SPONSORED PROGRAMS and RESEARCH
January 2000

College of Education

Education

Bergen T.

Teacher Cadet Program - (G221) $6,054
SC Center for Teacher Recruitment

Educational Psychology

Drasgow E.

Applied Behavior Analysis - (GJ00) $4,469
SC Department of Disabilities & Special Needs

Instruction & Teacher Education

Kuhs T.

Professional Development School Enhancement Project - (FL01) $8,000
SC Department of Education/USDE

Swick K.

Kellogg Service Learning Initiative - (KL00) $1,900
SC Department of Education/Kellogg Foundation

SC Educational Policy Center

Monrad D.

Consultant Services to the Division of Teacher Quality - (GA01) $32,763
SC Department of Education

College of Engineering & Information Technology

Chemical Engineering

Amiridis M.

Upgrade of X-Ray Diffractometer in the Department of Chemical Engineering - (KQ01) $19,125
SC Research Institute

Ferric Oxide/Alkali Metal Oxide Induced Oxidation of Chlorinated Hydrocarbons in Polluted Gas Streams - (FA03) $19,392
Louisiana State University/EPA

Papathanasiou T.

Image Analysis System for the Quantitative Study of Composite Devices - (KQ02) $23,845
SC Research Institute
Civil & Environmental Engineering

Baus R.

Development of Profiler-Based Rideability Specifications for Asphalt Pavements and Asphalt Overlays - (FA00) $8,680
SC Department of Transportation/DOT

Cooper A.

Photoelectrochemical Catalyst Immobilization by Electrochemical Deposition - (GA00) $90,696
SC Commission on Higher Education

Flora J.

CAREER: Development of Bioelectrochemical Systems for Remediation and Treatment - (F129) $100,000
National Science Foundation

Harries K.

IBC 2000 Seismic Analysis and Design - (JL00) $10,000
Westinghouse Savannah River Company

Computer Science and Engineering

Fenner S.

Algorithms in Quantum Computation and Communications - (GA00) $30,000
SC Commission on Higher Education

Huhns M.

GA: NetGen Learning Systems, Inc. - (JP08) $15,874
NetGen Learning Systems, Inc.

GA: NetGen Learning Systems, Inc. - (JP07) $15,874
NetGen Learning Systems, Inc.

GA: US Computing, Inc. - (JP06) $14,784
US Computing, Inc.

GA: 3W-Media Inc. - (JP05) $1,500
3W-Media Inc.

Matthews M.

GA: Brainsurf Informatics, Inc. - (JP09) $5,492
Brainsurf Informatics, Inc.

Web Development - (I104) $1,104
SCRI/The Website Company

Conversational Dialogues - (I103) $6,083
SCRI/Conita Technologies
Computer Science and Engineering

Vargas J.

Cost & Effectiveness Analysis of the AH64/UH60L Onboard Vibrations Monitoring (VM) System - (FA01)
SC Army National Guard/DOD

Electrical Engineering

Khan A.

Strain Energy Band Engineering in Quartenary AlInGaN Compounds: Scaled-up Material and Novel Device Development - (I137)
SCRI/US Army Space & Missile Defense Command/DOD

Sudarshan T.

Silicon Carbide Materials Research and Technology Development - (I136)
SCRI/Office of Naval Research/DOD

Engineering - Dean's Office

White R.

Gateway Coalition - (F113)
Drexel University/NSF

Mechanical Engineering

Giurgiutiu V.

Review of Existing Work on "Smart" Control Surfaces - (J149)
ADC Analysis & Design

Active Sensors for Health Monitoring of Rotating Machinery - (FA06)
National Academy of Sciences/NSF

Cost and Effectiveness Analysis of AH64A/UH-60L On-Board Vibrations Monitoring System - (F168)
SC Army National Guard/DOD

Lyons J.

Creep and Rupture Behavior of Thermoplastics - (I146)
SCRI/BP Amoco Chemical Company

Reynolds A.

DUS&T: Friction Stir Welding Technology Commercialization for High Strength Structural Alloys - (I147)
SCRI/MTS Corporation/DOD
College of Hospitality, Retail & Sports Management

*Hospitality, Retail & Sports Mgmt - Dean’s Office*

**Jordan D.**

- *SC Middle/Elementary School Academy of Science* - (K102) $4,500
- *SC Academy of Science*

College of Journalism & Mass Communications

*Journalism & Mass Communications, College of*

**Collins E.**

- *GA: SC Budget and Control Board* - (GP00) $2,700
- *SC Budget & Control Board*

**Farrar R.**

- *Basic Communications Training Course* - (FL05) $41,040
- *Social Security Administration*

College of Liberal Arts

*Anthropology*

**Wagner G.**

- *Archaeological Image Analysis* - (KQ00) $9,657
- *SC Research Institute*

*English*

**Newman R. McLeod C.**

- *Teaching Literature and the Environment* - (KA00) $2,735
- *USC Educational Foundation/Kann Rasmussen Foundation*

**Turner Hospital J.**

- *Caught in the Creative Act: Tradition in the Making"* - (FL01) $10,000
- *SC Humanities Council/NEH*

*Geography*

**Hodgson M.**

- *Database Development, GIS Application and Assessments* - (HA00) $22,979
- *Richland County Department of Information Technology*

**Jensen J. Cowen D.**

- *Program for a NASA Affiliated Research Center Program at the University of South Carolina* - (F165) $150,000
- *National Aeronautics and Space Administration*

**Kovacik C.**

- *Advanced Placement Teacher Institute in Human Geography* - (GJ01) $10,724
- *SC Department of Education*
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<thead>
<tr>
<th>Field</th>
<th>Name</th>
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<tr>
<td>Geography</td>
<td></td>
<td>SC Geographic Alliance - (KL00)</td>
<td>$25,000</td>
<td>National Geographic Society Educational Foundation</td>
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<td>Government &amp; International Studies</td>
<td>Schneider S.</td>
<td>GA: Richland County Government - (HP00)</td>
<td>$2,089</td>
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<td>History</td>
<td>Weyeneth R.</td>
<td>GA: SC Department of Archives &amp; History - (GP03)</td>
<td>$3,514</td>
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<td>Wilson C.</td>
<td>The Papers of John Calhoun - (L108)</td>
<td>$1,000</td>
<td>Various Sources</td>
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<td>Psychology</td>
<td>Traxler M.</td>
<td>Individual Differences in Verbal Working Memory and Sentence Understanding - (GA00)</td>
<td>$40,400</td>
<td>SC Commission on Higher Education</td>
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<td>College of Pharmacy</td>
<td>Roberts J.</td>
<td>Use of Selected Amino Acid Degrading Enzymes as Therapeutic Agents - (I123)</td>
<td>$50,000</td>
<td>SCRI/Medical Enzymes AG</td>
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<td>Wyatt M.</td>
<td>Development of a DNA Repair Bioassay - (GA00)</td>
<td>$46,000</td>
<td>SC Commission on Higher Education</td>
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<td>Palmetto Poison Center</td>
<td>Michels J.</td>
<td>Reportable Disease Database Contract - (GL00)</td>
<td>$5,000</td>
<td>SC Department of Health &amp; Environmental Control</td>
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<td>Pharmacy Practice</td>
<td>Schulz R.</td>
<td>Racial Disparity in Access to Advances in Pharmaceutical Therapies - (GA00)</td>
<td>$68,800</td>
<td>SC Commission on Higher Education</td>
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</table>
College of Science and Math
Baruch Institute

Dean J.

GA: SC Department of Natural Resources - (GP01) $8,000
SC Department of Natural Resources

Biological Sciences
Berger F.

Cancer Chemotherapy in Mouse Models - (KQ01) $34,000
SC Research Institute

TS Inhibitors and Cancer Chemotherapy in the MIN Mouse - (F168) $6,172
National Cancer Institute/NIH

Connolly E.

Acquisition of a Real-Time PCR Instrument for Gene Expression Analysis - (KQ00) $20,000
SC Research Institute

Regulation of Metal Uptake in Plants - (FA06) $31,764
US Department of Agriculture

Dewey M.

A Genetic Stock Center for Peromyscus - (F192) $140,118
National Science Foundation

Helmuth B.

Linking Ecology, Physiology and Climate Change: Influence of Environmental Stress on Community Structure in the Rocky Intertidal - (FA08) $13,908
SCRI/Arizona State University/NSF

Biocomplexity-Incubation Activity: Linking Ecology, Physiology and Climate Change: Influence of Environmental Stress on Community Structure in the Rocky Intertidal - (I188) $13,908
SCRI/Arizona State University/NSF

Marton L.

Improvement of Cattail and Reed for Phytoremediation - (FA07) $8,600
North Atlantic Treaty Organization

Mousseau T.

The Adaptive Significance of Phenotypic Plasticity and Reaction Norm Evolution in a Natural System - (FA05) $181,000
National Science Foundation
**Chemistry**

**Angel M.**

*Novel Optical Detection Schemes for In-Situ Mapping of Volatile Organochlorides in the Vadose Zone - (F194)*  
US Department of Energy  
$255,000

**Dawson J.**

*Editing: Journal of Inorganic Biochemistry - (J400)*  
Elsevier Science, Inc.  
$2,667

**Ferry J.**

*Novel Nanocomposite Photocatalytic Materials for "Green" Chemistry - (GA01)*  
SC Commission on Higher Education  
$55,500

**Scrivens W.**

*Testing of Composite Polymer Telescope Mirror - (GA02)*  
SC Commission on Higher Education  
$75,000

**Shaw T.**

*Foraminiferal Fidelity: Identification of Intermediate-Depth Epibenthic Species that Faithfully Record Bottom-Water Chemistry - (FA04)*  
National Science Foundation  
$20,325

**Yuan Y.**

*Fluorescence Polarization for DNA Sequencing - (F197)*  
National Center for Human Genome Research/NIH  
$10,843

*Fluorescence Polarization for DNA Sequencing - (F197)*  
National Center for Human Genome Research/NIH  
$128,311

**zur Loye H.**

*Organic-Inorganic Coordination Polymers: New Functionalized Microporous Materials - (GA00)*  
SC Commission on Higher Education  
$123,951

**Geological Sciences**

**Howell M.**

*ODP LEG 194 - (FA05)*  
Texas A&M Research Foundation/NSF  
$27,881

**Knapp J.**

*Equitorial Guinea Training Support - (KA00)*  
USC Educational Foundation  
$12,794
Geological Sciences
Talwani P.

Seismic Hazard Mapping for Bridge and Highway Design in South Carolina - (FA04) $298,672
SC Department of Transportation/DOT

Mathematics
Temlyakov V.

Approximation and Computation - (FA00) $15,000
Office of Naval Research

Wang H.

A Numerical Environment Model with Significantly Improved Modeling Capability - (GA00) $75,681
SC Commission on Higher Education

Physics & Astronomy
Johnson J.

High Security Information System - (F144) $758,000
Defense Advanced Research Projects Agency/DOD

Statistics
Edwards D.

A Synthesis of Water Quality Data from the National Estuarine Research Reserve’s System-Wide Monitoring Program - (F135) $3,990
SC Department of National Resources/NOAA

Grego J. Lynch J.

Cost and Effectiveness Analysis of AH64A/UH-60L On-Board Vibrations... - (F132) $43,738
SC Army National Guard/DOD

College of Social Work
Social Work, College of
Raymond F.

GA: St. Stephens Ministry - (KP06) $4,500
St. Stephens Ministry

Wright L. Taylor L.

Supporting Elementary Education through School Social Work - (FL04) $31,310
SC Department of Health & Human Services/HHS

Partnerships in Character Education-Consultation, Technical Assistance and Evaluation Project - (GA01) $19,104
SC Department of Education
Social Work, College of
    Social Work Training for DSS Staff and Agents - (FJ00) $3,387,623
    SC Department of Social Services/HHS

Darla Moore School of Business
Business Administration - Division Of Research
    Karwan K.
        Task 2000-2001: Food Waste Reduction at Training Bases - (GA00) $7,879
        Hazardous Waste Management Research Fund/SCUREF

Markland R.
    GA: E-Com Business Solutions - (JP09) $3,328
        E-Com Business Solutions
    GA: SC Association of Nonprofit Organizations - (KP00) $1,406
        SC Association of Nonprofit Organizations

Roenfeldt R.
    GA: SC Board of Pharmacy - (GP12) $1,575
        SC Board of Pharmacy
    GA: William Preston and Associates - (JP11) $30,000
        William Preston & Associates
    GA: ALTEC Laundry Equipment, LLC - (JP10) $1,005
        ALTEC Laundry Equipment, LLC

Institute for Families in Society
Families in Society, Institute for
    Floyd A.
        Technical Assistance to Homeless Continua of Care in South Carolina - (I117) $1,935
        SCRI/Freeman Consulting/HUD

Institute of Public Affairs
Public Affairs, Institute of
    Pierce J.
        Strategic Planning for the Department of Parks, Recreation and Tourism - (GL03) $14,000
        SC Department of Parks, Recreation and Tourism

Prince C.
    Technical Assistance for Environmental Activities - (GL04) $78,217
        SC Department of Health & Environmental Control
Law School

Byars W.

IOLTA-Juvenile Justice - (KL02) $16,500
SC Bar Foundation

Robinson P.

Center for Law, The Legal Profession and Public Policy/PRO BONO - (KL03) $64,620
SC Bar Foundation

Norman J. Arnold School of Public Health

Environmental Health Sciences

Bernhard J.

Foraminiferal Fidelity: Identification of Intermediate - Depth $145,799
Epibenthic Species that Faithfully Record Bottom-Water Chemistry - (FA05)
National Science Foundation

Chandler T.

Joint USC-Savannah River Ecology Laboratory Faculty Position in $90,000
Phytoremediation - (I104)
SCRI/University of Georgia Research Foundation/DOE

Porter D.

Student Training Grant at Savannah River Ecology Laboratory - $4,500
(F100)
Savannah River Ecology Laboratory

Epidemiology and Biostatistics

Drane W.

Cost and Effectiveness Analysis of AH64A/UH-60L On-Board $20,925
Vibrations Monitoring System - (F100)
SC Army National Guard/DOD

Hebert J.

Multicenter Coordinating Site for 24-hour Recall - (LA00) $35,000
Emory University

GA: SC Department of Health and Environmental Control - (G729) $10,313
SC Department of Health & Environmental Control

Exercise Science

Davis M.

Carbohydrates Electrolyte Drinks for Fluid Replacement During and $25,000
After Exercise - (J120)
Quaker Oats Company
Exercise Science
Durstine L.

GA: South Carolina Heart Center - (J705) $11,000
SC Heart Center

GA: UNUM Life Insurance Company of America - (JP00) $9,922
UNUM Life Insurance Company of America

Health Administration
Amidon R.

GA: Palmetto Richland Memorial Hospital - (LP06) $10,281
Palmetto Richland Memorial Hospital

GA: Lexington Medical Center - (LP07) $3,514
Lexington Medical Center

GA: Palmetto Richland Memorial Hospital - (LP08) $7,228
Palmetto Richland Memorial Hospital

Baker S.

GA: Larson Allen - Cherry Bekaert, LLP - (JP06) $8,500
Larson Allen - Cherry Bekaert, LLP

Dodson D.

GA: Hospice & Palliative Care Center - (LP10) $8,534
Hospice & Palliative Care Center

GA: Physicians Health Plan, Inc. - (JP07) $3,012
Physicians Health Plan, Inc.

GA: Kershaw County Medical Center - (LP09) $6,827
Kershaw County Medical Center

Samuels M.

GA: Blue Cross Blue Shield of South Carolina - (JP05) $3,414
Blue Cross Blue Shield of South Carolina

GA: Dorn Medical Center - (FP01) $4,808
WJBD Veterans Affairs Medical Center/VA

Health Promotion and Education
Richter D.

SC Perinatal HIV Prevention Project - (FJ00) $20,000
SC Department of Health & Environmental Control/EPA

Enhancing CBO Capacity for HIV Prevention - (F117) $20,250
Association of School of Public Health/CDC
Health Promotion and Education
Sargent R.

GA: Companion Health Care - (JP04) Companion HealthCare $18,072

GA: Blue Cross Blue Shield of South Carolina - (JP03) Blue Cross Blue Shield of South Carolina $3,614

GA: Palmetto Health Alliance - (LP02) Palmetto Health Alliance/PRMH $9,036

GA: SC Cancer Center - (LP01) SC Cancer Center $11,807

Prevention Research Center
Parra-Medina D.

Youth Development and Empowerment: South Carolina Legacy - (KA00) American Legacy Foundation/CDC Foundation $13,802

Regional and Four-Year Campuses
Beaufort
Upshaw J.

Jasper County Schools/USC Beaufort Partnership - (HL01) Jasper County School District $9,103

Spartanburg
Bohannon P.

Nursing Education and Research - (K120) Carolina Piedmont Foundation, Inc. $15,000

Cook J.

The Saturday Academy - (K119) Carolina Piedmont Foundation $10,000

Davis A.

CPF - Research & Productive Scholarship Faculty Development Committee Awards - (K115) Carolina Piedmont Foundation, Inc. $30,000

Predmore R.

Maggie's Drawers 1992 - (K417) Carolina Piedmont Foundation, Inc. $12,000

Sumter
Ferrell W.

Bicentennial and Multicultural Events - (HL01) Sumter County Cultural Commission $1,000
School of Medicine

**Developmental Biology and Anatomy**

**Borg T.**

*Role of Myocardial Integrins in Ventricular Remolding - (F179)*
Auburn University/NIH

**Ramsdell A.**

*Cellular and Molecular Mechanisms of Cardiac Left-Right Development - (KA01)*
American Heart Association

**Internal Medicine**

**Gonzalez F.**

*A Randomized, Double-Blind Multicenter, Parallel Group Trial Comparing the Safety and Efficacy of IGIV-Chromatography, 10% (Experimental) with IGIV Solvent - (JA00)*
Bayer Corporation

*Randomized Phase III Trial to Compare Radiation Therapy along with Radiation Therapy and Concomitant Anti-EGFr Antibody (C255) for Locally Advanced Squamous Cell Carcinomas of the Head and Neck - (JA01)*
Pharmanet, Inc.

**Pathology**

**Wargovich M.**

*PPAR Gamma Agonists for the Prevention of Colon Cancer - (FA00)*
National Cancer Institute/NIH

*Cancer Prevention Drug Discovery for Breast and Colon Cancer - (GA00)*
SC Commission on Higher Education

**Pediatrics/Center for Developmental Disabilities**

**Neuberg R.**

*Affiliate Member Institution Agreement/NCCF - (F132)*
National Childhood Cancer Institute/HHS

**Pharmacology and Physiology**

**Fisher J.**

*The Role of Structural Differences Among the Alpha Subtypes in Determining Single Channel Properties of Recombinant GABA-A Receptors - (GA00)*
SC Commission on Higher Education

**Wilson M.**

*Brain Slices for the Neuroscience Group: A New Cryostat - (KQ00)*
SC Research Institute
Research and Special Projects

Faulkner L.

USC School of Medicine Psychiatry Training Program - (K204) $208,002
The Fullerton Foundation

Fowler S.

The Dean's Rural Primary Care Clerkship - (K207) $103,000
The Fullerton Foundation

School of the Environment

School of the Environment

Amiridis M. Van Zee J.

Novel Technologies in Pollution Prevention - (F101) $9,680
National Science Foundation

University Libraries

Thomas Cooper Library

Chesnutt D.

Model Editions Partnership: Archiving Documentary Editions - (FA00) $46,960
National Historical Publications & Records Commission

Vice President for Research

EPSCoR

DeVore R. Little S.

For Topical Conference held in Connection with "Image Processing for Digital Terrain Elevation Data - (GA23) $10,000
SC Commission on Higher Education

Grand Total $15,077,736