SPONSORED PROGRAMS and RESEARCH
Award Activity - May 2003

Business, Moore School of
Business Administration - Division of Research
Woodward, Douglas

Economic Impact of the Coca-Cola System in South Africa - (JA07) $89,119
USCRF/Coca-Cola South Africa

Small Business Development Center
Lenti, John

SBDC Control Center - (FL12) $6,503
Small Business Administration (SBA) - General

Education, College of
Instruction & Teacher Education
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) $556,851
US Department of Education (USDE) - General

Office of Program Evaluation
Johnson, Robert

Analysis of Student PACT Scores and Teacher Survey Responses for South Carolina Reading Initiative - (GL01) $56,425
SC Department of Education

Arts Assessment Institutes - (GL02) $50,144
Winthrop University

Physical Education
French, Karen

USDA Summer Feeding Program - (FL00) $300,000
SC Department of Social Services/USDA

Engineering & Information Technology, College of
Chemical Engineering
Amiridis, Michael

Parametric Studies of BASF’s Purification Catalysts - (J145) $103,638
USCRF/BASF Corporation

Balbuena, Perla

Modeling Lithium-Ion Conducting - (FA23) $40,000
USCRF/University of Dayton Research Institute/DOD
Chemical Engineering

**Gatzke, Edward**

*CAREER: Mixed-Integer Nonlinear Programming Approaches for Hydrogen Production Systems - (FA35)*
USCRF/National Science Foundation (NSF) - General

$431,359

**Ritter, James**

*Synthesis and Characterization of Nanostructured Materials for Hydrogen Storage - (FA36)*
SC Research Authority/SC EPSCoR & SC BRIN/NSF

$50,000

**Van Brunt, Vincent**

*Filtration Research Engineering Demonstration - (FA34)*
SC Universities Research & Education Foundation/DOE

$115,213

**Van Zee, John**

*Electrochemical Models for Development of Semi-Fuel Cells - (FA20)*
USCRF/Naval Undersea Warfare Center/DOD

$35,000

*I/UCRC for Fuel Cell Research - Operation Grant - (FA37)*
USCRF/National Science Foundation (NSF) - General

$210,000

Civil & Environmental Engineering

**Chaudhry, M. Hanif**

*Experimental Investigations of Scour Around Bridge Piers - (F143)*
SC Department of Transportation/FHWA/DOT

$30,000

**Gassman, Sarah**

*Specifications for Culvert Pipe used in SCDOT Highway Applications - (FA10)*
SC Department of Transportation/DOT

$31,662

**Imran, Jasim**

*Numerical Modeling of Turbidity Current in Sinuous Submarine Channels - (FA7)*
USCRF/Shell International Exploration & Production

$160,000

Computer Science & Engineering

**Bowles, John**

*GA: Biowatch Medical - (JP29)*
Biowatch Medical

$7,502

**Huhns, Michael**

*GA: Global Infotek, Inc. - (JP28)*
Global Infotek, Inc.

$16,240

*GA: Software Integration for Web Server Environments - (GP11)*
SC State Budget & Control Board

$10,865

*OmniSeer: Novel Information from Massive Data - (FA10)*
USCRF/Global InfoTek, Inc./US Government

$200,000
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<td>Chen, Yinchao</td>
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<td>Research Activities to Support Consolidated Systems, Inc. - (JA17)</td>
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<td>Natural Resources and Conservation Decision - Support System - (F144)</td>
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<td>Harris, Muriel</td>
<td>HIV Risk Reduction for American Youth: A Program Evaluation - (KL07)</td>
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Hospitality, Retail & Sports Management, College of Hospitality, Retail & Sports Mgmt - (Dean)

Williams, Harriett

- National Writing Project: Santee-Wateree - (F408) $38,000
  National Writing Project/USDE

Liberal Arts, College of Art

Dunn, Philip

- Professional Development in Technology and Authentic Assessment - (GA01) $28,000
  Winthrop University/SC Department of Education

English

Reneau, Ingrid

- Mellon Career Enhancement Fellowship - (KA04) $30,000
  The Woodrow Wilson National Fellowship FDN

History

Chesnutt, David

- The Papers of Henry Laurens - (FA04) $7,050
  USCRF/National Historic Publications & Records Commission

Grier, Katherine

- GA: SC Department of Archives and History - (GP16) $13,568
  SC Department of Archives and History

Schulz, Constance

- GA: SC Department of Archives and History - (GP17) $4,522
  SC Department of Archives and History
- GA: SC Department of Archives and History - (GP18) $13,568
  SC Department of Archives

Psychology

Huebner, E. Scott

- GA: Pine Grove School - (J728) $24,000
  Pine Grove School

Richards, John

- Development of Sustained Attention in Infants - (FA04) $260,100
  National Institute of Child Health & Human Development (NICHD)/NIH

Schatz, Jeffrey

- Palmetto Richland Advocacy Program for Youth - (KA00) $17,017
  Palmetto Health Alliance
Public Service & Policy Research, Institute for

Pursley, Nancy

Evaluation of the Initial Implementation of the Family Caregiver Support Program - (FA11) $13,670
SC Department of Health & Human Services/HHS

Mass Communications & Information Studies, College

Journalism & Mass Communications, School of

Bierbauer, Charles

Strategic Communications Training - (FL20) $215,652
USCRF/Social Security Administration (SSA) - General

Collins, Erik

GA: Central Carolina Community Foundation - (KP07) $4,040
Central Carolina Community Foundation

Fisher, Douglas

Crisis Communications Consulting - (FA01) $16,900
SC Department of Health & Environmental Control/CDC

Library & Information Sciences, School of

Williams, Robert

Southeast Archives Education Collaborative with Louisiana State University - (FA00) $37,079
USCRF/Louisiana State University/IMLS

Medicine, School of

Cell Biology & Neurosciences

Millette, Clarke

Expression and Function of Galectin-3 During Mammalian Spermatogenesis - (FA05) $24,698
BRIN/EPSCoR/NSF

Family & Preventive Medicine

McDermott, Suzanne

State Implementation Projects for Preventing Secondary Conditions - (FL04) $78,618
USCRF/Centers for Disease Control (CDC)/HHS

Internal Medicine

Bryan, Charles

Perinatal HIV Prevention Services - (FL00) $43,492
SC Department of Health & Environmental Control/HHS

Lin, Tu

A 24 Month, Double-Blind Multicenter Study of Zenarestat (CI1014-1) in the Treatment of Diabetic Neuropathy - (J127) $18,650
Pfizer Laboratories
Pharmacology, Physiology & Neuroscience

Fisher, Janet

Structural Basis for the Pharmacological Properties of GABAA Receptor
Alpha6 Subunit - (KA05)
USCRF/Pharmaceutical Research & Manufacturers of A

$30,000

Williams, Kristi

Buggy, James

Nurse Anesthesia Training Program - (FJ04)
Health Resources and Services Administration (HRSA)/HHS

$24,352

Research & Special Projects

Howe, Duncan

Cancer Prevention through Health Promotion for Under-served Residents in Lancaster and Kershaw Counties - (KL03)
USCRF/American Cancer Society Southeast Division

$2,500

Surgery

Nottingham, James

Clinical Protocol for a Multiple Dose Randomized, Double-Blind, Placebo in Patients for Treatment of Post-Surgical Pain and Safety of Vladecoxib Compared to Placebo in Patients for Treatment of Post-Surgical Pain from Laparoscopic.... - (JA04)
USCRF/Pharmacia Corporation

$4,425

Music, School of

Music, School of

Barnes, Gail

USC String Project - (KL00)
NORD Family Foundation

$17,295

Pharmacy, College of

Basic Pharmaceutical Sciences

Wang, Desuo

Effects of Dioxins (TCDD) on Cardiac Ion Channels - (FA01)
National Institute of Environmental Health Sciences/NIH

$108,000

Zhu, Bao

2-Methoxyestradiol and Hormonal Cancer - (FA08)
USCRF/National Cancer Institute (NCI)/NIH

$207,219

Provost, Office of the

TRIO Programs

Beasley, Paul

Upward Bound - (FL11)
USCRF/US Department of Education (USDE) - General

$476,491
Public Health, Norman J. Arnold School of
Environmental Health Sciences

Decho, Alan

Biocomplexity of Marine Stromatolites: Biogeochemical Cycling, Microbial Population Dynamics and Mineral Formation in in a Three Billion Year Old Ecosystem - (FA52)  
USCRF/University of Miami/NSF  
$285,637

Feigley, Charles

GA: Albemarle Corporation - (JP01)  
Albemarle Corporation  
$13,440

Newman, Lee

Phytoremediation: NIEHS Superfund Collaboration - (FA53)  
USCRF/University of Washington/NIH  
$58,801

Epidemiology & Biostatistics

Cunningham, Joan

GA: Palmetto Health Foundation - (KP05)  
Palmetto Health Foundation  
$4,397

GA: Palmetto Health Foundation - (KP06)  
Palmetto Health Foundation  
$4,397

Mayer-Davis, Elizabeth

Defining Diabetes in Youth: South Carolina Site - (FA29)  
USCRF/University of Colorado/NIH  
$285,906

Diabetes Prevention Program Outcomes Study (DPPOS) - (FA31)  
USCRF/The George Washington University/NIH  
$64,432

Weinrich, Sally

Collaborative Recruitment Centers for African American Hereditary Prostate Cancer - (F101)  
Wayne State/Howard Univ/NIH  
$30,262

Health Administration

Glover, Saundra

GA: Baromedical Research Foundation - (KP01)  
Baromedical Research Foundation  
$5,292

GA: SC Hospital Association - (KP06)  
SC Hospital Association  
$2,050

Probst, Janice

GA: Carolina Care Plan - (JP22)  
Carolina Care Plan  
$1,500

GA: Lexington Medical Center - (LP34)  
Lexington Medical Center  
$1,500
**Health Promotion, Education & Behavior**

**Neal, Albert**

*National Youth Sports Program (including Math & Science) - (FL04)*
USCRF/National Youth Sports Program Fund (NYSPF)/HHS

$77,500

**Richter, Donna**

*Evaluation of Needlestick Prevention Information Dissemination Project -*
USCRF/Association of Schools of Public Health/CDC

$26,333

*GA: SC Campaign to Prevent Teen Pregnancy - (KP14)*
SC Campaign to Prevent Teen Pregnancy

$1,899

*GA: South Carolina Campaign to Prevent Teen Pregnancy - (KP13)*
SC Campaign to Prevent Teen Pregnancy

$1,350

**Health Services & Policy Research, Center for**

**Murday, David**

*State Match for Evaluation of the Medicaid Family Planning Wavier (11580-FA02) - (GA01)*
SC Campaign to Prevent Teen Pregnancy/SC DHHS

$19,051

**Prevention Research Center**

**Parra-Medina, Deborah**

*Youth Development and Empowerment: South Carolina Legacy - (KA00)*
CDC Foundation

$139,987

**Wilcox, Sara**

*Healthy Aging Network NCOA Supplement - (KA07)*
USCRF/National Council on Aging/RJW Foundation

$11,700

**Public Health, Norman J. Arnold School of -Dean**

**Addy, Cheryl**

*Public Health Traineeship - (FJ05)*
Health Resources & Services Administration (HRSA)/HHS

$43,439

**Glover, Saundra**

*African American Public Health Fellowship and Development Program to Address Health Disparities - (KJ00)*
USCRF/W. K. Kellogg Foundation

$424,978

**Regional and Four-Year Campuses**

**USC Beaufort**

**Quick, Gail**

*Jasper County Schools/USC Beaufort Partnership - (HL03)*
Jasper County School District

$58,476

**Villena-Alvarez, Juanita**

*Instituting Global Studies Across the Curriculum and Expanding the Foreign Language Program - (FJ01)*
USCRF/US Department of Education (USDE) - General

$73,000
**USC Salkehatchie**

**Rice, Anne**

*Salkehatchie Summer Scholars Program - (KL09)*
USCRF/Allendale County Alive, Inc. $8,820

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**USC Spartanburg**

**Bohannan, Patricia**

*Utley Nursing Education Endowment - (K121)*
Carolina Piedmont Foundation $1,000

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**Davenport, Brenda**

*National Writing Project Application for Matching Funds - (F434)*
National Writing Project Corporation/USDE $38,000

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**Dodd, David**

*Campus Networked Computing Infrastructure Upgrades - (GQ00)*
SC Commission on Higher Education $1,344,936

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**Ferrell, Jim**

*UCG Nursing Program - (KJ02)*
Carolina Piedmont Foundation $200,000

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**Jackson, Peggy**

*Child Care for Low-Income Students at USCS - (F462)*
US Department of Education (USDE) - General $21,800

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**Love, Charles**

*Adventure of the American Minds - (FJ02)*
Carolina Piedmont Foundation/Library of Congress $253,000

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**Rogers, Susan**

*ACHIEVE Program - (FL27)*
Spartanburg County/DOL $30,067

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**Research, Vice President for**

**Sponsored Programs & Research**

**Hatcher, Patricia**

*GA: Center for Selection and Enhanced Performances - (FP00)*
Fort Jackson/US Army/DOD $13,890
Science and Mathematics, College of
Baruch Institute

Allen, Wendy

Watershed Education Resources for Local Schools - (KL00) $1,970
USCRF/International Paper Company

Beseres, Jennifer

Regulation of Macrobenthos by Juvenile White Shrimp, Litopenaeussetiferus, in Southeastern Salt Marshes - (FA47) $17,500
USCRF/National Oceanic & Atmospheric Administration (NOAA)/DOC

Bushek, David

Workshop on Remote Sensing of Intertidal Shellfish/March Habitats - (FA46) $1,000
SC Sea Grant Consortium/NOAA

Delgado, Paola Calle

Copper Bioaccumulation in Monoplyphorus Rubroniveus and Trophic Transfer to Litopenaeus Vannamei - (KA09) $1,100
Slocum-Lunz Foundation

Ogburn-Matthews, Ginger

Coastal Nutrient, Water Quality, Toxic Algal Data and Metadata Dissemination by Baruch Institute for Marine Biology and Coastal Research - $84,502
USCRF/National Oceanic & Atmospheric Administration (NOAA)/DOC

Biological Sciences

Dewey, Michael

Mouse Models of Longevity Genes - (F103) $25,489
USCRF/University of Kentucky/NIH

Marton, Laszlo

Remediation of Haloorganic Pollutants with Spartina Alterniflora - (FA53) $6,517
SC Sea Grant Consortium/NOAA

Morris, James

Succession of Tidal Freshwater Wetlands on the Cooper River, SC: Ecological Functions and Management Alternatives - (FA47) $14,797
SC Sea Grant Consortium/NOAA
### Biological Sciences

**Raguso, Robert**

*Patterns and Consequences of Fragrance Variation in Oenotheracaespitosa* - $19,835
USCRF/National Science Foundation (NSF) - General

**Trivedi, Chinmay**

*Regulation of Endothelial Cell Activation by Homeobox Gene HOXA9EC* - $20,000
USCRF/American Heart Association

**Vance, Vicki**

*Suppression of RNA Silencing in Maize* - (JA01) $240,000
USCRF/Dow Agroscience, LLC

### Chemistry & Biochemistry

**Adams, Richard**

*Size-Selective Synthesis of Monodisperse Metallic Nanoclusters using Organic Cavities* - (FA43) $74,567
EPSCoR-BRIN Collaborative Research Program/NSF

**Bunz, Uwe**

*Functional Ortho-Phenyleneethynylenes* - (FA23) $49,792
USCRF/National Science Foundation (NSF) - General

**Dawson, John**

*Mechanistic Studies into the Role of the Biopterin Cofactor in Nitric Oxide Synthase* - (FA45) $31,000
USCRF/Biomedical Research Infrastructure Network (BRIN)/NIH

**Murphy, Catherine**

*DNA Detection with Nanoparticles* - (FA41) $47,768
EPSCoR-BRIN Collaborative Research Program/NSF

**Rassolov, Vitaly**

*SGER: Model Chemistry Based on Electron Geminals* - (FA44) $92,800
USCRF/National Science Foundation (NSF) - General

**Reger, Daniel**

*Supramolecular Structures of Coordination Polymers* - (FA42) $50,000
EPSCoR-BRIN Collaborative Research Program/NSF

**Sodetz, James**

*Structure/Function of Terminal Complement Proteins* - (FA39) $229,245
USCRF/National Institutes of Health (NIH) - General

**Wuthier, Roy**

*FC101 Effort for Praecis Pharmaceuticals, Inc.* - (JA04) $10,000
USCRF/Praecis Pharmaceuticals, Inc.
Geological Sciences

Knapp, Loren

*Origin and Crustal Expression of Active Lithospheric Delamanation in the Vrancea Zone, Romania: Project DRACULA - (FA52)*
USCRF/National Science Foundation (NSF) - General

$12,484

Lakshmi, Venkataraman

*Extended Validation of AMSR-E Soil Moisture Products (AQUA-0084-0032) - (FA17)*
National Aeronautics & Space Administration (NASA) - General

$25,791

Moore, Willard

*Groundwater-Derived Nitrogen and Phosphorus Inputs to the Satilla River Estuary: Impact on Coastal Ecosystem Health - (FA51)*
SC Sea Grant Consortium/NOAA

$26,600

Voulgaris, George

*Towards Quantifying Coastal Erosion in South Carolina: Offshore Shoals as Sediment Sinks and Controls for Shoreline Change - (FA50)*
Sea Grant Consortium/NOAA

$69,534

Mathematics

DeVore, Ronald Sharpley, Robert

*Compression of Large Data Sets with Geometry - (FA08)*
Office of Naval Research (ONR)/DOD

$500,000

State Match for 13060-FA08: Compression of Large Data Sets with Geometry - (GA02)
SC Research Authority

$39,702

Physics & Astronomy

Aharonov, Yakir Anandan, Jeeva Mazur, Pawel

*Quantum Coherence - (FA16)*
USCRF/National Science Foundation (NSF) - General

$50,000

Djalali, Chaden

*Jefferson Lab SURA Fellowship: Photoproduction of Vector Mesons Off Nuclei - (FA28)*
SURA/Jefferson Laboratory/DOE

$6,000

Preedom, Barry

*Study of the Nucleon Using Polarized Photon Beams and Polarized Targets - (FA31)*
USCRF/National Science Foundation (NSF) - General

$100,000

Tedeschi, David Djalali, Chaden Gothe, Ralf

*Study of Nuclear Physics with Intermediate Energy Probes - (FA32)*
USCRF/National Science Foundation (NSF) - General

$60,000
Science Education, Center for
  Bartholomew, Jim
  
  School Math and Science Coaches Program - Higher Education Coaching Team Assistance - (FL00) 
  SC Commission on Higher Education/USDE $8,000

Statistics
  Grego, John
  
  GA: Center One-Soldier Support Institute - (FP06) 
  Fort Jackson/US Army/DOD $4,245
  Seat Belt Use Surveys - (FA11) 
  CNS&G/SC Department of Public Safety/DOT $41,487

Pena, Edsel
  
  GA: Arcadia Analytics, LLC - (JP01) 
  Arcadia Analytics $22,832
  International Conference on Reliability and Survival Analysis 2003 - (FL02) 
  USCRF/National Cancer Institute (NCI)/NIH $10,000

Social Work, College of
  Social Work, College of
  Bond, Pamela
  
  Evaluation and Consultation of Connectinc. - (KL06) 
  USCRF/Annie E. Casey Foundation $10,000

Ginsberg, Leon
  
  GA: African American Health & Information Resource Center - (KP68) 
  African American Health & Info Resource Center $5,535
  GA: Bouknight Management Services, LLC - (JP12) 
  Bouknight Management Services $1,508
  GA: Children's Unlimited, Inc. - (KP66) 
  Children Unlimited, Inc. $1,508
  GA: Family Alternatives, Inc. - (JP14) 
  Family Alternatives, Inc. $2,005
  GA: Family Service Center - (KP67) 
  Family Service Center $4,020
  GA: Family Service Center - (KP69) 
  Family Service Center $4,020
  GA: MedBank - (JP13) 
  MedBank $1,508
  GA: MedBank - (JP15) 
  MedBank $4,036
  GA: Palmetto Richland Hospital/The Caring House - (LP19) 
  Palmetto Richland Hospital/The Caring House $3,009
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**Grand Total** $11,115,208