

Louisiana Tech University



BREEZE BULLETIN

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

In every adversity there lies the seed of an equivalent advantage.
In every defeat is a lesson showing you how to win the victory next time.
Robert Collier
(1885-1950, American writer, publisher)

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BOARD OF REGENTS SUPPORT FUND ANNOUNCEMENTS

The 2007-2008 Board of Regents Fall Support Fund Announcements are now available on-line: <http://www.laregents.org/www2/index.htm>. For more information, contact Beth Free at the Office of University Research 257-5075 (e-mail: bfree@latech.edu).

LATECH 07-08 FRINGE RATES

The Louisiana Tech 07-08 Fringe rates can be found at this link: http://research.latech.edu/files/documents/2007-2008_latech_benefits_rates.xls. For assistance with budgets in your proposal writing efforts, contact Elizabeth Womack, Post-Award Coordinator, Office of University Research 257-5075 or e-mail: egwomack@latech.edu.

GRANTS: The Foundation for Career Development Regional Grant Writing Workshops Sponsored by the Louisiana Board of Regents-EPSCoR

Southeastern Louisiana University

Nicholls State University

Thursday, September 13, 2007

for education, arts, humanities, social, and health sciences

(NIH, US ED, NEH, NEA)

and

Thursday, September 27, 2007

for technology, natural, and social sciences

(NSF, DOD, DOE, NSA, EPA, NOAA and Homeland Security)

8:00 am to 5:00 pm

War Memorial Student Union

Southeastern Louisiana University

The workshops will consist of three components:

- representatives from federal agencies sessions
- proposal writing sessions
- collaboration sessions.

To attract researchers and project directors from a variety of academic disciplines from colleges and universities in Louisiana, several federal agencies will be participating. After the morning registrations, welcome and sign-up periods and again after lunch, there will be small group agency-specific sessions exploring pre-proposal planning, proposal writing and development methods. Participants will sign up for 20 minute one-on-one sessions allowing a participant or a small group of participants the opportunity for specific attention from the agency representatives.

During the day, Sponsored Research staff from Southeastern and Nicholls will provide grant writing sessions for participants not scheduled for an agency one-on-one. Handouts, tips, and references will be included in each participant packet. Sessions will include:

- Searching databases for funding opportunities

NEW GRANTS AWARDED

PI/Co-PI	Title	Funding Agency	\$ Awarded
Ray Sterling	<i>Application of Grade Control and Guidance Training Module</i>	Jacob Associates	7,000
Dave Norris	<i>LED Matching Grant Award Application</i>	La. Dept. of Ed.	83,346
Katie Evans	<i>Sensitivity Analysis for the Design of MinMax Controllers</i>	BoR/Enh	73,413
Prerna Sethi	<i>Design and Development of Computational Techniques for Hyperspectral Image Mining</i>	NIH thru LSU	35,639
Vir Phoha/K. Varahramyan	<i>Engineering Smart Cyber-centric Sensor Surveillance Systems for Large Geographic Domains</i>	BoR/PKSFI	3,600,000
Glenn Beer, Amy Vessel	<i>Lincoln Parish Math/Science Project</i>	Lincoln Parish	24,450
Marie Bukowski	<i>Digitizing the Etching and Lithography Facilities</i>	BoR/Enh	51,636
Beer/Tobacyk/Livingston/Chauvin	<i>Explorer Clubs (Year 3)</i>	LASIP	382,420
Ville Kaajakari	<i>Porous Silicon for MEMS Vacuum Packages</i>	NSF/DARPA	49,977
Angela Kennedy	<i>2006/07 Carl Perkins Vocational & Technical Education WIA Incentive Grant/Carry Over</i>	Carl Perkins	1,852
Chad O'Neal	<i>Enhancement of Microsystems Engineering Labs with a XiF2 Release Etch Station</i>	BoR/Enh	67,000
Don Schillinger/Jo Ann Dauzat	<i>Literacy Across the Curriculum Web Site Development</i>	BoR/Enh	10,000
Stan Napper	<i>US-Kazakhstan Planning Visit: Nanotechnology and Materials Technology for Mining and Manufacturing</i>	NSF	19,905
Mike Baumert	<i>One-Day Workshop-Strain Gage Application & Ni Compact Rio 9014: Software and Hardware Familiarization</i>	Clement Industries	3,993
Freyeldenhoven/Maddox/Bryan	<i>Enhancement of the Audiology Program at Louisiana Tech University</i>	BoR/Enh.	15,000
June 2007 Total			\$4,425,631
			Total FY 07 \$15,002,718
Hegab/Palmer/O'Neal	<i>Enhancing Micro/Nanotechnology Education with Hands-on SEM</i>	BoR/Enh	60,630
Vessel/Kimball-Lopez/Hill/Powell	<i>The Reading CSI (Competencies/Subject Integration) Project</i>	LaSIP	275,192
Schillinger/Tims/Camp/Beer	<i>Engineering Higher Student Achievement in Mathematics</i>	LaSIP	40,555
Jo Ann Dauzat	<i>Louisiana Center for the Blind/La. Tech</i>	Center for the Blind	400,000
Alan Chiu	<i>Application of Hippocampal Neuron Dynamics in Artificial Neural Networks for the Development of Brain Function Strategy</i>	BoR/RCS	115,712
Cheng Luo	<i>Theoretical, Numerical and Experimental Studies of An Intermediate-Layer Lithography Approach</i>	NSF	304,707
Markus Wobisch	<i>Search for New Physics Phenomena in Jet Production at Hadron Colliders</i>	BoR/RCS	141,747
Don Liu	<i>An Efficient Method for Simulating Diffusion Inside Nanotubes for Drug Delivery Systems</i>	BoR/RCS	83,793
Allouche/Baumert/Cardenas	<i>Advanced Cementitious Materials Laboratory Enhancement</i>	BoR/Enh	79,787
Lori Myers	<i>CREATED: Computerized Resources and Equipment for Apparel and Textiles Education and Design</i>	BoR/Enh	53,153
Mike Shipp/Daphne Washington	<i>Comprehensive Center for Rehabilitation Technology</i>	LRS	850,922
David Gullatt	<i>Lincoln Parish School Improvement Initiative</i>	Lincoln Parish	23,766
July 2007 Total			\$2,429,964

PROPOSALS SUBMITTED

FILE #	PI	Co-PI 's	TITLE	AGENCY	\$
07-263	Kaajakari, Ville		Ferroelectrets for Boots	DOD/Darpa	49,977
07-264	Beer, Glenn		Experiment Gallery-Activity Station Support	LaSPACE	12,893
07-266	Buboltz, Walter	Soper, Barlow	Sleep Quality, Habit, and Duration: Contribution to Food Choices, Caloric Intake and Obesity in Children and Adolescents	NIH	239,455
07-267	Fang, Ji		A Detection System for Prostate Cancer Diagnosis in its Earliest Stage	NIH	47,580
07-268	Lee, Luke	Cardenas, Henry	Development and Durability of Evaluation of An Electrochemical Deposition Procedure for Fatigue Crack Arrest	La EPSCoR	NOI
07-269	Mullikin, Lisa		HABS Drawings - O'Brien-London House	LA Office of Culture, Recreation & Tourism, Historic Preservation	4,768
07-270	Wilson, Chester		Seed Money for ITRS Proposal/SBIR	Avoyelles	8,000
07-271	Allouche, Erez	Eklund/Baumert	Applications of Inorganic Polymer Concrete (Geopolymer) in Transportation Structures in California	Southern California Association of Governments/City of Los Angeles	24,985
07-272	Allouche, Erez	Sterling, Ray	Decision Analysis Guidelines for Culvert Rehabilitation and Replacement	USDA	10,000
07-273	Leangsuksun, Box		Exploring High Performance Concurrency and Communicaton for Multi-Core Systems	USAID	103,555
07-274	Lvov, Yuri		Clay Nanotubes for Controlled Release of a Corrosion Inhibitor	ACS Petroleum Fund	98,000
08-001	Palmer, James	Hegab/Snow	Enzyme Immobilization for Large Scale Reactors to Reduce Cellulosic Ethanol Costs	USDA	422,067
08-002	Saber, Aziz		Structure Health Monitoring of the I-10 Twin Span Bridge Over Lake Pontchartrain	LTRC	664,354
08-003	Wang, Jay		CAREER: Initiation and Propagation of Strain Localization in Soft Rocks Subject to Chemical/Mechanical Degradation	NSF/CAREER	447,427
08-004	Dobbins, Tabbetha		EPSCOR	DOE	225,169
08-005	Ji, Frank		Microcantilevers for Detection of Organophosphorous Compounds	Sensacoil, Inc.	22,692
08-006	Allouche, Erez	Hall/Swanborn	Enhancing Trenchless Service Installations Through Keyholes - Phase 4	GTI	25,906

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

FILE #	PI	Co-PI 's	TITLE	AGENCY	\$
08-007	Walczyk, Jeff		Motivational Influences on the Linkage Between Automatic Processes and Cognitive Resources in Reading	NSF	139,148
08-008	Walker, Harrell		CyberFlora Louisiana	NSF	43,309
08-009	Selmic, Rastko		CAREER: Optimal Coverage Control in Distributed Wireless Sensor Networks	NSF/CAREER	416,766
08-010	Gullatt, David		Lincoln Parish School Improvement Initiative	LPSB	23,766
08-011	Derosa, Pedro		CAREER: Development of a Multi-Scale Tool to Study Conductive Properties of Polymers	NSF/CAREER	589,675
08-012	Lee, Luke	Baumert, Mike	Perma-Liner Material Characterizations	PermaLiner Industries	3,436
08-013	Dobbins, Tabbetha		CAREER: Functional Self-Assembly of Diphasic Systems as a Research and Training Tool	NSF/CAREER	495,000
08-014	Wick, Collin	Ramachandran, B.	PetaApps: Hierarchically Parallel Modeling Tools for Adsorption and Reactivity at Fluid Interfaces	NSF	272,217
08-015	Darland, Nancy	Sims, Tanya	Developing Citizens Through Leadership & Civic Engagement - Travel Grant	Louisiana Campus Compact	1,117
08-016	Chiu, Alan	Besio, Walt	Nonparametric Classification of Epilepsy Using Hidden Markov Models	Epilepsy Foundation	99,956
08-017	Long, David		Rapid Watershed Assessments Maps	Trailblazer	10,761
08-018	Ji, Frank		Microcantilever Sensor Array for Specific Organophosphorus Recognition	NSF	237,509
08-019	Hegab, Hisham		NASA-ESMD Senior Project: Design of a Thermal Control System for Mars Rover	LASPACE	3,000
08-020	Wiggins, Carynn		It's the Right Time for Writing!	Louisiana Dept. of Education	3,628
08-021	Wilson, Chester	Sweeney, John	NSF Fellowship - Sweeney	NSF	121,500
08-022	Lusby, Aaron	Overby, Aleta	National Technical Assistance, Training, Research and Evaluation: Regional Training Curriculum Implementation	US Dept. of Commerce	296,287
08-023	Sterling, Ray	Allouche, Erez	Continuing Education and Training in Utility Installation and Rehabilitation Techniques - Third Continuation	Contractors' Educational Trust fund	25,000
08-024	Leonard, Pauline	Beer, Glenn	Achieving Widespread Dissemination of EPAS Professional Development Through the Addition of an On-Line Course at Louisiana Tech	LaSIP/NASA	18,226
08-025	Besio, Walter		Examination of Anticonvulsant and Neuroprotective Effects of Transcutaneous Electrical Stimulation Via Concentric Ring Electrodes	Epilepsy Foundation	120,463

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

PI/Co-PI	Title	Funding Agency	\$ Awarded
Lvov/Varahramyan/ McDonald	Enhancement of Educational and Research Infrastructure for Nano- systems Engineering and Molecular Science and Nanotechnology Curricula	BoR/Enh	69,000
Chester Wilson	NSF Fellowship/Sweeny	NSF	40,500
Chester Wilson	Seed Money for ITRS	Avoyelles	8,000
Luke Lee/Mike Baumert	Perma-Liner Material Characterizations	Perma-Liner	3,436
Hillard/Winstead/Russell	Rejuvenation of Compacted Pastures and Turfgrass	BoR/Enh	16,072
Peter Gallagher/Susan Jennings	Environmental Control System for Lomax Hall Greenhouse Complex	BoR/Enh	91,845
Berg/Hooker/Donehoo	Advanced Learning Technologies for Visual Arts	BoR/Enh	82,659
Daniella Mainardi	Computer Laboratory Enhancement for Nanotechnology Education	BoR/Enh	70,239
Lynn Walker	Enhancement of Aquatic Environmental Science	BoR/Enh	78,346
Sethi/Fuller/Martin/ Theodos/Baxter	Undergraduate Database/Data Mining Laboratory	BoR/Enh	30,000
David Mills	Bioimaging and Digital Microscopy Training Lab	BoR/Enh	50,000
James Palmer/Scott Gold	Enhancing the Chemical Engineering Lab with Infrared In-line Proc- ess Analysis	BoR/Enh	45,454
Terry McConathy			
August 2007 Total			\$775,551
			YTD Total \$5,635,479

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

FILE #	PI	Co-PI 's	TITLE	AGENCY	\$
08-026	Wilson, Chester		LaSpace GRSA/Waguespack	LASPACE	4,000
08-027	Wilson, Chester		NDSEG Fellowship for ASEE (T. Williams)	ASEE	46,000
08-028	Dauzat, Jo Ann	Schillinger, Don	Value-Added Qualitative Research Team, Carnegie/CITAL Subgrants	BoR	25,500
08-029	Wiggins, Carynn		Keeping Up with Today's World Through Almanacs	La. Dept. of Edu	229
08-030	Wilson, Chester		Space Capsule Power Generation/ Raley	LaSPACE	4,000
08-031	Dai, Weizhong		Ultrafast Laser Processing on Patho- biological Materials	NSF	278,613

**Louisiana Tech will be closed Monday,
September 3rd for Labor Day**

GRANTS: Regional Grant Writing Workshops (cont'd from page 1)

- Writing the proposal narrative
- Creating the proposal budget
- Submitting the proposal electronically (particularly through Grants.gov)

A working lunch will be provided, where agency representatives will offer agency tips for submitting successful proposals. Also, rooms will be available for faculty to engage in collaborative sessions.

Registration forms may be completed at www.selu.edu/admin/osrp or contact OSRP at 985-549-5312.

2007 ULS SERVES GRANT REQUEST FOR PROPOSALS

ULS Serves has \$550,000 available to fund service-learning projects that address hurricane recovery. **September 28th is the due date for online applications.** Please help get the word out to your faculty, staff, and student organizations!

2007 ULS Serves Grant Request for Proposals: http://www.ulsystem.net/site100-01/1001055/docs/rfp_learn_and_serve_grant_2007_2_.pdf. More information is available on their website, www.ulsystem.net, just click on the "Service" menu button. For more information, contact Ms. Jackie Tisdell, Executive Director of Student Development & Communications, University of Louisiana System, Baton Rouge, LA, (225) 342-6950.

ADDITIONAL GRANT FUNDING FOR EXISTING AWARDS

Sumeet Dua, INBRE - INBRE-DATA MINING MICROARRAY GENE EXPRESSION DATA FOR PHYSIOLOGICAL DISCOVERY, NIH through LSU \$221,429.51;

Kathleen Johnston, PRECISION ELECTROWEAK MEASUREMENTS AT JEFFERSON LAB, NSF, \$204,954;

Tabbatha Dobbins, ENGINEERING DOPANT LOCAL ATOMIC STRUCTURES IN COMPLEX METAL HYDRIDES, BoR \$30,370;

Jay Wang, SHEAR BAND LOCALIZATION: MATHEMATICAL MODELING, NUMERICAL IMPLEMENTATION AND EXPERIMENTAL VALIDATION, BoR \$35,110;

Lee Sawyer, RESEARCH IN HIGH ENERGY PHYSICS AT LOUISIANA TECH UNIVERSITY, DOE \$203,000;

Luke Lee, RAPID REHABILITATION OF HURRICANE DAMAGED STRUCTURES, BoR \$45,000;

Frank Ji, MICROCANTILEVER SENSORS FOR MEASUREMENT OF LOW LEVEL MOISTURE IN NATURAL GAS, BoR \$60,000;

James Palmer, LAYER BY LAYER NANO SELF-ASSEMBLY FOR ENZYME IMMOBILIZATION, BoR \$37,800;

Scott Gold, PLATINUM NANOTUBE BASED ELECTROCATALYST STRUCTURES FOR MICRO FUEL CELLS, BoR \$46,000;

Yuri Lvov, NANOTECHNOLOGY FOR PULP AND PAPER INDUSTRY: LAYER BY LAYER POLYELECTROLYTE COATING, BoR \$60,000;

Chester Wilson, MICRO AND NANOTECHNOLOGIES FOR NEUTRON DETECTORS AND SOURCES, BoR \$38,043;

W. Ross, IMPROVED DETECTION AND MONITORING SYSTEMS FOR NATIVE AND NON-NATIVE WOOD WASPS, USDA Forest Service \$35,932;

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



GO DAWGS!!

