



**B R E E Z E B U L L E T I N**

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

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**Louisiana Tech/IfM  
 Professor wins U.S. Best  
 of Small  
 Tech Awards: Innovator**

Santa Clara, CA – *Small Times* presented its highly respected Best of Small Tech awards at its NanoCon International conference and exhibition today at the Santa Clara Convention Center. This is the sixth annual *Small Times* awards program, which spotlight the top companies, leaders and the biggest successes in nanotechnology, MEMS and microsystems during the past year.

“Each year it gets more and more difficult to judge the best and brightest as the micro and nanotechnology market continues to mature and new products come to market,” said Christine Shaw, Senior Vice President and Group Publisher of *Small Times*. “It is an honor to recognize the

leading companies, and business and research executives who are driving integration of nanotechnology into the commercial pipeline.”

“Louisiana Tech University, Institute for Micromanufacturing professor, **Yuri Lvov** has worked during the past year to pioneer drug reformulation through polyelectrolyte nano-encapsulation, which has allowed stable nano and micro colloids of important cancer drugs. He extended the same approach for improvement of cellulose microfibers from recycled paper through polyelectrolyte nanocoating, which has allowed increase of recycled fiber usage in paper. His results are protected with four US patents and were widely published in peer reviewed journals. The achievement of this vision earned him the Small Times 2007 Best of Small Tech Innovator of the Year award.”

Runners-up are Stephen Y. Chou (Princeton University), Paul J. Glatkowski (Eikos, Inc.), Wan-Thai Hsu (Discera) and Daniel Resasco, Ph.D. (SouthWest NanoTechnologies, Inc.)”

(Read more at <http://www.latech.edu/technews/viewnews.cgi?category=1&id=1196869845>.) (Copy & paste link into browser)  
 Copyright 2008 Small Times)

*If I have been able to see farther than others, it was because I stood on the shoulders of giants.*

Sir Isaac Newton  
 (1642-1727, British Scientist, Mathematician)

**Cyber Command to boost Tech**  
**Jindal promises \$50 million for Air Force initiative**  
 Ruston Daily Leader Staff Report  
 01-22-2008

Louisiana Tech University officials believe an investment of \$50 million in state funds to the Cyber Command Center at Barksdale Air Force Base will send a ripple of benefits down Interstate 20 all the way to Ruston.

Louisiana Tech University President Dan Reneau, Vice President for Research and Development Les Guice and Vice President for Academic Affairs Kenneth Rea were all present for the groundbreaking of the Cyber Innovation Center in Bossier City on Monday.

During the ceremony, Gov. Bobby Jindal announced he will commit the first \$50 million of Louisiana’s state budget surplus to the infrastructure and transportation improvements needed to support the Cyber Command Center

“Louisiana Tech as well as others in the community and state will benefit enormously by this investment,” Guice said.

The Cyber Innovation Center is a venue that will support collaborations between university research, industry, the Air Force and other government agencies that should lead to innovative solutions to threats faced by the nation in both the military and civilian environments.

The Air Force announced plans in 2006 to create a Cyber Command to bring full-scale military operations to the realm of computer networks and the Internet. Air Force officials said the new command would coordinate network and electronic warfare. On Monday, Jindal spoke about Cyber Innovation Center’s role in the economic vitality of northwest Louisiana.

“The Cyber Innovation Center has the potential to have an extraordinary impact on the economy of northwest Louisiana, as well as the entire state,” he said. “It has the potential to bring hundreds if not thousands of high-paying jobs to our state. With a research park here, we will attract technology companies and defense contractors to support the Cyber Command.”

Jindal spokeswoman Melissa Sellers said the governor has spoken with legislative leaders and promised Monday that the funds would be forthcoming during an upcoming special session.

(Read entire article at <http://www.rustonleader.com/news.php?id=3507>. Copyright 2008 Ruston Daily Leader)

## NEW GRANTS AWARDED

PI/Co-PI	Title	Funding Agency	\$ Awarded
McConathy/ Ramachandran/ Snow	<i>Doctoral Diversity in Engineering and the Sciences at Louisiana Tech University</i>	BoR	190,000
Carynn Wiggins	<i>It's the Right Time for Writing!</i>	La DOEdu	3,628
Dobbins/ Varahramyan/ Gunasekaran	<i>MRI: Acquisition of State of the Art X-Ray Diffractometer for Research, Education and Training</i>	NSF	349,070
Scott Gold	<i>Superior Graduate Fellows in Engineering</i>	BoR	192,000
<b>August 2007</b>			
<b>Total (revised)</b>			<b>\$1,320,249</b>
Beer/Wooley	<i>STEM Satellite Physical Science Course at Ruston High School</i>	Lincoln Parish School Board	14,110
Mark DeCoster	<i>Patterned Nanofilm Substrate Environments for Investigating Brain Cell Growth and Repair</i>	NSF/LaSPACE	5,000
Patrick O'Neal	<i>Development of a Novel SERS (Surface-Enhanced Raman Spectroscopy) Sensor for Online Monitoring of Analytes in Cell Culture Media</i>	NSF/LaSPACE	5,000
David Long	<i>Rapid Watershed Assessments Maps</i>	USDA/Trailblazer	10,671
Erez Allouche	<i>Pickle Jar Test of the SPR Sprial Wound PVC Profile Used in Large Diameter Pipeline Renewal</i>	Sekisui	8,000
Allouche/Sterling	<i>Decision Analysis Guidelines for Culvert Rehabilitation and Replacement</i>	USDA	10,000
Turner/Nelson/ LaBorde	<i>STEM-Plus: Louisiana Tech University's Noyce Scholarship Program</i>	NSF	732,656
Les Guice	<i>LSU Tech MOU - Louis Rack</i>	LSU	9,100
Ville Kaajakari	<i>Porous Silicon for MEMS Vacuum Packages</i>	DOD	149,666
<b>Sept. 2007 Total</b>			<b>\$944,294</b>
Darland/Sims	<i>Developing Citizens Through Leadership &amp; Civic Engagement - Travel Grant</i>	La. Campus Compact	500
Edward Bell	<i>Louisiana Low Incidence Disabilities Consortium</i>	La. DOEdu	19,762
Lvov/DeCoster/ Varahramyan	<i>Center for Advanced Materials and Nanotechnology in AMRI at the University of New Orleans</i>	BoR/UNO	110,000
Gary Stokely	<i>Workplace and Community Transition for Incarcerated Youth Offenders Program</i>	La. Dept. of Corrections	50,000
Aziz Saber	<i>Senior Design Projects With Transporation Features</i>	LTRC	5,000
Henry Cardenas	<i>Electrokinetic Particle Delivery of Bone Repair Agents</i>	Smith & Nephew	68,525
<b>Oct. 2007 Total</b>			<b>\$253,787</b>
Lisa Mullikin	<i>HABS Drawings - O'Brien-London House</i>	NPS	4,996
Chester Wilson	<i>LaSpace GRSA/Waguespack</i>	LaSPACE/NASA	4,000
Baumert/Hall/Lee	<i>Structural Testing of Sprayroq Protective Liner System</i>	Sprayroq	15,609
Ken Robbins	<i>The Arthur W. Stone New Play Award</i>	La. Div. of Arts	2,150
Brian Barron	<i>MERLOT Editorial Board</i>	BoR	2,500
<b>Nov. 2007 Total</b>			<b>\$29,255</b>
Angela Kennedy	<i>2007-08 Carl Perkins Vocational &amp; Technical Education Grant</i>	LTCC	80,497
Ji Fang	<i>High Sensitivity Prostate Cancer Detection System</i>	ULM	2,000
Erez Allouche	<i>Applications of Inorganic Polymer Concrete (Geopolymer') in Transportation Structures Located in Harsh Environments</i>	LTRC	30,000
Kody Varahramyan	<i>Microcantilevers for Detection of Organophosphorous Compounds</i>	Sensacoil	22,692
Linda Ramsey	<i>Louisiana Regional Collaboratives Program</i>	Shell Oil	65,000

(Cont'd on page 10)

## PROPOSALS SUBMITTED

FILE #	PI	Co-PI 's	TITLE	AGENCY	\$
08-032	Lvov, Yuri		Layer-by-Layer Nanocarriers For Highly Efficient Solubilization of Insoluble Drugs	NIH	750,000
08-033	Allouche, Erez		P-Scan: An Uwb-Based Transceiver for Quantitative Defect Detection and Characterization in Buried Pipes & Supporting Bedding	USDept. Of Transportation	150,000
08-034	Phoha, Vir		CI-TEAM Implementation Project for Secure & Survivable Cyber-centric Sensor Systems	NSF	180,000
08-035	Chiu, Alan	DeCoster, Mark	Resonance in Small Neuronal Assembly and Coupled Oscillator Model	NSF	399,055
08-036	Wilson, Chester		LaSpace GRSA/Pelligrin	NASA	4,000
08-037	Wilson, Chester		LaSpace GRSA/Sweeney	NASA	4,000
08-038	Wilson, Chester		LaSpace GRSA/Berry	NASA	4,000
08-039	Wilson, Chester		LaSpace GRSA/Whitney	NASA	4,000
08-040	Beer, Glenn	Wooley, Missy	STEM Satellite Physical Science Course at Ruston High School	Lincoln Parish School Board	14,111
08-041	Davis, Despina	DeCoster/ O'Neal/ Schuler	Magnetic Sensor for Rapid Assessment of Nanoparticle-Cell Interactions	US Environmental Protection Agency	306,674
08-042	Selmic, Rastko	Phoha/ Kanno	Deployment and Coverage of Sensor Swarms: Optimality, Completeness, & Dynamics	BoR	527,591
08-043	O'Neal, Chad	Que/Dobbins	Thick-Film, Piezoelectric-Mems Sensors and Actuators Using Nanoparticle-Enhanced Sol-Gel Deposition	BoR	395,000
08-044	Freyaldenhoven, Mindy		Measurement of Acceptance of Background Noise in the Pediatric Population	BoR	76,000
08-045	Voziyanov, Yuri	Dua, Sumeet	Tailor-Made Variants of Site-Specific Recombinases as Tools for Genome Engineering	BoR	120,000
08-046	Lvov, Yuri	O'Neal, Patrick	Optimization of Phytochemical Pharmacology and Delivery Using Nanoparticles for Treatment of Cancers	LSU-HSC	250,000
08-047	Allouche, Erez	Simicevic/ Sterling	Pickle Jar Test of the SPR Spiral Wound PVC Profile Used in Large Diameter Pipeline Renewal	Sikisui Spr Americas, Llc	8,000.00
08-048	Hou, Songming	Dai, Weizhong	A Hybrid Method for Solving Inverse Medium and Obstacle Problems With Limited or Synthetic Aperture	BoR	129,000
08-049	Lee, Luke		Vibration Based NDE For Capacity Estimation of Beam Structures With bonded RFP Composites	BoR	140,885
08-050	Bell, Edward		Louisiana Low Incidence Disabilities Consortium	La. Dept. of Edu	19,726

(Cont'd on page 4)

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

FILE #	PI	Co-PI 's	TITLE	AGENCY	\$
08-051	Davis, Despina		Nanostructured Magnetic Alloys (CoSmNiFe/Cu) Electrodeposition For Microchip Sensors	BoR	127,000
08-052	Schultz, Jeff	Muslow, Mary	Creation of an Advanced Throughput Robotics & Genomics Core and Undergraduate Training Facility	BoR	130,000
08-053	Morrow, Timothy		Development of Coarse Graining Procedures for Multi-Scale Modeling Studies	BoR	140,000
08-054	Que, Long		A Label-free, Real Time Biosensing Micro/Nanosystem With High Multiplexing Capability	BoR	165,000
08-055	Cahoy, Dexter	Phoha, Vir	Rare Event Detection in Massive Stochastic Data	BoR	140,878
08-056	Paun, Mihaela		Reliability Modelling of High Performance Computing	BoR	122,900
08-057	Eklund, Sven		A Fluorescence-Based Multianalyte Microphysiometer for Measurement of Cellular Metabolism	BoR	150,000
08-058	Wick, Collin		Computational Modeling and Design of Polymer Electrolytes for Rechargeable Lithium Batteries	BoR	150,000
08-059	Wilson, Chester		Commercialization of Metal Nanostructures for Biomass Fuel Conversion	BoR	180,000
08-060	Duncan, Christian		Developing & Applying Geometric Techniques to Interactive Ray Tracing	BoR	180,000
08-061	Wasiuddin, Nazimuddin		Correlating Adhesive Strength From Mechanical Tests & Physico-Chemical Tests Between Asphalt Binders and Aggregates	BoR	144,900
08-062	Wolf, William		Profiling and Characterization of Pancreatic Cancer Serine Proteases	BoR	88,000
08-063	Schuler, Lance		Contaminant Analysis and Risk Evaluation (CARE) of Surface Water & Sediment Adjacent to Pulp Mill Discharges	BoR	140,000
08-064	Kaajakari, Ville		Quartz MEMS for High-Performance RF Devices	BoR	150,000
08-065	Saber, Aziz		An Avenue to the Future	BoR	205,000
08-066	Besio, Walter	Dai, Weizhong	Concentric Ring Electrodes for Brain Computer Interface: Theoretical Analysis and Human Experiments	NSF	288,935
08-067	Sit, Sidney		Effects of Materials Surface Properties on Endothelial Cell Micromechanics	BoR	153,845
08-068	Tims, Heath		Improved Placement Accuracy of Intracranial Depth Electrodes	BoR	150,000
08-069	Guice, Les		LSU Tech MOU - Louis Rack	LSU	9,100
08-070	Cardenas, Henry		Electrokinetic Particle Delivery of Bone Repair Agents	Smith & Nephew, Inc	68,525

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

FILE #	PI	Co-PI 's	TITLE	AGENCY	\$
08-071	Saber, Aziz		Senior Design Projects With Transporation Features	LTRC	5,000
08-072A	Kaajakari, Ville		Power Harvesting for Shoe IMU	DARPA	138,819
08-072B	Kaajakari, Ville		Power Harvesting for Shoe IMU (Phase 2)	DARPA	135,856
08-073	O'Neal, Chad		Volume Protection Using Anti-Tamper Technology	Radiance Technology	15,000
08-074A	O'Neal, Chad		Vibration Energy Scavenging (VibES) for Naval Corrosion Sensors	Radiance Technology	24,000
08-074B	O'Neal, Chad		Vibration Energy Scavenging (VibES) for Naval Corrosion Sensors - Gap Funding (between Phase I & Phase II)	Radiance Technology	21,000
08-075	Baumert, Michael	Hall, David	Structural Testing of Sprayroq Protective Liner System	Sprayroq	15,596
08-076	Phoha, Vir		Secure and Survivable Cyber-Centric Sensor Networks: Algorithms and Architecture Research	NSF	198,917
08-077	Moore, Pamela		Nursing Capitation/Nurse Faculty Educator Stipends	ULS	167,500
08-078	Sethi, Perna		A Weighted Scheme Approach for Retention and Archival of Emails	Foundation for Education and Research	26,381
08-079	Crump, Kenny		EPA Fellowship	EPA	88,828
08-080	Carter, Alice	Colvin, Jan	Biopsychosocial Factors Related to Health of Older Women by Caregiving Status	NIH	94,582
08-081	Zotov, Natalia	Reed, Tracie	Research Assisting Detector Characterization and Search Group Veto Analyses	NSF	232,572
08-082	Lee, Luke	Cardenas, Henry	Durability of Structural Rehabilitation Methods	NSF	362,624
08-083	Barron, Brian		MERLOT Editorial Board	BoR	2,500
08-084	Que, Long		A MEMS Platform for the Investigation of Strained Carbon Nanotubes/ Graphenes	NSF	241,357
08-085	Cardenas, Henry		Investigation of Electrokinetic Pol-lolanic Nanoparticle Treatment for Corrosion Mitigation in Concrete	NSF	563,490
08-086	Ji, Frank	Fang, Ji	Cost Effective Microcantilever Sensor Device for OP Recognition	Sensacoil, Inc.	250,000
08-087	Anderson, David		Shreveport Sounds in Black and White: Remembering the Popular and Roots Music of the North	LEHA	5,726
08-088	Strimbu, Bogdan		Mapping the Future Landscape for Two Southwestern La. Parishes	ULS	25,841
08-089	Derosa, Pedro		Development of a Multi-Scale Tool to Study Electronic, Geometrical and Conductive Properties of Polymers	BoR	150,000
08-090	Odom, Gary		Flight Instructor Candidates Working Through Service Learning to Assist Scout Aviation Merit Budget Applicants	ULS	7,500

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

FILE #	PI	Co-PI 's	TITLE	AGENCY	\$
08-091	Voziyanov, Yuri		Tailor-made Variants of Site-Specific Recombinases as Tools for Genome Engineering	NIH	1,563,478
08-092	Davis, Despina		Electrodeposition of GMR Sensing Multilayered Nanowires of CoFeS/CuO With Thermoelectric Bi2Te3 Nanocaps	LaSPACE	25,663
08-093	Wilson, Chester		Micro-Propulsion Systems, Minority Research Experience	LaSPACE	4,000
08-094	Carter, Alice		Working With Children and Adolescents Using Electronic Learning and Support	BoR	50,000
08-095	Rudnicki, Robert		Stormfield: Foundation, Edifice & Ruin in Southern Literary Studies	BoR	18,406
08-096	Bukowski, Marie		Artist Residency in Mertola, Portugal with Solo Exhibition	BoR	37,591
08-097	Cargille, David	Powell, Tamara	Weathering the Storms With Technology: Creating a Podcasting Network	BoR	56,183
08-098	Jani, Vibha		Utilizing Abandoned Homes	ULS	15,000
08-099	Wang, Jay		Scour Effect and Its Consideration in Load and Resistance Factor Design (LRFD) OF Bridge Substructures	LTRC	30,000
08-100	Lee, Luke		Durability of Bonded FRP Composites	LTRC	27,843
08-101	Kanno, Jinko		Splitter Theorems For Planar Quintangulations	NSA	29,850
08-102	Wasiuddin, Nazimuddin		A Novel and Direct Method for Evaluating the Effectiveness of Amine Anti-Strip Additives	LTRC	30,000
08-103	Sethi, Purna	Proctor, Larry	Computationally Driven Rural Health Promotion & Disease Prevention Program	NW Louisiana medical Home Project	150,462
08-104	Allouche, Erez		Applications of Inorganic Polymer Concrete (Geopolymer) in Transportation Structures Located in Harsh Environments	LTRC	30,000
08-105	Guin, Ramona	Fife/Payne/Brown	Integrating Community Resources for Disaster Preparedness in Lincoln Parish	ULS	24,300
08-106	Ji, Frank		Microcantilever Biosensors Based on Ligand Gated Channel Receptors	NIH	327,888
08-107	Cicciarella, Charles		Support of Student Research	BoR	16,800
08-108	Cicciarella, Charles		Enhancement of Research Capability and Productivity Related to Life-	BoR	25,600
08-109	Cardenas, Henry	Hall, David	Electrochemical Oil Spill Prevention	OSRDP	37,456
08-110	Kimbell-Lopez, Kimberly	Vessel/Cummins/Hull	Literacy/Technology Model Classroom	BoR	140,475

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

FILE #	PI	Co-PI 's	TITLE	AGENCY	\$
08-109	Cardenas, Henry	Hall, David	Electrochemical Oil Spill Prevention	OSRDP	37,456
08-110	Kimbell-Lopez, Kimberly	Vessel/ Cummins/Hull	Literacy/Technology Model Classroom	BoR	140,475
08-111	Selmic, Rastko		Fault Detection and Isolation in Leader-Follower Networks	LaSPACE/NASA	37,283
08-112	Guice, Les		EPSCoR Committee Chair RII Funds	BoR	13,500
08-113	Sterling, Ray	Allouche, Erez	Rehabilitation of Wastewater Collection and Water Distribution System	Battelle/EPA	402,065
08-114	Wilson, Chester	McDonald/ Dobbins/ Derosa	Thermal Evaporator for Physics Education & Research	BoR	59,500
08-115	Cox, Marilyn		Infrared Spectroscopy Use in Undergraduate Organic Chemistry Labs	BoR	55,950
08-116	Siriwardane, Upali	Ji/Sawyer	Incorporation in Nano-Scale Surface Characterization Techniques into LaTech Chemistry Physics Integrated Labs	BoR	85,238
08-117	Cardenas, Henry		Full Scale Field Testing Electrokinetic Nanoparticle Treatment for Mitigation of Corrosion in Concrete	LaSPACE/NASA	33,349
08-118	Darland, Nancy	Fife/Guin/ Payne	Promise of Nursing for Louisiana Grant Requist/METI PNCI	La. Nurses Foundation	27,220
08-119	Harpel, Tammy	Myers/ Pumphrey	SHARE: Strengthening Health Through Age-appropriate Resources and Education Library	BoR	95,714
08-120	Mills, David	Gunasekaran/ Sit	Enhancement of Graduate and Undergraduate Education in Chemistry, Biological Sciences and Nanotechnology	BoR	129,281
08-121	Tims, Heath	Crittendon/ Pratt/ Swanbom	Enhancing Multidiscipline Product Development and Marketing Through Modern Fabrication Tools	BoR	58,500
08-122	Gold, Scott		Fabrication of Piezoelectric Nanostructures for MEMS	LaSPACE/NASA	40,020
08-123	Sterling, Ray		The Role of Buried Utilities in the Resiliency and Sustainability of Towns (RoBUST)	Battelle/EPA	2,000,000
08-124	Ji, Frank		Acquisition of DSC for Undergraduate and Graduate Lab & Research	BoR	57,100
08-125	DeCoster, Mark	Evans/Chiu	H-DIML: High-Speed Digital Imaging & Modeling Laboratory	BoR	80,821
08-126	Dobbins, Tabbetha	Lvov, Yuri	Research and Education: Increasing Student Participation in Nanotechnology Research Using National User Facilities	NSF	359,701
08-127	Roberts, Tom	Cochran/Ellis	Information Assurance Mobile Laboratories	BoR	69,767
08-128	Holmes, Julie	Heinrich, Eric	Mathematics Methods & Practicum Immersion Project	BoR	140,609
08-129	O'Neal, Patrick	Mills/Eklund	Nanotechnology Lab Enhancement for Pharmaceutical Nanoparticle Manufacturing Education	BoR	60,000

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

FILE #	PI	Co-PI 's	TITLE	AGENCY	\$
08-130	Eklund, Sven		Enhancement of the Analytical Chemistry and Instrumental Analysis Labs	BoR	54,813
08-131	Shaw, John	Zotov, Natalia	Louisiana Tech Observatory Enhancement	BoR	50,956
08-132	DeCoster, Mark	Evans/Lvov	EFRI-COPN Preliminary Proposal: Engineering Spaces for Observation and Modeling of Brain Cell Network Activity	NSF	1,756,623
08-133	Tims, Heath		Cannulated Drill Modeling	The Interactive Neuroscience Center	2,438
08-134	Saber, Aziz		Evaluation of Continuity Detail for Precast Prestressed Grinders	LTRC	292,194
08-135	Mills, David		NERO: Nanoscience Education and Research Outreach (SUPPLEMENT)	NSF	49,916
08-136	Yule, Jeffrey	Zumwalt, Gary	Monitoring Environmental Remediation Using Aerobic Heterotrophic Bacteria: The Microbial Consortium of 16S RDNA from a BTEX-Contaminated Site	OSRADP	41,934
08-137	Yule, Jeffrey	Schuler/Hunt	Development of a Freshwater Pond Research Facility to Evaluate the Effects of Oil Brine Contamination	OSRADP	161,643
08-138	Schuler, Lance	Lydy, Michael	Development of an Effects Base Bioaccumulation Test	OSRADP	90,103
08-139	Adams, John C.		McIntire-Stennis Cooperative Research Program - FY 08	USDA	185,495
08-140	Allouche, Erez	Sterling/Baumert	Culvert Rehabilitation to Maximize Service Life While Minimizing Direct Costs and Traffic Disruption	National Cooperative Highway Research Program	750,000
08-141	Ramsey, Linda	Mills, David	Louisiana Regional Collaboratives Program	TX Regional Education Collaboratives	65,000
08-142	Mainardi, Daniela		Synthesis of Functionalized Mesoporous Silica Nanoparticles Using Noble and Non-noble Metal Clusters	NSF	70,239.00
08-143	Wilson, Chester		LaSPACE GRSA/T.Williams	LaSPACE	
08-144	Henrickson, Larry	Odom, Gary	Communication Difficulty & Noise in Small Training Aircraft	Wolf Aviation Fund	
08-145	Choi, Ben		CSR-EHS: Building Multi-valued and Fuzzy Logic Computers	NSF	
08-146	Voziyarov, Yuri		Novel Site-Specific Tools for Genome Engineering	US-Israel Binational Science Foundation	
08-148	Besio, Walter	DeCoster, Mark	Investigation of Anticonvulsant and Neuroprotective Effects and Safety of Transcutaneous Electrical Stimulation via Concentric Ring Electrodes	NIH	
08-149	Kennedy, Gary	Green, William	Novel Calcium-Sensing for Early Diagnosis of Hypocalcemia	AJCC Research Foundation	
08-150	Sterling, Ray	Simicevic, Jadranka	Cost of Selected Trenchless New Installation Methods	Herrenknecht AG	
08-151	Thomas, Donna	Livingston/Tobacyk	Meeting the Competition: Recruitment of Superior Graduate Students for the PhD Program in Counseling Psychology	BoR	
08-152	Ramachandran, Bala	Jones, Steven	Graduate Fellows in Biomedical Engineering	BoR	
08-153	Ramachandran, Bala	Gold, Scoot	Superior Graduate Fellows in Engineering	BoR	



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

FILE #	PI	Co-PI 's	TITLE	AGENCY	\$
08-154	Wick, Collin		Computational Studies of Reactions and Complexation at Aqueous Interfaces	NSF	
08-155	Wick, Collin		Computational Study of the Structure and Reactivity at Aqueous Interfaces	ACS Petroleum Research Fund	
08-156	Beer, Glenn		SGA mentoring Project LA GEAR UP Travel Support - matching funds for ULS Serves grant	LaSIP/GEAR UP	
08-157	Kaajakari, Ville		LaSPACE Fellowship/Rodrigue	LaSPACE	
08-158	Paun, Andrei		Simulation of Apoptosis With a New Discrete Method	LBRN Pilot Project	
08-159	Sethi, Purna		Design and Development of Information Retrieval System for Enhanced Decision Support in Medical Images	LBRN	
08-160	Fang, Ji		High Sensitivity Prostate Cancer Detection System	ULM	
08-161	Gibson, Mark		La. Florest Products Development Center (aka Dev. & Expansion of La. Secondary Wood Processing Industry)	LSUAC	
08-162	Poehl, Terrie	Holmes, Julie	Turn On To Reading	La Board of Elementary & Secondary Education	
08-163	Dobbins, Tabbetha	Lvov, Yuri	Understanding Long-Range Diffusional Transport Pathways and Kinetics in Hydride Systems Using Synchrotron and Neutron Studies Coupled With Density Functional Theory and Molecular Dynamics Simulations	DOE	
08-164	Dai, Weizhong		Radiation-Induced Heating of Biological Tissue: A Mathematical Model for Burning	NSF	449,206.00
08-165	Sawyer, Lee	Greenwood/Wobisch	Research in High Energy Physics: 2008-2011 Request for Renewal	DOE	950,901.00
08-166	Beer, Glenn	Basinger/Dornier	Louisiana Tech/LA GEAR UP Consolidated Summer Camp Experiences for 2008	LA GEAR UP/LAS SIP	512,590.00
08-167	Beer, Glenn		LaCAMPS Year 4	LA GEAR UP	293,810.00
08-168	Gullatt, David	Schillinger, Don	Literacy Across the Curriculum Web Site Development	BoR	51,000.00
08-169	Guice, Les	Derosa/Dobbins	Materials & Manufacturing Research	Clarkson Aerospace Corp.	100,000.00
08-170	Beer, Glenn	Leonard/Leonard/Taylor	North Louisiana Promising Pathways GEAR UP Partnership	US Dept. of Education	8,793,873.00
08-171	Vessel, Amy Massey	Cummins/Kimball-Lopez/Hill	Project BACKPACK	LaSIP	375,325.00

## NEW GRANTS AWARDED (CONT'D FROM PAGE 2 . . .)

PI/Co-PI	Title	Funding Agency	\$ Awarded
Glenn Beer	SGA mentoring Project LA GEAR UP Travel Support - matching funds for ULS Serves grant	LaSIP	5,000
Les Guice	EPSCoR Committee Chair RII Funds	NSF/BoR	13,500
Sethi/Proctor	Computationally Driven Rural Health Promotion & Disease Prevention Program	HHS	101,875
Chester Wilson	ARDEC/GA Nanofab	DoD	185,000
Ray Sterling	Cost of Selected Trenchless New Installation Methods	Herrenknecht AG	3,998
Les Guice	Materials & Manufacturing Research	DoD/Clarkson	100,000
<b>December 2007</b>			
<b>Total</b>			<b>\$609,563</b>
			<b>YTD 11,174,225</b>

## ADDITIONAL GRANT FUNDING FOR EXISTING AWARDS

John Adams, MCINTIRE-STENNIS FY 07 \$255,875;

Ray Sterling, CONTINUING EDUCATION AND TRAINING IN UTILITY INSTALLATION AND REHABILITATION TECHNIQUES, Contractor's Educational Trust Fund, \$25,000;

Wendy Miletello, LA GEAR UP SPORTS MEDICINE CAMP, BoR \$15,389;

David Mills, NERO: NANOSCIENCE EDUCATION AND RESEARCH OUTREACH, NSF \$141,213;

Luke Lee, RAPID REHABILITATION OF HURRICANE DAMAGED STRUCTURES, Osmotech, Inc. \$3,000;

Walt Besio, GRADUATE FELLOWS IN BIOMEDICAL ENGINEERING, BoR \$22,000;

Hesham Hegab, NASA-ESMD SENIOR PROJECT: DESIGN OF A THERMAL CONTROL SYSTEM FOR MARS ROVER, Nasa/LaSPACE \$3,000;

Henry Cardenas, E-SEAL PHASE II SBIR CONSULTATION AND DEVELOPMENT SUPPORT, DOD thru Shot, Inc. \$23,845;

Erez Allouche, ENHANCING TRENCHLESS SERVICE INSTALLATIONS THROUGH KEYHOLES: TECHNOLOGY REVIEW, SCREENING, AND PRELIMINARY EVALUATION OF TECHNOLOGIES AND TECHNIQUES, Gas Technology Institute \$25,906;

Frank Ji, A HANDHELD MICROSENSOR DEVICE FOR MEASUREMENT OF LOW MOISTURE IN NATURAL GAS, Sensidyne \$30,419;

Tommy Grafton, NORTH CENTRAL ALLIANCE PARTNERS IN PREVENTION, La. Dept. of Health & Hospitals \$99,960;

Glenn Beer, THE EXPERIMENT GALLERY: ACTIVITY STATION SUPPORT, NASA thru LSU/LaSPACE \$13,221;

Jo Ann Dauzat, LOUISIANA TECH/MONROE CITY PARTNERSHIP FOR SCHOOL REFORM, BoR \$199,759.

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