

FY2003 Awards for the Defense Experimental Program to Stimulate Competitive Research (DEPSCoR)					
PRINCIPAL INVESTIGATOR	INSTITUTION	DEPARTMENT	STATE	PROPOSAL TITLE	SPONSOR
William D. Armstrong	University of Wyoming	Department of Mechanical Engineering	WY	Active Flutter Suppression Using Cooperative, High Frequency, Dynamic-Resonant Aero-Effectors	AFOSR
Kenneth W. Bayles	University of Idaho	Department of Microbiology, Molecular Biology	ID	Programmed Cell Death in Bacillus Anthracis	ARO
Paul R. Bierman	University of Vermont	Department of Geology	VT	Quantifying Erosion and Sedimentation in Extreme Environments: refining and applying the cosmogenic method for Army-relevant l	ARO
Alan Craig	Montana State University	Department of Physics	MT	Semiconductor Spin-Selective Persistence in Spectroscopic Optical Mem.	AFOSR
Gale L. Craviso	University of Nevada, Reno	Department of Pharmacology/School	NV	Exploring Non-Thermal Radiofrequency Bioeffects for Novel Military Applications	AFOSR
Ronald A. DeVore	University of South Carolina	Department of Mathematics, IMI	SC	Compression of Large Data Sets with Geometry	ONR
Ali Feliachi	University of West Virginia	Department of Computer Science and Electrical Engineering	WV	Intelligent Agents for Reliable Operation of Electric Warship Power Systems	ONR
Donald D. Gray	University of West Virginia	Department of Civil & Environmental Engineering	WV	Electromagnetic Control of High Heat-Flux Spray Impingement Boiling under Microgravity Conditions	AFOSR
Lawrence G. Harshman	University of Nebraska-Lincoln	School of Biological Sciences	NE	Identification of Genes and Proteins that Regulate Stress Resistance	ARO
Verlin B. Hinsz	North Dakota State University	College of Science & Mathematics	ND	Enhancing Coordination and Collaboration in Unmanned Air Vehicle (UAV) Crews	AFOSR
Keith L. Hohn	Kansas State University	Department of Chemical Engineering	KS	In Situ Infrared Studies of Catalytic Partial Oxidation at Millisecond Contact Times	ARO
Lawrence A. Hornak	University of West Virginia	Department of Computer Science and Electrical Engineering.	WV	Towards Fieldable Rapid Bioagent Detection: Advanced Resonant Optical Waveguide and Biolayer Structures for Integrated Biosens	ONR
Dean Hougen	University of Oklahoma	Department of Computer Science	OK	Adaptation and Learning at All Levels in Intelligent Robots Teams for Reconnaissance, Surveillance and Battlefield Assessment	ARO
Yves U. Idzerda	Montana State University	Department of Physics	MT	New Materials and Structures for Spin-Transport Electronic Applications	ONR
Thomas C. Jannett	University of Alabama at Birmingham	Department of Electrical and Computer	AL	Intelligent Control for Future Deployable Autonomous Distributed Sensor Systems	ONR

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Peter A. Jumars	University of Maine	School of Marine Sciences	ME	Vertical and Horizontal Migrations Affect Local and Integrated Water-Column Scattering Strengths	ONR
Ranga Komanduri	Oklahoma State University	School of Mechanical and Aerospace Engineering	OK	Multiscale Modeling and Simulation of Material Processing	AFOSR
Christopher C. Landry	University of Vermont	Department of Chemistry	VT	Detection and Decontamination of Chemical Warfare Agents Using Porous Inorganic Supports	ARO
Christopher M. Lawson	University of Alabama & Birmingham	Department of Physics	AL	Theoretical and Experimental Studies of Excited State Absorbers for Optical Power Limiting	ARO
Randolph V. Lewis	University of Wyoming	Department of Molecular Biology	WY	Designing Spider Silk Genes for Materials Applications	AFOSR
Tim Li	University of Hawaii at Manoa	Department of Meteorology	HI	Toward the Development of Tropical Cyclone Ensemble Forecast and Cyclogenesis Modeling and Forecast for the DoD's Joint Typhoon	ONR
Jingyu Lin	Kansas State University	Department of Physics	KS	III-Nitride Micro-photonics and Electronics Materials and Devices Research	MDA
Vis Madhavan	Wichita State University	Department of Industrial and Manufacturing	KS	Machining as a High Strain Rate Test	ARO
Ramkumar N. Parthasarathy	University of Oklahoma	School of Aerospace and Mechanical Engineering	OK	Drag Reduction Using Surface-Attached Polymer Chains in Nanotubes	ONR
Mauricio Pereira da Cunha	University of Maine	Department of Electrical and Computer	ME	Characterization of the LGX Family of Crystals for Military Electronic Systems Applications	ARO
Anthony P. Reynolds	University of South Carolina	Department of Mechanical Engineering	SC	Understanding the Dynamic Fracture Response of Heterogeneous Materials for Defense Applications	ONR
Lisa G. Stanley	Montana State University	Department of Mathematical Sciences	MT	Sensitivity Analysis for the Optimal Design and Control of Advanced Guidance Systems	AFOSR
Karan S. Surana	University of Kansas	Department of Mechanical Engineering	KS	k-Version of Finite Element Method: A New Mathematical and Computational Framework for BVP and IVP	AFOSR
Terry M. Tritt	Clemson University	Department of Physics and Astronomy	SC	Investigation of the Thermoelectric Properties of Novel Materials for Potential Thermoelectric Power Generation Applications	ONR
Richard A. Wirtz	University of Nevada, Reno	Department of Mechanical Engineering	NV	Structurally Efficient Anisotropic Organized Reticulated Structures for Cooling Sensors and Electronics	MDA
Jeffrey L. Yarger	University of Wyoming	Department of Chemistry	WY	Structural and Mechanical Behavior of Nanocomposites and Amorphous Materials	ARO