

**WINNERS OF THE FY 2019 COMPETITION UNDER THE DEFENSE UNIVERSITY RESEARCH INSTRUMENTATION PROGRAM -- Page 1 of 7**

<b>Principal Investigator</b>	<b>Institution</b>	<b>State</b>	<b>Brief Description of Instrumentation or Research it Supports</b>	<b>Awarding Office</b>
Adnan, Ashfaq	University of Texas at Arlington	TX	Combined Electroencephalography and Electrocardiography System	ONR
Agarwal, Ritesh	University of Pennsylvania	PA	Frequency Tunable Mid-infrared Optoelectronic System for Research in Quantum	ARO
Aggarwal, Ishwar	University of North Carolina at Charlotte	NC	Laser Confocal Microscope for High-Energy Laser Windows	ONR
Anderson, Derek	University of Missouri	MO	High-Throughput Computing and Multi-Sensor Unmanned Aerial Systems	ARO
Atkins, Ella	University of Michigan	MI	OSCAR: Outdoor Scientific Center for Autonomy and Robotics	ARO
Bahl, Gaurav	University of Illinois at Urbana-Champaign	IL	System for Acoustic and Microwave Metamaterial Spectroscopy	ONR
Banerjee, Partha	University of Dayton	OH	Material Microstructure Characterization Instrumentation	ONR
Bathe, Mark	Massachusetts Institute of Technology	MA	Combinatorial DNA Nanoparticle Libraries for Structural Biology and Materials Research	ONR
Bellotti, Enrico	Boston University	MA	Semiconductor Modelling Computational Infrastructure	ARO
Bergbreiter, Sarah	Carnegie Mellon University	PA	Microscale Force Sensing for Fast Motions in Biology and Engineering	ARO
Bishop, Matthew	University of California, Davis	CA	Computers and Networks for Cybersecurity Research	ARO
Boltasseva, Alexandra	Purdue University	IN	Advanced Pulsed Laser Deposition	ONR
Bose, Arpita	Washington University in St. Louis	MO	Fluorescence Microscope for Research in Microbe-Surface Interactions	ARO
Brillson, Leonard	Ohio State University	OH	Ultrahigh Vacuum Electronic Micromanipulator Workstation	AFOSR
Bruno, Oscar	California Institute of Technology	CA	Advanced Mathematical Methods for High-Performance Computational Physics	AFOSR
Cai, Shengqiang	University of California, San Diego	CA	Characterizing, Investigating and Designing Artificial Muscle for Soft Robots	ONR
Candler, Graham	University of Minnesota	MN	High-Performance Computer Cluster for Advanced Simulations of Hypersonic Flows	AFOSR
Chang, Zenghu	University of Central Florida	FL	Single-cycle, Carrier-envelope Phase Locked Lasers	ARO
Chen, Peng	Cornell University	NY	Three-dimensional Super-resolution Imaging of Nanoscale Plasmon-enhanced Photocatalysis	ARO
Christodoulou, Christos	University of New Mexico	NM	Spherical Near-field Antenna Measurement System	AFOSR
Cohen, Seth	University of California, San Diego	CA	Characterization of Unconventional Hybrid Polymer Materials	ARO
Craddock, John	University of Kentucky	KY	Thermal Characterization of Defense Materials	ARO
Daly, Kevin	West Virginia University	WV	Structural and Functional Imaging of Biological Systems	AFOSR
D'Asaro, Eric	University of Washington	WA	Lagrangian Measurement of Oceanic Fronts	ONR
Davami, Keivan	Lamar University	TX	Dynamic Test System with Direct Impact and Split Hopkinson Pressure Bar Modules	ARO
Davies, Matthew	University of North Carolina at Charlotte	NC	Ultra-Precision Freeform Optics Generator for Remote Sensing	AFOSR
Deheyn, Dimitri	University of California, San Diego	CA	Studying Relationships Between Biopolymers and Electromagnetic Radiation	AFOSR
Dlott, Dana	University of Illinois at Urbana-Champaign	IL	High Speed Camera for Plastic-bonded Explosives	ARO

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Doppa, Jana	Washington State University	WA	Heterogeneous Manycore Systems for Big Data Research	ARO
Downie, A	University of Kentucky	KY	Assessment of Synergy Between Factors Protecting Biological Materials from Desiccation	ARO
Doyle, John	Harvard University	MA	Laser Cooling and Trapping of Molecules	AFOSR
Eden, J. Gary	University of Illinois at Urbana-Champaign	IL	Development of Speckle-Free Light Imaging Detection and Ranging Transmitters	AFOSR
Edens, Harald	New Mexico Institute of Mining and Technology	NM	Ultrafast Imaging to Understand Lightning and Spark Physics	AFOSR
Egolfopoulos, Fokion	University of Southern California	CA	Scalar Diagnostics for High-Speed Turbulent Reacting Flows of Fuels	AFOSR
Emamian, Vahid	St. Mary's University	TX	A Platform for Artificial Intelligence and Deep Learning	ARO
Englund, Dirk	Massachusetts Institute of Technology	MA	Simultaneous Annealing and Irradiation Furnace for Optimized Diamond Color Centers	AFOSR
Federici, John	New Jersey Institute of Technology	NJ	Terahertz Instrumentation for Nondestructive Evaluation of Additive Manufacturing	ARO
Feng, Milton	University of Illinois at Urbana-Champaign	IL	Laser and Photodetector Testing	ARO
Fernando, Harindra	University of Notre Dame	IN	W-Band Radar for Cloud and Fog Research	ONR
Fleischer, Jason	Princeton University	NJ	Imaging of Scatter, Speckle, and Turbulence	AFOSR
Fox, Jerome	University of Colorado	CO	Analysis and Design of Tunable, Stimuli-Responsive Biocatalytic Systems	ARO
Gadway, Bryce	University of Illinois at Urbana-Champaign	IL	Painted Potentials for Synthetic Momentum-Space Lattices	AFOSR
Genareau, Kimberly	University of Alabama	AL	Modular High-Voltage System for Plasma Generation and Materials Testing	AFOSR
Ghassemi, Mona	Virginia Polytechnic Institute and State University	VA	Optical and Ultra-High-Frequency Electrical System for Partial Discharge Detection	ONR
Gill, Thomas	University of Texas at El Paso	TX	Laser Diffraction Particle Sizing System	ARO
Gopinath, Juliet	University of Colorado	CO	Fabrication and Characterization of Optical Devices and Systems	ONR
Gorman, Jamie	Georgia Institute of Technology	GA	Real-time Dynamics and Communication Network	ONR
Gorodetsky, Alon	University of California, Irvine	CA	Roll-to-Roll Fabrication of Bioinspired Devices	AFOSR
Graber, Hans	University of Miami	FL	Estimating Fluxes Over The Coastal Ocean	ONR
Gratch, Jonathan	University of Southern California	CA	Psychophysiological, Robotic & Analytical Equipment for Studying Human-Machine Teaming	AFOSR
Gray, Wayne	Rensselaer Polytechnic Institute	NY	Research Eyetrackers for Exploring Individual and Team Performance	ONR
Green, Matthew	Arizona State University	AZ	Enabling Microscopic Analysis of Microstructured Soft Materials	ARO
Guduru, Pradeep	Brown University	RI	Single Stage Gas Gun for High-Speed Planar Impact of Energetic Materials	AFOSR
Gulian, Armen	Chapman University	CA	Advanced Materials Photonic Diagnostics	ONR
Guyot-Sionnest, Philippe	University of Chicago	IL	Focal Plane Array Infrared Imaging with Colloidal Quantum Dots	ARO

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Hale, Melina	University of Chicago	IL	Large Scale Functional Imaging, Neurophysiology and Neuromechanics System	ONR
Hanson, Ronald	Leland Stanford Junior University	CA	Ultraviolet and Infrared Laser Systems for Flow Diagnostics and High-Enthalpy Testing	AFOSR
Harris, Jack	Yale University	CT	Levitation Magnet and Cryostat for New Regimes of Quantum Optomechanics	AFOSR
Hersam, Mark	Northwestern University	IL	Surface Engineered van der Waals Nanoelectronic Heterostructures	ONR
Hirshfield, Leanne	University of Colorado	CO	Wearable Cognitive, Physiological, and Behavioral Sensor Suite	AFOSR
Hodge, Andrea	University of Southern California	CA	Versatile Sputtering Deposition System for Developing Novel Engineered Materials	AFOSR
Hollberg, Leo	Leland Stanford Junior University	CA	Laser-cooled Atomic Clock - Time Measurement System	ONR
Horch, Elliott	Southern Connecticut State University	CT	Imaging High-Altitude Satellites with Next-Generation Detectors	AFOSR
Hu, Yuhang	Georgia Institute of Technology	GA	Configuration Observations of Macromolecules and Polymeric Materials	AFOSR
Hudson, Eric	University of California, Los Angeles	CA	Laser System for Efficient Cold Molecular Ion Production	ARO
Hurley, Ryan	Johns Hopkins University	MD	In-Situ Studies of Contact Mechanics	ARO
Isakson, Marcia	University of Texas at Austin	TX	High Fidelity Laser Profiling of Ocean Sediment	ONR
Ivanisevic, Albena	North Carolina State University	NC	Scanning Probe and Florescence Microscope	ARO
Jarrahi, Mona	University of California, Los Angeles	CA	Laser System for Quantum-Limited Spectrometry through Plasmonic Nanostructures	ONR
Jayan, B. Reeja	Carnegie Mellon University	PA	COMPACT: Characterization Of Materials Processing And Chemical Transformations	ARO
Jiang, Xiaocheng	Tufts University	MA	Integrated Electron-Fluorescence Microscope for Correlative Bio-Imaging	AFOSR
Johnson, Christopher	State University of New York, Stony Brook	NY	Integrated Spectroscopic System	AFOSR
Juliano, Thomas	University of Notre Dame	IN	Data Acquisition System for Large Hypersonic Quiet Tunnel & High-Speed Camera for Flows	AFOSR / ONR
Kacher, Josh	Georgia Institute of Technology	GA	Ultra-High Speed System for Rapid and Intelligent Microstructure Characterization	ONR
Kalman, Joseph	California State University, Long Beach	CA	Solid Propulsion Mix and Characterization for Reseaerch in Propulsion Technologies	ONR
Kaufman, Adam	University of Colorado	CO	Tweezer Arrays and Rydberg Interactions	ARO
Ketterle, Wolfgang	Massachusetts Institute of Technology	MA	Laser Systems for Trapping, Transporting and Shaping Ultracold Dysprosium Atoms	AFOSR
Key, Nicole	Purdue University	IN	Research on Casing Treatments to Improve Stall Margin and Efficiency	ONR
Khajavikhan, Mercedeh	University of Central Florida	FL	Time Resolved Micro-Photo-Luminescence Measurement Station	ONR
Khatri, Shiipa	University of California, Merced	CA	Multiscale Ultrafast Volumetric Imaging (MUVI)	ARO
Kisailus, David	University of California, Riverside	CA	High Speed Nano to Pico-mechanical Testing System for Analyzing Structural Materials	AFOSR

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Kramer-Bottiglio, Rebecca	Yale University	CT	Dynamic Characterization of Thermally Responsive Material Systems	AFOSR
Krauss, Thomas	Virginia Polytechnic Institute and State University	VA	Dynamic Spectrum Environment Radio Frequency Simulation & Extremely High-Frequency Studies	ARO / ONR
Kroemer, Oliver	Carnegie Mellon University	PA	Multi-Armed Robot System for Automated Experimentation	ONR
Kudenov, Michael	North Carolina State University	NC	Direct Correlation Spectrometer and Solar Simulation Testbed for Space Situation Awareness	AFOSR
Lavery, Andone	Woods Hole Oceanographic Institution	MA	In Situ Acoustic Measurements of Bubble Populations In Coastal Fronts	ONR
Lee, Craig	University of Washington	WA	Gliders for Long-Range, Sustained Ocean Research	ONR
Lee, Somin Eunice	University of Michigan	MI	Imaging Nanoscopy In Time Evolution: Longterm Bioimaging	AFOSR
Lees, Jonathan	University of North Carolina at Chapel Hill	NC	test bed for monitoring glacio-volcanic regions	ARO
Leibfarth, Frank	University of North Carolina at Chapel Hill	NC	High Temperature Gel Permeation Chromatography System for Analyzing Semicrystalline Polymers	AFOSR
Leibrandt, David	University of Colorado	CO	Cryogenic ion trap system for precision measurements and quantum control	ARO
Lev, Benjamin	Leland Stanford Junior University	CA	Equipment for Cavity Quantum Electrodynamics Chamber and Pump Laser	AFOSR
Lie, Yu-Chun	Texas Tech University	TX	Reconfigurable Radio Frequency/Millimeter-Wave Power Amplifier Testbed	AFOSR
Lien, Ren-Chieh	University of Washington	WA	Autonomous Profiling Floats for Measuring Oceanic Waves and Turbulence	ONR
Lin, Ying-Tsong	Woods Hole Oceanographic Institution	MA	A Thin Line Towed Hydrophone Array and Autonomous Vehicle Integration	ONR
Lin, Zhiqun	Georgia Institute of Technology	GA	External Quantum Efficiency and Photoluminescence Quantum Yield Measurement System	AFOSR
Linke, Norbert	University of Maryland	MD	Medium-distance Quantum Network	ARO
Liu, Jian	University of Tennessee	TN	Microfocused X-Ray Source for Measurements Under In-Situ Strain	AFOSR
Liu, Jie	Duke University	NC	Continuum Laser System	ARO
Lucht, Robert	Purdue University	IN	Tunable, High-Power Titanium:Sapphire Laser System for Pressure-Temperature Measurements	AFOSR
Maddalena, Luca	University of Texas at Arlington	TX	Femtosecond Two-Photon Absorption Laser-Induced Fluorescence	ONR
Mailler, Roger	University of Tulsa	OK	Confocal Microscope for Neural Reverse Engineering	AFOSR
Majumdar, Arunava	Leland Stanford Junior University	CA	Surface Chemical Imaging Approaching Atomic-Scale Precision	ONR
Mazurowski, John	Pennsylvania State University	PA	Digital Measuring Microscope	ONR
McDaniel, James	Boston University	MA	Three-Dimensional Imaging of Complex Materials and Systems	ONR
McKenzie, Erica	Temple University	PA	Analysis of poly and perfluoroalkyl substances (PFASs)	ARO
Meinert, Kenneth	Pennsylvania State University	PA	Scanning Electron Microscope for Particulate Matter Characterization	ONR
Melodia, Tommaso	Northeastern University	MA	Programmable Radio Platform and Wireless Communication Research	ONR

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Menon, Rajesh	University of Utah	UT	Grayscale Lithography for Multi-Level Phase Optics and Metamaterials	ONR
Miller, James	University of Rhode Island	RI	Seismoacoustic Sensor System for Seabed Characterization	ONR
Miller, Warner	Florida Atlantic University	FL	Optical Bench Realization of General Relativistic Quantum Communication Experiments	AFOSR
Min, Wei	Columbia University	NY	Super-multiplex optical imaging	ARO
Minton, Timothy	Montana State University	MT	Table-Top Shock Tunnel for Studying Thermochemical Nonequilibrium Processes	AFOSR
Mirotnik, Mark	University of Delaware	DE	Electromagnetically Functionalized Structural Composites	ONR
Modiano, Eytan	Massachusetts Institute of Technology	MA	Wireless Networking Testbed	ARO
Montclare, Jin	New York University	NY	Patterned Biomaterials Production and Characterization	ARO
Moon, Tae Seok	Washington University in St. Louis	MO	Automation For Engineering Novel Biosensors, Enzymes, And Genetic Circuits	ONR
Morton, Jade	University of Colorado	CO	Distributed Small Multi-Global Navigation Satellite Systems Arrays for Space Studies	AFOSR
Narayanan, Ram	Pennsylvania State University	PA	Sensor Array for Space Situational Awareness Using Passive Radar	AFOSR
Neumark, Daniel	University of California, Berkeley	CA	Dual-Trap High-Resolution Anion Photoelectron Spectrometer to Probe Reactive Intermediates	AFOSR
Okin, Gregory	University of California, Los Angeles	CA	Field-Deployable (CEFD) Wind Tunnel	ARO
Ouyang, Yuyuan	Clemson University	SC	GPU-Accelerated Mathematical Optimization for Big Data and Computer Modeling	ONR
Ozdemir, Sahin	Pennsylvania State University	PA	Time-Resolved Spectroscopy of Programmable Materials	AFOSR
Parziale, Nicholas	Stevens Institute of Technology	NJ	Solid State Read Step for Simple, High-Speed Krypton Tagging Velocimetry	AFOSR
Pavlidis, Dimitris	Boston University	MA	High-Frequency Microprobe/Scanning Anode Field Emission System for Nanoelectronics	AFOSR
Phillips, Brennan	University of Rhode Island	RI	Deep-Sea Fiber Optic Distributed Temperature Sensing Systems	ONR
Pierson, Harry	University of Arkansas	AK	Robotics Test Bed	ARO
Portillo, Salvador	University of New Mexico	NM	Plasma and Surface Diagnostics	AFOSR
Prabhakar, Pavana	University of Wisconsin	WI	Integrated Ultra-High Temperature Instrumentation for Research on Ceramic Matrix Composites	AFOSR
Prakash, Shaurya	Ohio State University	OH	Chemical Imaging System	ARO
Prather, Dennis	University of Delaware	DE	Terahertz Photonic Device Development	AFOSR
Raghav, Vrishank	Auburn University	AL	Time-resolved Rotating Frame of Rotor Flows	ARO
Rajapakse, Indika	University of Michigan	MI	Live Cell Automated Imaging for Multiway Dynamical Systems	AFOSR
Ramamoorthi, Ravi	University of California, San Diego	CA	Hardware for Light Field and 3D Geometric Learning in Scene Understanding	ONR
Raman, Barani	Washington University in St. Louis	MO	Neural Imaging Systems For Studying Sensory Computation And Behavior	ONR

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Ramani, Vijay	Washington University in St. Louis	MO	Modular Electrochemical Cell Fabrication and Evaluation Platform	ONR
Ramirez-Vick, Jaime	Wright State University	OH	Core Microstructural Characterization with Scanning Electron Microscope & X-Ray Diffraction Instrument	AFOSR
Rangamani, Padmini	University of California, San Diego	CA	Imaging and High Performance Computing	AFOSR
Reed, Robert	Vanderbilt University	TN	Enabling Reliable Sample Preparation of Advanced Electronic Devices	AFOSR
Richardson, Martin	University of Central Florida	FL	Multiwavelength High Energy Laser Beam Projection System	AFOSR
Ridge, Devin	Virginia Polytechnic Institute and State University	VA	RD Waveform Analysis	ARO
Rothmund, Paul	California Institute of Technology	CA	Optical and Electronic Measurement of DNA Origami-Based Detectors	ONR
Roy , Rajarshi	University of Maryland	MD	Optical Network Dynamics and Synchronization with Entangled Photons	ONR
Roy, Kaushik	North Carolina Agricultural and Technical State University	NC	Biometric Testbed	ARO
Savidis, Ioannis	Drexel University	PA	Testbed for Experimental Validation of Security Techniques	ONR
Schneider, Steven	Purdue University	IN	Instrumentation for the Mach-6 Quiet-Flow Ludwig Tube	AFOSR
Sengupta, Kaushik	Princeton University	NJ	Massively Scalable and Programmable mm-Wave and THz Arrays & Systems	ARO / ONR
Sergienko, Alexander	Boston University	MA	Quantum State Engineering and Efficient Quantum Frequency Conversion	AFOSR
Shih, William	Harvard University	MA	Liquid Handling Robot for Combinatorial Assembly of Large DNA Nanostructures	ONR
Shirazi, Mariko	University of Alaska, Fairbanks	AK	Battery Energy Storage System for Power Electronics Models	ONR
Shkel, Andrei	University of California, Irvine	CA	Carbide Femto-Second Laser System for MEMS Gyroscope Research	ONR
Shor, Alexander	University of Hawaii	HI	Overboarding System for Oceanographic Observations	ONR
Shorter, Kenneth	University of Michigan	MI	Integrated Array to Enable New Neurobiological or Physiological Measurements	ONR
Shukla, Anita	Brown University	RI	State-of-the-Art Biological 3D Printer for Fabrication of Multifunctional Materials	ONR
Siamaki, Ali	Fayetteville State University	NC	Inductively Coupled Plasma-Optical Emission Spectrometer	AFOSR
Simon, Jonathan	University of Chicago	IL	Cavity Quantum Electrodynamics Testbed for Fluids of Light	AFOSR
Sirovic, Ana	Texas Agricultural and Military University, Galveston	TX	Autonomous Floating Acoustic Array and Tags for Cue Rate Estimation	ONR
Sitar, Zlatko	North Carolina State University	NC	Multifunctional Hall Characterization System for Doping of Ultra Wide Bandgap Materials	AFOSR
Smith, David	University of California, Santa Cruz	CA	High-Throughput, High-Dynamic-Range Radiation Detector Arrays	AFOSR
Smits, Alexander	Princeton University	NJ	Studies of High Reynolds Number Non-Equilibrium Flows	ONR
Sorensen, Trevor	University of Hawaii	HI	Star Field Simulator for Spacecraft Attitude Determination	AFOSR
Sorger, Volker	George Washington University	DC	Multilayer Heterostructure Prototyping Within Seconds & Integrated Optoelectronics Device Test System	AFOSR / ARO

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Spanier, Jonathan	Drexel University	PA	Electron Diffraction System for Research on Microwave Dielectric and Optoelectronic Materials	AFOSR
Steinberg, Adam	Georgia Institute of Technology	GA	Imaging System for High-Frequency, High-Resolution, Multi-Dimensional Vector/Scalar Measurements	AFOSR
Taggart, David	University of Rhode Island	RI	Deformation and Failure Mechanics of Inflated Drop Stitch Fabric Panels	ONR
Tang, Ming	University of California, Riverside	CA	Mapping Excitons with High Temporal Dynamic Range	AFOSR
Thomson, James	University of Washington	WA	Profiling Winches for Arctic Wave Glider Measurements	ONR
Tibbetts, Katharine	Virginia Commonwealth University	VA	laser desorption-time-of-flight mass spectrometry system	ARO
Tse, Stephen	Rutgers University	NJ	Femtosecond Laser	ARO
Veeraraghavan, Ashok	William Marsh Rice University	TX	Computation and Communication Enabled On-Chip Lenseless Imager	ONR
Waks, Edo	University of Maryland	MD	Ion Trap System for Scalable Multi-Party Interactive Protocols	AFOSR
Walsh, Conor	Harvard University	MA	Smart Robotic Garments for Protection, Communication and Rehabilitation	ONR
Wang, Liping	Arizona State University	AZ	Vacuum Scanning Tunneling and Atomic Force Microscope for Infrared Spectroscopy	AFOSR
Williams, Christopher	Virginia Polytechnic Institute and State University	VA	Laser Powder Bed Fusion System	ONR
Wong, Chee Wei	University of California, Los Angeles	CA	Optical-Access Low-Temperature He-3 System for Nonlinear Dynamics	ONR
Woodall, Jerry	University of California, Davis	CA	Semiautomated Optoelectronics Characterization System	ARO
Xia, Fengnian	Yale University	CT	Wafer-scale Synthesis Using a Piston Cylinder System	AFOSR
Xia, Yan	Leland Stanford Junior University	CA	Mechanical Tester on Miniature Samples for Polymer Materials	ARO
Yin, Huiming	Columbia University	NY	Microstructural Characterization of Energetic Particulate Composites	AFOSR
Young, Andrea	University of California, Santa Barbara	CA	Scanning Magnetothermal Microscope for Single-Site Resolved Studies of Moire Heterostructures	AFOSR
Zabaras, Nicholas	University of Notre Dame	IN	Data-Driven Multiscale-Multiphysics Uncertainty Quantification	AFOSR
Zhao, Yuji	Arizona State University	AZ	III-N Integrated Quantum Photonics Laboratory Instrumentation	ARO
Zheng, Xiaolin	Leland Stanford Junior University	CA	Extending Capabilities in Synthesis and Characterization of Energetic Materials	ONR
Zheng, Yuebing	University of Texas at Austin	TX	Integrated System for Precise Nanoscale Layer-by-Layer Alignment	ONR
Zhou, Wei	Virginia Polytechnic Institute and State University	VA	Multimodal Optical-Electrical Nano-Bio Interface System	AFOSR