SPONSORED PROGRAMS and RESEARCH
Research & Productive Scholarship Awards - FY2004

Education, College of

Educational Psychology
Brown, William
  * Teacher-Implemented Interventions to Enhance Young Children's Physical Activity in Preschools - (15240-KA03)  
  Sponsor: USC Research Foundation  
  $10,000

Engineering & Information Technology, College of

Chemical Engineering
Bender, Jonathan
  * Nanotribology of Ultra-high Molecular Weight Polyethylene - (15510-KA11)  
  Sponsor: USC Research Foundation  
  $14,000

Civil & Environmental Engineering
Harrison, Ken
  * Market Mechanisms and Incentives for Water Quality Management Under Uncertainty - (15520-KA02)  
  Sponsor: USC Research Foundation  
  $14,000

Computer Science & Engineering
Wang, Song
  * FRMI Image Registration with Parallel Computing - (15590-KA00)  
  Sponsor: USC Research Foundation  
  Co-PI: Rose, John; Rorden, Christopher  
  $14,000

Mechanical Engineering
Bischoff, Jeffrey
  * Axially Asymmetric Indentation for the Mechanical Characterization of Bone - (15540-KA05)  
  Sponsor: USC Research Foundation  
  $12,000

Darabi, Jeff
  * Separation of DNA Molecules using Dielectrophoretic Forces - (15540-KA06)  
  Sponsor: USC Research Foundation  
  $14,000
Anthropology
Cahue, Laura
* A Pilot Study to Assess Skeletal and Biomolecular Evidence of Pre-Columbian Tuberculosis in West Mexico - (13590-KA00) $10,500
  
  Sponsor: USC Research Foundation

Art
Barth, Don
* Virtual Interactive Landscapes - (12510-KA02) $40,000
  
  Sponsor: USC Research Foundation

Hanclosky, Walt
* Development of Cranial Nerve Anatomy Interactive Instructional Materials for Medical School Students and General Audiences - (12510-KA04) $6,290
  
  Sponsor: USC Research Foundation

Kissel, Laura
* Cabin Field: A Documentary Film - (12510-KA03) $4,000
  
  Sponsor: USC Research Foundation

Streible, Dan
* International Film Preservation Partnerships - (12510-KA05) $10,200
  
  Sponsor: USC Research Foundation

English
Johnson, Dianne
* Beautiful by Design: The Art of African American Children's Literature - $5,000
  
  Sponsor: USC Research Foundation

Philosophy
Bueno, Otavio
* Mathematics and Fiction - (12560-KA01) $6,000
  
  Sponsor: USC Research Foundation
Political Science
Shaw, Todd
* War on Terrorism Study Dialogue Study - (13570-KA02)
  Sponsor: USC Research Foundation

Psychology
Kelly, Sandra
* Cortical Organization and the Limits of Human Potential - (13580-KA03)
  Sponsor: USC Research Foundation
  Co-PI: Morris, Robin

Shinskey, Jeanne
* Infants' Search for Objects Hidden by Darkness versus Covers - (13580-KA05)
  Sponsor: USC Research Foundation

Swan, Suzanne
* The Mental Health of Women who use Violence in Intimate Relationships - (13580-KA04)
  Sponsor: USC Research Foundation

Theatre, Speech & Dance
Barker, Sarah
* The Bacchae - (12580-KA00)
  Sponsor: USC Research Foundation
  Co-PI: Tobolski, Erica

Music, School of
Edwards, Bradley
* Commission and Premiere of a New Composition for Solo Trombone and Piano - (12550-KA00)
  Sponsor: USC Research Foundation

Leaman, Clifford
* Compact Disc Recording - (12550-KA01)
  Sponsor: USC Research Foundation

Strong, Willie
* New Narratives for African-American Folk Music - (12550-KA02)
  Sponsor: USC Research Foundation
Pharmacy, College of

Basic Pharmaceutical Sciences

Smith, Eric
  * Skin Penetration retarders for Sunscreen Formulations - (11110-KA05)  $14,000  
    Sponsor: USC Research Foundation

Public Health, Arnold School of

Communication Sciences & Disorders

Deliyski, Dimitar
  * Establishing Normative Data for Quantitative Assessment of Laryngeal Function via High-Speed Videoendoscopy - (11560-KA01)  $13,000  
    Sponsor: USC Research Foundation

Exercise Science

Youngstedt, Shawn
  * Using Bright Light Combined with Exercise to Shift the Human Circadian System - (11530-KA10)  $14,000  
    Sponsor: USC Research Foundation

Science and Mathematics, College of

Baruch Institute

Staton, Joseph
  * Uncovering Molecular Mechanisms in Toxicological Models: The Application of Serial Analysis of Gene Expression to the Grass Shrimp - (17220-KA01)  $10,500  
    Sponsor: USC Research Foundation

Biological Sciences

Dixon, Dan
  * Role of HuR in Gastrointestinal Neoplasia - (13010-KA09)  $14,000  
    Sponsor: USC Research Foundation

Chemistry & Biochemistry

Wang, Qian
  * Diversity-Oriented Combinatorial Synthesis to Construct New Drug Candidates Pool - (13020-KA09)  $14,000  
    Sponsor: USC Research Foundation
Geological Sciences

Knapp, Camelia

* Submarine Landslide of the Caspian Sea: Evidence for Seafloor Deformation in Response to Climatically Driven Hydrate Dissociation - (13040-KA08)  
  * Sponsor: USC Research Foundation

$14,000

Styles, Richard

* Measuring Fluid Pressure Above and Below the Sediment-Water Interface for a Rippled Bed - (13040-KA06)  
  * Sponsor: USC Research Foundation

$11,500

Talwani, Pradeep

* Seismogenesis of Intraplate Earthquakes - (13040-KA05)  
  * Sponsor: USC Research Foundation

$6,630

Yogodzinski, Gene

* A Preliminary Study of Volcanic Rock Geochemistry at Little Sitkin Island, Western Aleutians, Alaska - (13040-KA07)  
  * Sponsor: USC Research Foundation

$12,800

Physics & Astronomy

Prozorov, Ruslan

* Development of Novel Functional Nanocomposites - (13070-KA02)  
  * Sponsor: USC Research Foundation

$14,000

Senior and Regional Campuses

USC Aiken

Li, Rao

* Hamiltonian Properties of Claw-Free Graphs or Super-Claw-Free Graphs - (17110-KA07)  
  * Sponsor: USC Research Foundation

$4,000

Lintner, Timothy

* The Perceptual and Practical Status of K-5 Social Studies Instruction in South Carolina - (17110-KA05)  
  * Sponsor: USC Research Foundation

$3,229

Senn, Gary

* Production of a Planetarium Show - (17110-KA06)  
  * Sponsor: USC Research Foundation

$3,922
**USC Spartanburg**

van Delden, Sebastian

* Linking a Syntactic Partial Parse to Semantic Verb Predicates - (17880-KA03)  
  **Sponsor:** USC Research Foundation  
  **Amount:** $6,100

**USC Sumter**

Bellanca, Mary Ellen

* Days of Green Discovery: Writing Nature in Nineteenth-Century British Diaries and Journal - (17440-KA01)  
  **Sponsor:** USC Research Foundation  
  **Amount:** $6,800

**Social Work, College of**

Social Work, College of

Miller-Cribbs, Julie

* The Contexts of Marriage: Examining Family Form, Race and Child Well-being among South Carolina Families on Welfare - (15900-KA02)  
  **Sponsor:** USC Research Foundation  
  **Co-PI:** Fram, Maryah  
  **Amount:** $14,000

**Grand Total**  
$397,609