

Louisiana Tech University

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Every tomorrow has two handles. We can take hold of it with the handle of anxiety or the handle of faith.

*Henry Ward Beecher
 (1813-1887, American preacher, orator, writer)*

NSF DAY A SUCCESS!!

The National Science Foundation, Louisiana Tech University, Louisiana Tech ADVANCE Program, and Louisiana EPSCoR held an "NSF Day" workshop on Tuesday, November 30, 2010 with approximately 200 in attendance from regional institutions and businesses. This workshop was primarily designed for researchers and educators less experienced in proposing to the NSF; however, more experienced proposers and NSF grantees benefited as well. It is NSF's hope that events such as this will stimulate new interest in NSF programs at institutions that have not been among traditional NSF customers, as well as at premier research institutions.

The workshop provided an overview of the Foundation, its mission, priorities, and budget. It covered the NSF proposal and merit review process and NSF programs that cut across disciplines. Additionally, representatives from the seven NSF directorates and the Office of International Science & Engineering made presentations on their programs.

If you were unable to attend and would like a copy of the handouts and video presentation (limited copies), contact Beth Free in University Research, bfree@latech.edu, 257-5075.

**CAMPUS CLOSURE**

**CHRISTMAS
 DECEMBER 20-31**

HAPPY HOLIDAYS!!!

(Please be prepared to route and submit proposals due during the break no later than Friday, 12/17)

SOUTHERN GROWTH SEEING THE FUTURE WEBINAR

A special (& free!) Webinar scheduled for 12/16/10 @ 2pm ETA (1pm local time). Southern Growth presents its first guide in its Seeing the Future series which includes a set of resource guides designed to help Southern communities better understand current economic trends and to plan ahead for the opportunities of the future. The importance of leadership and social capital to the future of Southern communities will be the focus of this first guide and webinar.

- Hear what Southern Growth thinks are key trends in community leadership.

- Get tips on how to get started in your community

- Learn from an exemplary program in the region.

Featured speakers will include:

Ted Abernathy, Executive Director, Southern Growth Policies Board

Linda Hoke, Director, Council on the Southern Community, Southern Growth Policies Board

Christine Chadwick, Executive Director, FOCUS St. Louis

Registration: The webinar is free, but please register in advance at <https://southern.ilinc.com/register/vfytpwr>.

NEW GRANTS AWARDED

PI/Co-PI	Title	Funding Agency	\$ Award-
T. Grafton/R.Boyd	<i>Project Northland - Claiborne Parish</i>	USDHH thru OAD	34,650
Beer/Madden/Talton	<i>Ouachita Parish/Louisiana Tech MSP: Project Teams Year 3</i>	US Dept. of EDU	29,711
Les Guice	<i>CenturyLink Telecom Program & Professorship</i>	US Dept. of Econ. Dev.	900,000
Rebecca Giorno	<i>Role of Bacillus Anthracis Exosporium in Germination</i>	NIH thru LBRN	19,280
Dua/Napper	<i>Louisiana Biomedical Research Network (LBRN) - LA Tech</i>	NIH thru LBRN	145,859
Alan Chiu	<i>Louisiana Biomedical Research Network (LBRN) - LA Tech</i>	NIH thru LBRN	112,408
June Feng	<i>Louisiana Biomedical Research Network (LBRN) - LA Tech</i>	NIH thru LBRN	112,500
Prerna Sethi	<i>Louisiana Biomedical Research Network (LBRN) - LA Tech</i>	NIH thru LBRN	112,500
Collin Wick	<i>Computational Design of CO2-Philic Hydrocarbon Polymers to Promote</i>	ACS Petroleum	50,000
June 2010			1,924,351
			2009-10 TOTAL
			14,994,56
Erez Allouche	<i>ASTM Scholarship: E. Ivan Diaz-Loya</i>	ASTM International	7,500
Mike Shipp	<i>Comprehensive Center for Rehabilitation Technology</i>	LRS thru DOEducation	3,806,999
Beer/Deese/Madden	<i>The Best of Ripple III</i>	BESE thru LaSIP	15,000
Talton/Patterson/	<i>Beacon Math Project II</i>	BoR/LaSIP/DoEdu	136,923
Box Leangsuksun	<i>Information Analysis and Visualization Enhancements for Resilience</i>	US Dept. of Energy	37,579
Chester Wilson	<i>Bergeron GSRA: Development of Mitro-Rockets for Remote Sensing</i>	NASA thru LaSPACE	5,000
Niel Crews	<i>LaSPACE: GSRA for Collin Tranter</i>	NASA thru LaSPACE	5,000
Beer/McCoy	<i>EPAS On-Line Professional Development Course 2010</i>	BoR	21,000
Les Guice	<i>Louis Back-Up Server</i>	LSU	7,344
Allouche/Alam	<i>Testing of the Bulldog Restraint System Under Biaxial Loading Condition</i>	S&B Tech. Products	12,200
DeCoster/Lvov/Yule	<i>Nanomaterials Safety Lab: Research Integrated with Service and Educa-</i>	BoR/ENH	64,965
Dillaway/Tyree	<i>Physiological Ecology Laboratory Grant</i>	BoR/ENH	43,085
Mark Guinn	<i>Howard Auditorium Rigging Enhancement</i>	BoR/ENH	70,000
Nasi Wasiudden	<i>Superpave Gyrotory Compactor for Highway Engineering Laboratory</i>	BoR/ENH	33,926
Alan Chiu	<i>Upgrade Undergraduate Biomedical Instrumentation Laboratory</i>	BoR/ENH	24,512
Shengnian Wang	<i>Diverging Flow Cell Electroporation to Facilitate in Vitro Biomolecule</i>	BoR/RCS	141,269
Mihaela Paun	<i>DNA Image Segmentation Methods and Statistical Modeling</i>	BoR/RCS	113,554
Palmer/Ramu/Gold	<i>Graduate Fellows in Engineering</i>	BoR/GF	100,000
Jones/Ramu/	<i>Graduate Fellows in Biomedical Engineering</i>	BoR/GF	100,000
Tommy Grafton	<i>Project Northland - Jackson, Lincoln, Claiborne Parish</i>	US DHH/OAD	180,600
Tanya Sims	<i>Increasing Breast Cancer Awareness through Service Learning</i>	S.G. Komen Foundation	528
Simmons/Rea	<i>ULS Serve-Learn Conference</i>	CNCS/ULS	3,023
Evans/Napper	<i>Mathematical Modeling of Biological & Biomedical Engineering Process-</i>	NSF	99,997
Christie Fuller	<i>Building Indicators of Trust for Information Systems</i>	DoD/Oklahoma State	77,256
Yuri Lvov	<i>Tubule Nanocontainers for Corrosion Inhibitors</i>	NSF	238,413
July 2010			5,745,672
James Nelson	<i>SMART Scholarship -Ethan Bryan</i>	DOD thru ASEE	7440
David Gullatt	<i>Louisiana Center for the Blind</i>	La. Center for the Blind	400,000
Les Guice	<i>LaTech Proposal for the Cybersecurity Research Program at the Cyber-</i>	AFOSR	1,189,458
Glenn Beer	<i>LIGO SEC Academic Year Follow-up</i>	USDE/LaSIP	5,011
Glenn Beer	<i>Louisiana Tech On-Line Professional Development Projects</i>	USDE/BoR	70,000
Niel Crews	<i>LaSPACE LURA: Haywood (Preventing the Degradation of PCR Rea-</i>	NASA thru LaSPACE	6,000
Weizhong Dai	<i>GSRA - Moxley: High-Order Accurate Finite Difference Time Domain</i>	NASA thru LaSPACE	5,000

PROPOSALS SUBMITTED

FILE #	PI	Co-PI 's	TITLE	AGENCY	\$ Requested
10-334	Feng, June		Early Detection of AD in Transgenic Mice Model Using Carbonylation Electrophoretic Profiles Obtained from a 2D Microfluidic Chip	NIH	275,000
10-335	Ker, Jun-Ing		Cost-Effectiveness Analysis for Pharmacy Department	LSUHSCS	1,000
10-336	Crews, Niel	Guilbeau, Eric	Feasibility of Microflow Calorimetry for Identifying Amplified Bacterial Dna	NIH	129,214
10-337	Gullatt, David	Schillinger, Don	Value-Added Teacher Preparation Action Research Study Subgrant	BoR	35,000
10-338	Dua, Sumeet		Center of Excellence in Assured Cloud Computing (CAC ²)	AFOSR	6,000,000
10-339	Pope, Janet	Hunt, Alice	The Effect of the Healthy Hops Curriculum on Nutrition/Health Knowledge, Fruit, Vegetable and Low-Fat Milk Consumption in Head Start Preschoolers in Rural Northern Louisiana	ADAF	34,506
10-340	Guice, Les		CenturyLink Telecom Program & Professorship	La. Dept. of Economic Dev.	900,000
10-341	Wick, Collin		CAREER: Computational Studies of Ion and Acid-Base Dissociation Reaction at Aqueous Interfaces	NSF	534,789
10-342	Wick, Collin		Collaborative Research: Atmospheric Trace Gases Interactions With Water Thin Films: Molecular Simulations and Experimental Work	NSF	153,622
10-343	Allouche, Erez	Alam, Shaurav	Testing of the Bulldog Restraint System Under Biaxial Loading Condition	S&B Technical Products	12,200
10-344	Ramachandran, Ramu	Lvov/ Gunasekaran	Acquisition of a Raman Spectrometer-Microscope for Enhancing the Infrastructure for Advanced Chemistry and Nanotechnology Research and Education	NSF	467,080
10-345	Bell, Edward	Ryles, Ruby	Combined Personnel Preparation: Low Incidence Disabilities	U.S Dept. of Education	295,667
10-346	Allouche, Erez		ASTM Scholarship: E. Ivan Diaz-Loya	ASTM International	7,500
10-347	Hou, Songming	Hou, Songming	Shape Reconstruction & Classification Using the Response Matrix	NSF	463,320
10-348	Crews, Niel		Service Lifetime Enhancement of One-Step Microfluidic Prep/PCR/Analysis Instrumentation	NASA	199,436
10-349	Dai, Weizhong		GSRA - Moxley: High-Order Accurate Finite Difference Time Domain Method for Solving Schroedinger Equation	LaSPACE	5,000
10-350	Guice, Les		Louis Back-Up Server	LSU	7,344
10-351	Beer, Glenn	McCoy, B.	EPAS On-Line Professional Development Course 2010	BoR	21,000

PROPOSALS SUBMITTED (CONT'D FROM PAGE 3 . . .)

FILE #	PI	Co-PI 's	TITLE	AGENCY	\$
11-001	Simmons, Richard	Rea, Kenneth	ULS Serve-Learn Conference	ULS	3,023
11-002	Zivanovic, Sandra		Solar Cells and Photodetectors Based on Nano-engineered Active Plasmonics Composites	LaSPACE	6,000
11-003	Eklund, Sven		L.Coon/M.Jeansonne - Electrodeposition of Refractory Metals from Room Temperature Ionic Liquids	LaSPACE/LURA	12,000
11-004	Palmer, James	Strimbu/Lvov	Total Life Cycle Biomass Energy Research at Louisiana Tech University	DOE	5,157,158
11-005	Chiu, Alan		CAREER: Real-Time Decoding Approach to Control Prosthetic Grasping Actions	NSF	447,991
11-006	Weiss, Leland		CAREER: Ambient Thermal Energy Harvesting for Power Generation	NSF	401,386
11-007	Genov, Dentcho		CAREER: Computational Design of Artificial Electromagnetic Materials and Active Plasmonics	NSF	400,066
11-008	Crews, Niel		GSRA: James Haywood	LaSPACE/GSRA	5,000
11-009	Liu, Don		CAREER: An Efficient Model of Disperse Flows at Low to Moderate Reynolds Numbers	NSF	421,048
11-010	Saber, Aziz	Wang, Jay	Improving the Bridge Scour Detection Method	LTRC	400,000
11-011	Saber, Aziz		RPAID T-DECK	LTRC	400,000
11-012	Jaganathan, Arun	Saber, Aziz	Sensors for Bridge Deck Monitoring	LTRC	400,000
11-013	Tims, Heath	Turner, Galen	NASA Threads: Mathematics	NASA	397,474
11-014	Wang, Shengnian		CAREER: Nanoengineering Cell Electroporation to Facilitate Pluripotent Stem Cell Research	NSF	410,389
11-015	Feng, June		CAREER: Subproteome Purification Using Functional Polymer-Based Microfluidics	NSF	467,815
11-016	Evans, Katie		Modeling in a Control Design Framework for Agile Micro Aerial Vehicles	AFOSR	187,167
11-017	Beer, Glenn		LIGO SEC Academic Year Follow-up	BoR/NSF	4,985
11-018	Beer, Glenn		Louisiana Tech On-Line Professional Development Projects	BoR/US Dept. of Education	70,000
11-019	Beer, Glenn	Schillinger/Kennedy	Project MICE	NSF	1,373,688
11-020	Wyatt, Kathy		Business to Barn (B2B) Energy Initiative	USDA Rural Business Cooperative Service	60,000
11-021	Dai, Weizhong		Development of a Higher Order Accurate Finite Difference Time Domain Method for Solving Schroedinger Equation	LaSPACE	11,504

(Cont'd on page 5)

PROPOSALS SUBMITTED (CONT'D FROM PAGE 4 . . .)

FILE #	PI	Co-PI 's	TITLE	AGENCY	\$
11-022	Smith, Rebecca		Teacher Collaboration for Inclusive Settings	BoR	150,000
11-023	Nelson, J.		SMART Scholarship -Ethan Bryan	ASEE	7,440
11-024	Beer, Glenn		Activity Station Support	LaSPACE	9,807
11-025	Allouche, Erez		Fly Ash Processing Trial - Metro Vancouver's Waste-to-Energy Facility - Phase 2	Precix Advanced Cutting Technologies	59,414
11-026	Strimbu, Bogdan	Holly/Gibson	Forest Resources Inventory Laboratory Enhancement	Weyerhaeuser Company Foundation	59,475
11-027	Nelson, James	Turner/ Carpenter	An Integrated Engineering STEP Center	NSF	10,000,000
11-028	Wiggins, Carynn		Destination Singapore Math	LaTech	5,900
11-029	Casas, Irene		A Geocomputation Approach to Understand the Role of Spatial Elements on Defense Preparedness Strategies in Extreme Events	NSF	45,136
11-030	Genov, Dentcho	Genov, Dentcho	Inhomogeneous Metal-dielectric Composite Materials for Solar Cell Applications	DOEnergy	750,000
11-031	Green, William	Normand, Justin	Comparison Study of Tocopherol Supplementation in Horses	Stuart Products	3,219
11-032	Weiss, Leland		Small Scale Solar Thermal Harvesting with Advanced Materials and Storage	DOEnergy	0
11-033	Wick, Collin		Computational Investigation on the Role of Interfaces on Ion and Molecular Transport, Reactivity, and Structure	DOEnergy	0
11-034	Bell, Edward		Rehabilitation Research & Training Center on Blindness	DoEducation	4,232,005
11-035	Robbins, K.		The Aquila Theatre Company Production	SouthARTS	2,500
11-036	Shoemaker, S.		The Measurement of Auditory Interhemispheric Transfer Time in Children	NSF	665,572
11-037	Weiss, Leland	O'Neal C./Hall	Self-sustaining Surface Oil Spill Containment	DOEnergy	0
11-038	Null, Randall	O'Neal C./ Wilson	AMCOM Express Technical Domain	Radiance Technologies	9,246,714
11-039	Wasiuddin, Nazimuddin		Evaluation of Dynamic Shear Rheometer Tests for Emulsions	LTRC	100,000
11-040	Lvov, Yuri	DeCoster/ Mills	Micro/Nano Containers for Sustained Protective Coating & Self-Healing	NSF-MIRT	0
11-041	Jones, Steven		REU: Undergraduate Experiences in Micro/Nanoengineering	NSF	327,906
11-042	Derosa, Pedro		LaSPACE: GSRA/Steven Baker	LaSPACE	5,000
11-043	McDaniel, Janelle	McDaniel, Janelle	Chronic Intermittent Ethanol Exposure and Tolerance Development in Female Adolescent Rats	ABMRF	100,000
11-044	Tyree, Mike	Dillaway, Dylan	Net Ecosystem C Exchange and Leaf Physiology in Short-Rotation Woody Crops Planted on a Latitudinal Transect Along the Mississippi Valley	AFRI	249,781
11-045	Cardenas, Henry	Cardenas, Henry	Electrokinetic Abrasion Resistance Enhancement in Concrete	A.J. Weller Corp	3,445

PROPOSALS SUBMITTED (CONT'D FROM PAGE 5 . . .)

FILE #	PI	Co-PI 's	TITLE	AGENCY	\$
11-046	Karim, Md	Phoha/Dua	DURIP: A Distributed Platform for Capturing, Analyzing, & Combating Botnet Attacks	AFOSR	60,164
11-047	Crews, Niel		Development of a Bioanalytical Nanosatellite	LaSPACE	17,656
11-048	Mills, David	Yule, Jeffery	Environmental Literacy Grants for Formal K12 Education	NOAA	1,315,575
11-049	Merchant, David	Smith, James	Green Clinic Consortium	La. Workforce Commission	273,096
11-050	Wilson, Chester	Null, Randy	FIB Capability for AT-RER	DoD	684,934
11-051	Selmic, Rastko		Unknown Wireless Network Discovery	Radiance Technologies	30,000
11-052	Tyree, Mike	Dillaway, Dylan	Metabolic Acclimation and Carbon-use Efficiency of Short-Rotation Woody Crop Species Grown on Marginal Agricultural Land on the Lower Mississippi Alluvial Valley	BoR/RCS	104,000
11-053	Gibson, Mark	Grozdzits, George	Louisiana Forest Products Development Center at Louisiana Tech University	LSUAC	41,580
11-054	Beer, Glenn	Keith-Vincent, Lindsey	LaGEAR UP Summer of Innovation	NASA	39,700
11-055	Cahoy, Dexter		Statistical Methods for Fractional Linear Birth-Death Processes	BoR/RCS	146,121
11-056	Yule, Jeffrey		Modeling the Ecological and Evolutionary Causes and Consequences of Extinctions	BoR/RCS	90,726
11-057	Wolf, William		Evaluation of Toxicity and Gene Expression Profiles in Developing Fathead Minnows Exposed to Metal Nanoparticles	BoR/RCS	46,736
11-058	Hindmarsh, Patrick		Development of Biodiesel Biofuel	BoR/RCS	99,931
11-059	O'Neal, Chad		Contaminant Sensors for Military Aircraft Fuel	Dod/Radiance	14,942
11-060	Genov, Dentcho		Artificial Optical Materials for Molding the Flow of Light	BoR/RCS	140,000
11-061	Zivanovic, Sandra	Genov/O'Neal	Research and Education on Plasmonically Enhanced Solar Photovoltaic Devices	NSF	99,969
11-062	McDaniel, Janelle		Chronic Intermittent Ethanol Exposure and Tolerance Development in Female Adolescent Rats	BoR/RCS	135,000
11-063	Gourd, Jean		API-S: Addressing Mobile Agent Security for More Robust Intelligent Agents	BoR/RCS	150,000
11-064	Haberman, Heather	Murimi/Yates/Kim	Innovative Diabetes Self-Management Intervention Through Technology	BoR/RCS	300,000
11-065	Atkison, Travis		Developing an Effective Dimensionality Reduction Methodology for Malicious Software Detection Predictors	BoR/RCS	150,000
11-066	Feng, June		Glutathionylation Profiling in a Transgenic Mouse Model of Alzheimer's Disease...	BoR/RCS	150,000
11-067	Baggag, Abdelkader		Parallel Algebraic Multigrid Methods for Large Scale Problems on the LONI Infrastructure...	BoR/RCS	180,000
11-068	Dua, Prerna		Novel Methods for Microarray Gene Expression Data Mining for Translational Bioinformatics	BoR/RCS	141,510
11-069	Grozdzits, George	Strimbu/Gibson	Advanced Fiber and Particle Measurement and Characterization System for Emerging New Paper Products Industry	BoR/ITRS	250,200

PROPOSALS SUBMITTED (CONT'D FROM PAGE 6 . . .)

FILE #	PI	Co-PI 's	TITLE	AGENCY	\$
11-070	Strimbu, Bogdan	Holly/Gibson	Assessment of Forest Planning Sensitivity to Product Allocation Using Remote Sensing Data	BoR/ITRS	220,034
11-071	Strimbu, Bogdan		Development of An Analytical Framework for Mixed-Species Stands Dynamics	BoR/RCS	161,108
11-072	Wasiuddin, Nazi-muddin		Improving Temperature and Moisture Conditions of Aggregate on Asphaltic Surface Treatments: A Test Road Study	BoR/ITRS	60,000
11-073	Wasiuddin, Nazi-muddin		A Novel Moisture Conditioning Method for Asphalt-Aggregate Adhesion	BoR/RCS	101,000
11-074	Feng, June		Collaborative Research: Integrated Modular Microfluidic System with Subproteome Affinity Extraction and 2D Micro-Electrophoresis for Protein Profiling	NSF	216,767
11-075	Gibson, Mark		Molecular and Nano Diffusion in Cell Wall of Natural Fibers	NSF	16,500
11-076	Martin, Michelle	Fuller/Theodos/Dua/Baxter	Transition to ICD-10 CM/PCS Coding and Reimbursement System	BoR/ENH	127,218
11-077	Stoff, Laurie		More than Binding Men's Wounds; Women's Medical Service in Russia During the Great War	ACLS	35,000
11-078	Que, Long		Self-Reciprocating Cantilever for Hybrid Energies Harvesting	NSF	304,458
11-079	Darland, Nancy		Service Learning: Maternal/Newborn Community Outreach Projects	Beta Chi Chapter, Sigma Theta Tau Int'l/NW State	500
11-080	Mainardi, D.	Cardenas/Kanno	Corrosion Mitigation in Concrete Using Electrokinetic Nanoparticle Treatment	NSF	610,650
11-081	Tyree, Mike	Palmer, Wesley	Downsville Community Forestry Education Program: Tree Identification and Mapping of Bryan Park	La. Dept. of Agriculture & Forestry	3,892
11-082	Buboltz, Walter	McDaniel, Janelle	The Relationship of Sleep Quality to Health, Activity Level, Obesity and College Adjustment	NIH	336,699
11-083	Davis, Despina	Genov, Dentcho	Electromagnetic Metamaterials Electrodeposition	NSF	343,866
11-084	Stoff, Laurie		More than Binding Men's Wounds; Women's Medical Service in Russia During the Great War	BoR/ATLAS	22,072
11-085	Gibson, Mark		McIntire-Stennis Cooperative Research Program 2011	USDA	230,895
11-086	Guice, Les		La EPSCoR Research Infrastructure Improvement Computational Materials EPSCoR Chair Subcontract	BoR/EPSCoR	14,500
11-087	Allouche, Erez	Jaganathan/Simicevic	Pipeline Custodian - Advanced Inspection System for Unpiggable Steel Pipelines	Gas Technology Institute	250,000
11-088	Wang, Shengnian		On Chip Fiber-optics assisted cell trapping and electroporation	NIH	476,878
11-089	Jaganathan, Arun	Allouche, Erez	Energy From Sewers Project Support	IPEX	10,000
11-090	Kennedy, Angela		2010-2011 Carl Perkins Carry-Over	LTCTCS	3,727
11-091	Beer, Glenn	Leonard/Schillinger	Rigor and Relevance in the Classroom: The Path to Educational Excellence	BoR/ENH	168,508
11-092	Chauvin, Ida	McDaniel, Janelle	Parents and Children Together for Student Success (PACT)	Entergy	1,000
11-093	DeCoster, Mark		Nanosilica Tubes for Passivation of CdSe Quantum Dots-Stability and Toxicity in Vitro	NIH	140,950

PROPOSALS SUBMITTED (CONT'D FROM PAGE 7 . . .)

FILE #	PI	Co-PI 's	TITLE	AGENCY	\$
11-094	Kennedy, Angela	Moore, Pamela	2010-2011 Carl Perkins Basic Grant	LCTCS	28,163
11-095	Phoha, Vir	Karim/Balagani	Keylogger Based Insider Threat Detection	DARPA	1,033,141
11-096	Cox, Marilyn		NMR Spectrometer for Undergraduate Organic Chemistry Labs	BoR/ENH	145,000
11-097	Roberts, Tom		College of Business Virtual Laboratory	BoR/ENH	108,000
11-098	Turner, Galen	Tims, Heath	Cyber-Threads: Louisiana Tech's Regional Cyber Education Center	NSF	2,999,024
11-099	Heiden, Kathleen		RETAIL: Resources for Experiential Teaching & Active Individualized Learning	BoR/ENH	290,115
11-100	Heiden, Kathleen		Creative Deisgns: Integrating Instruction from the Lab to the Classroom	BoR/ENH	102,360
11-101	Harpel, Tammy		Enhancement of the SHARE Library with Parent and Family Life Education Materials	BoR/ENH	33,092
11-102	Corley, Mel		TUES Type 3: Holistic Design	NSF	139,381
11-103	Kimbell-Lopez, Kimberly	Cummins/Vessel	Literacy/Technology Model Classroom	BoR/ENH	139,752
11-104	Crews, Niel		Development of a Bioanalytical Nanosatellite	NSF	30,231
11-105	Chestnut, Laura	Yates/Gallagher/Brooks/Ericson	An Educational Model of an Outdoor Learning Space for the Development of Young Children	BoR/ENH	86,220
11-106	Wang, Shengnian		Microfluidics-Mediated Delivery of Biomolecule Probes for ES and Cancer Cells	NIH	330,340
11-107	DiCarlo, Mike		Save our LOUIS	BoR/ENH	0
11-108	Ramachandran, Bala	Wick/Derosa/Mainardi	Shared Memory Computational Infrastructure for Computational Chemistry & Materials Science Education	BoR/ENH	67,000
11-109	O'Neal, Patrick	Eklund/Hegab	Undergraduate Nanoparticle Manufacturing Lab Enhancement	BoR/ENH	74,462
11-110	Eklund, Sven	O'Neal, Patrick	Industry Experience for Undergraduates Using Raman Spectroscopy	BoR/ENH	76,287
11-111	Gibson, Mark		Molecular and Nano Diffusion in Cell Wall of Natural Fibers	BoR/ENH	16,500
11-112	Shaw, John	Siriwardane/Grimm	Enhancement of the Upper Level Physics Laboratories at LaTech	BoR/ENH	62,943
11-113	Bowers, Tiffany	Schilling, T.	Building Capacity Through Collaboration and Integration to Enhance Health & Education	BoR/ENH	72,134
11-114	Allouche, Erez		Demonstration of Innovative Technologies for Rehabilitation of Wastewater Conveyance Systems	Battelle/WERF	35,000
11-115	Jaganathan, Arun	Allouche, Erez	E-Vortex: Energy Harvesting from Waste and Storm Water Conveyance Systems	WERF	107,643
11-116	Wang, Shengnian		Hybrid-stress Microfluidics to Advance the Synthesis of Polymer-DNA Complex	NSF	299,954
11-117	Allouche, Erez	Jaganathan/Alam	Advanced Development & Demonstration of Non-Intrusive Duct Lining Technology for Sealing/Rehabilitation of Ducts in Residential Buildings	NYSEADA	175,000

PROPOSALS SUBMITTED (CONT'D FROM PAGE 8 . . .)

FILE #	PI	Co-PI 's	TITLE	AGENCY	\$
11-118	McColum, Heather	Murimi/Colvin	Development of a Parents' Academy for Lincoln Parish Schools and Parental Health & Educational Support Network	Lincoln Health Foundation	53,543
11-119	Pickett, Paige	Griffin/Crawford	University Health Center Enhancement	Lincoln Health Foundation	275,000
11-120	Carpenter, Jenna		ADVANCEing Executive Leadership for Faculty Development	NSF/WEPAN	56,987
11-121	McFadden, Patti	Sims/Books	Sexual Health: Raising STI Awareness	Lincoln Health Foundation	1,000
11-122	Wang, Jay		Computational Modeling of Initiation and Propagation of Compaction Bands in Saturated Porous Rocks Due to Reservoir Production and Injection	ACS	100,000
11-123	Schilling, Tammy	Dornier/Beer	Louisiana Tech/LA GEAR UP Sports Medicine	BoR/LaGEAR UP	115,160
11-124	Cummins, Carrice	Kimbell-Lopez/Vessel	W7: Words at their Best	BoR/LaGEAR UP	224,669
11-125	Beer, Glenn	Schillinger/Cummins	Implementation of ACT Quality Core in LaGEAR UP Schools	BoR/LaGEAR UP	461,242
11-126	Kelly, Lori	Poehl, Terrie	Laying the Foundation for Singapore Mathematics/7-12 Classroom Research Grant	National Council of Teachers of Mathematics	5,752
11-127	Kelly, Lori	Poehl, Terrie	Laying the Foundation for Singapore Mathematics/Pre-K-6 Classroom Research Grant	National Council of Teachers of Mathematics	5,752
11-128	Beer, Glenn		LaCAMPS 2011 (Management)	BoR/LaSIP	393,347
11-129	Beer, Glenn	Keith-Vincent, Lindsey	LA GEAR UP Explorers Camps (Summer Learning Camps)	BoR/LaSIP	287,729
11-130	Schillinger, Don	Beer, Glenn	Building Bridges to the Future Camp	BoR/LaSIP	154,899
11-131	Beer, Glenn	Deese/Madden	Best of RIPPLE IV	BoR/LaSIP	259,138
11-132	Talton, Carolyn	Beer, Glenn	BEACON Math Project	BoR/LaSIP	195,523
11-133	Paun, Mihaela		DNA Microarrays Segmentation Methods	BoR/Pfund	10,000
11-134	Saber, Aziz		Brace Test	Crest Industries	7,490
11-135	Allouche, Erez		Performance of Aquapipe Liner at the Location of Ring Fractures - Phase 2	Sanexen Environmental Services, Inc.	12,200
11-136	Allouche, Erez		DOE SBIR Phase I Proposal - A Novel Duct Sealing Technology	Seven Winter Associates	50,000
11-137	Liu, Don		Collaborative Research: A Mathematical Approach for Sediment Transport & Application in Coastal Erosion	NSF	156,505
11-138	Paun, Mihaela	Dai, Weizhong	Computational Analysis of DNA Microarrays Segmentation Methods	NSF	369,495
11-139	Mills, David	Mainardi	LaTech's RET Site: Creating Curricula & Careers Through Collaboration, Inquiry	NSF	498,126
11-140	Ramachandran, Bala	Turner/Dai	Computational Analysis and Modeling Doctoral Graduate Fellows 2012-2016	BoR/GF	200,000
11-141	McConathy, Terry	Ramachandran, Ramu	Increasing Diversity in the Doctoral Student Populations at Louisiana Tech University	BoR/SREB	380,000

PROPOSALS SUBMITTED (CONT'D FROM PAGE 9 . . .)

FILE #	PI	Co-PI 's	TITLE	AGENCY	\$
11-141	McConathy, Terry	Ramachandran/Young	Increasing Diversity in the Doctoral Student Populations at Louisiana Tech University	BoR/SREB	380,000
11-142	Phoha, Vir		Center ECOSystem Mapping, Modeling & Monitoring (CECOM3)	NOAA	500,000
11-143	Beer, Glenn		Expedition to Mars: Train the Mind, Train the body, Train for Life! (CACG)	US Dept. of Edu	62,166
11-144	Beer, Glenn		Expedition to Mars: Train the Mind, Train the body, Train for Life! (CACG)	Exxon Mobile/ Bernard Harris Foundation	79,586
11-145	Palmer, James	Ramachandran/Turner	Superior Graduate Fellows Supporting Three Centers of Excellence in Engineering 2012-2016	BoR/GF	300,000
11-146	Sims, Tanya		Increasing Breast Cancer Awareness through Service Learning	NCL/Susan G. Komen for the Cure	526
11-147	Weiss, Leland		Novel MEMS-based Thermal Energy Harvesting for Sustainability	BoR/Pfund	10,000
11-148	Choi, Ben		Frameworks for Social Computing Systems	NSF	163,527
11-149	Guice, Les		LEQSF (2010) Oil Spill-Travel-Tech	BoR	2,280
11-150	Edwards, Thea		Distribution and Physiology of Phytoestrogens	BoR/Pfund	10,000
11-151	Lvov, Yuri		Polymer/Clay Nanotube Composite Coating with Enhanced Strength for Deep Water Applications	NSF	0
11-152	Lvov, Yuri		Polymer/Clay Nanotube Composite Coating with Enhanced Strength for Deep Water Applications	BoR/Pfund	10,000
11-153	Wang, Jay		Inception of Compaction Localization in Saturated Porous Rock Within Oil Reservoir	BoR/Pfund	10,000
11-154	Hindmarsh, Patrick		Development of Biodiesel Using an Alternative Carbon Source	BoR/Pfund	10,000
11-155	Guice, Les		LA Partnership for Accelerating Innovative Research: Leveraging Applied Res. Infrastructure to Accelerate the Regional Innovation Ecosystem Across North & South Louisiana	NSF	0
11-156	Que, Long		Power Generator Based on a Self-Reciprocating Cantilever	DARPA	293,576
11-157	Phoha, Vir	Balagani, K.	Defending Against Non-zero Effort Insider Attacks on Real-time Cyber Behavioral Access Monitoring	NSF	392,313
11-158	Zivanovic, Sandra		Surface Plasmon Resonance for Photovoltaic Device Efficiency Augmentation	BoR/Pfund	10,000
11-159	Wang, Shengnian		Label-free Cell Sorting by Optical Forces and Microfluidics	BoR/Pfund	10,000
11-160	Stimbu, Bogdan		Development of an Analytical Framework for Mixed-Species Stands Dynamics	BoR/Pfund	10,000
11-161	Crews, Niel		Iso-Flux Calorimetry: A Proof-of-Concept Study	BoR/Pfund	10,000
11-162	Wasiuddin, Nazimuddin		Characterization of Hole Growth During Dewetting of Asphalt Film	BoR/Pfund	10,000
11-163	Phoha, Vir	Karim/Balagani	PAIN: Predictive Analysis of Insider Networks/ MIA Malicious Intent Analysis	DARPA	1,068,775

NEW GRANTS AWARDED (CONTINUED FROM PG. 2)

Chester Wilson	<i>Sweeney GSRA: Field-Portable, Nanowire-Enhanced Plasma Spectroscopic Sensor Platform</i>	NASA thru LaSPACE	5,000
Gullatt/Schillenger	<i>Value-Added Teacher Preparation Action Research Study Subgrant</i>	BoR	35,000
Mary Murimi	<i>Menu Modification for Lincoln Parish Child Nutrition Program</i>	USDA	30,000
Dylan Dillaway	<i>Seasonal Effects of Prescribed Burning on Longleaf Pine (Pinus palustris Mill.) Vigor and Mechanisms for Tolerating Repeated Crown Scorch</i>	USDA Forest Service	31,723
Green/Normand	<i>Comparison Study of Tocopherol Supplementation in Horses</i>	Stuart Products	3,219
O'Neal P./Shipp	<i>LaTech RAPD Senior Design Program</i>	NSF	124,990
Patrick Hindmarsh	<i>Environmental Effects on Bacillus Firmus Growth</i>	Syngenta	5,000
August 2010			404,441.27
Guy Carwile	<i>HABS Drawings-Old Bank of Minden</i>	La. Division of Historic Preservation	3,675
Carynn Wiggins	<i>Destination Singapore Math</i>	BESE	5,900
Stan Napper	<i>Bioenergy/Bionanotechnology Projects</i>	US Dept. of Energy	500,000
Glenn Beer	<i>Experiment Gallery Activity Station Support</i>	NASA/La. Space Consortium	9,807
Jun-Ing Ker	<i>Cost-Effectiveness Analysis for Pharmacy Department</i>	LSUHCS	1,000
Mark Gibson	<i>Louisiana Forest Products Development Center at Louisiana Tech University</i>	LSU Ag Center	41,580
Davy Norris	<i>Louisiana Tech Enterprise Center</i>	US Dept. of Commerce	112,850
N. Wasiuddin	<i>Evaluation of Dynamic Shear Rheometer Tests for Emulsions</i>	LTRC	100,000
Glenn Beer	<i>The Best of Ripple III</i>	US Dept of Education	50,237
Markus Wobisch	<i>ARRA: Search for New Physics Signals in Jet Production at Hadron Colliders from 2.3 TeV to 14 TeV</i>	US Dept. of Energy	240,000
Eric Deemer	<i>The Mediating Role of Stereotype Threat & Achievement Goals in the Regulation of Scientific Motivation</i>	NSF	312,134
Lindsey Keith-Vincent	<i>Project INVEST Year 2</i>	CNCS/LSC	17,970
Chester Wilson	<i>Sweeney Fellowship</i>	NASA/LaSPACE	25,000
Niel Crews	<i>GSRA: James Haywood</i>	NASA/LaSPACE	5,000
September 2010			1,425,153
Sven Eklund	<i>Electrodeposition of Refractory Metals from Room Temperature Ionic Liquids-L.Coon/M.Jeanssone</i>	NASA/LaSPACE	12,000
Kathy Wyatt	<i>Enterprises Integrating Everyday Ingenuity</i>	USDA	199,956
Rebecca Smith	<i>Teacher Collaboration for Inclusive Settings</i>	US Dept. of Edu//BoR	150,000
Despina Davis	<i>A Novel Method of Molten Salt Electrodeposition of High-TC Superconducting Bi(PB)-SR-CA-CUO Nanostructures</i>	NASA	5,228
Kathy Wyatt	<i>Business to Barn (B2B) Energy Initiative</i>	USDA	60,000
Arun Jaganathan	<i>Energy From Sewers Project Support</i>	IPEX	10,000
Mark Gibson	<i>McIntire-Stennis Cooperative Research Program 2011</i>	USDA	230,895

NEW GRANTS AWARDED (CONTINUED FROM PG. 11)

Patrick O'Neal	<i>Clinical Feasibility of Real-time Optical Feedback During Nanoparticle Therapy</i>	NIH/Nanospectra	58,160
Bala Ramachandran	<i>EPSCoR RII: Louisiana Alliance for Simulation-Guided Materials Applications (LA-SiGMA)</i>	NSF/BoR	613,606
Les Guice	<i>La EPSCoR Research Infrastructure Improvement Computational Materials EPSCoR Chair Subcontract</i>	NSF/BoR	14,500
Sandra Zivanovic	<i>Solar Cells and Photodetectors Based on Nano-engineered Active Plasmonics Composites</i>	NASA/LaSPACE	6,000
Erez Allouche	<i>Advanced Development & Demonstration of Non-Intrusive Duct Lining Technology for Sealing/Rehabilitation</i>	NYSEARCH NGA	185,000
October 2010			1,545,345
Les Guice	<i>Network Intrusion Detection Using Associates Rule-Based Expert System & Hyperspectral Change Detection</i>	Clarkson Aerospace	125,000
Henry Cardenas	<i>Electrokinetic Abrasion Resistance Enhancement in Concrete</i>	J Weller Corp	3,445
Les Guice	<i>Louisiana Tech's Research Scholars Program: Creating Competencies, Curricula, and Careers Through University/K-12 Research Partnerships</i>	DOD/Clarkson Aerospace	100,000
Randal Null	<i>AMCOM Express Technical Domain</i>	DOD/Radiance	1,054,977.43
Gary Stokley	<i>Workplace and Community Transition for Incarcerated Youth Offenders Program</i>	US Dept of Education	50,000
Carolyn Talton	<i>Beacon Math Project II</i>	BESE/LaSIP	43,272
Erez Allouche	<i>Advanced Development & Demonstration of Non-Intrusive Duct Lining Technology for Sealing/Rehabilitation of Ducts in Residential Buildings</i>	NYSEDA/Steven Win- ters Assoc.	175,000
November 2010			1,551,649.43
Les Guice	<i>LEQSF (2010) Oil Spill-Travel-Tech</i>	BoR	2,280
Chester Wilson	<i>CAP/FAB</i>	DOD/Radiance	400,000
Angela Kennedy	<i>2010-2011 Carl Perkins Basic Grant</i>	US Dept. of Education	31,890
Weizhong Dai	<i>Development of a Higher Order Accurate Finite Difference Time Domain Method for Solving Schroedinger Equation</i>	NASA/LSU	11,504
December 2010			445,674.00
YTD 2010-11 Total:			\$12,498,170

To find \$\$ for your research, go to: http://research.latech.edu/resources/funding_opportunities (copy & paste link) or contact Beth Free, Pre-award Coordinator, 257-5075 or bfree@latech.edu.

ADDITIONAL GRANT FUNDING FOR EXISTING AWARDS

- K. Johnston, PRECISION ELECTROWEAK MEASUREMENTS AT JEFFERSON LAB, NSF \$194,119;
- R. Giorno, ROLE OF BACILLUS ANTHRACIS EXOSPORIUM IN GERMINATION, NIH thru LSU \$1,000;
- B. Ramachandran, SUPERIOR GRADUATE FELLOWS IN ENGINEERING, BoR \$25,000;
- B. Ramachandran, GRADUATE FELLOWS IN BIOMEDICAL ENGINEERING, BoR \$50,000;
- J. Nelson, SCIENCE, MATHEMATICS, & RESEARCH FOR TRANSFORMATION DEFENSE SCHOLARSHIP - JOSEPH DEES, DOD thru ASEE \$5,790;
- E. Allouche, GEOPOLYMERIZATION POTENTIAL, Cleco Power, LLC \$20,000;
- T. Dobbins, COMPUTATIONAL CATALYSTS AND ATOMIC-LEVEL SYNTHESIS OF MATERIALS: BUILDING EFFECTIVE CATALYSTS FROM FIRST PRINCIPLES, US Dept. of Energy thru LSU \$110,304;
- M. Paun, CSR-DMSS, PSCE: COLLABORATIVE RESEARCH: SCALABLE RESILIENCE IN LARGE-SCALE SYSTEMS, NSF \$120,000;
- G. Beer, A COMPREHENSIVE SCHOOL REFORM INITIATIVE FOR LOUISIANA GEAR UP SCHOOLS-YEAR 3, US Dept. of Education thru LaGEARUP \$109,055;
- G. Beer, A COMPREHENSIVE SCHOOL REFORM INITIATIVE FOR LOUISIANA GEAR UP SCHOOLS-YEAR 3, US Dept. of Education (NCLB) thru LaGEARUP \$71,385;
- M. O'Neal, PROVIDING MANAGERIAL EXPERTISE TO NETWORK FOUNDATION TECHNOLOGIES, Network Foundation Technologies, LLC \$23,334;
- C. Wick, SYNTHESIS OF NANOPOROUS MATERIALS IN IONIC LIQUIDS: A FUNDAMENTAL STUDY OF THE SOLVENT'S ROLE, NSF thru Kansas State University \$8,651;
- D. Mills, TEXAS REGIONAL COLLABORATIVES FOR EXCELLENCE IN SCIENCE TEACHING, Shell Oil thru University of Texas \$12,040;
- D. Dillaway, SEASONAL EFFECTS OF PRESCRIBED BURNING ON LONGLEAF PINE VIGOR AND MECHANISMS FOR TOLERATING REPEATED CROWN SCORCH, USDA Forest Service \$3,133.80;
- R. Giorno, ROLE OF BACILLUS ANTHRACIS EXOSPORIUM IN GERMINATION, NIH thru LSU \$2,759;
- E. Bell, EDMUND S. MUSKIE FELLOWSHIP, U.S. State Dept. thru IREX \$7,360;
- E. Allouche, TESTING OF THE BULLDOG RESTRAINT SYSTEM UNDER BIAXIAL LOADING CONDITION, S&B Technical Products \$3,000;
- N. Zotov, LIGO DATA ANALYSIS: VETO AND FOLLOW-UP ANALYSES, AND DETECTOR CHARACTERIZATION, NSF \$53,151;
- C. Wilson, COMMERCIALIZATION OF METAL NANOSTRUCTURES FOR BIOMASS FUEL CONVERSION, BoR \$48,909;
- D. Greenwood, LASPACE FELLOW - MJ HARTMANN-LA TECH, NASA thru LSU/LASPACE \$16,667;
- C. Leangsuksun, RELIABILITY, AVAILABILITY, AND SERVICEABILITY, FOR PETASCALE HIGH-END COMPUTING AND BEYOND, Dept. of Energy \$50,000;
- D. Greenwood, LASPACE FELLOW - S.D. BAKER - LA TECH, NASA thru LSU/LASPACE \$16,667;
- C. Wilson, LASPACE FELLOW-PROF. DICK GREENWOOD-NOAH BERGERON-LA TECH, NASA thru LSU/LASPACE \$16,667;
- C. Wilson, LASPACE FELLOW-PROF. DICK GREENWOOD - J.M. BROWN-LA TECH, NASA thru LSU/LASPACE \$16,667;



Best wishes for a safe & happy Christmas!