FALL/WINTER 2016

Louisiana Tech University

BREEZE BULLETIN

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

A certain amount of opposition is a great help to a man. Kites rise against, not with, the wind.

- John Neal

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New Grants Awarded 2
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2016-17 TECH FRINGE/F&A RATES

- Faculty/Unclassified/Post Doc: 46.85%
- Civil Service: 56.15%
- Temporary/Part-time: 10.20%
- DROP: 20.35%
- Federal F&A (S/W): 49.40%

Go to the following link to download as a pdf file: http://research.latech.edu/files/documents/LaTech%202016-17%20Fringe%20Rates.pdf.

OUR IN-HOUSE WORKSHOPS

For a complete list of in-house workshops, go to http://research.latech.edu/resources/training_workshops/latech_workshops.

- **Amplifund Training**, January 10, 10-11am WT1527;
- **Planning Your Research**, January 11, 2-3pm WT1527;
- **Subcontract vs. Contracts for Services: What you need to know before you route**, January 19, 3-4pm WT1527;
- **Creating & Maintaining a Budget**, February 15, 2-3pm WT1527;
- **Amplifund Training**, February 7, 2-3pm WT1527;
- **Grants Administration**, February 16, 11-12pm WT1527.

NSF FY 2017 Budget Request to Congress

This FY 2017 Budget Request for the National Science Foundation (NSF) continues NSF's longstanding commitment to supporting research that drives scientific discovery, maintains America's global competitiveness, and builds the modern workforce that is critical for addressing the complex challenges that face the Nation. NSF is vital because we invest in basic research and people who make the discoveries that transform our future. Those discoveries are a primary driver of the U.S. economy, enhance our Nation's security, and give the country the competitive edge to remain a global leader.

FY 2017 Budget Request

Total: $7.964 billion

Increase: $500.53 million

6.7% over FY 2016

NSF's FY 2017 Budget Request is $7.964 billion, an increase of $500.53 million (6.7 percent) over the FY 2016 Estimate. This includes $7.56 billion in discretionary budget authority and $400 million in new mandatory budget authority. The FY 2017 Budget Request reflects a carefully chosen portfolio that supports the fundamental research that is NSF's hallmark and creates and sustains key partnerships with other federal agencies, industry, and international entities. Through sustained, longstanding investments in all areas of science, engineering, and education, this submission ensures a robust return on investment for all American citizens.

NSF's broad portfolio positions the agency to contribute productively and rapidly to important national challenges. For example, the Computer Science for All initiative, announced by the President on January 30, 2016, builds on ongoing NSF activities that foster rigorous and engaging computer science education in schools across the Nation. Similarly, a range of NSF-supported advances and innovations will help to launch the Administration's cancer "moonshot." These include fundamental research in biology, biochemistry, biophysics; data-driven discovery enabled by machine learning techniques and leveraging NSF-cyberinfrastructure; and engineered systems in nanotechnology, imaging, material science and robotics.

Link to full article: https://www.nsf.gov/about/budget/fy2017/pdf/01_fy2017.pdf.

NEW GRANTS AWARDED

PI	Title	Funding Agency	$ Awarded
Dentcho Genov	*A Roadmap Toward Terahertz Optoelectronics Using Active Control of Charge*	NSF	143,900
Leon Iasemidis	*RII Track-2 FEC: Probing and Understanding the Brain: Micro and Macro Dynamics of Seizure and Memory Networks*	NSF	6,000,000
Hamzeh Bardaweel	*Fabrication and Characterization of Broadband Nonlinear Electromagnetic Energy Harvester*	LSU/LASPACE/ NASA	8,000
August 2016 (cont'd)		***Total:***	***250,623***
Chester Wilson	*GRSA Nick Groden: Nanoparticle-Enhanced Colloid Thruster for Microsatellites*	LSU/LASPACE/ NASA	8,000
Chester Wilson	*CubeSats Containing Adaptable GRIN Fresnel Zone Plates in Collaboration with NASA Langley*	LSU/LASPACE/ NASA	6,000
Hamzeh Bardaweel	*Dynamic Analysis and Design Optimization of a Regenerative Shock Absorber*	LSU/LASPACE/ NASA	6,000
Jamie Newman	*Differentiation of Pluripotent Stem Cells into Cardiomyocytes for Cardiac Tissue Engineering*	LSU/LASPACE/ NASA	8,000
Sven Eklund	*Corrosion Reduction of Launch Pad Concrete with Electrokinetic Nanoparticle Treatment*	LSU/LASPACE/ NASA	6,000
Mary Caldolera-Moore	*Development of Drug Delivery Carrier Systems for Controlled Release of Vasodilator Drugs for Improved Cardiovascular Health of Astronauts*	LSU/LASPACE/ NASA	6,000
Prabhu Arumugam	*Characterization of a Platinum-diamond Hybrid Electrochemical Probe for Single Cell Analysis*	LSU/LASPACE/ NASA	6,000
Paul Jackson	*Relating Substrate pH to Pathogen Populations, Causal Virulence, and Southern Pine Seedling Quality*	USDA Forest Service	15,000
Mary Caldolera-Moore	*High Surface Area Nanopatterned Hydrogels for Wound Healing and Tissue Scaffolding Applications*	LSU/LASPACE/ NASA	6,000
Lindsey Keith-Vincent	*Louisiana Center for Afterschool Learning (LACAL)*	Mott Foundation	225,000
September 2016		***Total:***	***292,000***
Sven Eklund	*Preparation of in-situ Regolith-Based Geopolymers for Martian Structures*	LSU/LASPACE/ NASA	6,000
Chester Wilson/ Lindsey Keith-Vincent	*LaSpace MRS Amanda Langston*	LSU/LASPACE/ NASA	6,000
Leland Weiss/ Arden Moore	*Self-Sensing Heat Exchangers and Materials for NASA Applications*	LSU/LASPACE/ NASA	34,191
Shaurav Alam/ David Hall	*Experimental Evaluation of Pipe Locking Mechanism Manufactured by Trinity Products*	Trinity Products, Inc.	15,250
Arden Moore	*LaACES: Measurement of UVA, UVB, and UVC Irradiance at High Altitudes*	LSU/LASPACE/ NASA	10,000
Jay Wang	*Civil Engineering Senior Design Project: Multiple Projects for Seven Teams*	LTRC	5,000
Rastko Selmic	*Integrated Monitoring AWAReness Environment (IM□AWARE)*	NASA/American GNC	160,000
October 2016		***Total***:	**236,441**
Tara Haskins	*Nursing Faculty Practice Proposal: Bienville Parish School System*	Bienvilel Parish School System	7,399
Hamzeh Bardaweel	*Broadband Nonlinear Vibrational Energy Harvester for Aerospace Applications*	LSU/LASPACE/ NASA	34.875
Tom Iseley	*Practical Condition Assessment and Failure Probability Anyalysis of Small Diameter Ductile Iron Pipe*	Water Research Foundation/ Purdue	25,000
Scott Poh	*Targeting Activated Macrophages in Inflammation with Thermosensitive Biopolymers*	NIH/LSU	1,692
Adarsh Radadia/ Shengnian Wang	*An Accuri Flow Cytometer to Strengthen Biomedical Research at Louisiana Tech*	NIH/LSU	***25,000***
November 2016		***Total:***	**93,966**
		2016-17 YTD:	***1,579,969***

PROPOSALS SUBMITTED

* FILE #	PI	Co-PI 's	TITLE	AGENCY	$ Requested
17-036P	Momeni, Kasra		A Multiscale Approach to Modeling 2D Materials: From Nanoscale to Continuum	BoR/RCS	112,700
17-038	Nestorova, Gergana		Site-specific Solid Phase Extraction and Ultrasensitive Quantification of MicroRNAs From Low Cell Number	BoR/ITRS	225,000
17-039	Nestorova, ergana		Identification of Novel MicroRNAs that Regulate Aging Induced by Oxidative Stress	BRF	49,616
17-040P	Clay, Natalie		Regulation of Sodium and Protein in Common Herbivores	BoR/RCS/Pfund	20,000
17-041	Hindmarsh, Patrick		Development of a GFP based Biological Sensor for Candida albicans	BoR/RCS	118,550
17-042P	Lynam, Joan		Deep Eutectic Solvents for Deconstruction of Rice Hulls and Sugarcane Bagasse	BoR/RCS	140,000
17-043P	Sheppard, Donald		Connectivity of Salamander Populations in Stream Networks	BoR/RCS/Pfund	20,000
17-044	Wang, Shengnian		Synthesis of Carbon Dots With Long, Visible Emission Wavelength	NIH/LBRN/LSUS	20,000
17-045	Adams, Joshua		PopuluSolv: A Sustainable Supply Chain for the Southeast's Bioeconomy	USDA	283,961
17-046	Voziyanov, Yuri		Dissecting Cell Rejuvenation Program During Spore Formation in Budding Yeast	BRF	50,000
17-047P	Moore, Arden		Achieving Enhanced Mechanical and Thermal Properties in High Throughput Nanoparticle/Polymer Composite Micro- and Nanofibers via Controlled Promotion of Local Crystallinity	BoR/RCS	140,000
17-048P	Madadi, Mahboubeh		Breast Cancer Preventive Care for Women With High Breast Density	BoR/RCS	116,579
17-049	Maness, Terri		Using Genetic and Atable Isotope Markers to Link Wintering Henslow's Sparrows to Their Breeding Grounds	BoR/RCS	0
17-050	Bishop, Thomas	Chowriappa/ Dua S.	ABI-Innovation: Dashboard for Bioinformatics and Molecular Dyanmics-Nucleosomes in 1 to 4D	NSF	574,880
17-051	Caldolera-Moore, Mary		Tonic Contractility of 3D Multicellular Diabetic Foot Ulcer Model in the Presence of Environmentally Responsive Chitosan-genipin hydrogels	LSUHSC-PAC	25,000
17-052P	Hill, Jennifer		The Impacts of Sub-lethal Pesticide Concentrations on Predator-prey Interactions in Marine and Freshwater Communities	BoR/RCS	196,203
17-053P	Hollins, Bryant		A Robust Multiplexed Microfluidic Device for Protein Carbonylation Assessment	BoR/RCS	165,000
17-054	Wang, Shengnian		Hybrid Field Microfluidics for Nonviral Nano-particle Synthesis and Cell Reprogramming	NSF	299,998
17-055	Hollins, Bryant		A Simple, Tunable System for Conducting Sleep Restriction Studies in Rodents	BRF	49,999
17-056	Wang, Shengnian	Wick/ Ramachandran	Scalable Manufacturing of Composite Elec-trodes for Lithium-Sulfur Batteries	BoR/ITRS	350,000

(*Missing File #'s denote with-drawn proposals)

(Cont'd on page 4)

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

* FILE #	PI	Co-PI 's	TITLE	AGENCY	$
17-057P	Beminiwattha, Rakitha		Design and Development of Computational Analysis and Modeling Software Frameworks for Nuclear and Particle Physics Experiments	BoR/RCS	90,000
17-058	Sherer, Eric		Automated Abstraction of Serial Colonoscopy Results From EMR Text	BoR/RCS	180,000
17-059P	Ker, Jung-Ing		A Just-in-time Product Centered Approach to Enhance Industrial Engineering Education	BoR/RCS/Pfund	17,000
17-060	Alam, Shaurav	Hall, David	Experimental Evaluation of Pipe Locking Mechanism Manufactured by Trinity Products	Trinity Products LLC	15,250
17-061P	Tewari, Sanjay	Cardenas, Henry	Electrokinetic In-situ Remediation of High Water Table Soils Contaminated With Heavy Metals	BoR/RCS	161,258
17-062	Decoster, Mark		Development of Novel Copper-containing Nanoscale Biocomposites for Brain Cell Imaging	BRF	48,088
17-063P	O'Neal, Patrick		SmartShoe integrating Sensors and a Smartphone for Mitigation of Diabetic Foot Ulcers	BoR/ITRS	180,000
17-064	Wang, Shengnian		Production of Novel Mesoporous Zeolites for Lignin Depolymerization	BoR/ITRS/PoC	40,000
17-065P	Poh, Scott		Suppression of Cartilage Inflammation by Targeted PEGylated Polyamidoamine Dendrimer	BoR/RCS	170,000
17-066P	Poh, Scott		Receptor Mediated Dendrimer with Releasable Dexamethasone to Suppress Inflammation in Cartilage	NIH/LBRN/LSUS	100,000
17-067	Wang, Jay		Civil Engineering Senior Design Project: Multiple Projects for Seven Teams	LTRC	5,000
17-068P	Chen, Jinyuan		Information-Theoretic Secrecy for Wireless Networks: From Degrees-of-Freedom to Constant-Gap Capacity Approximations	BoR/RCS	180,000
17-069P	Stafford, Tom		Neurocognitive Assessment of Motivations for Cybersecurity Behaviors	BoR/RCS	107,594
17-070	Alam, Shaurav		Light Weight Concrete Mix Design (LWCMD) for Louisiana's Transportation and Construction Industry	BoR/ITRS	150,000
17-071	Holley, Gordon		LOUISIANA TECH MCINTIRE-STENNIS FY17	USDA/NIFA/AFRI	250,070
17-072	Sawyer, Lee	Greenwood/ Wobisch	High Energy Physics Research at the Ener-gy Frontier at Lousiana Tech	DOEnergy	1,029,353
17-073	Hollins, Bryant		Protein-centered Radicals as a Result of Heavy Metal Homeostasis Disruption	Alzheimer's Association	0
17-074	Hood, Donna		Perkins Carryover 2016 Nursing	Carl D. Perkins 2006	3,000
17-075	Hill, Jennifer		The Impact of Ocean Acidification on Blue Crab (Callinectes sapidus) Foraging Behaviors at Multiple Ontogenetic Life Stages	NOAA	282,908
17-076	Dua, Sumeet		Satellite-Assisted Forecasting Environment for Detection and Management of Gulf Coast Oyster Contamination (SAFE Oyster)	NOAA	211,241

(*Missing File #'s denote with-drawn proposals)

(Cont'd on page 5)

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

*FILE #	PI	Co-PI 's	TITLE	AGENCY	$
17-077	Mainardi, Daniella	Murray, Erica	In Search of the Operating Principle of Impedancemetric NOx Sensors	NSF	500,755
17-078	Haskins, Tara		Nursing Faculty Practice Proposal: Bienville Parish School System	Bienville Parish School System	7,399
17-079	Moore, Arden		Understanding Multi-carrier Heating Effects within Wide- and Ultra-wide Bandgap Semiconductor Electronic Devices at Elevated Environmental Temperatures	NASA	NOI
17-080	Caldolera-Moore, Mary		In Vitro Characterization of Multifunctional Chitosan Hydrogels for Chronic Wound Treatment	Sigma Xi	991
17-081	McConnell, Eric		Economic Contributions of Mid-Atlantic Forest Products Exports	USDA	114,965
17-082	Weiss, Leland		Autonomous Sensor Power for Hydrogen Sulfide Detection and Threat Mitigation	NSF	200,000
17-083	Madadi, Mahboubeh		Characterizing Women's Breast Density and its Dynamics Using Novel Data Mining and Machine Learning Methods	LBRN	NOI
17-084	Newman, Jamie		Effect of Scaffold Elasticity on Differentiation of Mouse Embryonic Stem Cells into Cardiomyocytes for Cardiac Tissue Engineering	Sigma Xi	775
17-085P	Nestorova, Gergana		Identification of novel microRNAs that regulate DNA repair proteins	LBRN	50,000
17-086	Lvov, Yuri	Montes, Carlos	SusCheM: Fly Ash Geopolymer Concrete Enhanced With Multicomponent Self-assembly	NSF	222,457
17-087	Alam, Shaurav	Eklund/Iseley	ASTM D543 – Practice A and Procedure – I for Phenoline Tank Shield (PTS) Coating Material Subjected to Selected Chemical Solutions	SpectraShield Inc.	9,760
17-088	Newman, Jamie	Dua, Prerna	The Role of Med12 in the Maintenance of Mesenchymal Stem Cell State	NIH	361,725
17-089	Anderson, David		The Rise and Fall of Lone Star Steel and the Making of the "Red State" Rural South, 1940s-2010s	BoR/ATLAS	47,566
17-090	Bardaweel, Hamzeh	Weiss/Jaganathan/ Swanbom	Broadband Magnetically-levitated Vibration Energy Harvester: Stiffness and Damping Nonlinearities Approach	NSF	322,905
17-091	Momeni, Kasra	Moore, Arden	Achieving Controllable and Reproducible 2D Material Synthesis via Intelligent, Simulation-guided Process Design	DOD/ARO	474,955
17-092	Wang, Shengnian		Nanoscale Proximity of Bifunctional Catalyst with Stitched Hybrid Nanofibers for Modulated Microreactors	NSF	299,998
17-093	Wang, Shengnian		Biomanufacturing mRNA-loaded Whole Blood Cell Vaccine by Size-Specific Flow Electro-poration	NSF	300,198
17-094	Caldolera-Moore, Mary		Tonic contractility of 3D Multicellular Diabetic Foot Ulcer Model in the Presence of Environmentally Responsive Chitosan-genipin Hydrogels	LSUHSC-PAC	25,000

(*Missing File #'s denote with-drawn proposals)

(Cont'd on page 6)

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

*FILE #	PI	Co-PI 's	TITLE	AGENCY	$
17-095	Siriwardane, Upali		Incorporation of Modern Chemical Separation Techniques (GC/HPLC) into LA Tech Integrated Chemistry/Environmental Science Labs	BoR/ENH	85,220
17-096	Liu, Don		Investigation of Separating Cancer Cells from Colloidal Biofluids with Emerging Microfluidic Technologies	NSF	288,622
17-097	Tewari, Sanjay	Hindmarsh, Patrick	Biologically Active Hybrid Filters for Controlling Traditional and Emerging Disinfection By-products in Small Water Treatment Systems	NSF	213,694
17-098	Tewari, Sanjay	Eklund, Sven	Improving Water Purification Yield in Capacitive Deionization Environment Using Surface-Modified Carbon Electrodes	NSF	227,298
17-099	Wang, Shengnian	Wick, Collin	Exfoliated Graphene/Nanofiber Composite with mesopores for Lithium-Sulfur Battery Electrodes	NSF	450,000
17-100	Lee, Jae Ung		Modeling Insider Threat Behavior	NSF	17,038
17-101	Heiden, Kathleen		Fashion From High School to College to Career: Enhancing Programs Through an Expanded Collaborative Learning Environment	BoR/ENH	52,229
17-102	Dai, Weizhong		Development of Mathematical Model and Numerical Method for Thermal Analysis in Nanoscale Multi-Layered Domains	NSF	178,699
17-103	Nazimuddin, Wasiuddin		Short- and Long-Term Binder Aging Methods to Accurately Reflect Aging in Asphalt Mixtures	LTRC	75,000
17-104	Evans, Katie	Sherer, Eric	Mathematics Skills Assessments to Promote Self-Regulation in Engineering	NSF	235,556
17-105	Caldolera-Moore, Mary	Derosa, Pedro	Experimental-Computational Design of Nanoscale Hydrogel Materials for Cellular Biomanufacturing Applications	NSF	507,087
17-106	Newman, Jamie		Imaging System Upgrade for BioTke Cytation 5 Plate Reader	LBRN/LSU/NIH	50,000
17-107	Bishop, Thomas		Dawg Bytes: Virtual Desktop Infrastructure for Biomedical Researchers at Louisiana Tech	LBRN	49,674
17-108	Palmer, James	Ramachandran, Bala	Superior Graduate Fellows Supporting Five Centers of Excellence in Engineering 2018-2013	BoR/GF	324,000
17-109	Mills, David		Instrumentation in Support of a New 3D Printing Lab	LBRN	9,500
17-110	Norris, Davy		UALR-LaTech Railroad Corridor/Disaster Resiliency Project	EDA	80,000
17-111	Hou, Songming		Collaborative Research: Gradient recovery for interface problem in physics system	NSF	105,921
17-112	Bardaweel, Hamzeh	Weiss, Leland	3-D printed Tune-able non-resonant floating magnet oscillator for vibrational energy harvesting from NASA Stennis Space Center (SSC) facility	NASA/EPSCoR/ BoR	39,889
17-113	Voziyanov, Yuri		Engineering wild-type functionality in tyrosine site-specific recombinases with altered target specificity	NSF	472,011
17-114	Beminiwattha, Rakitha		High Precision Nuclear Physics Experiments to Study the Standard Model of Particle Physics	NSF	174,431
17-115	Yeaw, Chris	Swegle/ Mhire/White/ Liesveld/ Marshall	Credibility and Flexibility for Future Limited Nuclear Conflicts Wargame	DOD	224,113

(*Missing File #'s denote withdrawn proposals)

(Cont'd on page 7)

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

*FILE #	PI	Co-PI 's	TITLE	AGENCY	$
17-116	Ramachandran, Bala	Cambell/ Nestorova	Superior Graduate Fellows in Molecular Sciences and Nanotechnology 2017-2022	BoR/GF	216,000
17-117	Liu, Don	Moore, Arden	Simulation of Phase Change Heat Transfer on Thermally Enhanced Surfaces with Experimental Validations	NSF	318,995
17-118	Shoemaker, Sheryl	Ramachandran/ Thomas	Increasing Diversity in Doctoral Populations at Louisiana Tech University 2017-21	BoR/SREB	380,000
17-119	Dua, Sumeet		Recruitment of Superior Doctoral Graduate Fellows in Computational Analysis and Modeling	BoR/GF	200,000
17-120	Jones, Steven		Graduate Fellows in Biomedical Engineering 2017-2022	BoR/GF	216,000
17-121	Moore, Arden		Understanding Multi-carrier Heating Effects within Wide- and Ultra-wide Bandgap Semiconductor Electronic Devices at Elevated Environmental Temperatures	NASA	396,427
17-122	Arumugam, Prabhu		Development of a Novel Carbon Nanomaterial -enabled Advanced Oxidation Technology for Enriched Biodegradation of Organic Pollutants	GoMRI	499,950
17-123	Newman, Jamie		Differentiation of Mouse Embryonic Stem Cells into Cardiomyocytes for Tissue Engineering	BoR/SURE	5,000
17-124	Hill, Jennifer		Sea Grant Coastal Science Assistantship	Louisiana Sea Grant/NOAA	75,000
17-125	Bardaweel, Hamzeh		3D Printed Structures for Multi-functional Energy scavenger.	BoR/EPSCoR/ CIMM	10,000
17-126	Vessel, Amy	Basinger/McCoy/ Keith-Vincent/ Schillenger	Teacher Preparation Residencies Support Needs Request 2016-2017	La. Dept. EDU/ US EDU	160,640
17-127	Bardaweel, Hamzeh		Developing 3D-printable Structures for Micro-vibration Isolation System.	BoR/EPSCoR/ NSF	5,000
17-128	Alam, Shaurav	Iseley, Tom	ASTM D638 and ASTM D790 Testing of Aqua -Pipe Liner	Sanexen	19,703
17-129	Liu, Don		Modeling Soil Particles Entrainment Flow in Deltaic Rivers and Coastal Louisiana to Prevent Soil Erosion	NSF	289,624
17-130	Momeni, Kasra		An Advanced Phase-field Approach to Engineering Laser-based 3D Metal Printing: Effect of Mechanics and Interfaces	BoR/EPSCoR/ CIMM	10,000
17-131	Adams, Joshua		Maintaining Eastern Cottonwood Clones for In Vitro Processing for Futuragene© 2017	Futuragene, Inc.	4,941
17-132	Leangsuksun, Box		S&CC-IRG Preliminary Proposal Track 2: In-telligent Living in Smart Cities	NSF	961,629
17-133	Adams, Joshua	Palmer/ VanderSchaaf	Treenutri Product Testing Amendment	Treenutri, Inc.	5,256
17-134	Fontenot, Catherine	Jones, Ethel	"Using a Shoe String Budget For Promoting Healthy Food Choices (USSB-PHFC)"	USDA/AFRI/NIFA	100,000
17-135	Alam, Shaurav	Iseley, Tom	Development of Proof of Concept for Conducting Tests Alike Pickle Jar Test on Avanti Grout Material – Phase II	Avanti International	7,487

University Research Forms and Downloads link: http://research.latech.edu/resources/forms_downloads.

(*Missing File #'s denote withdrawn proposals)

DISSERTATION HIGHLIGHTS (FALL/WINTER 2016)

DOCTOR OF BUSINESS ADMINISTRATION
College of Business

Aadel Ali Darrat, Ruston

BS (2008) Louisiana Tech University
MBA (2010) Louisiana Tech University
Dissertation: "Examining Consumers' Cognitive and Behavioral Responses to Belief Disconfirmation"
Major Advisor: Dr. Bruce Alford (Hooded by Dr. Ali Darrat)

Mohamad Ali Darrat, Ruston

BS (2010) Louisiana Tech University
MBA (2012) Louisiana Tech University
Dissertation: "The Influence of Consumer Freeloading Behavior on an Observer's and Perpetrator's Affective Commitment"
Major Advisor: Dr. Barry Babin (Hooded by Dr. Ali Darrat)

Prabhashi Nanayakkara, Sri Lanka

BS (2005) University of Wisconsin, Superior, WI
MBA (2010) Missouri State University, Springfield, MO
Dissertation: "Perceived Patient Control Over Personal Health Information in the Presence of Context-Specific Concern"
Major Advisor: Dr. T. Selwyn Ellis

DOCTOR OF EDUCATION
College of Education

Haley Blount Taitano, Natchitoches

B.S. (2006) Northwestern State University, Natchitoches
M.S. (2007) Northwestern State University, Natchitoches
Dissertation: "Paths to Leadership of NCAA Division I Female Athletic Directors"
Major Advisor: Dr. Dawn Basinger

DOCTOR OF PHILOSOPHY
College of Education

Richard John Chambers, II, Hudson, WI

B.S. (2012) University of Wisconsin-River Falls, River Falls, WI
Dissertation: "Evaluating Indicators of Job Performance: Distributions and Types of Analyses"
Major Advisor: Dr. Tilman Sheets

Amy Frost Stevenson, Anacoco

B.A. (2002) Louisiana Tech University
M.A. (2004) Louisiana Tech University
Dissertation: "Using Latent Class Cluster Analysis to Identify and Profile Organizational Subclimates: An Exploratory Investigation Using Safety Climate as an Exemplar"
Major Advisor: Dr. Mitzi Desselles

John McCreary Tracy, New Iberia

B.A. (2007) Louisiana State University, Baton Rouge
B.S. (2007) Louisiana State University, Baton Rouge
M.A. (2012) Louisiana Tech University
Dissertation: "The Relationship Between Executive Functioning and Substance Use"
Major Advisor: Dr. Tony Young

DISSERTATION HIGHLIGHTS (FALL/WINTER 2016-CONT'D FROM PG 9)

DOCTOR OF PHILOSOPHY
College of Engineering and Science

Joshua Aaron Adkinson, Sterlington
BS (2011) Louisiana State University, Baton Rouge
MS (2016) Louisiana Tech University
Dissertation: "Generalized Partial Directed Coherence and Centrality Measures in Brain Networks for Epileptogenic Focus Localization"
Major Advisor: Dr. Leonidas Jassemidis (Hooded by Dr. Ioannis Vlachos)

Kevin Scott Holly, Mandeville
BS (2012) Louisiana State University, Baton Rouge
Dissertation: "Anxiolytic Effects of Propranolol and Diphenoxylate on Mice and Automated Stretch-attend Posture Analysis"
Major Advisor: Dr. Teresa Murray

Varun Lingaiah Kopparthy, Ruston
BS (2009) Jawaharlal Nehru Technological University, Hyderabad, India
MS (2011) Louisiana Tech University
Dissertation: "Lab-On-A-Chip Nucleic-Acid Analysis Towards Point-Of-Care Applications"
Major Advisor: Dr. Niel Crews

Stacey Renae McAdams, El Dorado, AR
BS (2012) Louisiana Tech University
MS (2015) Louisiana Tech University
Dissertation: "Embedding Oriented Graphs in Books"
Major Advisor: Dr. Jinko Kanno

Lin Sun, Sanmenxia, Henan, China
BM (2009) Zhengzhou University, Henan, China
Dissertation: "Potential Applications for Halloysite Nanotubes Based Drug Delivery Systems"
Major Advisor: Dr. David Mills

ADDITIONAL GRANT FUNDING FOR EXISTING AWARDS

- Yuri Lvov, *Building an Internationally Competitive Neutron Scattering Research Program in Louisiana,* DOE/BoR*:* $68,250;
- Julie Rutledge, *Bulldog Book Club - Year 4*, Lincoln Health Foundation: $56,431;
- Julie Rutledge, *WISE: together, We Inspire Smart Eating Year 3*, Lincoln Health Foundation: $45,793;
- Niel Crews, *LaSPACE Fellowship - Collin Tranter*, BoR/LSU/LaSIP: $13,000;
- Sumeet Dua, *LBRN Biomedical Data Mining and Biostatistics (BDMB) Subcore,* NIH/LSU: $58,381;
- David Mills, *Anti-Microbial Medical Device Coatings that Reduce Infection and Promote Healing*, NIH/LSU: $8,367.

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