



## BREEZE BULLETIN

Office of University Research (<http://research.latech.edu>)

If opportunity doesn't knock, build a door.

Milton Berle  
(1908-2002, American Actor, Entertainer)

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### LATECH IN-HOUSE WORKSHOPS

Below is a partial list of workshops sponsored by the Office of University Research designed to assist faculty in successfully writing and managing grants:

- **Fall Funding Opportunities With The Board of Regents.** Learn about the different sub-programs available and eligible disciplines.
- **Life in the Fastlane System.** Learn how to prepare National Science Foundation (NSF) proposals in the Fastlane system. A 'hands-on' workshop for novices.
- **LaSMARTS/LaGENIUS.** Set up an on-line profile and key word search for state, federal & foundation funding opportunities.

Please contact Beth Free at 257-5075 or [bfree@latech.edu](mailto:bfree@latech.edu) in the Office of University Research to schedule a workshop in your dept. or college, or go to: [http://research.latech.edu/resources/resource\\_links/louisiana\\_tech\\_workshops](http://research.latech.edu/resources/resource_links/louisiana_tech_workshops) to view a more complete list and to check scheduling dates and times.

### 2009 FEDERAL RESEARCH FUNDING

AAAS September R&D Funding Update September 30, 2008

(This report is a summary of AAAS estimates and analyses of federal R&D appropriations in the FY 2009 appropriations process as of the October 1 start of FY 2009.)

Congress has made little progress on the federal government's budget for fiscal year (FY) 2009, which begins October 1, leaving federal funding for research and development (R&D) in limbo. Congress is preparing to leave Washington for the rest of the year after completing action on a bailout for the financial sector, postponing final budget decisions for most federal agencies until 2009. To keep the government operating, lawmakers approved a continuing resolution (CR) extending funding for all programs in unsigned 2009 appropriations bills at 2008 funding levels through March 6. The CR contains final FY 2009 appropriations for the Departments of Defense (DOD), Homeland Security (DHS), and Veterans Affairs (VA); all three receive substantial increases for their R&D portfolios, but other federal agencies in the remaining 9 of the 12 appropriations bills will be operating temporarily at or below 2008 funding levels for several months. Earlier in the year, congressional appropriators endorsed large increases for the three physical sciences agencies in the American Competitiveness Initiative (ACI), increases for human spacecraft development, increases for biomedical research in the National Institutes of Health (NIH), and increases in other parts of the federal research and development (R&D) portfolio. But instead, most federal programs will continue to operate at or below 2008 funding levels for several months into the new fiscal year. In real terms, the federal investment in basic and applied research has already declined since 2004, and under the CR federal funding of research would decline again in 2009 for the fifth year in a row.

(See sector funding projections and other info at [www.aaas.org/spp/rd/upd908.htm#out](http://www.aaas.org/spp/rd/upd908.htm#out))

## NEW GRANTS AWARDED

PI/Co-PI	Title	Funding Agency	\$ Awarded
Harpel/Myers/ Pumphrey	SHARE: Strengthening Health Through Age-appropriate Resources and Education Library	BoR	51,464
Sven Eklund	Enhancement of the Analytical Chemistry and Instrumental Analysis Labs	BoR	31,080
Wilson/ McDonald/ Dobbins/Derosa	Thermal Evaporator for Physics Education & Research	BoR	59,500
Siriwardane/Ji/ Sawyer	Incorporation in Nano-Scale Surface Characterization Techniques into LaTech Chemistry Physics Integrated Labs	BoR	85,238
Marilyn Cox	Infrared Spectroscopy Use in Undergraduate Organic Chemistry Labs	BoR	55,950
Collin Wick	Computational Modeling and Design of Polymer Electrolytes for Rechargeable Lithium Ion Batteries	BoR	118,555
Despina Davis	Electrodeposition of Multilayered Magnetic and Thermoelectric Nanotubes	BoR	118,279
Gold/ Ramachandran	Superior Graduate Fellows in Engineering	BoR	96,000
Henrickson/ Odom	Communication Difficulty & Noise in Small Training Aircraft	Wolf Aviation	4,000
Neven Simicevic	Improving the Capabilities of Acoustic Sensors Using Numerical Finite Difference Time Domain Method - Building a Virtual Testing Laboratory	Underground Imaging	27,340
Yuri Voziyanov	Tailor-made Variants of Site-Specific Recombinases as Tools for Genome Engineering	NIH	267,526
Mills/Jones	GK-12 Graduate Teaching Fellows	NSF	20,000
Patrick O'Neal	Physician-Free Nanoparticle Based Drug Delivery for Space Related Applications	NASA through LaSPACE	5,000
Scott Gold	Development of a Nanostructured Ammonia Borane Hydrogen Generator (Prejean)	NASA through LaSPACE	5,000
Scott Gold	Alternative Purrole Based Fuel Cell Catalyst Development	NASA through LaSPACE	10,000
Sidney Sit	Modification of a Corneal Tissue Engineered Scaffold to Modulate Responses of Epithelial Cell	NASA through LaSPACE	10,000
Kenny Crump	EPA Fellowship	Oak Ridge National Lab.	99,126
Chad O'Neal	Fabrication of a Probe-Tip Changer on SO1 Wafers	NSF through Univ. of Florida	5,547
Leansuksun/ M.Paun	CSR-PSCE DMSS: Collaborative Research: Scalable Resilience in Large-Scale Systems	NSF	180,000
Glenn Beer	Experiment Gallery Activity Station Support	NASA through LaSPACE	14,248
Poehl/Gullatt	Caldwell Parish Mathematics Initiative	Caldwell Parish School Board	14,000
Carynn Wiggins	Singapore Math - It Adds Up	BESE	4,282
Glenn Beer	Building Capacity of SciTEC to Broaden the Impact of it's Educational Outreach Mission	U.S. Dept. of Edu.	335,043
Glenn Beer	Lincoln Parish Professional Development Projects 2008	Lincoln Parish Schools	5,000
Vir Phoha	Advanced Development and Integration of Keyboard Biometric Techniques to Support Information Operations	US AF through AIS	221,260
Wilson/Derosa	Get Chad the Money	LaSPACE	25,000
Timothy Morrow	Advanced Development and Integration of Keyboard Biometric Techniques to Support Information Operations	NSF through KSU	8,181
<b>Aug. 2008 Total</b>			<b>\$1,876,619</b>
Erez Allouche	Enhancing the Tensile Modulus of Low Viscosity Grout Using Micro-Fibers	Ultraliner	1,000
Ji Fang	High Sensitivity Prostate Cancer Detection System	ULM	2,000
Chester Wilson	Radiation Detectors Fellowship/Pelligrin	DOD/OAD	224,164
Grafton/Boyd	Claiborne Parish Partners in Prevention	DHH/OAD	51,104
Cicciarella/ Reeves	Ready Campus First Aid & CPR	BoR thru Campus Compact	2,498

## NEW GRANTS AWARDED (CONTINUED FROM PG. 2)

PI/Co-PI	Title	Funding Agency	\$ Awarded
Palmer/Hegab	<i>Teaching Undergraduates Nanomanufacturing Engineering (TUNE)</i>	NSF	200,000
Ahmad Atassi	<i>Homs from the Sixteenth Century: A Socio-Political History of a Small Ootoman Town in Syria - Data Collection Phase</i>	Atassi Foundation	1,000
Vir Phoha	<i>Secure and Survivable Cyber-Centric Sensor Networks: Algorithms and Architecture Research</i>	DOD through LSU	169,439
Prerna Sethi	<i>Microarray Gene Expression Biclustering Using Associative Pattern Mining</i>	NIH through LSU	50,000
<b>Sept. 2008 Total</b>			<b>\$701,205</b>
Mark Gibson	<i>McIntire-Stennis Cooperative Research Program - FY 09</i>	USDA	209,977
Guice/Dua/ Selmic	<i>Sensors Technical Thrust Research</i>	ARFL through Clark- son Aerospace	200,000
Erez Allouche	<i>Modeling, Fabrication and Experimental Evaluation of UWB based Sensory System fo rdetecting Voids Outside of Buried Conduits</i>	Beyond Vision, LLC	25,620
Erez Allouche	<i>Experimental Evaluation of Soil-Structure Related Design Parameters for Fusible PVC Pipe</i>	Underground Solu- tions	27,450
Bell/Gullatt	<i>Experimental Evaluation of Soil-Structure Related Design Parameters for Fusible PVC Pipe</i>	US DOE through	211,302
Aziz Saber	<i>Senior Design Projects With Transportation Features</i>	LTRC	5,000
Rebecca Smith	<i>Teacher Collaboration in Inclusive Settings</i>	US DOE through La. Dept. of Edu.	150,000
P. O'Neal/Davis	<i>NSF ADVANCE: Increasing the Participation and Advancement of Women in Academic Science and Engineering Careers</i>	NSF through BoR	10,000
<b>Oct. 2008 Total</b>			<b>\$839,349</b>
			<b>08-09 YTD \$8,951,814</b>

## OAK RIDGE NATIONAL LABORATORY RESEARCH OPPORTUNITY

The Joint Institute for Neutron Sciences (JINS) was founded as a collaborative effort between Oak Ridge National Laboratory (ORNL) and The University of Tennessee (UT) to promote the use of neutron scattering in various fields of research. Through worldwide collaborations among researchers in broad fields of science and technology, a synergistic consortium will be created at ORNL to elevate the field of neutron sciences to a new level of efficacy for industry, medicine and frontier research. The goal of JINS is to serve as a gateway for users of the Spallation Neutron Source (SNS) and the recently upgraded High Flux Isotope Reactor (HFIR) at ORNL.

Oak Ridge National Laboratory recently made the following call for proposals:

Oak Ridge National Laboratory is accepting proposals for beam time at the High Flux Isotope Reactor (HFIR) and the Spallation Neutron Source (SNS) facilities until noon ET on **January 5, 2009**, via the web-based proposal system. This call is for experiments to run from March through September 2009. Details about the call for proposals are available on the *ORNL Neutron Sciences* website at <http://neutrons.ornl.gov/>

Kenneth W. Herwig  
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Neutron Scattering Sciences Division  
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[herwigkw@ornl.gov](mailto:herwigkw@ornl.gov)

JINS has been awarded the Department of Energy's EPSCoR Implementation Award. This award will provide fellowships for SNS and HFIR users from the EPSCoR states for travel expenses. Users from these states are strongly encouraged to apply for the fellowship soon after the beam time is awarded. Limited funding is available for support of sabbatical leaves at the SNS and HFIR.

For details about these opportunities to be involved in frontier investigations in the dawning field of neutron sciences, please contact Jayme French of JINS at [jfrench2@utk.edu](mailto:jfrench2@utk.edu).

## PROPOSALS SUBMITTED

FILE #	PI	Co-PI 's	TITLE	AGENCY	\$
09-017	Paun, Andrei		The Study of Apoptosis Using a New Discrete Computational Method	LBRN	50,000
09-018	Wiggins, Carynn		Singapore Math - It Adds Up	La. State Board of Education	4,282
09-019	Smith, Rebecca		Teacher Collaboration in Inclusive Settings	La. Dept. of Edu	149,360
09-020	Wilson, Chester		Tailored Charge Conversion Nanoparticles/Pelligrin 3rd year funding	DOD	119,720
09-021	Norris, Davy		Art Connection for a Diverse Community	NEA	10,000
09-022	Gunasekaran, Alfred	Coane/Davis	Acquisition of a Thin-Film Stress Measurement System for Advanced Micro and Nanotechnology Research, Education, & Training	DURIP	83,130
09-023	Beer, Glenn		LaCAMPS Year 4 Extension	LaSIP/LaGEARUP	33,458
09-024	Tims, Heath		NASA-Threads	Nspires	886,456
09-025	Poehl, Terrie	Gullatt, David	Caldwell Parish Mathematics Initiative	Caldwell Parish Mathematics Initiative	14,000
09-026	Phoha, Vir		Advanced Development and Integration of Keyboard Biometric Techniques to Support Information Operations	AIS	221,260
09-027	O'Neal, Chad		High Power and Temperature Plasma System for Etching Fluorinated Polymer Films	AFSOR	92,385
09-028	Cardenas, Henry		Electrokinetic Repair of Thermal and Mechanical Damage In Concrete	HRS Research and Dev. Corp	40,525
09-029	Lvov, Yuri		Clay Nanotubes for Controlled Release of Corrosion Inhibitors	BoR/ITRS	195,000
09-030	Hindmarsh, Patrick		Development of an Autonomous Replicating Plasmid for Candida Albicans and Identification of Proteins Responsible for Regulating I-sorbose Metabolism	BoR/RCS	109,500
09-031	Yule, Jeffrey		Core Area Competitiveness Enhancement in Ecological and Evolutionary Modeling of Extinction Phenomena and Effects	BoR/RCS	123,500
09-032	Feng, June		Early Detection of Subclinical Alzheimer Disease Using 2-D Micro-Electrophoresis Chip	BoR/RCS	180,000
09-033	Paun, Mihaela		Reliability of Large Scale Systems	BoR/RCS	128,815
09-034	Derosa, Pedro		Novel Computational Approach to Study Conductivity in Polymers with Atomic Resolution	BoR/RCS	200,000
09-035	Freyaldenhoven, Melinda		Measurement of Acceptance of Background Noise in the Pediatric Population	BoR/RCS	76,000
09-037	Shultz, Jeff		The Identification of Biochemical Pathway Molecular Markers and Association	BoR/RCS	44,000

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

FILE #	PI	Co-PI 's	TITLE	AGENCY	\$
09-038	Allouche, Erez	Simicevic/ Grimm	Sensory for Critical Infrastructure: Defect Recognition, Visualization and Failure Prediction	BoR/ITRS	185,000
09-039	O'Neal, Chad		Volume Protection Phase II	DOD	129,998
09-040	Liu, Don		Numerical Studies of Transport & Interfacial Phenomena Involving Complex Nanofluid-Macromolecule Mixture	NSF	204,671
09-041	Selmic, Sandra		Novel N-type Organic and Nanostructured Semiconductors for Photovoltaic Energy Sources	NSF	302,137
09-042	Que, Long		A White-Light Source Operated Polymer-Based Biomolecular Nanophotonic Microsystem	BoR/RCS	160,000
09-043	Dobbins, Tabbetha		Computational Catalysis and Atomic-Level Synthesis of Materials: Building Effective Catalysts from First Principals	DoEnergy	571,920
09-044	Gold, Scott	Wick, Collin	Fundamental Study of Solid Electrolyte Conduction Mechanisms	NSF	371,423
09-045	Genov, Dentcho		Metamaterials for Application in STEALTH Technology (MAST)	BoR/RCS	120,000
09-049	Weiss, Leland		Energy Conservation & Recovery Through Harvesting Low-grade Heat on the Micro Scale	BoR/RCS	250,000
09-051	Wasiuddin, Nazimuddin M.		Establishing Surface Free Energy Method for Predicting Moisture-Induced Damage in Asphalt Pavement	BoR/RCS	160,000
09-052	Crews, Niel		Advancements in Thermal Microsystems for Medical Diagnostics	BoR/RCS	200,000
09-053	Harpel, Tammy	Myers, Lori	Prevention of Bullying in Lincoln Parish Schools	Energy Corp.	5,211
09-056	Wang, Shengnian		Continuous Electroporation Microdevices For InVitro Biomolecule Delivery	BoR/RCS	170,000
09-057	Sethi, Prema		Novel Methods for Microarray Gene Expression Data Mining For Translational Bioinformatics	BoR/RCS	165,584
09-058	Eklund, Svend		Electrochemical and Spectroscopic Studies of the Electrodeposition of Refractory Metals in Room Temperature Ionic Liquids	BoR/RCS	150,000
09-059	O'Neal, Patrick		Optical Instrument for the Real-Time Estimation of In Vivo Nanoparticle Concentration	BoR/ITRS	180,000
09-060	Myers, Lori		The Realities of Parenthood: Think it Over	Energy Corp.	6,697
09-061	Saber, Aziz		Senior Design Projects With Transportation Features	LTRC	8,000
09-062	Allouche, Erez		Tensile and Flexural Creep Testing of Ultra High Build Epoxy Coating	Raven Lining Systems	23,424
09-063	Zotov, Natalia		LIGO Data Analysis: Veto Analysis, Follow-up Analysis, and Detector Characterization	NSF	232,551



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

FILE #	PI	Co-PI 's	TITLE	AGENCY	\$
09-064	Allouche, Erez		Modeling, Fabrication and Experimental Evaluation of UWB based Sensory System ...	Cues Inc/ Ultrascan LLC	25,620
09-065	Roberts, Tom		Essays on Protection-Motivated Behaviors of Organizational Insiders...	Defense Personnel Security Research Center	14,084
09-066	Roberts, Tom	Courtney, James	Cyber-Security and Privacy in the Public Sector	IBM	20,000
09-067	Wiggins, Carynn		LEAP Remediation	La. Dept. of Edu	1,343
09-068	Selmic, Sandra		Fabrication and Characterization of Well-Defined Organic Nanostructures on Surfaces from the Gas Phase	NSF	99,427
09-069	Dua, Sumeet	Gourd, Jean	II-New: DECIDE: Decision Engine for Cyber-Infrastructure of Distributed Agents	NSF	699,539
09-070	Que, Long	Giorno, Rebecca	A Handheld Sensor for Real Time Detection of Bacillus Anthracis Spores with Ultrasensitivity	DEPSCoR	400,000
09-071	Hegab, Hisham		NASA-ESMD Senior Project: Design of a Cryogenic Shell and Tube Heat Exchanger	LaSPACE	4,000
09-072	Talton, Carolyn	Beer, Glenn	Sci-TECH Space Institute for Teachers	La. Space Grant Consortium	27,331
09-073	O'Neal, Chad	Que/Dobbins	Thick-Film, Piezoelectric MemS Sensors and Actuators Using Nanoparticle-Enhanced Sol-Gel Deposition	DEPSCoR	300,000
09-074	Choi, Ben		Building a Society of Computers	NSF	158,906
09-075	Selmic, Rastko	Phoha, Vir	Secure Sensor Swarms: Deployment, Dynamics and Applications	DEPSCoR	450,000
09-076	Davis, Despina	Palmer/ Selmic/ Gunasekaran	Micro/Nano Structures Chemical Analysis by Energy-Dispersive X-Ray Fluorescence Analyzer (EDXRF)	BoR/ENH	45,075
09-077	Lusby, Aaron	Kennedy, Gary	Sparta Conservation Service Learning Project	ULS	6,510
09-078	Schelonka, Greg	Schelonka, Greg	Strengthening English Skills of Children of Immigrants Through Tutoring	ULS	4,979
09-079	Phillips, Kerri		Service Project: Multimodality Language Learning in Children	ULS	5,165
09-080	Dai, Weizhong		The NSF Science & Technology Center on Ultrashort, Ultraintense Lasers		230,559
09-081	Corely, Mel		Earthquake Simulation Room for the Idea Place	ULS	2,000
09-082	Murimi, Mary	Douglas/ Brown	Diabetic Intervention Aimed at Total Enhancement of Community Health	Office of Rural Health Policy	375,000
09-083	Greenwood, Zeno		LHC Science Center	NSF	524,631

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

FILE #	PI	Co-PI 's	TITLE	AGENCY	\$
09-084	Guice, Leslie K.	Dua/Selmic	Sensors Technical Thrust Research	Clarkson Aero-space Corporation	100,000
09-085	Schuler, Lance		TGEF/Florida International Univ.	BoR/TGEF	1,200
09-086	Gibson, Mark		McIntire-Stennis Cooperative Research Program - FY 09	USDA	209,799
09-087	O'Neal, Patrick		Optical Instrument for the Real-Time Estimation of In-Vivo Auroshell Concentration	NIH	162,990
09-088	Wilson, Chester		LaSPACE/ Blake Hosli	LSU/LaSPACE	25,000
09-089	Wilson, Chester		LaSPACE/Josh Brown	LSU/LaSPACE	25,000
09-090	Wilson, Chester		LaSPACE/Noah Bergeron	LSU/LaSPACE	25,000
09-091	Kaajakari, Ville		LaSPACE/Matthew Hartmann	LSU/LaSPACE	25,000
09-092	Kaajakari, Ville		LaSPACE/William Clower	LSU/LaSPACE	25,000
09-093	DeCoster, Mark	Guilbeau/ Lvov	IGERT: Program in Multi-Scale Integration for Biomimetic Systems (MIBS)	NSF	3,200,000
09-094	Crittendon, Kelly	Turner/ Etheridge	Louisiana Tech's Discovery Through Advanced Technological Education Program	NSF	877,592
09-095	Beer, Glenn	Keith- Vincent, Lindsey	A Science Camp for Blind Students	La. Center for the Blind	3,887
09-096	Guice, Leslie K.		Data Replication Center MOU w/ State of Louisiana	State of La.	
09-097	Guice, Leslie K.	Derosa/ Dobbins	Materials & Manufacturing Research	Clarkson Aero-space Corporation	100,000
09-098	Bell, Edward	Gullatt, David	Louisiana Low-Incidence Disability Consortia	UNO	211,302
09-099	Lvov, Yuri	Dobbins, Tabbatha	Sonochemistry With Nanoengineered Cavitation Bubbles	NSF	Pre-Preposal
09-100	Kanno, Jinko		Splitter Theorems for Quintangulations on Surfaces	NSA	29,820
09-101	Snow, Dale		Centrifuge for Biochemistry Labs	BoR/ENH	36,000
09-102	Paun, Mihaela		Modeling High Performance Computing of Large Scale Systems	BoR/Pfund	10,000
09-103	Paun, Andrei		SHF: Medium Collaborative Research Membrane Systems- Modeling and Simulation of Cellular Processes	NSF	482,469

(Cont'd on page 8)

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

FILE #	PI	Co-PI 's	TITLE	AGENCY	\$
09-104	Greenwood, Zeno	Leangsuksun, C.	High Energy Physics Applications on Many Core Processors	NSF	424,467
09-105	Chiu, Alan	Jones, Steven	High Resolution EEG/ERP 3D Visualization Lab	BoR/ENH	72,000
09-106	Kanno, Jinko	Selmic, Rastko	Detecting and Patching Coverage Holes (DEPCH) in Wireless Sensor Network	BoR/Pfund	10,000
09-107	Myers, Lori	Yates/ Pumphrey	LEADERS (Leadership Education, Assessment, and Development through Empowerment and Responsibility) in Human Ecology	BoR/ENH	43,792
09-108	Tims, Heath		Reverse Engineering Lab	BoR/ENH	42,000
09-109	Heideen, Kathleen		DESIGN: FROM IDEAS TO RETAIL	BoR/ENH	55,192
09-110	McKinney, Ray	Hall, David	Enhancement of Undergraduate Materials Testing	BoR/ENH	63,775
09-111	Heideen, Kathleen	Harpel/Yates	RECRUITS: Resources to Enhance College Recruiting of Undergraduate Incoming and Transfer Students	BoR/ENH	167,140
09-112	Rudnicki, Robert		Student Research Center	BoR/ENH	74,427
09-113	Phoha, Vir		Obfuscating & Deobfuscating Intent in Computer Programs	BoR/DEPSCoR	232,544
09-114	Ker, Jun-Ing		Enhancement of Industrial Ergonomics Laboratory	BoR/ENH	59,358
09-115	Gunasekaran, Alfred	Dobbins/Davis	Enhancement of Graduate Education in Materials Characterization by Non-destructive Interferometric Method	BoR/ENH	57,108
09-116	Derosa, Pedro	Khalig, Abdul	High-end Scientific Visualization and Animation Enhancement to Computational Modeling Laboratory	BoR/ENH	25,500
09-117	Fakelman, Robert	Williams, Michael	The Digital Prototyping Studio Upgrade and Enhancement	BoR/ENH	139,206
09-118	O'Neal, Patrick	Mills/Eklund	Nanotechnology Lab Enhancement for Biomedical Nanoparticle Manufacture Education	BoR/ENH	57,837
09-119	Sit, Sidney	Mills/ Cardenas/ Gunaskaran	Mechanical Testing and Characterization Laboratory of Biological Materials	BoR/ENH	100,000
09-120	Dua, Sumeet	Gourd/ Duncan/ Leansuksun	DINER-LAB: Distributed Information Discovery Laboratory	BoR/ENH	50,156
09-121	Wobisch, Markus		New Physics Searches and Standard Model Tests in Jet Production from 2TeV to 14TeV	DoEnergy	367,275
09-122	Etheridge, Brian	Teske, Boris	Assessing and Enhancing Information and Computer Literacy at Louisiana Tech University	BoR/ENH	9,000
09-123	Shultz, Jeff	Mustov, Mary	School of Biological Sciences Sequencing Capacity	BoR/ENH	70,505
09-124	Mack, Taylor	Webre/ Schelonka	The Maya and the World: Interdisciplinary Inquiry in the Liberal Arts	BoR/ENH	10,194



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

FILE #	PI	Co-PI 's	TITLE	AGENCY	\$
09-125	Weiss, Leland	Tims/O'Neal C.	Internal Combustion Engine Research and Development Laboratory Enhancement	BoR/ENH	18,073
09-126	Wolf, William		Cell and Molecular Biology Core Facility	BoR/ENH	92,232
09-127	Roberts, Tom	Fuller/Cochran	Information Assurance Mobile Laboratories	BoR/ENH	79,625
09-128	Crittendon, Kelly		Advancing Manufacturing & Prototyping of 5-Axis Computer Controlled Machining	BoR/ENH	78,155
09-129	Allouche, Erez	Simicevic/Grimm	ELXSI/Ultrascan	Technology Innovation Program	807,200
09-130	Lvov, Yuri		Polyelectrolyte Assembly on Clay Nanotubes	ACS Petroleum Research Fund	100,000
09-131	Shultz, Jeff		The Integration of Science Education and Undergraduate Research	BoR/Pfund	6,000
09-132	Schuler, Lance		Toxicity of Metal Nanoparticle Mixtures in Aquatic Systems	BoR/Pfund	10,000
09-133	Wick, Collin		Computational Studies of Dissociation of Reactions and Complexation at Aqueous Interfaces	NSF	308,297
09-134	Weiss, Leland		Mems-based Steam Engine Research for Alternative Power Sources	BoR/Pfund	10,000
09-135	O'Neal, Patrick		Slow-Release Fluorescent Gelatin Nanoparticles Delivering Green Tea Polyphenols to Murine Tumors	BoR/Pfund	10,000
09-136	Feng, June		Quantitative Proteomic Profiling of Oxidatively Modified Proteins in Mild Cognitive Impairedness and Alzheimer's Disease	BoR/Pfund	10,000
09-137	Dobbins, Tabbetha		Development of 30nm Resolution X-Ray Tomography for H2 Storage Research	BoR/Pfund	10,000
09-138	Wolf, William		Profiling and Characterization of Pancreatic Cancer Serine Proteases	BoR/Pfund	10,000
09-139	Chiu, Alan		Study of Variability and Reproducibility of Neural Response to Synaptic Noise in Coupled Hippocampal Model	BoR/Pfund	10,000
09-140	Giorno, Rebecca		Roles of Bacillus Anthracis Spore Coat and Exosporium in Germination	BoR/Pfund	10,000
09-141	Wasiuddin, Nazimuddin M.		Quantification of Nanoscale Surface Roughness of Asphalt Binders ...	BoR/Pfund	10,000
09-142	Wasiuddin, Nazimuddin M.		A Simple Absorption Test for Evaluating the Effectiveness of Amine Anti-Strip Additives	LTRC	30,000
09-143	Wasiuddin, Nazimuddin M.		Theoretical and Experimental Determination of Adhesion Between Asphalt Binders and Aggregates ...	LTRC	30,000

(Cont'd on page 10)

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

FILE #	PI	Co-PI 's	TITLE	AGENCY	\$
09-144	Que, Long		Characterization of Single Wall Carbon Nanotubes (SWNTS) With MEM Devices	Federal flow-through	30,670
09-145	Allouche, Erez		Geopolymer: High Performance Cementitious Material Made From by-Products of Louisiana's Natural Resources Industry	Federal flow-through	10,000
09-146	Jones, Steven	Ramachandran /Guilbeau	Graduate Fellows in Biomedical Engineering	State	200,000
09-147	Turner, Galen	Ramachandran /Dai	Graduate Fellows in Computational Analysis & Modeling	State	200,000
09-148	Palmer, James	Ramachandran /Gold	Graduate Fellows in Engineering	State	300,000
09-149	Lvov, Yuri	Dobbins, Tabbetha	Enzymatic Materials Synthesis in Claynanotubes	Federal	349,764
09-150	Smith, James	Merchant, David	Community Based Job Training Grant	Federal flow-through	150,000
09-151	Shipp, Michael		Comprehensive Center for Rehabilitation Technology	Federal flow-through	1,250,536
09-152	Dobbins, Tabbetha		X-Ray & Neutron Tomography for H2 Storage Combinatorial Materials Synthesis	Foundation	50,000
09-153	Moore, Pam		CERT Medical Home Project	Federal flow-through	2,500.00
09-154	Allouche, Erez		Evaluating the Geopolymerization Potential & Commercial Applications of Dollet Hill Power Plant Fly Ash	Industry	25,000
09-155	Morrow, Timothy		Development of Coarse-graining Procedures for Multi-scale Modeling Studies	Federal	399,747
09-156	Johnston, Kathleen		Precision Electroweak Measurements at Jefferson Lab	Federal	778,575

**ADDITIONAL GRANT FUNDING FOR EXISTING AWARDS**

- Les Guice, PFI: VENTURE ENHANCEMENT TEAMS (VETS) FOR COMMERCIALIZATION OF UNIVERSITY INTELLECTUAL PROPERTY, NSF: \$200,000;
- Erez Allouche, ENHANCING THE TENSILE MODULUS OF LOW VISCOSITY GROUT USING MICRO-FIBERS, Ultraliner: \$9,858;
- Yuri Lvov, A CENTER FOR ADVANCED MATERIALS AND NANOTECHNOLOGY IN AMRI AT THE UNIVERSITY OF NEW ORLEANS, BoR thru UNO: \$ 110,000;
- Chester Wilson, GRADUATE RESEARCH FELLOWSHIP PROGRAM - SCOTT PELLEGRIN, NSF: \$40,500;
- Chester Wilson, GRADUATE RESEARCH FELLOWSHIP PROGRAM - JOHN SWEENEY, NSF: \$40,500;
- Les Guice, LOUISIANA RESEARCH INFRASTRUCTURE IMPROVEMENT: EPSCOR CHAIR, NSF through BoR: \$14,040;

(Cont'd on page 11)

## ADDITIONAL GRANT FUNDING FOR EXISTING AWARDS (CONT'D FROM PAGE 10 . . .)

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- Andrei Paun, THE STUDY OF APOPTOSIS USING A NEW DISCRETE COMPUTATIONAL METHOD, NIH through LSU: \$25,000;
- June Feng, THE STUDY OF PROTEIN DAMAGE IN AGING AND AGE-RELATED DISEASES IN BRAIN USING BIOMEMS AND BIOINFORMATICS TOOLS, NIH thru LSU: \$149,563;
- Ramona Guin, INTEGRATING COMMUNITY RESOURCES FOR DISASTER PREPAREDNESS IN LINCOLN PARISH, CNCS through ULS: \$36,229;
- Aziz Saber, FIELD VERIFICATION FOR THE EFFECTIVENESS OF CONTINUITY DIAPHRAGMS FOR SKEWED CONTINUOUS P/C P/S CONCRETE GIRDER BRIDGES, LTRC: \$2,404;
- Tommy Grafton, NORTH CENTRAL ALLIANCE PARTNERS IN PREVENTION (PROJECT NORTHLAND), SAMHSA through La. DHH: \$27,500;
- Mike Baumert, STRUCTURAL TESTING OF SPRAYROQ PROTECTIVE LINER SYSTEM, Sprayroq: \$5,000;
- Terry McConathy, DOCTORAL DIVERSITY IN ENGINEERING AND THE SCIENCES AT LOUISIANA TECH UNIVERSITY, BoR: \$50,000;
- Galen Turner, STEM-PLUS: LOUISIANA TECH UNIVERSITY'S NOYCE SCHOLARSHIP PROGRAM, NSF: \$237,664;
- David Gullatt, VALUE-ADDED TEACHER PREPARATION QUALITATIVE RESEARCH STUDY, BoR: \$25,500;
- Henry Cardenas, ELECTROKINETIC PARTICLE DELIVERY OF BONE REPAIR AGENTS, Smith & Nephew: \$1,600;
- Tommy Grafton, NORTH CENTRAL ALLIANCE PARTNERS IN PREVENTION, La. DHH: \$100,000;
- Chester Wilson, NDSEG FELLOWSHIP THERESA WILLIAMS, NDSEG through ASEE: \$4,888;
- Steven Jones, GRADUATE FELLOWS IN BIOMEDICAL ENGINEERING, BoR: \$22,000;
- Lee Sawyer, RESEARCH IN HIGH ENERGY PHYSICS AT LOUISIANA TECH UNIVERSITY, DOE: \$208,000;
- Dave Norris, ENTERPRISE CENTER ECONOMIC DEVELOPMENT, U.S. Dept. of Commerce: \$97,850;
- Les Guice, THE LONI INSTITUTE: ADVANCING BIOLOGY, MATERIALS & COMPUTATIONAL SCIENCES FOR RESEARCH EDUCATION AND ECONOMIC DEVELOPMENT, BoR through LSU: \$252,335;
- Frank Ji, A HANDHELD MICROSENSOR DEVICE FOR MEASUREMENT OF LOW MOISTURE IN NATURAL GAS, Sensidyne: \$30,419;
- Scott Gold, SUPERIOR GRADUATE FELLOWS IN ENGINEERING, BoR: \$48,000.

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