Arts and Sciences, College of

**Baruch Institute**
Porter, Dwayne

*Integrating and Disseminating Historic and Current SWMP Data via the IOOS Initiative* - 11510-FB07

**Sponsor:** National Estuarine Research Reserve Association (NERRA)/NOAA

**Co-PI:**

**Biological Sciences**

Brodie, Renae

*CAREER: Colonizing Land via the Estuarine Route: Ontogeny of Osmoregulation and Settlement Behaviors in Brackish Water Fidler Crabs* - 13010-FA50

**Sponsor:** National Science Foundation (NSF)

**Co-PI:**

Dewey, Michael

*Peromyscus Laboratory Animals for Biomedical Research* - 13010-FB07

**Sponsor:** National Center for Research Resources (NCRR)/NIH

**Co-PI:**

Dixon, Dan

*Post-Transcriptional Targeting COX-2 Gene Expression in Colorectal Cancer* - 13010-KA19

**Sponsor:** American Cancer Society

**Co-PI:**

Ely, Berten

*South Carolina Initiative for Minority Student Development* - 13010-FB08

**Sponsor:** National Institute of General Medical Sciences (NIGMS)/NIH

**Co-PI:** Hunt, Richard

Helmut, Brian

*Climate Change and Intertidal Biogeography: Coupling Remote Sensing Data to Thermal Physiology* - 13010-FA66

**Sponsor:** National Aeronautics & Space Administration (NASA)

**Co-PI:**

*REU Supplement: Climate Change and Latitudinal Patterns of Body Temperature in Rocky Intertidal Invertebrates* - 13010-FB09

**Sponsor:** National Science Foundation (NSF)

**Co-PI:**
Smith, Deanna

The Influence of APC Genotype on the Chemopreventive vs. Carcinogenic Effect of PPARg Agonists in Cultured Cells - 18300-KA25

\[ \text{Sponsor: SC Cancer Center (SCCC)/Palmetto Health Research Foundation} \]

\[ \text{Co-PI:} \]

Vogt, Richard

Expression of Olfactory SNMPs in Drosophila Melanogaster and Manduca Sexta - 13010-FA37

\[ \text{Sponsor: National Science Foundation (NSF)} \]

\[ \text{Co-PI:} \]

REU: Expression of Olfactory SNMPs in Drosophila Melanogaster and Manduca Sexta - 13010-FB06

\[ \text{Sponsor: National Science Foundation (NSF)} \]

\[ \text{Co-PI:} \]

Chemistry & Biochemistry

Adams, Richard


\[ \text{Sponsor: National Science Foundation (NSF)} \]

\[ \text{Co-PI:} \]

Baynes, John

Glycation of Protein in Diabetes - 13020-FA26

\[ \text{Sponsor: National Institute of Diabetes, Digestive, & Kidney Disease (NIDDK)/NIH} \]

\[ \text{Co-PI:} \]

Dawson, John

Editing: Journal of Inorganic Biochemistry - 13020-J400

\[ \text{Sponsor: Elsevier Science, Inc.} \]

\[ \text{Co-PI:} \]

Myrick, Michael

Ometric Research Services - 22040-JA00

\[ \text{Sponsor: Ometric Corporation} \]

\[ \text{Co-PI:} \]
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<th>Researcher</th>
<th>Project Description</th>
<th>Sponsor/Co-PI</th>
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<tr>
<td>Rassolov, Vitaly</td>
<td>Semiclassical Dynamics and Description of Interference and Nonadiabatic Effects in Mixed Representation - 13020-FA92</td>
<td>National Science Foundation (NSF)</td>
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<td>Reger, Daniel</td>
<td>Development of Unique Multitopic Ligands for the Syntheses of Highly Organized Multi-Metallic Complexes - 13020-FA70</td>
<td>National Science Foundation (NSF)</td>
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<td>Shimizu, Linda</td>
<td>Functional Zippers to Organize Synthetic and Biological Polymers - 13020-KA23</td>
<td>Petroleum Research Fund/American Chemical Society</td>
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<td>Wang, Qian</td>
<td>MURI: Bio-Directed Hierarchical Assembly of Multifundtional Materials - 13020-FA68</td>
<td>University of Massachusetts/ARO</td>
<td>92,000</td>
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<td>Wiskur, Sheryl</td>
<td>Pink Hibiscus Mealybug Pheromone Purification - 13020-JA11</td>
<td>SC Scientific, LLC</td>
<td>1,988</td>
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<td>zur Loye, Hans-Conrad</td>
<td>Guanidinium Catalysts for the Asymmetric Addition of Nucleophiles to N-Acylhydrazones - 13020-KA22</td>
<td>American Chemical Society</td>
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<td>Research Project - 13020-JA10</td>
<td>Confidential</td>
<td>85,600</td>
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### Geological Sciences

**Kohn, Matthew**

*Timing and Magnitude of Climate Change Across the Eocene-Oligocene Transition, Northern Great Plains, USA* - 13040-FA80

**Sponsor:** National Science Foundation (NSF)

**Co-PI:**

### History

**Atkinson, Ronald**

*Sudan: The Land and the People* Photographic Exhibition at McKissick Museum - 21900-FL06

**Sponsor:** Humanities Council of South Carolina/NEH

**Co-PI:** Robertson, Lynn

**Lekan, Thomas**

*Sublime Consumption: German Nature Tourism from Romanticism to Ecotourism* - 13550-KA06

**Sponsor:** American Council of Learned Societies

**Co-PI:**

### International Studies, Institute of

**Puchala, Donald**

*Fulbright American Studies Institute on U.S. Foreign Policy* - 21900-FJ01

**Sponsor:** US Department of State, Bureau of Educational & Cultural Affairs

**Co-PI:**

### Mathematics

**DeVore, Ronald**

*Highly Effective Geospatial Representation and Analysis* - 13060-FA21

**Sponsor:** Defense Advanced Research Projects Agency (DARPA)/DSO/DOD

**Co-PI:** Petrushev, Pencho

**Sharpley, Robert**

*Multiresolution Methods for Vision-Based Guidance, Navigation and Control* - 13060-FA15

**Sponsor:** University of Florida/USAFA/DOD

**Co-PI:**

**Temlyakov, Vladimir**

*Greedy Approximations with Expansions* - 13060-FA26

**Sponsor:** National Science Foundation (NSF)

**Co-PI:**
Sponsored Awards Management (SAM)
April, 2006  New Awards

Yu, Gang
Some Problems in Number Theory - 13060-FA25  91,282
Sponsor: National Science Foundation (NSF)
Co-PI:

Physics & Astronomy
Kunchur, Milind
Transport Behavior of Superconductors at High Dissipative Currents - 13070-F129  83,000
Sponsor: Oak Ridge National Laboratory/DOE
Co-PI:

Political Science
Frank, Jill
Summoning the Soul: The Philosophy and Practice of Political Judgment in Democratic Athens - 13570-LA01  36,000
Sponsor: Princeton University Center for Human Values
Co-PI:

Psychology
Coleman, James
Summer Research Institute in Experimental Psychology - 13580-FA18  5,000
Sponsor: National Science Foundation (NSF)
Co-PI:

Mactutus, Charles
Maternal HIV: Developmental Neurotoxicity - 13580-FA22  287,714
Sponsor: National Institute of Child Health & Human Development (NICHD)/NIH
Co-PI:

McClellan, Catherine
Pfizer Fellowship In Health Disparities/Home-based Pain Management Protocol for Children with Sickle Cell Disease - 13580-KA22  130,000
Sponsor: Pfizer, Inc.
Co-PI: Schatz, Jeffrey

Statistics
Grego, John
SC Safety Belt Survey - 13080-FA19  18,370
Sponsor: Advertising Service Agency/SCDOT/DOT
Co-PI:
Sponsored Awards Management (SAM)
April, 2006  New Awards

Education, College of

**Educational Studies, Department of**
DiStefano, Christine

*Development and Validation of Behavioral Screeners for Early Identification and Intervention in Elementary School*  -  15240-FA03

**Sponsor:** University of Georgia/USDE  
**Co-PI:**

**Instruction & Teacher Education**

James, Ellen

*Target Schools Project*  -  15250-GL24

**Sponsor:** SC Department of Education, Office of School Quality  
**Co-PI:**

Singer, Jonathan

*Middle School/Higher Education Partnerships in Science Education Year 3*  -  15250-FL20

**Sponsor:** SC Commission on Higher Education/USDE  
**Co-PI:** Feller, Robert

**Office of Program Evaluation**

Yap, Ching Ching

*Arts in Education Research Project II*  -  15290-GL18

**Sponsor:** SC Arts Commission  
**Co-PI:**

**School Improvement Council Assistance**

Norman, Jean

*SIC Training Collaboration*  -  15280-FJ02

**Sponsor:** SC Department of Education/DOJ  
**Co-PI:**

**Engineering & Information Technology, College of**

**Chemical Engineering**
Gadala-Maria, Francis

*Alternate Thermochemical Cycles for Producing Hydrogen*  -  15510-FA87

**Sponsor:** Argonne National Laboratory/DOE  
**Co-PI:**
### Sponsored Awards Management (SAM)

**April, 2006  New Awards**

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<th>Name</th>
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<tr>
<td>Popov, Branko</td>
<td>Novel Non-Precious Metal Catalyst for PEMFC: Catalyst Selection Through Molecular Modeling and Durability Studies</td>
<td>US Department of Energy (DOE)</td>
<td>200,000</td>
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<td>Van Zee, John</td>
<td>I/UCRC Fuel Cell Center - Operating Account</td>
<td>Various Sponsors</td>
<td>38,375</td>
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<td>White, Ralph</td>
<td>Development of a Mathematical Model for a Ni-MH cell</td>
<td>General Motors Corporation</td>
<td>126,422</td>
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<td>Baus, Ronald</td>
<td>Development of Improved Rideability Specifications for Rigid Pavements and Bridge Decks</td>
<td>SC Department of Transportation/DOT</td>
<td>47,297</td>
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<td>Flora, Joseph</td>
<td>Availability of Poultry Manure in South Carolina as a Potential Bio-Feedstock for Energy Generation</td>
<td>SC Energy Office/DOE</td>
<td>12,000</td>
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<td>Ziehl, Paul</td>
<td>CLT and AE Methods of In-Situ Load Testing: Comparison and Development of Evaluation Criteria</td>
<td>American Concrete Institute - Concrete Research Council</td>
<td>9,550</td>
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Sponsored Awards Management (SAM)
April, 2006  New Awards

Electrical Engineering
Brice, Charles

Fast Protection of Shipboard Electrical Power Systems - Phase II - 15530-FA35 152

Sponsor: Barron Associates/ONR
Co-PI:

Khan, M. Asif

A -- Wide Band Gap Semiconductors for RF Applications (WBGS-RF) - 15530-JA04 59,760

Sponsor: Northrup Grumman Space Technology
Co-PI:

Monti, Antonello

Design and Implementation of an Electronic System for Game Application: Thunderkick - 15530-JA09 500

Sponsor: International Bullseye Sports Association, LLC
Co-PI:

Mechanical Engineering
Bayoumi, Abdel

Cost and Effectiveness Analysis of the AH-64/UH-60/CH-47 On Board Vibrations Monitoring (VM) System: Testing - 15540-FA66 50,000

Sponsor: SC National Guard/DOD
Co-PI:

Hydrogen-Powered Compression-Injection Diesel Engine - 15540-JA26 500

Sponsor: Siemens VDO Automotive
Co-PI:

Li, Xiaodong

Mechanical Evaluation of StealthWareTM Materials - 15540-JA27 50,000

Sponsor: NanoHoldings II South Carolina L.L.C.
Co-PI:

Lyons, Jed

Graduate Teaching Fellows Enhancing STEM Education in South Carolina Schools - 15540-FJ02 444,300

Sponsor: National Science Foundation (NSF)
Co-PI: Ebert, Christine  Sawyer, Roger  Thompson, Stephen
SC Alliance for Minority Participation (SCAMP)
Perkins, Michael
SCAMP Phase I - 15580-FA03 184,000
Sponsor: SC State/NSF
Co-PI:

Hospitality, Retail & Sport Management, College of
Hotel, Restaurant & Tourism Administration
Weaver, David
Alfred P. Sloan Foundation Travel and Tourism Industry Center - 14000-KA01 0
Sponsor: Alfred P. Sloan Foundation
Co-PI: Woodward, Douglas  Morse, Steve

Law, School of
Law, School of
Morris, Carolyn
Legal Training for DSS Staff and Agents - 15800-FL28 552,060
Sponsor: SC Department of Social Services/HHS
Co-PI:

Medicine, School of
Cancer Center, South Carolina
Cunningham, Joan
Lymphatic Microanatomy of the Breast - 18300-KA21 25,000
Sponsor: SC Cancer Center (SCCC)/Palmetto Health Research Foundation
Co-PI:
### Neuropsychiatry

- **Narasimhan, Meera**  
  - *A Multicenter, Randomized, Double-Blind, Placebo-Controlled Study of the Safety and Efficacy of Aripiprazole as Adjunctive Therapy in the Treatment of Patients with Major Depressive Disorder* - 18120-JA04  
  - **Sponsor:** Bristol-Myers Squibb Pharmaceutical Research Institute  
  - **Co-PI:**  
  - **Amount:** 43,257

- **Risperidone Long-Acting for Alcohol and Schizophrenia Treatment (R-Last)** - 18120-JA05  
  - **Sponsor:** Trustees Dartmouth College/Janssen Medical Affairs  
  - **Co-PI:**  
  - **Amount:** 20,148

- **Wright, Harry**  
  - *Molecular and Genetic Epidemiology of Autism* - 18120-FA02  
  - **Sponsor:** Duke University/NIH  
  - **Co-PI:**  
  - **Amount:** 50,000

### Obstetrics & Gynecology

- **Gregg, Anthony**  
  - *Perinatal Research Society Annual Meeting* - 18110-FA02  
  - **Sponsor:** National Institute of Child Health & Human Development (NICHD)/NIH  
  - **Co-PI:**  
  - **Amount:** 12,200

### Ophthalmology

- **Marcus, Dennis**  
  - *Xanthophyll-Mediated Retinal Drug Delivery* - 18150-FA01  
  - **Sponsor:** National Eye Institute (NEI)/NIH  
  - **Co-PI:**  
  - **Amount:** 108,313

### Pathology & Microbiology

- **Buckhaults, Phillip**  
  - *Molecular Mechanisms of Metastasis* - 18300-KA20  
  - **Sponsor:** SC Cancer Center (SCCC)/Palmetto Health Research Foundation  
  - **Co-PI:**  
  - **Amount:** 25,000

- **Creek, Kim**  
  - *HPIV16-Induced TGF-Beta Resistance in Human Keratinocytes* - 18070-FA02  
  - **Sponsor:** National Cancer Institute (NCI)/NIH  
  - **Co-PI:**  
  - **Amount:** 252,035
Fox, Alvin

Function of the Bacillus Anthracis Spore Carbohydrate - 18060-FA15

Sponsor: University of Missouri/NIH

Co-PI:

Mayer, Eugene

Novel Cellular and Small Animal Models to Selectively Screen for Functional Food and Dietary Supplements Which Delay Fatigue and Enhance Physical Stamina and Mental Alertness - 18060-FA01

Sponsor: Clemson University/DOD

Co-PI:

McKallip, Robert

Cannabinoid Exposure and the Anti-tumor Immune Response - 18300-KA24

Sponsor: SC Cancer Center (SCCC)/Palmetto Health Research Foundation

Co-PI:

Nagarkatti, Mitzi

Endothelial cell injury by cytolytic lymphocytes - 18060-FA22

Sponsor: National Heart, Lung & Blood Institute (NHLBI)/NIH

Co-PI: Nagarkatti, Prakash

Role of CD44 in EC Injury and Melanoma Therapy - 18060-FA23

Sponsor: National Institute of Allergy and Infectious Diseases/NIH

Co-PI: Nagarkatti, Prakash

Cytotoxic Lymphocytes in Acute Lung Injury - 18060-FA24

Sponsor: National Institute of Allergy and Infectious Diseases (NIAID)/NIH

Co-PI: Nagarkatti, Prakash

Nagarkatti, Prakash

Cannabinoid-Induced Apoptosis in T Cell Regulation - 18060-FA25

Sponsor: National Institute on Drug Abuse (NIDA)/NIH

Co-PI: Nagarkatti, Mitzi

Pediatrics

Derrick, C.

South Carolina Institute for Childhood Obesity and Related Disorders - 18140-KL02

Sponsor: The Duke Endowment

Co-PI:
Pharmacology, Physiology & Neuroscience

Wilson, Marlene

Melatonin and the Neurobehavioral Effects of Breast Cancer - 18300-KA27  
Sponsor: SC Cancer Center (SCCC)/Palmetto Health Research Foundation  
Co-PI: Housley, Paul

Wilson, Steven

Injury-Induced Pain: Chemical Modulation of Nociception - 18080-FA08  
Sponsor: The Johns Hopkins University/NIH  
Co-PI: Sweitzer, Sarah

Pharmacy, College of

Basic Pharmaceutical Sciences

Hofseth, Lorne

Nitric Oxide Drives Retinoblastoma Pathway Changes in Inflammation and Cancer - 18300-KA23  
Sponsor: SC Cancer Center (SCCC)/Palmetto Health Research Foundation  
Co-PI:

Public Health, Arnold School of

Communication Sciences & Disorders

Frank, Elaine

Project SLP-RRS Speech-Language Pathologist Recruitment and Retention in Schools - 11560-FJ02  
Sponsor: SC Department of Education/USDE  
Co-PI: McDade, Hiram  Murphree-Holden, Crystal

Epidemiology & Biostatistics

Adams, Swann

A Pilot and Feasibility Study of Ethnic Differences in Interval Diagnosed Breast Cancers in South Carolina - 18300-KA19  
Sponsor: SC Cancer Center (SCCC)/Palmetto Health Research Foundation  
Co-PI: Hebert, James

Colabianchi, Natalie

Defining the Built Environment - 11520-FA69  
Sponsor: National Cancer Institute (NCI)/NIH  
Co-PI:
Cornman, Carol  
*Alzheimer's Disease Registry Management, Training and Development Related to Dementia* - 11520-FA58  
  
  **Sponsor:** SC Department of Health & Human Services/HHS  
  **Co-PI:**  
  
  Hebert, James  
*Informed Decision Making for Prostate Cancer (Sip 16-04 Continued Subcontract with the University of Texas Houston, Year 2)* - 11520-FA63  
  
  **Sponsor:** University of Texas Houston/CDC  
  **Co-PI:**  
  
  Steck, Susan  
*Relationship between Serum and Breast Tissue Vitamin D Metabolites and Genetic Polymorphisms by Race* - 18300-KA26  
  
  **Sponsor:** SC Cancer Center (SCCC)/Palmetto Health Research Foundation  
  **Co-PI:**  
  
  **Exercise Science**  
Davis, J. Mark  
*Novel Cellular and Small Animal Models to Selectively Screen for Functional Food and Dietary Supplements Which Delay Fatigue and Enhance Physical Stamina and Mental Alertness* - 11530-FA05  
  
  **Sponsor:** Clemson University/DOD  
  **Co-PI:**  
  
  Fritz, Stacy  
*Intensive Mobility Training as an Intervention for Individuals with Incomplete Spinal Cord Injury* - 11530-GA01  
  
  **Sponsor:** SC Spinal Cord Injury Research Fund (SCIRF)  
  **Co-PI:**  
  
  Hand, Gregory  
*The Effect of Long-term Physical Activity on Markers of Metabolic Dysfunction and Inflammation in Elderly Postate Cancer Survivors* - 18300-KA22  
  
  **Sponsor:** SC Cancer Center (SCCC)/Palmetto Health Research Foundation  
  **Co-PI:** Phillips, Kenneth  
  Carson, James  
  Burgess, Stephanie  
  Durstine, J. Larry  
  
  **Health Services & Policy Research, Center for**  
Leith, Katherine  
*Systems Transformation: Links for Community Living* - 11580-FA13  
  
  **Sponsor:** Lieutenant Governor's Office on Aging/HHS  
  **Co-PI:**
Sponsored Awards Management (SAM)
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Health Services Policy and Management

Elder, Keith

Literature Review to Establish the State of Indigent Cancer Care in South Carolina - 11550-FA12

Sponsor: SC Dept. of Health & Environmental Control (DHEC)/CDC
Co-PI:

F. Stoskopf, Carleen

GA: Jessica Kopittke - 11550-JP53

Sponsor: Ortmann Healthcare Consultants
Co-PI:

Social Work, College of

Social Work, College of

Bond, Pamela

The Purchase of Social Work Training for DSS Staff and Agents - 15900-FJ15

Sponsor: SC Department of Social Services/HHS
Co-PI:

Gray, Karen

Durham Community Land Trustees - 15900-KA05

Sponsor: Lincoln Institute of Land Policy
Co-PI:

Poole, Dennis

GA: Jennifer Blanken - 15900-GP20

Sponsor: Lt. Governor's Office on Aging
Co-PI:

GA: Bryony Childress - 15900-LP49

Sponsor: Family Service Center
Co-PI:

USC Aiken

USC Aiken

Botsch, Robert

Identification of Graniteville Residents for Medical Screening Project - 17110-GA00

Sponsor: SC Department of Health and Environmental Control (DHEC)
Co-PI:
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<td>Reid, Thomas</td>
<td>Developing High Quality Middle School Mathematics Teacher, Year 3 - 17110-FJ07</td>
<td>SC Commission on Higher Education/USDE</td>
<td>124,771</td>
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<td>Smith, Garriet</td>
<td>CRESS 2002: Integrating Science and Management in the Caribbean/Impact of Diseases and Other Mortality Factors: Microbiology - 17110-FA16</td>
<td>University of Puerto Rico/NOAA</td>
<td>19,000</td>
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<td>Quick, Gail</td>
<td>Higher Education Awareness Program (HEAP) - 17220-GL08</td>
<td>SC Commission on Higher Education</td>
<td>3,000</td>
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<td>Goodson, Suzanne</td>
<td>Character Education Professional Development Teachers' Academy 2006 - 17660-GL06</td>
<td>SC Department of Education</td>
<td>45,000</td>
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<td>Reese, Michele</td>
<td>Columbia Slam Team Performances and Workshop - 17440-HL05</td>
<td>Sumter County Cultural Commission</td>
<td>776</td>
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USC Upstate

**USC Upstate**

Dowell, Marsha  
*Upstate Nursing Consortium* - 17880-KL03  
*Sponsor:* Carolina Piedmont Foundation  
*Co-PI:*  
200,000

Love, Charles  
*The College of Educational Enrichment* - 17880-KL10  
*Sponsor:* Carolina Piedmont Foundation/Charles Lea Center  
*Co-PI:*  
17,500

Turner, Jack  
*Tyger River Total Maximum Daily Load (TMDL) Implementation Project* - 17880-FL60  
*Sponsor:* Clemson University/SCDHEC/EPA  
*Co-PI:*  
63,048

**Report Total:** $14,905,161