Louisiana Tech University



BREEZE BULLETIN

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

Somebody is always doing what somebody else said couldn't be done.

Author Unknown

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SUMMER GRANTWRITING WORKSHOPS

Below is the beginning of a series of workshops to be presented by the Office of University Research, designed to assist faculty in successfully writing and managing grants. It is suggested that staff members also attend workshops noted with an asterisk (*) as these workshops focus on helpful information for ordering equipment, paying credit card statements, balancing the CICS account, etc.:

- 6/18 @ 2pm-3pm: Fall Funding Opportunities With The Board of Regents. Location: <u>Rm. 1535, Wyly</u> <u>Tower.</u>
- 6/25 @ 2pm-3pm: Submitting to Grants.gov. Location: CITDL, 10th Floor, Prescott Library.
- *6/28 @ 2pm-3pm: Grant Management . Location: <u>Rm.</u> 1535, Wyly Tower.

Additional workshops will be scheduled throughout the summer with e-mail notifications to faculty and staff. If you cannot attend during the dates and times listed, please contact Beth Free via e-mail (bfree@latech.edu) or phone 257-5075 to schedule a convenient date

Dobbins Receives Penn State Award

Tabbetha A. Dobbins ('02 EMS) assistant professor with a joint appointment in physics at Louisiana Tech University and Grambling State University was one of 10 alumni to receive the 2007 Penn State Alumni Association Alumni Achievement Award. This award recognizes alumni who are 35 years of age and younger for their extraordinary professional accomplishments.



After receiving her doctorate from Penn State in 2002, Dobbins was awarded the prestigious National Research Council Post-Doctoral Fellowship to do research at the National Institute of Standards and Technology.

Dobbins' dissertation focused on how high-temperature thermal spray conditions affected the quality of thermal barrier coatings—a critical component to the performance of commercial jet engines. She continues to do cutting-edge research in applying synchrotron x-ray analysis to modern engineering problems in carbon nanotubes, the hydrogen fuel economy, and polymer self-assembly. She already has an excellent record of publication in the top journals for materials research, which includes 13 scholarly publications.

Dobbins also excels in teaching and outreach. In her position, she has mentored students in both graduate and undergraduate research projects and promoted the students' professional research. She works diligently to engage Louisiana Tech and Grambling State universities in joint research with Penn State in the area of synchrotron X-ray studies. One focus of this collaboration is on introducing women and minority students to state-of-the-art instrumentation and to the excitement of materials research. Students from these two institutions travel to Penn State to conduct research expanding the capabilities and relationships of all three universities, while at the same time, attracting and recruiting students to Penn State's graduate science programs.

Dobbins is a member of the Louisiana Science Teacher's Association and serves on the Louisiana State University Center for Advanced Microstructures and Devices User Participation Committee. She lives in Ruston, La.

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NEW GRANTS AWARDED

1I/Co-PI	Title	Funding Agency	\$ Awarded
Glenn Beer	Establishing LaCAMPS-Year 3	DOE/LaSPACE	253,936
G. Beer/D.Basinger Ji Fang	LaTech/LA GEAR UP Explorers Camps 2007 High Sensitivity Prostate Cancer Detection System	DOE/LaSPACE ULM	297,637 2,000
Chester Wilson	LaSpace Minority Research Undergrad Program	NASA/LaSPACE	4,000
Chester Wilson	Micro Scale Detectors for Space Based Cosmic Radiation Detection and Monitoring	NASA/LaSPACE	29,970
April 2007 Total			\$587,543.00
Chad O'Neal	Suss Microtec SB6e Wafer Bonder for Microenergy and Advanced Device Packaging Applications	DOD	160,825
L.Ramsey/G.Beer	Ripple Plus	LaSIP	182,226
Schillenger/Tims/ Camp/Beer	Engineering Higher Student Achievement in Mathematics	LaSIP	297,256
Pauline Leonard	Project EPAS Year 3	LaSIP	233,242
Pamela Ford	Dual Enrollment Pilot Project	BOR	12,700
Wendy Miletello	LA GEAR UP Sports Medicine Camp	USDE/BoR	133,167
L. Ramsey/G.Beer	Development of Ripple Plus Professional Development Materals	USDE/BoR	39,454
Les Guice	LaTech LONI Environmental Upgrade	BoR	55,000
Chad O'Neal	Low Profile Multi-Mode Sensors for Anti-Tamper Applications	Radiance/Air Force	162,500
Chester Wilson	X/FIB Technology	Radiance/Air Force	162,446
Wendy Miletello	PBRC Professional Development Initiative	USDE through BoR	109,094
Henry Cardenas	Electrochemical Oil Spill Prevention	OSDRP	37,456
Baumert/Allouche/ Simicevic	Laboratory and Field Test of Push and Drive - An Innovative Pipe for the Trenchless Industry	IPEX	18,946
May 2007 Total			\$1,604,312
		YTD	\$10,617,642

ADDITIONAL GRANT FUNDING FOR EXISTING AWARDS

Andre Paun, BIOCOMP: COLLABORATIVE RESEARCH: P SYSTEMS: THEORY & APPLICATIONS TO MODELING & SIMULATION OF CELLS NSF \$50,000;

Mary Murimi, DUBACH-RURAL HEALTH CARE SERVICES OUTREACH GRANT PROGRAM (Year 3), DHHS, \$191,285;

Larry Proctor, BETTER HEALTH FOR THE DELTA PHASE II (Year 3), US Health Resources Services Adm., \$87,630.83;

Natalia Zotov, RESEARCH IN SUPPORT OF LIGO BINARY INSPIRAL SEARCH AND DETECTOR CHARACTERIZATION (Year 3), NSF \$40,000;

Chokchai Leangsuksun, MOLAR: MODULAR LINUX AND ADAPTIVE RUNTIME SUPPORT FOR HEC OS/R RESEARCH (Year 3), DOE \$98,057;

<u>Tabbetha Dobbins</u>, RESEARCH AND EDUCATION - INCREASING STUDENT PARTICIPATION IN RESEARCH AT INTERNATIONALLY RECOGNIZED USER FACILITIES (Year 3), NSF \$91,361.

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PROPOSALS SUBMITTED

FILE #	PI	Co-PI 's	TITLE	AGENCY	\$
			Integrative Graduate Education and		
	Varahramyan		Research Traineeship Program in Nano-Bio-Info-Cogno-Sciences and		
07-231	Varahramyan, Kody		Converging Technologies	NSF	3,000,000
07 201	Rody		Integrative Graduate Education and	1401	3,000,000
			Research Traineeship Program in		
			Nano-Bio-Info-Cogno-Sciences and		
07-232	Napper, Stan		Converging Technologies	NSF	19,905
			Electrodeposition of Tantalum and		
07.000	FILL OF	Olbical Obaci	Other Refractory Metals in Room		055.057
07-233	Eklund, Sven	O'Neal, Chad	Temperature Ionic Liquids	DOD	355,057
07-234	Wilson, Chester		ARDEC/GA Nanofab	NSF	1,400,000
			i-Work: WeBWorK to Enhance an		
07-235	Evans, Katie	Camp, Brian	Integrated Engineering Curriculim	NSF	149,980
			Integrated Manipulation of Substrate	Governor's Office	
			Properties for an Improved Construction of Stem Cell-based Artificial	of Community	
07-236	Sit, Sidney	Mills, David	Biomaterials	Programs	1,999,864
07-237	Dowling, Bobby	ivillo, David	Hideaway Park Trail Phase II	NSA	121,400
01 201	Leangsuksun,		Scalable Proactive Fault Tolerance	NOA	121,400
07-238	Box		for Next-Generation HPC		153,217
			Enterprise Center Economic Devel-	US Dept. of	
07-239	Norris, Dave		opment Outreach	Commerce	413,313
07-240	Wilson, Chester		DNDO Academic Proposal	NSF	1,974,452
				DOD/US Army	
			Development of Antibody-based Di-	Medical Re-	
07-241	Fong li		agnostic System for Novel Early Detection of Prostrate Cancer	search & Material Command	140.074
07-241	Fang, Ji				148,974
07-242	Wick Callin		Computational Studies of Aqueous Interfaces	Dreyfus Founda- tion	50,000
01-242	Wick, Collin		Interiaces	Lincoln Parish	50,000
07-243	Beer, Glenn	Vessell, Amy	Lincoln Parish Math/Science Project	School System	24,450
	221, 212	Dauzat, Jo	Literacy Across the Curriculum Web		, .56
07-244	Schillinger, Don	Ann	Site Development	BoR	10,000
	,		Development of Ripple Plus Profes-	LA GEAR UP/	, <u> </u>
07-245	Ramsey, Linda	Beer, Glenn	sional Development Materals	LASIP	39,454
	, ,	·	Laboratory and Field Test of Push		·
			and Drive - An Innovative Pipe for		
07-246	Baumert, Mike	Allouche, Erez	the Trenchless Industry	Ipex, Inc.	18,948
07.04-			LaTech LONI Environmental Up-		
07-247	Guice, Les		grade	BoR	55,000
			Application of Grade Control and	Jacobs Associ-	
07-248	Sterling, Ray		Guidance Training Module	ates	7,000

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

FILE #	PI	Co-PI 's	TITLE	AGENCY	\$
07-249	Chiu Alan		Brain Function Replacement Using Coupled Oscillators	NIH	1 252 025
07-249	Chiu, Alan		A Non-Invasive Patterned Functional	INIT	1,252,035
			Electrical Stimulation (PFES) Proto-		
07-250	Besio, Walt		type for Stroke Rehabilitation	NCIIA	16,500
			Time-dependent Initiation and Propagation of Shear Strain Local-		
			ization in Soft Rocks Subject to		
07-251	Wang, Jay		Chemical/Mechanical Degradation	DOE	201,749
07-252	Beer, Glenn	Basinger/ Schillinger	Family Recovery Corps/LA GEAR UP Explorers Camps	Louisiana Family Recovery Corps	224 005
07-232	Deer, Glerin	Schillinger	Profiling and Characterization of	Recovery Corps	224,995
			Serine Proteases in Pancreatic Can-		
07-253	Wolf, William		cer	NIH	136,702
07.054	Leangsuksun,		Reliability, Availability & Serviceabil-	DOE	275 000
07-254	Box Leangsuksun,		ity (RAS) Virtualized System Environments for	DOE	375,000
07-255	Box		Extreme-Scale High-End Computing	DOE	375,000
			Experimental Evaluation of Cip Lin-		·
07-256	Allougho Froz	Hall/Ctarling	ing Systems for High Temperature	NY Dept. of Design & Construction	174 460
07-256	Allouche, Erez	Hall/Sterling	Applications A Multi-University Alliance to In-	& Construction	174,460
			crease Participation of Under-		
			Represented Students in Computing		
07-257	Selmic, Rastko	Phoha, Vir	Disciplines	NSF Louisiana Div. of	549,370
07-258	Roach, Susan		Louisiana Regional Folklife Program	the Arts	60,000
0. 200	rtodon, Ododn		20 diolaria i rogionari olimio i rogiam	1107110	00,000
				Shreveport Re-	
07-259	Robbins, Ken- neth		The Arthur W. Stone New Play Award	gional Arts Council Decentralized Arts	3,938
01-238	HGUI		2006/07 Carl Perkins Vocational &	Decentialized Alto	5,956
			Technical Education WIA Incentive	La. Tech. & Comm	
07-260	Kennedy, Angela		Grant/Carry Over	College Sys	1,852
07-261	Kennedy, Angela		2007-08 Carl Perkins Vocational & Technical Education Grant	La. Tech. & Comm College Sys	108,000
01-201	Neillieuy, Aligela		One-Day Workshop-Strain Gage	College Sys	100,000
			Application & Ni Compact Rio 9014:		
07.000	D		Software and Hardware Familiariza-	Observation to the	2 222
07-262	Baumert, Mike		tion	Clement Industries	3,993