol Abuse & Alcoholism/NIH

Schatz J.

Anemia Brain Functioning and Cognitive Development in Children with
Sickle Cell Disease - (KA01) \$149,970
USCRF/March of Dimes

Public Service & Policy Research, Institute for

Lind K.

Section 319 Nonpoint Source Program - (FA06) \$9,387
SC Department of Health & Environmental Control/EPA

College of Library & Information Science

Library & Information Science, College of

Douglas G.

GA: Lexington Medical Center - (LP02) \$1,706
Lexington Medical Center

College of Nursing

Academic & Student Affairs

Loquist R.

Colleagues in Caring - (L101) \$743
Various Sources

College of Pharmacy

Basic Pharmaceutical Sciences

Zhu B.

Lee A.

Effects of Naturally-Occurring Estrogen-Fatty Acid Esters on Mammary Cell
Growth and Carcinogenesis in Female Rats - (FA03) \$43,670
USCRF/Army Medical Research/DOD

Studies on the Novel Anticancer Agents Metabolically Formed from 17B-
Estradiol - (FA02) \$43,670
USCRF/Army Medical Research/DOD

Pharmacy & Health Outcomes Sci.

Reeder C.

Estimation of Average Dispensing Cost and Drug Acquisition Cost South Carolina Medicaid Drug Program - (FA01) **\$30,500**
SC Department of Health & Human Services Finance Commission/HHS

Shinogle J.

Effects of Patient Cost-Sharing on Utilization and Cost in Managed Care - (KA01) **\$30,000**
USCRF/PhRMA Foundation

College of Science and Math

Baruch Institute

Fletcher M.

North Inlet-Winyah Bay NERR - (FA29) **\$548,360**
USCRF/National Oceanic and Atmospheric Administration (NOAA)

Lewitus A.

Assessing Risks of Pfiesteria and Other Toxic Algal Blooms in South Carolina - (FA25) **\$149,830**
SC Department of Health & Environmental Control/HHS

Biological Sciences

Boggs K.

Understanding the Control of p53 Transcription: A Crucial Factor in the Genesis of Breast Cancer - (FA35) **\$61,000**
USCRF/Army Medical Research/DOD

Bolander F.

Research Support for Institutional Review Board Chair - (KA03) **\$2,500**
USC Research Foundation

Dewey M.

A Genetic Stock Center for Peromyscus - (FA28) **\$22,132**
National Science Foundation (NSF) - General

Peromyscus Laboratory Models for Biomedical Research - (FA36) **\$179,848**
USCRF/National Center for Research Resources/NIH

Mousseau T.

The South Carolina Statewide Collaboration (SCSC) Providing Interactive Biology Research Experience to Minority Undergraduates - (FA01) **\$70,000**
National Science Foundation (NSF) - General

Chemistry & Biochemistry

Baynes J.

Glycation of Protein in Diabetes - (FA26) \$25,000
USCRF/National Institutes of Health

Bunz U.

ADIMET: A Tool for the Synthesis of Alkyne-Briged Polymers - (FA18) \$5,000
USCRF/National Science Foundation (NSF) - General

Functional Ortho-Phenyleneethynylenes - (FA23) \$100,284
USCRF/National Science Foundation (NSF) - General

Dawson J.

Editing: Journal of Inorganic Biochemistry - (J400) \$2,834
Elsevier Science

Spectroscopic and Mechanistic Studies of Heme Enzymes - (F104) \$245,409
National Institute of General Medical Sciences/NIH

Spectroscopic and Mechanistic Studies of Heme Enzymes - (FA10) \$35,884
National Institute of General Medical Science/NIH

Wuthier R.

Salvatore B.

Total Synthesis of Fusarchromanone and New Analogs for Probing Anti-Cancer Activity - (FA21) \$30,000
EPSCoR/BRIN/NSF

zur Loye H.

A Joint Francis Marion University/University of South Carolina Program to Synthesize and Characterize New Organic/Inorganic Coordination Framework Materials - (FA20) \$30,000
EPSCoR/BRIN/NSF

NSF Summer Program in Solid State Chemistry for Undergraduate Students and College Faculty - (FL00) \$16,902
USCRF/Clemson University/NSF

Synthesis of Functionalized Organic-Inorganic Coordination Polymers - (KA05) \$8,000
American Chemical Society

Geological Sciences

Kellogg J.

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

Owens T.

The Lithospheric Structure of the Indian Subcontinent - (F186) \$73,851
National Science Foundation (NSF) - General

Geological Sciences

Williams D.

Servicing May River Gages - (FA31) **\$12,376**
US Geological Survey

Marine Science

Feller R.

Sean Courtney Undergraduate Internship - (GA00) **\$2,625**
SC Department of Natural Resources

Mathematics

Filaseta M.

Meade D.

On the Factorization of Lacunary Polynomials - (FA05) **\$151,151**
USCRF/National Science Foundation (NSF) - General

Temlyakov V.

Greedy Approximation - (FA06) **\$33,500**
USCRF/National Science Foundation (NSF) - General

Physics & Astronomy

Anandan J.

Quantum Coherence - (FA16) **\$66,200**
USCRF/National Science Foundation (NSF) - General

Avignone F.

Ultra Low Level Gamma Counting Technology - (FA18) **\$69,457**
SC Universities Research & Education Foundation (SCUREF)/DOE

Blanpied G.

*GEANT Simulations for Cosmic Ray Imaging for Stockpile Management-
contract #49123 - (FA17)* **\$13,750**
USCRF/Los Alamos National Laboratory/DOE

Johnson J.

Grants Administration Software System - (KA00) **\$50,000**
USC Research Foundation

Image and Database System Development and Management Contract - (G102) **\$5,000**
SC Ethics Commission

Kulkarni V.

*The Evolution of Stars and Metals in Galaxies: An Optical/Infrared Study of
Quasar Absorption Lines - (FA19)* **\$155,682**
USCRF/National Science Foundation (NSF) - General

Physics & Astronomy

Rosenfeld C.

2002 Support for Carolina Quarknet Lead Teachers - (FL00) **\$9,300**
USCRF/Fermilab/DOE

Tedeschi D.

Djalali C.

Preedom B.

Study of Nuclear Physics with Intermediate Energy Probes - (F146) **\$327,000**
National Science Foundation (NSF) - General

Science & Math Administration

Crawley G.

Internationalizing a Science-Business Master's Program - (FA00) **\$90,000**
US Department of Education

Statistics

Edwards D.

GA: Arcadia Analytics, LLC - (JP00) **\$5,296**
Arcadia Analytics, LLC

GA: SC Education Oversight Commission - (GP01) **\$21,249**
SC Education Oversight Commission

Grego J.

GA: Center One - Soldier Support Institute - (FP04) **\$3,918**
Fort Jackson/DOD

West W.

Lynch J.

DoStat.com: A New Environment for Educational Data Analysis - (FA09) **\$130,002**
USCRF/National Science Foundation (NSF) - General

College of Social Work

Social Work, College of

Farber N.

Community Alliance for Pregnancy Prevention (CAPPE) - (KL05) **\$38,820**
USCRF/Self Family Foundation

Raymond F.

GA: Americorp NCCC - (FP00) **\$3,009**
Americorp NCCC

GA: Children Unlimited, Inc. - (KP50) **\$3,009**
Children Unlimited, Inc.

GA: Family Service Center - (KP45) **\$8,465**
Family Service Center

GA: Family Service Center - (KP48) **\$3,009**
Family Service Center

Social Work, College of

GA: *Our Lady of Mercy Community Outreach, Inc. - (KP49)* **\$3,009**
Our Lady of Mercy Community Outreach Services, Inc.

GA: *Senior Primary Care Practice - (LP09)* **\$1,504**
Senior Primary Care Practice

GA: *South Carolina Department of Mental Health - (GP10)* **\$99,297**
SC Department of Mental Health

GA: *Trinity Housing - (KP47)* **\$3,009**
Trinity Housing

Raymond R.

GA: *People Against Rape - (KP46)* **\$3,009**
People Against Rape

Tirrito T.

SC *Consortium of Geriatric Education Centers Grant - (FL09)* **\$3,240**
Medical University of South Carolina/NIH

Wright L.

Program Evaluation Services - (FA03) **\$89,173**
Richland County School District One/USDE

Institute for Families in Society

Families in Society, Institute for

Floyd A.

SC *Special Population Needs Assessment for Homeless Persons - (LA00)* **\$10,000**
USCRF/Frances Allison Close

Norman J. Arnold School of Public Health

Environmental Health Sciences

Chandler T.

*Joint USC-Savannah River Ecology Laboratory Faculty Position in
Phytoremediation - (FA14)* **\$30,000**
USCRF/University of Georgia/DOE

Feigley C.

GA: *Azimuth, Inc. - (JP00)* **\$5,200**
Risk Tech, L.L.C.

Epidemiology & Biostatistics

Liese A.

*Dietary Glycemic Index in Relation to the Metabolic Syndrome: An Ancillary
Study to the Insulin Resistance Arteriosclerosis Study (IRAS) - (KA00)* **\$99,890**
USCRF/American Diabetes Association

Exercise Science

Brown A.

Effects of Gender and Fatiguing Exercise on Immune Function - (KA02) **\$4,957**
USCRF/American College of Sports Medicine

McClung J.

RhoA Localization and Activation during Skeletal Muscle Atrophy - (KA04) **\$2,500**
USCRF/American College of Sports Medicine

Murphy E.

Effects of Exercise and OBG on Immunity in Elderly Mice - (KA03) **\$4,610**
USCRF/American College of Sports Medicine

Health Administration

Glover S.

GA: Lexington Medical Center - (LP22) **\$1,500**
Lexington Medical Center

GA: South Carolina Hospital Association - (KP00) **\$1,500**
SC Hospital Association

Norman J. Arnold School of Public Health - Dean

Addy C.

Public Health Traineeships - (FJ03) **\$39,471**
Department of Health & Human Services/HHS

Kayman S.

White Paper on Nutrition for the Mary Black Foundation Board of Trustees - (KA00) **\$5,000**
USCRF/Mary Black Foundation

Prevention Research Center

Macera C.

Analysis of Survey Data for the Cooper Institute - (FA28) **\$56,955**
USCRF/Cooper Institute/NIH

Parra-Medina D.

Youth Development and Empowerment: South Carolina Legacy - (KA00) **\$170,394**
CDC Foundation

Regional and Four-Year Campuses

USC Beaufort

Yanker M.

Center for Coastal Biology - (GL02) **\$66,853**
SC Department of Health & Environmental Control

USC Salkehatchie

Carmichael A.

Summer Scholars - (KL04) **\$10,000**
USCRF/Allendale County ALIVE, Inc.

Moskow S.

Character Education Professional Development Teachers' Academies - (GL00) **\$58,262**
SC Department of Education

USC Spartanburg

Davenport B.

National Writing Project Application for Matching Funds - (F434) **\$28,000**
National Writing Project Corporation/USDE

Ferrell J.

Nursing Education and Research - (K120) **\$1,483**
Carolina Piedmont Foundation

Rogers S.

ACHIEVE Program - (FL17) **\$5,000**
WIA Board/DOL

USC Sumter

Kunka A.

Sumter Film Series - (HL03) **\$1,300**
Sumter County Cultural Commission

School of Medicine

Cell Biology & Neurosciences

Lavoie H.

Ovarian LDL Receptor and Star Gene Regulation - (F176) **\$137,630**
National Institute of Child Health & Human Development/NIH

Millette C.

Expression and Function of Galectin-3 During Mammalian Spermatogenesis - (FA05) **\$50,000**
BRIN/EPSCoR/NSF

L-Selectin and Testicular Cell Interactions - (FA02) **\$227,588**
National Institute of Child Health & Human Development/NIH

Developmental Biology & Anatomy

Borg T.

Cardiac Angiotensin: Load-Induced Hypertrophy and Failure - (FA05) **\$54,240**
USCRF/Beth Israel Deaconess Medical Center/NIH

Developmental Biology & Anatomy

Carver W.

Role of ADAMs in Heart Myocyte Development - (FA01) **\$252,875**
National Heart, Lung & Blood Institute/NIH

Family & Preventive Medicine

Baxley E.

Minority Faculty Fellowship Program - (FJ00) **\$63,348**
USCRF/Health Resources & Services Administration/HHS

Internal Medicine

Bryan C.

CBC and Emerging Communities - (FL08) **\$33,292**
SC Department of Health & Environmental Control/HHS

Facility Planning for the Midlands Care Consortium - (JL00) **\$19,200**
USCRF/Bristol-Myers Squibb Company

Ophthalmology

Pakalnis A.

*Protein Kinase C Beta Inhibitor - Diabetic Retinopathy Study 2 (PKC-DRS2)
A Phase 3 Clinical Trial - (JA00)* **\$2,703**
USCRF/Paraxel

Pathology

Wargovich M.

Tea Modulation of Colon Carcinogenesis - (FA03) **\$258,100**
USCRF/National Cancer Institute/NIH

Pediatrics/Center for Developmental Disabilities

Ferrante R.

Operation Care Center - Columbia - (GL11) **\$159,500**
SC Department of Disabilities & Special Needs

*SC Traumatic Brain Injury (TBI) State Planning Federal Grant Program -
(FL11)* **\$45,656**
SC Department of Disabilities & Special Needs/HHS

Training Programs and Technical Assistance for Staff - (GL12) **\$590,761**
SC Department of Disabilities & Special Needs

Mayfield-Smith K.

Training and Certification for Attendant Care - (FL12) **\$474,382**
SC Department of Health & Human Services/HHS

Musick J.

Early Intervention Technical Assistance Collaborative - (FL09) **\$430,000**
SC Department of Health & Environmental Control/USDE

Pediatrics/Center for Developmental Disabilities

Neuberg R.

Affiliate Member Institution Agreement/NCCF - (F132) **\$2,000**
National Childhood Cancer Foundation/NCI/NIH

Peters R.

Novo Nordisk SimpleXx 2051 - (JA00) **\$11,355**
Novo Nordisk Pharmaceuticals, Inc.

Research & Special Projects

Fowler S.

USC-Bennettsville Rural Primary Care Education Project - (K206) **\$74,210**
The Duke Endowment

School of the Environment

Earth Sciences & Resources Institute

Kloot R.

GIS Technical Assistance for Comprehensive Nutrient Management Planning - (JL00) **\$1,000**
USCRF/Environmental Management Solutions, LLC

Waddell M.

High Resolution Shear-Wave Reflection Seismic Survey at the Fairbanks Disposal Pit, Fairbanks, Florida - (JA02) **\$2,900**
USCRF/Bay Geophysical

School of the Environment

Mousseau T.

Mutation Rates and Fitness in the Barn Swallows of Chernobyl - (FA02) **\$23,840**
USCRF/National Science Foundation (NSF) - General

Vice President for Research

NanoCenter

Papathanasiou T.

Polymer/Clay Nanocomposites - (KA00) **\$34,000**
USC Research Foundation

Ploehn H.

Murphy C.

Amiridis M.

NIRT: Dendrimer-Stabilized Nanoparticles for Next-Generation - (FA00) **\$1,000,000**
USCRF/National Science Foundation (NSF) - General

Polymer/Clay Nanocomposites - (KA01) **\$32,000**
USC Research Foundation

NanoCenter
Scrivens W.

Polymer/Clay Composites - (KA02) **\$30,000**
USC Research Foundation

zur Loye H.

Polymer/Clay Composites - (KA03) **\$50,000**
USC Research Foundation

Sponsored Programs & Research

Hatcher P.

GA: Center for Selection and Enhanced Performances - (FP00) **\$23,682**
Fort Jackson/US Army/DOD

Grand Total **\$14,244,772**