SPONSORED PROGRAMS and RESEARCH

Award Activity - February 2004

Education, College of

Stevenson, Kenneth

* Evaluation of the "TECH" Program of the Educational Television Endowment of South Carolina - (15230-FA00)

\$29,881

Sponsor: SCETV/NSF

Educational Psychology

Drasgow, Erik

* Establishing the 3 Rs - (15240-FA01) Sponsor: USCRF/University of Illinois/USDE \$42,456

Instruction & Teacher Education

Stephens, Diane

* Reading First Course - (15250-GJ07) Sponsor: SC Department of Education \$5,600

Swick, Kevin

* USC Learn and Serve America CHESP - (15250-FJ06) Sponsor: SC Department of Education/USDE

\$15,000

Office of Program Evaluation

Yap, Ching

* Standards-Based Arts Assessment in South Carolina Music and Visual Arts Assessment for Distinguished Arts Programs - (15290-GL06)

\$148,000

Sponsor: SC Department of Education

* Study the Effects of Arts Education Reform (Year 05) - (15290-GL05) **Sponsor:** Winthrop University

\$36,000

Engineering & Information Technology, College of

Chemical Engineering

Amiridis, Michael

* Catalytic Performance of Metal Particles on Mesoporous Supports -Sponsor: USCRF/UT-Battelle LLC/DOE

\$46,750

Chemical Engineering Popov, Branko	
* Development of Novel Process for Plating Nanostructured Ternary Alloys and Composites for Replacement of Cadmium Coatings - (15510-FA48) Sponsor: USCRF/Office of Naval Research/DOD	\$59,759
* Novel Non-Precious Metal Catalyst for PEMFC: Catalyst Selection Through Molecular Modeling and Durability Studies - (15510-FA44) Sponsor: USCRF/US Department of Energy (DOE) - General	\$125,000
Weidner, John * Development of an Electrochemical Model for Simulating the Performance Behavior of a Prismatic Li/SOC12 Cell - (15510-FA49) Sponsor: USCRF/Sandia National Laboratory/DOE	\$41,035
* REU Site: Materials Research in Chemical Engineering - (15510-FA50) Sponsor: USCRF/National Science Foundation (NSF) - General Co-PI: Van Zee, John	\$85,000
Civil & Environmental Engineering	
* Investigation of Graded Aggregate Base (GAB) Courses - (15520-FA08) Sponsor: SC Department of Transportation/DOT	\$30,498
Imran, Jasim * Investigation of Bridger Abutment Scour - (15520-GA06) Sponsor: SC State University/SC DOT	\$19,170
Ray, Richard * Cyclic Triaxial Testing - (15520-JA11) Sponsor: USCRF/Florence & Hutcheson, Inc.	\$4,850
Computer Science & Engineering Cameron, Kirk * CAREER: High-Performance, Power-Aware, Distributed Computing - (15590-FA19) Sponsor: USCRF/National Science FoundatioN (NSF) - General	\$121,182
Fenner, Stephen * Quantum Complexity, Algorithms, and Primitives - (15590-FA07) Sponsor: USCRF/Army Research Office/DOD	\$57,427
Huhns, Michael * Virtual Soldier Project - (15590-FA20) Sponsor: USCRF/UT-Battelle, LLC/DOE	\$56,569

Matthews, Manton * Biomedical Industry Research Traineeship - (15510-FJ00) Sponsor: SC BRIN/EPSCoR	\$20,000
Electrical Engineering Khan, Asif * AlInGaN MOSDHFET Based RF Circuits - (15530-FA28) Sponsor: USCRF/US Army & Missile Defense Command/DOD	\$607,099
Sudarshan, Tangali * Lapping and Polishing of Silicon Carbide Wafers - (15530-LA00) Sponsor: USCRF/Various Sources	\$9,800
Engineering & Information Technology, College of White, Ralph * SCAMP Phase I - (15580-FA03) Sponsor: South Carolina State/NSF	\$181,500
Mechanical Engineering Baxter, Sarah * Accuracy of Children's Dietary Recalls - (11590-FA03) Sponsor: National Heart, Lung and Blood Institute (NHLBI)/NIH	\$193,783
Giurgiutiu, Victor * Fundamental Studies in Embedded Ultrasonic NDE - (15540-FA39) Sponsor: USCRF/Air Force Office of Scientific Research/DOD	\$54,000
Li, Xiaodong * Synthesis, Structural and Mechanical Characterization of Boron-Based Nanowires - (15540-KA04) Sponsor: USCRF/American Chemical Society	\$40,000
McNeill, Stephen * Characterization and Model Assessment for Impact Damage Evolution in Functionally Graded Composites Using a Novel Nano-Second 3D Deformation Measurement System - (15540-FA25) Sponsor: USCRF/Department of Army/DOD	\$71,569

Computer Science & Engineering

Environment, School of the

Earth Sciences & Resources Institute	
Rine, James * Environmental Management Support for the MCAS, Beaufort SC -	\$88,000
Sponsor: USCRF/CH2MHILL/DOD Co-PI: Barnes, Phil; Covington, Elzbieta	
CO-11. Daines, 1 mi, Covington, Elebect	
Environment, School of the Barnes, Phil	
* EMS Implementation at Naval Hospital Beaufort - (10060-FA06) Sponsor: USCRF/CH2MHILL/DOD	\$58,635
Coull, Bruce	
* Distinguished Lecturer in the Environment - (10060-KA00) Sponsor: USCRF/USC Education Foundation/SCANA & Rasmussen Foundation	\$126,000
Liberal Arts, College of	
Art	
Dunn, Philip	
* Professional Development in Technology and Authentic Assessment - Sponsor: Florence School District Three/USDE	\$79,244
Geography	
Hodgson, Michael	¢2.00 <i>c</i>
* Spatial Data Needs and the Use of GIS and Remote Sensing in State-Level Hazard-Related Offices - (13540-FA17)	\$2,006
Sponsor: John C. Stennis Space Center/NASA	
Jensen, John	
* Program for a NASA Affiliated Research Center Program at the University of South Carolina - (13540-F165)	\$50,000
Sponsor: National Aeronautics & Space Administration Co-PI: Cowen, David	
Power, Helen	
* Climatic Influences on the Spatial and Temporal Variability of Aerosols over North America - (13540-FA24)	\$52,934
Sponsor: USCRF/National Science Foundation (NSF) - GeneralCo-PI: Sheridan, Scott	

Psychology Allen, Gary * Higher Education Mathematics Partner (HEMP) - (17110-FL24) Sponsor: SC Department of Education/USDE	\$8,000
Follingstad, Diane * GA: SC Department of Mental Health - (13580-GP14) Sponsor: SC Department of Mental Health	\$7,212
Prinz, Ronald * Risk Reduction via Promotion of Youth Development - (13580-FA15) Sponsor: USCRF/National Institute Mental Health/NIH	\$934,268
Richards, John * Development of Sustained Attention in Infants - (13580-FA04) Sponsor: National Institute of Child Health & Human Develop	\$256,095
* The Development of Sustained Attention in Infants - (13580-KA02) Sponsor: University of Rochester/McDonnell Foundation	\$48,316
Wandersman, Abraham * Evaluation of BRIN/EPSCoR - (13580-GA02) Sponsor: SC Research Authority/CHE	\$8,534
Public Service & Policy Research, Institute for Steagall, Christine * Supplemental Project Proposal US EPA Region 4 (PPG) Grant - (21100-FL12) Sponsor: SC Department of Health & Environmental Control/EPA	\$27,721
Sociology	

Sociology

Billingsley, Andrew

* Pathways to Successful Reintegration of Ex-Inmates - (10010-FL08) Sponsor: USCRF/Public Private Ventures/Casey Fdn./DOL/DOJ \$100,000

Mass Communications & Information Studies, College of

Journalism & Mass Communications, School of Jackson, Patricia

* Burroughs Early Head Start Classroom - (17880-FL36) Sponsor: Spartanburg County First Steps/HHS \$57,908

Library & Information Sciences, School of Tu, Feili * Consumer Health Information Services in American Public Libraries: An Assessment of Current Status and Educational Needs - (15700-KA01) Sponsor: USCRF/OCLC Online Computer Library Center Co-PI: Zimmerman, Nancy Williams, Robert * GA: Michelin Americas R&D Corp (15700-JP00) Sponsor: Michelin Americas R&D Corporation	\$15,000 \$3,062
Medicine, School of	
Cell & Developmental Biology & Anatomy Goodwin, Richard * The Role of LEK1 in the Proliferation and Differentiation of Cardiac Myocytes - (18020-KA00) Sponsor: American Heart Association	\$65,000
Internal Medicine Bryan, Charles * Center for Bioethics - (21100-L102) Sponsor: Palmetto Health	\$55,000
* Midlands Care Consortium-Ryan White Base Funds - (18190-FL10) Sponsor: SC Department of Health & Environmental Control/HHS	\$182,824
Lin, Tu * Eli Lilly B7A-MC-MBCW LY333531 Treatment of Symptomatic Peripheral Neuropathy in Patients with Diabetes - (18190-JA10) Sponsor: USCRF/Quintiles, Inc.	\$8,914
Moloo, Jamal * Ontarget/Transcend - (18190-JA09) Sponsor: USCRF/Hamilton Health Sciences/Boehringer Ingleheim	\$2,550
Medicine, School of - (Dean) Fowler, Stanley * South Carolina Consortium for Cardiovascular Disease and Stroke - Sponsor: Palmetto Health Allilance	\$17,500

Pediatrics/Developmental Disabilities, Center for McRedmond, Kevin * An Open-Label, Single Arm, Multi-Center, Safety, Pharmacokinetic and Pharmacodynamic, Phase II Study of Anagrelide Hydrochloride in Pediatric and Adult Subjects with (18140-JA07) Sponsor: USCRF/Shire Pharmaceutical Development, Inc.	\$5,022
Pharmacology, Physiology & Neuroscience Fisher, Janet * Functional Effects of Mutations in the GABAa Receptor Linkedto Inherited Epilepsy - (18080-KA07) Sponsor: Epilepsy Foundation	\$40,000
Walsh, Kenneth * Hormonal and Mechanical Regulation of Cardiac Voltage-Gated K+Channels - (18080-KA01) Sponsor: American Heart Association	\$71,500
Pharmacy, College of	
Basic Pharmaceutical Sciences Berger, Sondra * The Sphingosine Kinase 1/Sphingosine-1-phosphate Pathway as a New Target for Colon Cancer Chemoprevention - (11110-FA11) Sponsor: Medical University of SC/Geo-Centers/DOD	\$6,892
Smith, Eric * Carcinogen Penetration Enhancement in Respiratory Tract Tissue - Sponsor: Medical University of SC/Geo-Centers/DOD	\$46,793
Zhu, Bao * Selective Induction of Estrogen Conjugative Metabolism - (11110-FA06) Sponsor: USCRF/National Cancer Institute(NCI)/NIH	\$207,338
Pharmacy - (General) Wyatt, Michael * Effect of Dietary Components on DNA Repair - (11110-FA07) Sponsor: USCRF/National Cancer Institute(NCI)/NIH	\$70,521

Pharmacy Practice

Phillips, Cynthia

* Educational Enhancement of University of South Carolina Doctor of Pharmacy Candidates - (11150-GJ03)

\$10,300

Sponsor: SC Area Health Education Centers

Public Health, Arnold School of

Environmental Health Sciences

Decho, Alan

* Microbial Observatories: Anhydrophilic, Halotolerant Microbial Mats of San Salvador Island, Bahamas - (11510-FA34) \$80,558

Sponsor: USCRF/University of North Carolina/NSF

Feigley, Charles

* South Carolina Center for Public Health Preparedness - (11500-FJ06)
Sponsor: USCRF/Association of Schools of Public Health/CDC
Co-PI: Richter, Donna

\$10,000

Epidemiology & Biostatistics

Mayer-Davis, Elizabeth

* Defining Diabetes in Youth: South Carolina Site - (11520-FA29) Sponsor: USCRF/University of Colorado/NIH \$318,645

* Diabetes Prevention Program Outcomes Study (DPPOS) - (11520-FA31)

Sponsor: USCRF/The George Washington University/NIH

\$19,107

* Revenue Account for 11520-FA16 and the Continuation Account 11520-FA26. (LOOK AHEAD) - (11520-LA02)

\$6,562

Sponsor: USCRF/Wake Forest University/NIH

Weinrich, Sally

* Collaborative Recruitment Centers for African American Hereditary Prostate Cancer - (11520-F101) \$92,883

Sponsor: Wayne State University/Howard University/NIH

Xie, Da-wen

* Research Support - (18300-KA12)
Sponsor: Palmetto Health Foundation/SC Cancer Center

\$35,000

Exercise Science Carson, James * Aging Skeletal Muscle's Decreased REgenerative Capacity: Inflammation's Critical Role - (11530-FA17) Sponsor: Benedict College/NIH	\$25,000
Pate, Russell * Physical Activity in Preschool Children - Supplement - (11530-FA18) Sponsor: USCRF/National Institute of Child Health & Human Development (NICHD)/NIH Co-PI: Williams, Harriett G.	\$193,257
* Promotion of Physical Activity in High School Girls - (11530-FA12) Sponsor: USCRF/National Heart, Lung & Blood Institute (NHLBI)/NIH	\$20,000
Health Promotion, Education & Behavior Richter, Donna	
* African Americans and HIV: Knowing Partner Risk - (11540-FA24) Sponsor: USCRF/Association of Schools of Public Health/CDC	\$50,000
* Community Disaster Response Services Training Initiative (Collaborative Team Model Budget) - (11540-FJ12) Sponsor: SC Department Mental Health/SC DHEC/HRSA Co-PI: Reece, Linda	\$44,016
* Community Disaster Response Services Training Initiative (Training Budget) - (11540-FJ11)	\$55,626
Sponsor: SC Department of Mental Health/SC DHEC/HRSA Co-PI: Reece, Linda	
* SC Public Health Consortium - (11540-FJ13) Sponsor: USCRF/Association of Schools of Public Health/CDC	\$100,000
Teas, H. Jane * Dietary Algae as a Modulator of Breast Cancer Matastases: An Exploratory Grant to Document Proof of Principle - (11540-FA23) Sponsor: Medical University of South Carolina/Geo-Centers/DOD	\$41,259
Watkins, Kenneth * GA: Companion Healthcare - (11540-JP25) Sponsor: Companion Health Care	\$4,784

\$5,200

Health Services & Policy Research, Center for

* Planning and Facilitation Assistance to the DHEC Cancer Program - Sponsor: SC Department of Health & Environmental Control/CDC

Murday, David

Health Services Policy & Management	
Laditka, Sarah * GA: Lexington Medical Center - (11550-LP46)	\$3,950
Sponsor: Palmetto Health Richland	ψ5,750
•	
* GA: Providence Hospital - Sisters of Charity - (11550-LP47)	\$4,000
Sponsor: Providence Hospital	
* GA: SC Campaign to Prevent Teen Pregnancy - (11550-KP11)	¢1 200
Sponsor: SC Campaign to Prevent Teen Pregnancy	\$1,890
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Prevention Research Center Hooker, Steven	
* Glenn Springs TRail Impact Assessment, Phase II - (11570-KA08)	\$8,300
Sponsor: USCRF/Mary Black Foundation	. ,
Co-PI: Griffin, Sarah	
Science and Mathematics, College of	
Baruch Institute White, David	
* CICEET: Advanced Laser Fluorescence (ALF) Technology for Estuarine and	\$10,000
Coastal Environmental Biomonitoring - (21600-FA60)	Ψ10,000
Sponsor: USCRF/Hampton University/NOAA	
* Stormwater Monitoring - Suppplement to USES - (21600-FA61)	\$20,000
Sponsor: SC Department of Health & Environment Control/OCRM/NOAA	
Biological Sciences	
Quattro, Joseph	\$40,000
* Assessing Hybridazition Among Native and Introduced Black Bass Species in the Upper Savannah River Reservoirs, S.C (21600-GA04)	\$40,000
Sponsor: SC Department of Natural Resources	
Raguso, Robert	
* The Pre-Invention of Flowers by Splachnaceae Mosses: Odor-Driven Shifts in	\$5,000
Spore Dispersal by Flies - (13010-FA62) Sponsor: BRIN/EPSCoR/NIH	
Spoisor. DRIVE SCONTIII	
Vance, Vicki	
* Regulation of Post-Transcriptional Gene Silencing - (13010-FA09)	\$209,525
Sponsor: National Institute of General Medical Sciences/NI	,
Co-PI: Bowman, Lewis	

Biological Sciences Vogt, Richard * Expression of Olfactory SNMPs in Drosophila Melanogaster and Manduca Sexta - (13010-FA37) Sponsor: USCRF/National Science Foundation (NSF) - General	\$55,313
Chemistry & Biochemistry Bryson, Thomas * A.P. Sloan Foundation Recruiting Support for Chemistry and Biochemistry - (13020-KJ00) Sponsor: Alfred P. Sloan Foundation	\$2,000
Dawson, John * Editing: Journal of Inorganic Biochemistry - (13020-J400) Sponsor: Elsevier Science, Inc.	\$5,668
* New Strategies for Improved Imprinted Polymers - (13020-FA05) Sponsor: National Institute of General Medical Science/NIH	\$225,781
Geological Sciences Kellogg, James * Editorship of Elsevier Science Ltd: Journal of South American Earth Sciences - (13040-J400) Sponsor: Elsevier Science Ltd.	\$5,200
Williams, Douglas * The Artic and Global Change: Informal Science Education Opportunities - (12010-FA01) Sponsor: USCRF/National Science Foundation (NSF) - General	\$72,513
Marine Science Kjerfve, Bjorn * Oceanic Simulation Modeling along the Meso-American Barrier Reef in the Western Caribbean and for the Entire Caribbean Sea to Explore Reef Connectivity - (13040-FA68) Sponsor: USCRF/The Nature Conservance/USAID	\$15,000
* Oceanic Simulation Modeling along the Meso-American BarrierReef in the West Caribbean and for the Entire Caribbean Sea to Explore Reef Connectivity - (13040-JA02)	\$35,000

Sponsor: USCRF/Summit Foundation

Mathematics		
DeVore, Ronald * Analysis and Numerical Algorithms for Data Processing and Fast Solution of PDEs - (13060-FA07)	\$19,751	
Sponsor: USCRF/Office of Naval Research/DOD		
* Mathematical Analysis for Data and Image Processing - (13060-FA03) Sponsor: USCRF/Army Research Office/DOD	\$70,000	
Miller, Matthew		
* Gang Database Development and Field Test - (12200-FA05) Sponsor: SC Department of Public Safety/DOJ	\$27,720	
Physics & Astronomy Blanpied, Gary		
* Pilot Course for Physical Science Companion - (13070-GJ00) Sponsor: SC Department of Education	\$11,664	
Djalali, Chaden * Implementation of the Polarized HD Target at the Thomas Jefferson National	\$150,449	
Accelerator Facility - (13070-FA12)	4220,11 5	
Sponsor: USCRF/US Department of Energy (DOE) - General		
Senior and Regional Campuses		
USC Aiken		
Hanlin, Hugh * Response of Herpetofauna to Carolina Bay Restoration - (17110-FA15)	\$36,108	
Sponsor: USCRF/Forest Service-Savannah River/USDA	400,200	
USC Salkehatchie Rice, Anne		
* Lowcountry Leadership - (17660-KL11)	\$4,000	
Sponsor: The Community Foundation, Inc.		

\$15,000

USC Spartanburg
Davis, Thomas

* Removal of Rubber from Vent Holes in Tire Molds - (15510-JA34) Sponsor: USCRF/Michelin Americas R & D Corp.

USC Spartanburg Ferrell, Jim * UCG Nursing Program - (17880-KJ02) Sponsor: Carolina Piedmont Foundation	\$200,000
Matthews, Lou * Teacher Cadet Grant - (17880-G206) Sponsor: SC Center for Teacher Recruitment	\$3,020
* South Carolina Quality Forum - (17880-JL00) Sponsor: Carolina Piedmont Foundation/Various Sponsors	\$13,810
* Watershed Ecology Center Education Program - (17880-KL00) Sponsor: Carolina Piedmont Foundation	\$2,600
Social Work, College of	
Families in Society, Institute for Harris, Muriel * HIV Needs Assessment of Primary Population: A Secondary Analysis - (10010-FL09) Sponsor: SC Department of Health & Environmental Control/HH	\$21,020
Hess, Peg * Children's Rights Services - (15900-KL07) Sponsor: USCRF/Children's Rights	\$16,000
Social Work, College of Andrews, Arlene * Technical Assistance: Mental Health Services to Children, Adolescents and Their Families - System of Care Development - (10010-GL06) Sponsor: SC Department of Mental Health	\$26,796

Grand Total \$7,259,892