FY 2009 DoD Defense Experimental Program to Stimulate Competitive Research

Winners

Investigator's Name	Institution	State	Brief Description of Research Effort	Awarding Office(s)
Acharya, Sumanta	Louisiana State University	LA	Enhanced Combustion Performance in Propulsion Systems	ONR
Adams, Julie	Vanderbilt University	TN	Complex Mission Coalition Formation	ONR
Chandler, Damon	Oklahoma State University	OK	Enabling Battlefield Situational Awareness through a Cooperative and Intelligent Video Sensor Network	ARO
Davis, Michael	Oklahoma State University	OK	Muscle adaptations permitting fatigue-resistant exercise	ARO
Dziubla, Thomas	University of Kentucky	KY	Development of a Targeted Antioxidant Polymers for the Prevention of Combat Trauma	ONR
Edgar, James	Kansas State University	KS	Field Effect Transistor Research	ONR
Fuchs, Alan	University of Nevada, Reno	NV	Supramolecular Proton Exchange Membranes for Compact Fuel Cells	ARO
Hoffmann, Klaus	Wichita State University	KS	Development of Direct Numerical Simulation for Shock/Turbulent Boundary Layer Interaction with Application to Supersonic/Hypersonic Inlets	AFOSR
Holbrook, Steven	University of Wyoming	WY	Seismic Oceanography: Three-Dimensional Maps of Ocean Temperature and Turbulence	ONR
Joseph, Paul	Clemson University	SC	Manufacturing Science of Improved Molded Optics	ARO
Karami, Ghodrat	North Dakota State University	ND	Brain Injury-Simultaneous Multiscale Modeling with Experimental Validation	ARO
Lakhotia, Arun	University of Louisiana at Lafayette	LA	Obfuscation and Deobfuscation of Intent of Computer Programs	AFOSR
Lewis, Randolph	University of Wyoming	WY	Designing Spider Silk Proteins for Defense Materials Applications	AFOSR
Li, X. Rong	University of New Orleans	LA	Target Detection, Classification, and Tracking	ONR

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Lundblad, Nathan	Bates College	ME	Condensed-matter analog systems with ultracold atoms in novel optical lattices	AFOSR
Mao, Zhiqiang	Tulane University	LA	Study of metal-insulator transitions of perovskie ruthenates for bolometric detection	ARO
McLaughlin, Craig	University of Kansas	KS	Thermosphere Density Variability, Drag Coefficients, and Precision Satellite Orbits	AFOSR
Papoutsakis, Eleftherios	University of Delaware	DE	Engineering Complex Microbial Phenotypes	ONR
Prather, Dennis	University of Delaware	DE	Nanomembrane enabled Integration of Light Sources, Detectors and Optical Signal Processing units	AFOSR
Ramanujam, Jagannathan	Louisiana State University	LA	Compiler-Driven Performance Optimization and Tuning for Multicore Architectures	ARO
Saha, Mrinal	University of Oklahoma	OK	Experimental and Theoretical Studies of Carbon Nanotube Hierarchical Structures in Multifunctional Polymer Composites	AFOSR
Santos, Eugene	Dartmouth College	NH	Modeling the Processes and Factors Underlying Changes in Opinions and Behavior	AFOSR
Schmehl, Russell	Tulane University	LA	Transition Metal Complex/Polymer Systems as Optical Limiting Materials	AFOSR
Schmid, Natialia	West Virginia University	WV	Intelligent Camera Networks	ONR
Schulz, Noel	Kansas State University	KS	Advanced Computational and Sensor Network Methods for MVDC Shipboard Power Systems	ONR
Sun, Haoran	University of South Dakota	SD	Fluorinated Materials for Air-stable and Moisture-resistant Flexible Optoelectronics	ARO
Xue, Ming	University of Oklahoma	OK	Assimilation of Radar and Satellite Data for the Navy Coupled Ocean-Atmosphere Mesoscale Prediction System	ONR
Xue, Yuan	Vanderbilt University	TN	Integration Science for Networked Systems	ARO