Annual Report on Research

FY 2013

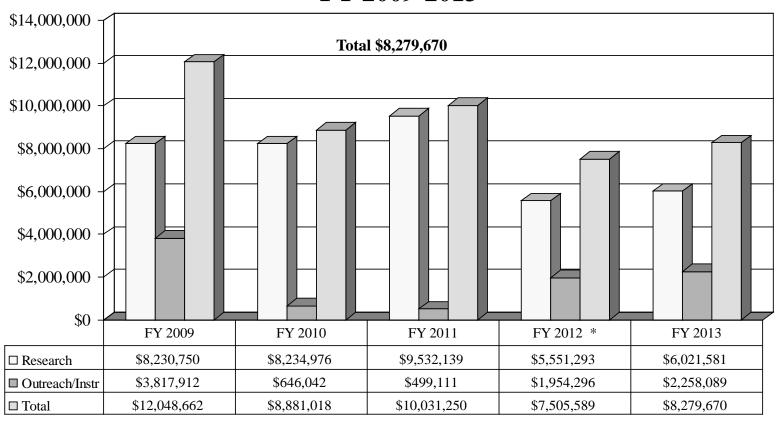


COLLEGE OF SCIENCES AND MATHEMATICS

Office of the Associate Dean for Research Chris Rodger, Ph.D. Amy Thomas Nancy Robinson

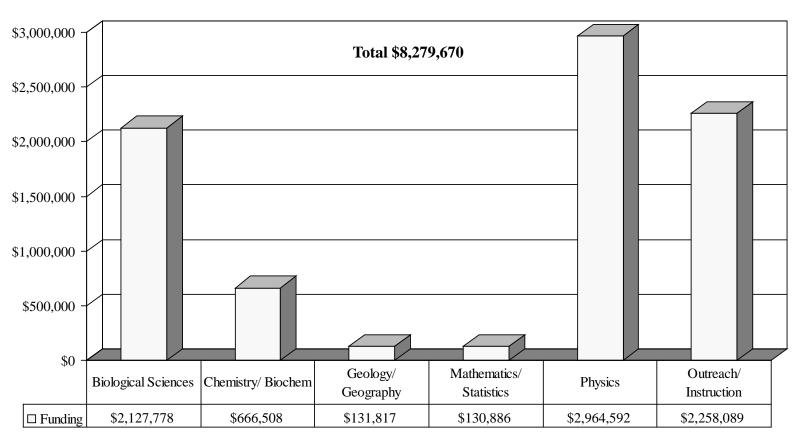
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EXTRAMURAL FUNDING COSAM FY 2009-2013

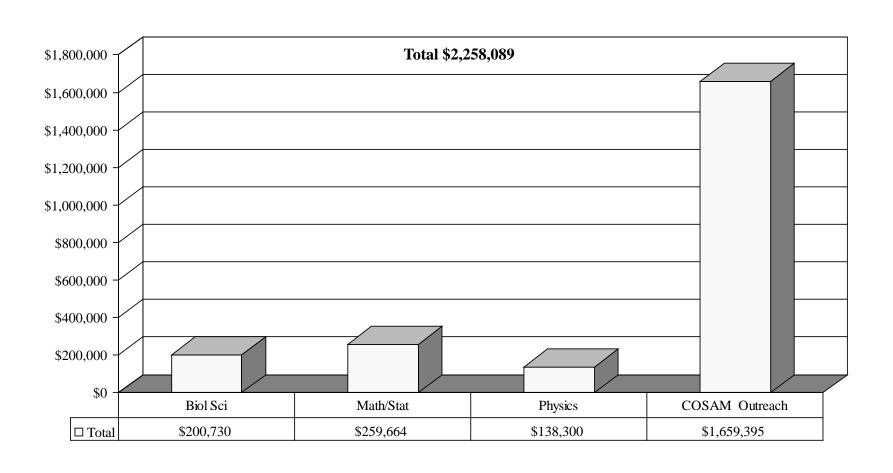


^{*}Updated since the FY 2012 Annual Report

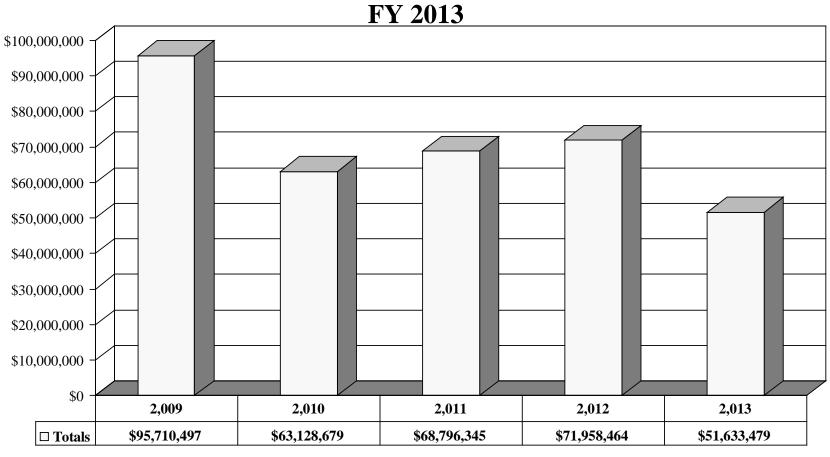
EXTRAMURAL RESEARCH FUNDING COSAM DEPARTMENTS FY 2013



EXTRAMURAL OUTREACH/INSTRUCTIONAL FUNDING COSAM DEPARTMENTS FY 2013



EXTRAMURAL FUNDING AUBURN UNIVERSITY EV 2013



COSAM EXTRAMURAL FUNDING BY DEPARTMENT 2009-2013

Number of grants

		Number of grants	
Dept Name	Number of proposals submitted for 2009-2013	receiving new dollars for 2009-2013	Amount of funding for 2009-2013
Biological Sciences			
FY 2009	46	30	\$1,740,329
FY 2010	37	30	\$3,376,031
FY 2011	36	29	\$3,393,985
FY 2012	32	24	\$1,713,491*
FY 2013	53		
Research		23	\$2,127,778
Outreach/Instructional		2	\$200,730
Total	204	138	\$12,552,344
Chemistry/Biochemistry			
FY 2009	43	19	\$1,440,496
FY 2010	31	17	\$1,285,294
FY 2011	26	11	\$1,461,933
FY 2012	17	11	\$1,158,626
FY 2013	26		
Research		7	\$666,508
Outreach/Instructional		0	\$0
Total	143	65	\$6,012,858

COSAM EXTRAMURAL FUNDING BY DEPARTMENT

	2009-2013 Number of proposals	Number of grants receiving new dollars for	· Amount of funding for
Dept Name	submitted for 2009-2013		2009-2013
Geology/Geography			
FY 2009	24	14	\$1,064,903
FY 2010	18	7	\$136,897
FY 2011	13	6	\$221,095
FY 2012	18	4	\$155,407*
FY 2013	22		
Research		8	\$131,817
Outreach/Instructional		0	\$0
Total	95	39	\$1,710,119
Mathematics/Statistics			
FY 2009	11	16	\$1,623,696
FY 2010	8	6	\$338,160
FY 2011	9	3	\$158,000
FY 2012	11	0	\$0
FY 2013	14		
Research		4	\$130,886
Outreach/Instructional		3	\$259,664

53

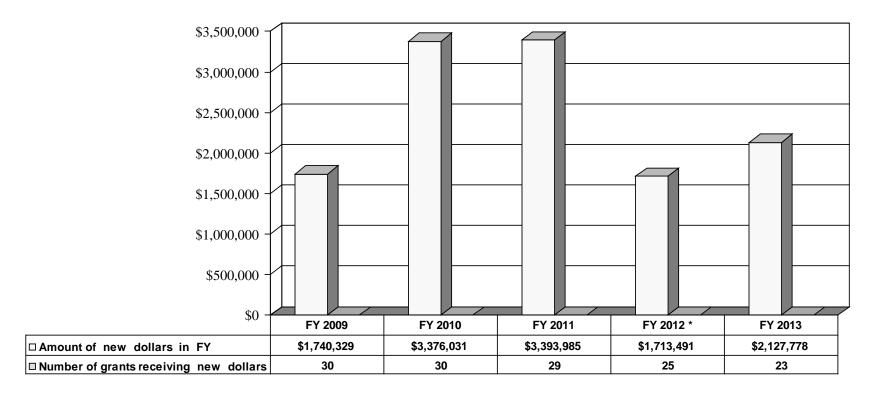
Total

\$2,510,406

COSAM EXTRAMURAL FUNDING BY DEPARTMENT 2009-2013

	2007 2013	Number of grants	
D 137			for Amount of funding for
Dept Name	submitted for 2009-2013	2009-2013	2009-2013
Physics			
FY 2009	29	45	\$5,356,462
FY 2010	33	34	\$4,014,914
FY 2011	30	30	\$4,297,126
FY 2012	24	21	\$2,523,769
FY 2013	38		
Research		27	\$2,964,592
Outreach/Instructional		2	\$138,300
Total	154	159	\$19,295,163
COSAM Outreach			
FY 2009		8	\$822,775
FY 2010		3	\$646,042
FY 2011		4	\$499,111
FY 2012		11	\$1,954,296
FY 2013		5	\$1,659,395
Total		31	\$5,581,619
TOTALS FY 2009-2013	649	464	\$47,662,508
Totals FY 2013	153	81	\$8,279,670

EXTRAMURAL RESEARCH FUNDING HISTORY BIOLOGICAL SCIENCES FY 2009-2013



^{*}Updated since the FY 2012 Annual Report

EXTRAMURAL RESEARCH GRANTS WITH NEW DOLLARS RECEIVED IN FY 2013 BIOLOGICAL SCIENCES

PI NAME	PROJECT TITLE	DOLLARS RECEIVED	% CREDIT	SPONSOR	BEGIN DATE	END DATE
Armbruster, Jonathan W.	Collaborative PBI: ALL cybriniformes species- Phase II of an inventory of the otophsyi	\$177,308	100%	NSF-National Science Foundation	9/1/2010	8/31/2014
Armbruster, Jonathan W.	Documenting new undescribed species of the cavefish genus Typhlichthys (Percopsiformes: Amblyopsidae) in Alabama	\$10,000	100%	ADCNR-Alabama Dept of Conservation & Natural Resources	10/1/2012	9/30/2013
Best, Troy L.	Monitoring populations of lesser prairie chickens on BLM administered lands in SE New Mexico	\$44,242	100%	USDI - Bureau of Land Management	9/1/2011	9/30/2016
Bond, Jason E.	Dissertation research: Species delimitation and the evolution of dwarfism in the North American tarantula genus Aphonopelma	\$19,240	100%	NSF-National Science Foundation	7/1/2013	6/30/2015
Bond, Jason E.	Filling the gaps: Molecular phylogeny, species distributions and habit characteristics of the highly endemic silt snail genus, Floridobia	\$28,904	100%	Stetson University	7/1/2013	6/30/2015
Bond, Jason E.	NSF Graduate Research Fellowship Program (Nicole Garrison)	\$14,087	100%	NSF-National Science Foundation	6/1/2012	5/31/2014
Bond, Jason E.	Millipede systematics: Developing phylogenomic, classification and taxonomic resources	\$17,082	100%	NSF-National Science Foundation	5/15/2013	4/30/2016

EXTRAMURAL RESEARCH GRANTS WITH NEW DOLLARS RECEIVED IN FY 2013 BIOLOGICAL SCIENCES

PI NAME	PROJECT TITLE	DOLLARS RECEIVED	% CREDIT	SPONSOR	BEGIN DATE	END DATE
Bond, Jason E.	Millipede systematics: Developing phylogenomic, classification and taxonomic resources	\$372,284	100%	NSF-National Science Foundation	5/15/2013	4/30/2016
Bond, Jason E.	Millipede Systematics: Developing phylogenomic, classification, and taxonomic resources	\$185,501	100%	NSF-National Science Foundation	5/15/2013	4/30/2016
Bond, Jason E.	Millipede Systematics: Developing phylogenomic, classification, and taxonomic resources	\$9,182	100%	NSF-National Science Foundation	5/15/2013	4/30/2016
Feminella, John W	Development of ecological reference models and assessment framework for streams of the Atlantic	\$119,000	100%	Savannah River Nuclear Solutions, LLC	6/5/2009	6/1/2013
Folkerts, Debbie F	Investigation of pitcher plant arthropod decline and conservation	\$8,600	100%	USDI - FWS - US Dept of the Interior - Fish & Wildlife Service NASA - National	7/1/2012	6/30/2015
Halanych, Kennet M.	h Elucidating the early history of metazoans	\$199,438	100%	Aeronautics and Space Administration Headquarters	4/18/2013	4/17/2017
Helms, Brian	Population structure of the Slackwater crayfish (Cambarus halli) and the Tallapoosa crayfish (Cambarus englishi) in the Tallapoosa Basin	\$15,400	100%	ADCNR-Alabama Dept of Conservation & Natural Resources	10/1/2012	9/30/2013

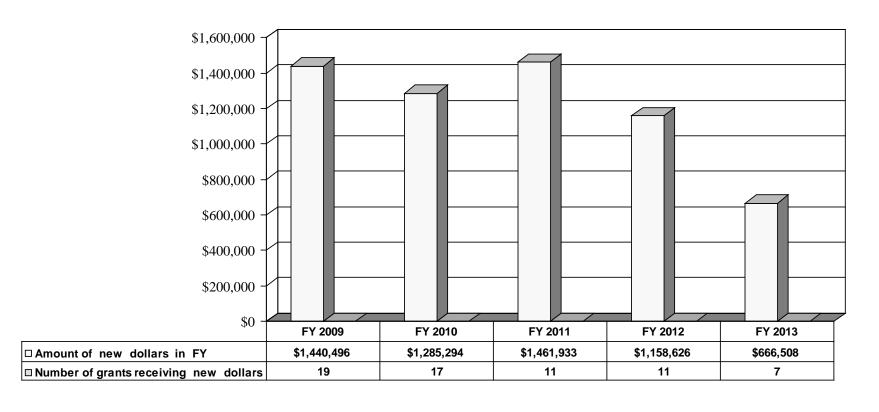
EXTRAMURAL RESEARCH GRANTS WITH NEW DOLLARS RECEIVED IN FY 2013 BIOLOGICAL SCIENCES 10/01/2012 - 09/30/2013

PI NAME	PROJECT TITLE	DOLLARS RECEIVED	% CREDIT	SPONSOR	BEGIN DATE	END DATE
Hill, Geoffrey	NSF graduate research fellowship program	\$38,951	100%	NSF-National Science Foundation	9/1/2012	8/31/2013
Hill, Geoffrey	NSF Graduate Research Fellowship Program (Rebecca Koch)	\$21,192	100%	NSF-National Science Foundation	9/1/2012	8/31/2014
Hood, Wendy R.	NSF Graduate Research Fellowship Program (Alexandra Bentz)	\$24,500	100%	NSF-National Science Foundation	9/1/2013	8/31/2014
Liles, Mark R.	Evaluation of probiotic bacillus strains for use in aquaculture	\$250	100%	Novus International, Inc.	11/9/2010	5/8/2012
Liles, Mark R.	Cooperative R & D on votivo proposal to Bayer Crop Science	\$35,884	100%	Bayer (Agriculture Division)	11/29/2011	11/28/2013
Liles, Mark R.	Commercial potential for diagnostics and a vaccine targeting epidemic aeromonas hydrophila	\$50,000	100%	NSF-National Science Foundation	5/1/2013	10/31/2013
	Dissertation research: Assessing the evolution			NSF-National		

EXTRAMURAL RESEARCH GRANTS WITH NEW DOLLARS RECEIVED IN FY 2013 BIOLOGICAL SCIENCES

PI NAME	PROJECT TITLE	DOLLARS RECEIVED	% CREDIT		BEGIN DATE	END DATE
Schwartz, Elizabeth I	Impact of bacterial infection on myeloid DC development	\$444,000	100%	DHHS-PHS-NIH- NIAID-National Institute of Allergies & Infectious Diseases	8/1/2013	7/31/2014
Wooten, Michael C.	Mechanisms of ubiquitin in neurons	\$281,689	100%	DHHS-PHS-NIH- National Institute of Health	£ 1/15/2010	12/31/2013
	Biological Sciences Total	\$2,127,778				
	Biological Sciences Count	23				

EXTRAMURAL RESEARCH FUNDING HISTORY CHEMISTRY & BIOCHEMISTRY FY 2009-2013



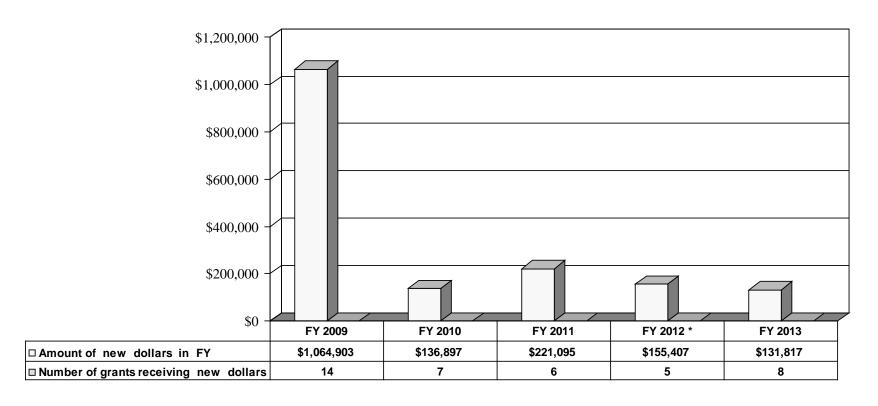
EXTRAMURAL RESEARCH GRANTS WITH NEW DOLLARS RECEIVED IN FY 2013 CHEMISTRY & BIOCHEMISTRY

PI NAME	PROJECT TITLE	DOLLARS RECEIVED	% CREDIT	SPONSOR	BEGIN DATE	END DATE
Duin, Eduardus C.	Iron-sulfur clusters in the evolution of the enzymatic synthesis of RNA	\$30,755	100%	University of Arkansas	1/14/2013	1/13/2017
Easley, Christopher J	Interrogating dynamics of acute secretion of adiponectin multimers from adipose tissue	\$271,514	88%	DHHS PHS-NIH NIDDK-National Inst for Diabetes, Digestive & Kidney Diseases	6/8/2012	5/31/2014
Easley, Christopher J	MRI: Development of multi- parametric/multimodel spectroscopy . (MPMS) apparatus for characterization of functional interfaces	\$12,604	100%	NSF-National Science Foundation	9/1/2013	8/31/2015
Easley, Christopher J	Cooperative approaches for aptamer selection and protein detection (supplemental funding req.)	\$61,999	100%	NSF-National Science Foundation	7/1/2011	6/30/2014
Gorden, Anne Elizabeth V.	Molecular recognition and selective sequestration for detection of uranium, neptunium, or plutonium	\$145,832	100%	DOD-DTRA- Defense Threat Reduction Agency	8/1/2011	7/31/2014
Mills, German	Nanostructure-enchanced phase change materials & HRD coordination	\$42,476	100%	UAT - University of Alabama Tuscaloosa	8/15/2013	8/14/2015

EXTRAMURAL RESEARCH GRANTS WITH NEW DOLLARS RECEIVED IN FY 2013 CHEMISTRY & BIOCHEMISTRY 10/01/2012 - 09/30/2013

PI NAME	PROJECT TITLE	DOLLARS RECEIVED	% CREDIT	SPONSOR	BEGIN DATE	END DATE
Neely, William C.	A unified bio-chemical engineering approach to heat and chemical deactivation of biological warfare agents	\$101,328	100%	Pennsylvania State University	2/1/2010	3/31/2014
	Chemistry & BioChemistry Total	\$666,508 7				
	Chemistry & BioChemistry Count	7				

EXTRAMURAL RESEARCH FUNDING HISTORY GEOLOGY & GEOGRAPHY FY 2009-2013



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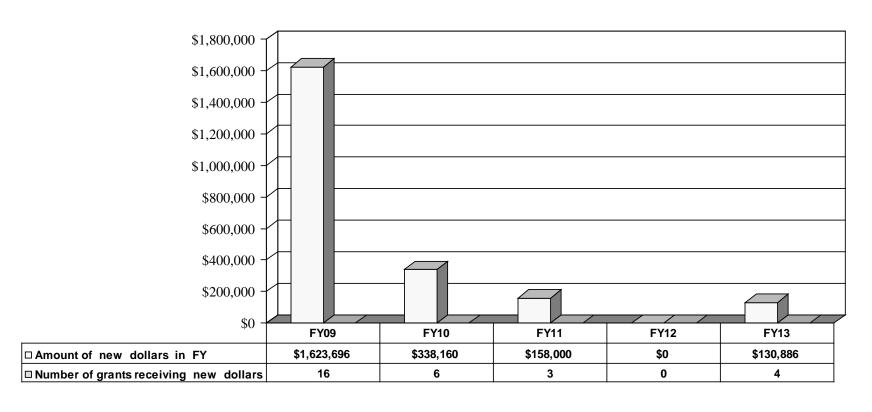
EXTRAMURAL RESEARCH GRANTS WITH NEW DOLLARS RECEIVED IN FY 2013 GEOLOGY & GEOGRAPHY 10/01/2012 - 09/30/2013

PI NAME	PROJECT TITLE	DOLLARS RECEIVED	% CREDIT	SPONSOR	BEGIN DATE	END DATE
Marzen, Luke J.	Urban forestry: i-Tree eco development project	\$6,833	33%	USDA - Forest Service	7/17/2013	9/30/2015
Saunders, James A.	Transport and deposition of metallic nanoparticles as a hydrothermal oreforming process	\$62,194	100%	NSF-National Science Foundation	2/15/2013	1/31/2016
Steltenpohl, Mark G.	Geology of the 1:24,000 Buttston, AL quadrangle	\$14,933	100%	USDI - U.S. Geological Survey	9/1/2013	8/31/2014
Wolf, Lorraine W.	Paleoliquefaction studies in moderate seismicity regions with a history of large events	\$16,399	100%	Tuttle and Associates, Georgetown, Maine	8/24/2011	5/12/2012
Wright, Shawn Patricl	A fresh perspective on ancient martin volcanism: Investigation of new types of highland volcanic constructs in Arabia Terra and beyond	\$4,078	100%	Planetary Science Institute	5/18/2012	5/17/2014
Wright, Shawn Patricl	A fresh perspective on ancient martian volcanism: Investigation of new types of highland volcanic constructs in Arabia Terra and beyond	\$9,441	100%	Planetary Science Institute	5/2/2013	5/1/2016

EXTRAMURAL RESEARCH GRANTS WITH NEW DOLLARS RECEIVED IN FY 2013 GEOLOGY & GEOGRAPHY

PI NAME	PROJECT TITLE	DOLLARS RECEIVED	% CREDIT	SPONSOR	BEGIN DATE	END DATE
Wright, Shawn Patrick	A fresh perspective on ancient martin volcanism: Investigation of new types of highland volcanic constructs in Arabia Terra and beyond	\$7,922	100%	Planetary Science Institute	5/18/2012	2 5/17/2014
Wright, Shawn Patrick	Field and laboratory studies of hydrovolcanic tephras and impact ejecta: Application to Mars rover investigations	\$10,017	100%	Space Science Institute	6/8/2012	2 4/9/2015
	Geology & Geography Total	\$131,817				
	Geology & Geography Count	8				

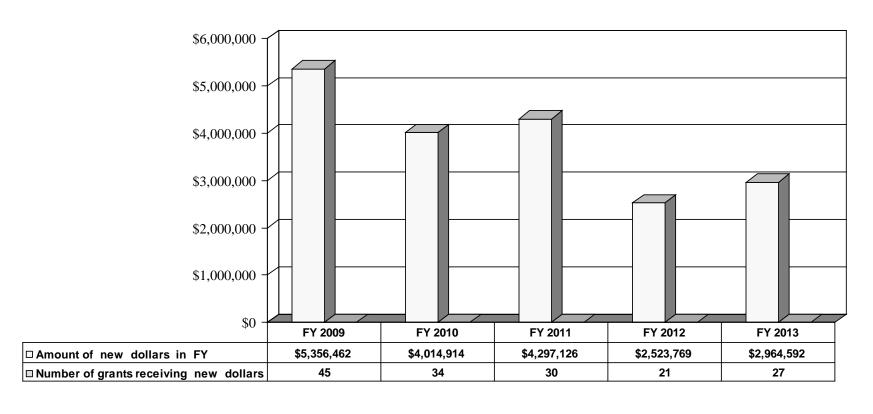
EXTRAMURAL RESEARCH FUNDING HISTORY MATHEMATICS & STATISTICS FY 2009-2013



EXTRAMURAL RESEARCH GRANTS WITH NEW DOLLARS RECEIVED IN FY 2013 MATHEMATICS & STATISTICS 10/01/2012 - 09/30/2013

PI NAME	PROJECT TITLE	DOLLARS RECEIVED	% CREDIT	SPONSOR	BEGIN DATE	END DATE
Cao, Yanzhao	Fast numerical methods for stochastic partial differential equations	\$50,000	100%	Florida A & M University	7/1/2012	6/30/2013
Jenda, Overtoun M.	Research experience for undergraduates in algebra and discrete mathematics at Auburn University	\$44,800	100%	NSF-National Science Foundation	3/1/2013	2/29/2016
Jenda, Overtoun M.	Research experience for undergraduates in algebra and discrete mathematics at Auburn University	\$22,786	100%	NSF-National Science Foundation	3/1/2013	2/29/2016
Zeng, Peng	Elucidation of feedstock-microbe interactions for butanol production from lignocellulosic biomass	\$13,300	10%	University of Tennessee- Southeastern Sun Grant Initiative	4/1/2013	3/31/2015
	Mathematics & Statistics Total	\$130,886				
	Mathematics & Statistics Count	4				

EXTRAMURAL RESEARCH FUNDING HISTORY PHYSICS FY 2009-2013



PI NAME	PROJECT TITLE	DOLLARS RECEIVED	% CREDIT	SPONSOR	BEGIN DATE I	END DATE
Ballance, Connor Pete	Photoexcitation, photoabsorption and r spectra of low ionization fe-peak species	\$32,671	100%	Western Michigan University	8/15/2013	7/31/2014
Dhar, Sarit	PFI: BIC-Advanced SiC high temperature integrated circuits	\$596,277	100%	NSF-National Science Foundation	8/1/2013	7/31/2015
Dhar, Sarit	PFI: BIC-Advanced SiC high temperature integrated circuits	\$2,500	100%	NSF-National Science Foundation	8/1/2013	7/31/2015
Dhar, Sarit	Optimization of the Sio2/4H-SiC interface for power MOSFET application: Investigation of modified growth and interface passivation processes	\$67,500	100%	DOD-US Army- ARL-Army Research Laboratory	9/22/2010	6/23/2014
Dhar, Sarit	CRI-SiO2/4H-SiC interface optimization for next generation power MOSFETs	\$97,135	100%	II-VI Foundation	7/1/2013	6/30/2014
Dhar, Sarit	High reliability SiC power MOSFETs for energy efficient power electronics infrastructure	\$67,685	100%	Monolith Semiconductor, Inc.	7/1/2013	6/30/2014
Dhar, Sarit	Advanced high voltage silicon carbide insulated gate bipolar transistor (IGBT)	\$212,969	100%	United Silicon Carbide, Inc.	7/12/2013	11/30/2014

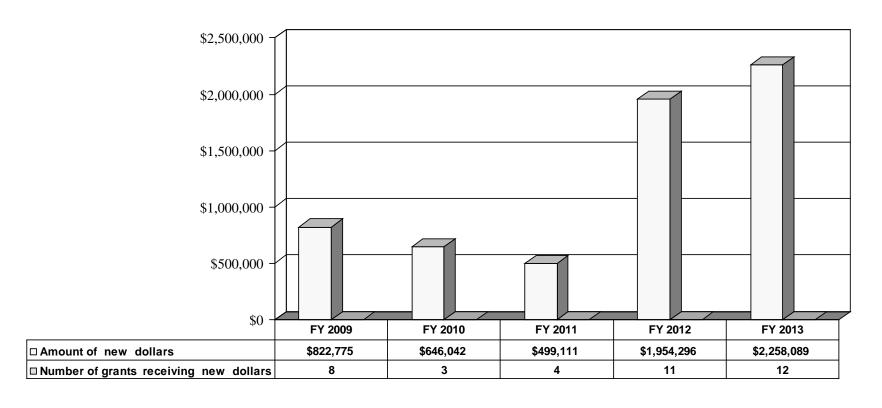
PI NAME	PROJECT TITLE	DOLLARS RECEIVED	% CREDIT	BEGIN SPONSOR DATE END DATE
Fogle, Michael R.	Catalyzing a new international collaboration to study the dynamics of complex systems with ion storage rings	\$21,511	100%	NSF-National Science 5/15/2013 4/30/2014 Foundation
Hanson, James D.	3D equilibrium reconstruction and MHD studies in stellarators	\$100,000	100%	DOE - United States Department 11/1/2003 10/31/2013 of Energy
Knowlton, Stephen F.	MHD stability and equilibrium in a current-driven stellarator-tokamak hybrid	\$540,000	100%	DOE - United States Department 9/1/2000 3/31/2014 of Energy
Landers, Allen Lee	Imaging multi-particle atomic and molecule dynamics	\$120,000	100%	DOE - United States Department 4/1/2010 6/30/2014 of Energy
Lin, Yu	A simulation study of mode conversion associated with kinetic alfven waves	\$135,000	100%	DOE - United States Department 8/15/2013 8/14/2014 of Energy
Lin, Yu	Observations and hybrid simulations of fast flows in the magnetotail	\$23,986	100%	Johns Hopkins University 4/26/2013 1/31/2016
Liu, Kaijun	Collaborative research: An integrated study of fast magnetosonic waves in the radiation belts	\$80,148	100%	NSF-National Science 7/1/2013 6/30/2014 Foundation

PI NAME	PROJECT TITLE	DOLLARS RECEIVED	% CREDIT	SPONSOR	BEGIN DATE END DATE
Liu, Kaijun	Chorus excitation and relativistic electron scattering	\$119,998	100%	NASA - National Aeronautics and Space Administration Headquarters	2/1/2013 1/31/2015
Park, Minseo	Surface plasmonic resonance effects of doped ZnO on light extraction efficiency in OLEDs	\$25,733	80%	Korea Institute of Industrial Technology	4/1/2013 12/1/2013
Perez, Joseph D.	TWINS mission operations and data analysis, Phase F- Extended mission (FY2013)	\$25,011	100%	SWRI - Southwest Research Institute	6/1/2009 9/30/2013
Pindzola, Michael S.	Few body dynamics of atomic and molecular systems	\$60,000	100%	NSF-National Science Foundation	9/1/2013 8/31/2016
Pindzola, Michael S.	Theoretical atomic and molecular physics for controlled fusion energy	\$75,000	100%	DOE - United States Department of Energy	1/1/2000 12/31/2013
Robicheaux, Francis J.	Atoms and ions interacting with particles and fields	\$90,000	100%	DOE - United States Department of Energy	8/1/2000 1/31/2014

PI NAME	PROJECT TITLE	DOLLARS RECEIVED	% CREDIT	SPONSOR	BEGIN DATE I	END DATE
Thomas, Edward E.	PLASMALAB: Measurements	\$80,000	100%	California Institute of Technology-Jet Propulsion Laboratory	12/17/201	12/31/2013
Thomas, Edward E.	Physics of magnetized dusty plasmas	\$2,500	100%	DOE - United States Department of Energy DOE - United	8/15/2013	8/14/2014
Thomas, Edward E.	Physics of magnetized dusty plasmas	\$247,500	100%	States Department of Energy	8/15/2013	8/14/2014
Thomas, Edward E.	Collaborative research: Physics of magnetized dusty plasmas (undergraduate support)	\$5,000	100%	NSF-National Science Foundation	8/1/2013	7/31/2016
Wersinger, Jean-Marie	Auburn University student space program- AubieSat	\$13,185	50%	UAH - University of Alabama at Huntsville	5/6/2010	5/5/2015
Williams, John R.	CRI-SiO2/4H-SiC interface optimization for next generation power MOSFETs	\$24,865	100%	II-VI Foundation	7/1/2013	6/30/2014

	Physics Count	27			
	Physics Total	\$2,964,592			
Williams, John R.	GOALI/FRG: The oxidation of silicon carbide and structure-defects-mobility relations	\$98,418	100%	Vanderbilt University	9/15/2009 8/31/2013
PI NAME	PROJECT TITLE	DOLLARS RECEIVED	% CREDIT	SPONSOR	BEGIN DATE END DATE

EXTRAMURAL FUNDING HISTORY OUTREACH AND INSTRUCTION FOR ALL COSAM DEPARTMENTS FY 2009-2013



EXTRAMURAL OUTREACH & INSTRUCTION GRANTS WITH NEW DOLLARS RECEIVED IN FY 2013 10/01/2012 - 09/30/2013

PI NAME	PROJECT TITLE	DOLLARS RECEIVED	% CREDIT	SPONSOR	BEGIN DATE	END DATE
Biological Sciences						
Hill, Geoffrey	Intergovernmental personnel act (IPA) NSF assignment	\$185,735	100%	NSF-National Science Foundation	8/26/2013	8/25/2014
Wada, Haruka	Meeting: Adaptation or development contraint? Uniting evolutionary theory and empirical studies of phenotypic plasticity Biological Sciences Total	\$14,995 \$200,730	100%	NSF-National Science Foundation	9/15/2013	8/31/2014
	Biological Sciences Count	2				
Mathematics & Statistics						
Meir, Amnon J.	Intergovernment personnel act (IPA) NSF assignment	\$166,064	100%	NSF-National Science Foundation	8/12/2013	8/11/2014
Stuckwisch, Stephen E.	TEAM-Math and AMSTI mathematics professional learning communities partnership	\$25,196	40%	Alabama Dept. of Education - ALDoEd	10/1/2012	9/30/2013
Stuckwisch, Stephen E.	TFAM-Math and AMSTI mathematics	\$68,404	40%	Alabama Dept. of Education - ALDoEd	10/1/2012	9/30/2013
	Mathematics & Statistics Total Mathematics & Statistics Count	\$259,664 3				

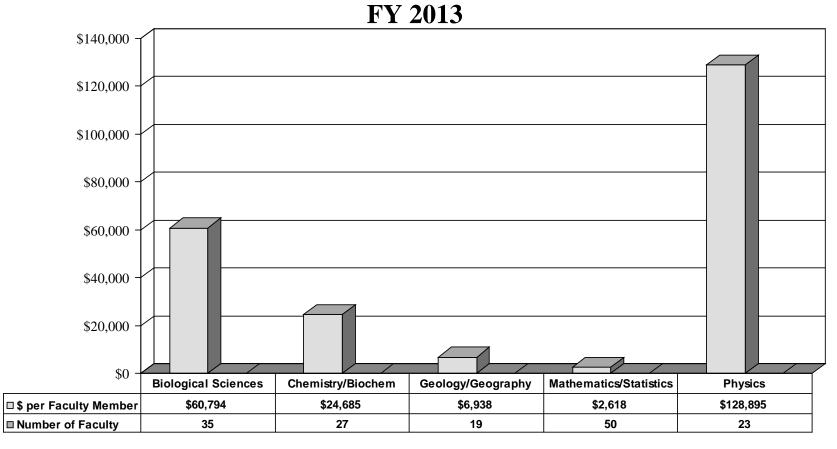
EXTRAMURAL OUTREACH & INSTRUCTION GRANTS WITH NEW DOLLARS RECEIVED IN FY 2013 10/01/2012 - 09/30/2013

PI NAME Physics	PROJECT TITLE	DOLLARS RECEIVED	% CREDIT	SPONSOR	BEGIN DATE	END DATE
Landers, Allen Lee	Robotics and engineering education fostering the conceptual understanding of science	\$31,680	60%	Alabama Dept. of Education - ALDoEd	3/1/2013	9/30/2013
Landers, Allen Lee	Robotics and engineering education fostering the conceptual understanding of science	\$106,620	60%	Alabama Dept. of Education - ALDoEd	3/1/2013	9/30/2013
	Physics Total	\$138,300				
	Physics Count	2				
COSAM Outreach	Physics Count	2				
COSAM Outreach Ewald, Mary L.	Alabama math, science and technology initiative (AMSTI-AU) FY14 Alabama math, science and	2 \$30,120	60%	Alabama Dept. of Education - ALDoEd Alabama Dept. of	10/1/2013	9/30/2014
	Alabama math, science and technology initiative (AMSTI-AU) FY14		60% 60%	Education - ALDoEd	10/1/2013	

EXTRAMURAL OUTREACH & INSTRUCTION GRANTS WITH NEW DOLLARS RECEIVED IN FY 2013 10/01/2012 - 09/30/2013

PI NAME	PROJECT TITLE	DOLLARS RECEIVED	% CREDIT	SPONSOR	BEGIN DATE	END DATE
Ewald, Mary L.	Auburn University Alabama science in motion	\$330,135	100%	Alabama Dept. of Education - ALDoEd	10/1/2012	9/30/2013
Wit, Lawrence C.	Rural medicine program	\$65,525	100%	Alabama Dept of Public Health - ALDoPH	7/1/2010	9/30/2013
	Outreach Total	\$1,659,395				
	Outreach Count	5				
	Outreach & Instruction					
	Grand Total Outreach & Instruction	\$2,258,089				
	Grand Count	12				

EXTRAMURAL FUNDING (New Dollars Received per Faculty Member) by Department



COSAM PATENTS, TRADEMARKS and COPYRIGHTS FY 2012 to FY 2013

Year\$	Number of Disclosures	Number of US Patent Applications (1)	Number of US Patent, Trademarks, and Copyrights Issued	Number of License/Option Agreements (2)	Number of NDA, MOU, MTA, Amends, Teaming, Testing (3)	Total Revenue of Option and License Income	Total Revenue of Option and License Income, Royalty Receipts and Patent Reimbursement
FY 2012	11	16	7	1	20	\$459,480	\$468,960
FY 2013	3	10	4	0	29	\$455,308	\$465,308