

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)* **\$32,021**
SC Army National Guard/DOD

Electrical Engineering

Khan A.

*Strain Energy Band Engineering in Quaternary AlInGaN
Compounds: Scaled-up Material and Novel Device Development -
(I137)* **\$4,975,000**
SCRI/US Army Space & Missile Defense Command/DOD

Sudarshan T.

*Silicon Carbide Materials Research and Technolgy Development -
(I136)* **\$1,306,021**
SCRI/Office of Naval Research/DOD

Engineering - Dean's Office

White R.

Gateway Coalition - (F113) **\$100,000**
Drexel University/NSF

Mechanical Engineering

Giurgutiu V.

Review of Existing Work on "Smart" Control Surfaces - (J149) **\$6,000**
ADC Analysis & Design

Active Sensors for Health Monitoring of Rotating Machinery - (FA06) **\$14,000**
National Academy of Sciences/NSF

*Cost and Effectiveness Analysis of AH64A/UH-60L On-Board
Vibrations Monitoring System - (F168)* **\$263,316**
SC Army National Guard/DOD

Lyons J.

Creep and Rupture Behavior of Thermoplastics - (I146) **\$39,890**
SCRI/BP Amoco Chemical Company

Reynolds A.

*DUS&T: Friction Stir Welding Technology Commercialization for
High Strength Structural Alloys - (I147)* **\$81,383**
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

Geography
SC Geographic Alliance - (KL00) \$25,000
National Geographic Society Educational Foundation

Government & International Studies

Schneider S.

GA: Richland County Government - (HP00) \$2,089
Richland County Government

History

Weyeneth R.

GA: SC Department of Archives & History - (GP03) \$3,514
SC Department of Archives & History

Wilson C.

The Papers of John Calhoun - (LI08) \$1,000
Various Sources

Psychology

Traxler M.

Individual Differences in Verbal Working Memory and Sentence Understanding - (GA00) \$40,400
SC Commission on Higher Education

College of Pharmacy

Basic Pharmaceutical Sciences

Roberts J.

Use of Selected Amino Acid Degrading Enzymes as Therapeutic Agents - (I123) \$50,000
SCRI/Medical Enzymes AG

Wyatt M.

Development of a DNA Repair Bioassay - (GA00) \$46,000
SC Commission on Higher Education

Palmetto Poison Center

Michels J.

Reportable Disease Database Contract - (GL00) \$5,000
SC Department of Health & Environmental Control

Pharmacy Practice

Schulz R.

Racial Disparity in Access to Advances in Pharmaceutical Therapies - (GA00) \$68,800
SC Commission on Higher Education

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) **\$255,000**
US Department of Energy

Dawson J.

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

Ferry J.

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

Scrivens W.

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

Shaw T.

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

Yuan Y.

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

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

zur Loye H.

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

Geological Sciences

Howell M.

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

Knapp J.

Equatorial Guinea Training Support - (KA00) **\$12,794**
USC Educational Foundation

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

Roefeldt 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

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 Epibenthic Species that Faithfully Record Bottom-Water Chemistry - (FA05) **\$145,799**
National Science Foundation

Chandler T.

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

Porter D.

Student Training Grant at Savannah River Ecology Laboratory - (FJ00) **\$4,500**
Savannah River Ecology Laboratory

Epidemiology and Biostatistics

Drane W.

Cost and Effectiveness Analysis of AH64A/UH-60L On-Board Vibrations Monitoring System - (F100) **\$20,925**
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 After Exercise - (J120) **\$25,000**
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.

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| <i>GA: Companion Health Care - (JP04)</i> Companion HealthCare | \$18,072 |
| <i>GA: Blue Cross Blue Shield of South Carolina - (JP03)</i> Blue Cross Blue Shield of South Carolina | \$3,614 |
| <i>GA: Palmetto Health Alliance - (LP02)</i> Palmetto Health Alliance/PRMH | \$9,036 |
| <i>GA: SC Cancer Center - (LP01)</i> SC Cancer Center | \$11,807 |

Prevention Research Center

Parra-Medina D.

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| <i>Youth Development and Empowerment: South Carolina Legacy - (KA00)</i> American Legacy Foundation/CDC Foundation | \$13,802 |
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Regional and Four-Year Campuses

Beaufort

Upshaw J.

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| <i>Jasper County Schools/USC Beaufort Partnership - (HL01)</i> Jasper County School District | \$9,103 |
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Spartanburg

Bohannon P.

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| <i>Nursing Education and Research - (K120)</i> Carolina Piedmont Foundation, Inc. | \$15,000 |
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Cook J.

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| <i>The Saturday Academy - (K119)</i> Carolina Piedmont Foundation | \$10,000 |
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Davis A.

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| <i>CPF - Research & Productive Scholarship Faculty Development Committee Awards - (K115)</i> Carolina Piedmont Foundation, Inc. | \$30,000 |
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Predmore R.

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| <i>Maggie's Drawers 1992 - (K417)</i> Carolina Piedmont Foundation, Inc. | \$12,000 |
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Sumter

Ferrell W.

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| <i>Bicentennial and Multicultural Events - (HL01)</i> Sumter County Cultural Commission | \$1,000 |
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School of Medicine

Developmental Biology and Anatomy

Borg T.

Role of Myocardial Integrins in Ventricular Remolding - (F179) **\$25,000**
Auburn University/NIH

Ramsdell A.

Cellular and Molecular Mechanisms of Cardiac Left-Right Development - (KA01) **\$65,000**
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) **\$9,971**
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) **\$2,000**
Pharmanet, Inc.

Pathology

Wargovich M.

PPAR Gamma Agonists for the Prevention of Colon Cancer - (FA00) **\$72,250**
National Cancer Institute/NIH

Cancer Prevention Drug Discovery for Breast and Colon Cancer - (GA00) **\$115,000**
SC Commission on Higher Education

Pediatrics/Center for Developmental Disabilities

Neuberg R.

Affiliate Member Institution Agreement/NCCF - (F132) **\$1,725**
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) **\$51,658**
SC Commission on Higher Education

Wilson M.

Brain Slices for the Neuroscience Group: A New Cryostat - (KQ00) **\$18,000**
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**