

SURF Student Colloquium: Thursday - July 26, 2012  
 Special Session: Green Auditorium, Administration Building (101)

<b>TIME</b>	<b>SPEAKER</b>	<b>UNIVERSITY</b>	<b>TITLE</b>	<b>LAB</b>
3:30P	Shelly Bagchi	George Washington University	Monitoring the Power Grid	PML

SURF Student Colloquium: Wednesday - August 1, 2012  
 Special Session: Lecture Room A, Administration Building (101)

<b>TIME</b>	<b>SPEAKER</b>	<b>UNIVERSITY</b>	<b>TITLE</b>	<b>LAB</b>
2:00P	Jeffrey Jacobs	University of Maryland College Park	Parallel LDPC Error Correction for Quantum Key Distribution on a GPU	ITL

SURF Student Colloquium: Thursday - August 2, 2012  
 Special Session: Room H107, Building 217

<b>TIME</b>	<b>SPEAKER</b>	<b>UNIVERSITY</b>	<b>TITLE</b>	<b>LAB</b>
3:00P	Brian Weinstein	American University	Temperature Monitoring and Control in Laser Cooling Laboratories	PML

SURF Student Colloquium: Tuesday - August 7  
Plenary Session: Green Auditorium, Administration Building (101)

<b>TIME</b>	<b>SPEAKER</b>	<b>UNIVERSITY</b>	<b>TITLE</b>	<b>LAB</b>
9:00A	Willie May, Associate Director for Laboratory Programs	National Institute of Standards & Technology	Welcome	NIST
<b>MODERATOR:</b> <i>Tony L. Bryant, Virginia State University</i> <i>Robert Shepard, Science and Engineering Alliance</i>				
9:15A	Sean Collins	University of Michigan	Chemical Heterogeneity of Wildfire Aerosol Emissions: Implications for Climate Change	MML/NCNR ChemBio
9:45A	Andrea Haines	Hood College	Determining Important Control Parameters of a Genetic Algorithm	ITL
10:15A	Victoria Savikhin	Purdue University	Assembly and Measurement of Quadruplex DNA Nanomaterials	CNST
10:30A	<b>BREAK</b>			
11:00A	Adam Morgan	State University of New York Binghamton	Through Silicon Via (TSV) Reliability Monitoring System	PML
11:30A	Anna D'Alessio	University of Delaware	Are You Being Greenwashed	EL
12:00P	Amanda Huon	University of the Sciences Philadelphia	Characterization of Carbon Nanomaterials	MML/NCNR MatSci
12:30P	<b>LUNCH - SURF Directors and External Visitors (Dining Rooms A &amp; B)</b>			

SURF Student Colloquium: Tuesday - August 7, 2011  
 Parallel Session: Lecture Room A, Administration Building (101)

TIME	SPEAKER	UNIVERSITY	TITLE	LAB
<b>MODERATOR: <i>Tabbatha Dobbins</i></b> <b><i>Rowan University</i></b>				
2:00P	Madeline Cramer	Carnegie Mellon University	Molecular Dynamics Simulations of Aluminum Nanoparticles	MML/NCNR MatSci
2:20P	Jake Steiner	University of Maryland College Park	Phase Equilibria in Co-Al-W Ternary System	MML/NCNR MatSci
2:40P	Newell Moser	University of New Hampshire	Designing and Constructing Steel Cruciform Specimens for a Biaxial Tensile Machine	MML/NCNR MatSci
3:00P	Komal Syed	University of Maryland College Park	Estimation of the Uncertainty in Orientation Distribution Function Using Monte Carlo Technique	MML/NCNR MatSci
3:20P	Desirée Garcia Torres	University of Puerto Rico	Electrocatalytic Hydrogen Oxidation and Evolution at Pt Surfaces in Alkaline Solution	MML/NCNR MatSci
3:40P	Nathan Smith	University of Maryland Baltimore County	Optimization and Modeling of Metal-Oxide-Semiconductor (MOS) Photoelectrochemical Cells	MML/NCNR MatSci
4:00P	Matthew Widstrom	University of Maryland College Park	3D Geometry Photovoltaic Devices	MML/NCNR MatSci
4:20P	Lucas Carneiro	St. Mary's College of Maryland	Effects of Film Processing Parameters on Organic Photovoltaic Device Performance	MML/NCNR MatSci
4:40P	Jacqueline Johnson	University of Delaware	The Effect of Ambient Conditions on Solution-Cast Organic Photovoltaics	MML/NCNR MatSci
5:00P	<b>END OF DAY</b>			

SURF Student Colloquium: Tuesday - August 7, 2012  
 Parallel Session: Lecture Room B, Administration Building (101)

TIME	SPEAKER	UNIVERSITY	TITLE	LAB
<b>MODERATOR:</b> <i>Todd Hoopes, IBBR/University of Maryland</i>				
2:00P	Stephanie Miller	University of Maryland College Park	Expression, Crystallization, and Holographic Analysis of the Protein Rubredoxin	MML/ChemBio
2:20P	Mofiyinfoluwa Obadina	University of Maryland Baltimore County	Measuring Electrochemically-Induced Oxidative Damage in DNA	MML/ChemBio
2:40P	Rachel Meyer	Hood College	Synthesis of Thiolated Tether Compound to Improve the Properties of tBLM Used in the Study of Integral Membrane Proteins	MML/ChemBio
3:00P	Taylor Brown	Gonzaga University Washington State	An Investigation into the Enhancement of Vesicle-Based Blycan Arrays	MML/ChemBio
3:20P	Tamika Ragland	Alabama A&M University	Measurements of Vitamin A in Northern Fur Seals	MML/ChemBio
3:40P	Nicholas Smith	Weber State University	Glycoanalysis Using Universal Proteolysis and Mass Spectrometry: Showing Off the Sweet Side of Proteins	MML/ChemBio
4:00P	Jiemin Wu	University of Maryland College Park	Developing Analytical tools for the Characterization of Protein Biomarkers Using Antibodies and Superparamagnetic Substrates	MML/ChemBio
4:20P	Matthew Boyce	Virginia Wesleyan College	Investigation of Sample Matrix Effects Using Spinning Sampling Chamber Laser Ablation ICPMS	MML/ChemBio
4:40P	Pahoua Xiong	California State University Fresno	Post-Column Counter-Gradients for Better LC/MS Analysis	MML/ChemBio
5:00P	<b>END OF DAY</b>			

SURF Student Colloquium: Tuesday - August 7, 2012  
 Parallel Session: Lecture Room D, Administration Building (101)

TIME	SPEAKER	UNIVERSITY	TITLE	LAB
<b>MODERATOR:</b>				
2:00P	Catherine Baker	DePauw University	Calculating Graph Toughness	ITL
2:20P	Jason Wu	University of California Berkeley	Optimal Broadcast and Spread of Information in a Network with Limited Resources	ITL
2:40P	John Orthwein	Columbia University	Techniques in Signal Processing for Chirped-Pulse Broadband Trace Gas Sensor	ITL
3:00P	Connor MacKenzie	Westminster College	Simplifications and Generalizations of Generating Functions for Classical Orthogonal Polynomials with Definite Integrals	ITL
3:20P	Divya Mouli	Carnegie Mellon University	Hands Off!!:Using Gesture Recognition to Manipulate 3D Visualizations	ITL
3:40P	Zachary Keller	DePauw University	Modeling the Spread of Infection	ITL
4:00P	Brian Clanton	Rochester Institute of Technology	Exploring Real-Time Web-Based 3D Mathematical Function Rendering and Manipulation	ITL
4:20P	Luis Perez Cruz	University of Puerto Rico	Monitoring and Analyzing the Deployment of Resource Public Key Infrastructure (RPKI) within the Internet	ITL
4:40P				
5:00P	<b>END OF DAY</b>			

SURF Student Colloquium: Tuesday - August 7, 2012  
 Parallel Session: Portrait Room, Administration Building (101)

TIME	SPEAKER	UNIVERSITY	TITLE	LAB
<b>MODERATOR:</b> <i>John Woodward, Surface Science Division, PML/NIST</i>				
2:00P	Julian Irwin	Goucher College	Tunnel Junction Measurements of Spin Currents	PML
2:20P	Chase Brignac	Louisiana State University	Quantum Metrology with Nonclassical Light	PML
2:40P	Dylan Heberle	Rochester Institute of Technology	Tunability of Photon Entanglement	PML
3:00P	Zachary Pruett	Appalachian State University	The Brightness of the Moon: Lunar Spectra Irradiance	PML
3:20P	Joseph Whalen	Colorado School of Mines	Lunar Spectral Irradiance: Calibration of the Moon	PML
3:40P	Jonathan Beaumariage	Rochester Institute of Technology	Finding Numerical Solutions of the Fourier Modal Method to Measure Two Dimensional Gratings	PML
4:00P	Tom Mullins	Carnegie Mellon University	Optimizing Photonic Crystals Using Computer Simulation	PML
4:20P	John Ortmann, Jr.	Tulane University	Frequency Stabilization of a Continuous Wave Dye Laser for Use as a Quantum Memory	PML
4:40P				
5:00P	<b>END OF DAY</b>			

SURF Student Colloquium: Tuesday - August 7, 2012  
 Parallel Session: Heritage Room, Administration Building (101)

TIME	SPEAKER	UNIVERSITY	TITLE	LAB
<b>MODERATOR:</b> <i>Albert T. Jones, Systems Integration Division, EL/NIST</i>				
2:00P	Adrian Hamins-Puertolas	University of Maryland College Park	Measuring Inadequate Interoperability in the Manufacturing Industry	EL
2:20P	Brian Presser	State University of New York Binghamton	Benefits and Costs of Energy Efficiency in New Buildings	EL
2:40P	Samantha Engel	Gonzaga University Washington State	Rheological Properties of Sustainable Ternary Binders	EL
3:00P	Arvind Harinder	University of Virginia	Modeling Material Information Flow Through the Product Lifecycle	EL
3:20P	Lina Valivullah	University of Maryland College Park	Manufacturing Specific Process Information Models for Sustainability	EL
3:40P	Megan Watkins	State University of New York Binghamton	Sustainability Analysis of a Die Casting Process	EL
4:00P	Ryan Consylman	Millersville University of Pennsylvania	A Case Study for Sustainability Modeling and Optimization	EL
4:20P	Ryan Dorson	University of Maryland College Park	Reasoning with PrIKL	EL
4:40P	Sean Reidy	University of Pennsylvania	A Picturesque View of Sustainable Manufacturing Standards	EL
5:00P	<b>END OF DAY</b>			

SURF Student Colloquium: Wednesday - August 8, 2012  
 Parallel Session: Lecture Room A, Administration Building (101)

TIME	SPEAKER	UNIVERSITY	TITLE	LAB
<b>MODERATOR:</b> <i>Dan Neumann, NCNR/NIST</i>				
9:00A	Alex Yee	University of Maryland College Park	Dataflow: Web-Based Data Reduction	MML/NCNR MatSci
9:20A	Wayne Treible	Millersville University of Pennsylvania	Implementing and Optimizing Calculations of In-Plane Scattering Off of Thin Films	MML/NCNR MatSci
9:40A	Pavan Bhargava	University of Maryland College Park	Correcting Substrate Warp for X-Ray Reflectometry	MML/NCNR MatSci
10:00A	Lisa Kraye	University of California San Diego	Structural Studies of Multiferroic Thin Films	MML/NCNR MatSci
10:20A	Vikas Bhatia	University of Maryland College Park	Neutron Diffraction Studies of reduced Perovskite Iron Oxides	MML/NCNR MatSci
10:40A	<b>BREAK</b>			
<b>MODERATOR:</b> <i>Dan Neumann, NCNR/NIST</i>				
10:50A	Donald Richardson	University of Maryland Baltimore County	Assignment of Wyckoff Positions for Entries in the NIST Metals Database	MML/NCNR MatSci
11:10A	Max Carlson	Georgia Institute of Technology	Data Visualization for Analysis of the NCNR Cold Source Operation	MML/NCNR MatSci
11:30A	Matthew Cline	Bridgewater College	Structural Studies of Important Industrial Gases Adsorbed in Zeolites	MML/NCNR MatSci
11:50A	Michelle Reece	State University of New York Buffalo	Characterizing the Structural and Rheological Properties of Triblock Copolymer Solutions	MML/NCNR MatSci
12:10P	Elizabeth Ghias	American University	Synthesis of PEG Compounds for CB2 Structure Characterization with Neutron Scattering and Reflectivity Techniques	MML/NCNR MatSci
12:30P	Addison Goodley	University of Maryland College Park	Cloning, Expression, and Purification of TRPML-1	MML/NCNR MatSci
12:50P	<b>LUNCH</b>			



SURF Student Colloquium: Wednesday - August 8, 2012  
 Parallel Session: Lecture Room A, Administration Building (101)

TIME	SPEAKER	UNIVERSITY	TITLE	LAB
<b>MODERATOR:</b> <i>Tabbatha Dobbins, Rowan University</i> <i>Robert Shepard, Science and Engineering Alliance</i>				
2:00P	Benjamin Jones	University of Maryland College Park	Effects of Interfacial Roughness in Small Angle Neutron Scattering from Multiphase Polymers	MML/NCNR MatSci
2:20P	Nicholas Arnold-Medabalimi	University of Maryland College Park	DNA Self-Assembly on 1-D and 2-D Carbon Lattices	MML/NCNR MatSci
2:40P	Pascal Garczynski	State University of New York Albany	Fluidity at Oil-Water Interfaces	MML/NCNR MatSci
3:00P	Anh-Tuan Lee	Prairie View A & M University	Novel Capillary Viscometry Protein Therapeutic Formulation	MML/NCNR MatSci
3:20P	Justin Lewis	Alabama A & M University	Molecular Modeling Tools for Advanced Materials	MML/NCNR MatSci
3:40P	Elizabeth Ashley	University of Maryland College Park	Dimensional Characterization of Si Nanogratings Formed by PS/PMMA Directed Self Assembly	MML/NCNR MatSci
4:00P	Estefania Quiñones Meléndez	University of Puerto Rico	Hydration Dynamics of Thin Nafion Films Studied with Polarization Modulation Infrared Reflection Absorption spectroscopy (PM-IRRAS)	MML/NCNR MatSci
4:20P	Allison Young	University of New Haven	Nanofiltration Membranes and Their Swelling Properties by Use of XR and QCM	MML/NCNR MatSci
4:40P	John White	Southern University	Fabrication, Optimization, and Analysis of PLGA Nanoparticle for Potential Advancing in Stem Cell Therapy	MML/NCNR MatSci
5:00P	<b>END OF DAY</b>			

SURF Student Colloquium: Wednesday - August 8, 2012  
 Parallel Session: Lecture Room B, Administration Building (101)

TIME	SPEAKER	UNIVERSITY	TITLE OF TALK	LAB
<b>MODERATOR:</b>				
2:00P	Ashley Newton	Columbia University	Transfer Efficiency of Explosive and Narcotic Residue from Bytac®	MML/ChemBio
2:20P	Deborah Leman	North Georgia College and State University	Determination of Polymer/Fullerene Bilayer Miscibility	MML/ChemBio
2:40P	Graham Spicer	Carnegie Mellon University	Fabrication of Nanopores in Anodized Aluminum Oxide	MML/ChemBio
3:00P	Danielle Artmayer	Oklahoma State University	Empirical Calibration Curves for Concrete	MML/ChemBio
3:20P	Joshua Cohen	Brown University	A Discussion of the Efficacy of the Coulter Principle for Counting Micron-Scale Particles and Protein Aggregates in Comparison to Other Current Methods	MML/ChemBio
3:40P	Nathaniel Ly	Augsburg College	Uncertainty in Live Cell Fluorescence Intensity Measurements Estimated With a Mean Squared Displacement Analysis	MML/ChemBio
4:00P	Stuart Ness	Arizona State University	Enhancing the NIST Chemistry Web Book	MML/ChemBio
4:20P	Katie Hafner	Montgomery College	Enhancing the Chemistry Web Book with Optimized 3D Structures – Part 2	MML/ChemBio
4:40P	Shir Boger	University of Maryland College Park	Building Consistent Nanomaterial Ontologies in a Federated Environment	MML/ChemBio
5:00P	<b>END OF DAY</b>			

SURF Student Colloquium: Wednesday - August 8, 2012  
 Parallel Session: Lecture Room D, Administration Building (101)

TIME	SPEAKER	UNIVERSITY	TITLE	LAB
<b>MODERATOR:</b> <i>Don Snyder, The College of William and Mary</i>				
9:00A	Kristin Giauque	Stevenson University	A Vision of the Future	ITL
9:20A	Julian Lee	Georgetown University	Faithful to the Original? The Impact of Latent Fingerprint Enhancement	ITL
9:40A	Jacob Siegel	University of Maryland College Park	The Kinect: A Cheap and Accurate Depth Measurement Tool	ITL
10:00A	Stetson Zirkelbach	University of Colorado Boulder	Exploration of Big Data Technologies to Scale Up Cancer Prognosis System	ITL
10:20A	Adam Moore	University of South Alabama	Enabling the Extraction of Publications Metadata	ITL
10:40A	<b>BREAK</b>			

SURF Student Colloquium: Wednesday - August 8, 2012  
 Parallel Session: Lecture Room D, Administration Building (101)

TIME	SPEAKER	UNIVERSITY	TITLE	LAB
<b>MODERATOR:</b>				
10:50A	Angel Rosado	University of Puerto Rico	Testing and Traceability of Entropy Sources for Random Bit Generation	ITL
11:10A	Charles Scott	Hampton University	Diagraph Method in Detecting Rule Faults for Attribute Based Access Control Policies	ITL
11:30A	Michael Smith	Towson University	Windows Phone Malware Detection	ITL
11:50A	Alexander Roca	St. Mary's College of Maryland	Detecting Malware on Smart Phones	ITL
12:10P	Matthew Blum	College of William and Mary	It's a Secret to Nobody: Using a Public source of Randomness for Cryptography and Zero-Knowledge Protocols	ITL
12:30	Edward Kimmel	Millersville University of Pennsylvania	Crypto-Graphics: Visual Applications of the NIST Randomness Beacon	ITL
12:50P	<b>LUNCH</b>			

SURF Student Colloquium: Wednesday - August 8, 2012  
 Parallel Session: Lecture Room D, Administration Building (101)

TIME	SPEAKER	UNIVERSITY	TITLE	LAB
<b>MODERATOR:</b>				
2:00P	Sarice Barkley	St. Olaf College	Testing Shapes and Sizes of the Diamagnetic Lateral Force Calibrator	CNST
2:20P	Brian Janiszewski	State University of New York Albany	Chemical Surface Patterning	CNST
2:40P	Sterling Brooks	Savannah State University	Catalyst Structure Investigated by In-Situ HRTEM Measuring During CNT Growth	CNST
3:00P	Anthony Gianfrancesco	Worcester Polytechnic Institute	Thin Film Deposition of Quantum Dots (Nanoscale Characterization of Photovoltaic Devices)	CNST
3:20P	Jason Guss	State University of New York Binghamton	Spin Current Polarization in Amorphous CoFeB Measured via the Spin-Wave Doppler-Effect	CNST
3:40P	Anton Lintel	University of Nebraska Lincoln	Domain Size Dependence of Successive Alternating Layers of Co and Pd	CNST
4:00P	Stephen Epstein	Virginia Polytechnic Institute and State University	Cavity Optomechanical Sensors for Atomic Force Microscopy	CNST
4:20P	Bryce Thurston	Colorado School of Mines	Electronic Transport Properties of the Metal Organic framework $Cu_3(BTC_2) \cdot TCNQ$	CNST
4:40P				
5:00P	<b>END OF DAY</b>			

SURF Student Colloquium: Wednesday, August 8, 2012  
 Parallel Session: Portrait Room, Administration Building (101)

TIME	SPEAKER	UNIVERSITY	TITLE	LAB
<b>MODERATOR:</b> <i>Daniel Hussey, Radiation and Biomolecular Physics Division, PML/NIST</i>				
9:00A	Joshua Kahn	Rochester Institute of Technology	Neutron Imaging of Chemical Phase Transitions in Alkaline Batteries	PML
9:20A	Elizabeth Scott	Tulane University	Modeling Helium 3 Scintillation with MCNPX	PML
9:40A	Nathan Abrams	Whitman College	The Effects of Helium Upscattering and Neutron Absorption on the Neutron Lifetime	PML
10:00A	Yasamin Abbaszadeh	University of Maryland College Park	Characterization of the Dose-Rate Effect for Alanine Ionizing-Radiation Dosimetry	PML
10:20A	Matthew Tweardy	American University	Creating Thermometers of the Future: Imaging Temperature Gradients Using Ultrasonic Transducers	PML
10:40A	<b>BREAK</b>			
<b>MODERATOR:</b> <i>Kevin Douglass, Radiation and Biomolecular Physics Division, PML/NIST</i>				
10:50A	Alexis Denton	Miami University of Ohio	Validation Measurements for Optical Remote Sensing of Greenhouse Gases	PML
11:10A	Jenna Legatt	Gustavus Adolphus College	Shine On Me	PML
11:30A	Julian Hassinger	State University of New York Stony Brook	Nanoscale Imaging Using Spectral Domain Optical Coherence Tomography	PML
11:50A	Pasquale Raico III	St. Mary's College of Maryland	Using Arbitrary Waveform Controlled Lasers and Cavity Ring-Down Spectroscopy to Determine Greenhouse Gas Concentrations	PML
12:10P	John Villanova	Appalachian State University	Analysis of Toolmark Topographies from Ten Consecutively Manufactured Chisels	PML
12:30P	Lisa Bendall	Brigham Young University	Shape Evaluation of Nanoparticles Using the TSOM Method	PML
12:50P	<b>LUNCH</b>			

SURF Student Colloquium: Wednesday - August 8, 2012  
 Parallel Session: Portrait Room, Administration Building (101)

TIME	SPEAKER	UNIVERSITY	TITLE OF TALK	LAB
<b>MODERATOR:</b> <i>Richard Steiner, Quantum Measurement Division, PML/NIST</i>				
2:00P	Leigh Lydecker IV	State University of New York Albany	Characterization of SAMs on Cobalt and Gold	PML
2:20P	Alyssa Brigeman	Wake Forest University	Exploring Organic Magnetoresistance in Spintronic Devices	PML
2:40P	Shahin Amini	Prairie View A & M University	Effect of Interlayer in Organic Tandem Solar Cell	PML
3:00P	Michael Briggs	State University of New York Albany	Space Charge Limited Current Spectroscopy in Organic Single Crystal Semiconductors	PML
3:20P	Thomas Zirkle	Andrews University	Magnetic Field and Position Probe	PML
3:40P	Maxwell Zhou	Texas A & M University	Controlled Production of Highly Charged Ions in Rydberg States	PML
4:00P	Caroline Litchfield	George Washington University	Calibrating Calibrators	PML
4:20P	Arad Lajevardi-Kosh	Arizona State University	Characterization and Preparation of Actin Surfaces and Tethered Bilayer Members	PML
4:40P	Ryan Lake	State University of New York Binghamton	Investigation of DNA Transport in Nanofluidic Slits	PML
5:00P	<b>END OF DAY</b>			

SURF Student Colloquium: Wednesday - August 8, 2012  
 Parallel Session: Heritage Room, Administration Building (101)

TIME	SPEAKER	UNIVERSITY	TITLE OF TALK	LAB
<b>MODERATOR:</b> <i>Tony L. Bryant, Virginia State University</i>				
9:00A	Andrew Gorbaty	Loyola University Maryland	Web Based Applications for Machine Tools	EL
9:20A	Keith Hebenstreit	State University of New York Binghamton	Measurement Systems for Additive Manufacturing Processes	EL
9:40A	Luke Savage	University of North Carolina Charlotte	Diamond Turning Machine Characterization	EL
10:00A	Mairim Nieves- Nevárez	University of Puerto Rico	Wireless Sensor Networks for Machine Monitoring	EL
10:20A	Minh Trang Nguyen	Whitworth University	Testing the Performance of 6LoWPAN-Based Wireless Sensor Network	EL
10:40A	<b>BREAK</b>			



SURF Student Colloquium: Wednesday - August 8, 2012  
 Parallel Session: Heritage Room, Administration Building (101)

TIME	SPEAKER	UNIVERSITY	TITLE OF TALK	LAB
<b>MODERATOR:</b> <i>Aaron Forster, Materials and Structural Systems Division, EL/NIST</i>				
10:50A	Daniel Stehlik	Arizona State University	Beginning Standardization of Condition Monitoring Tests for Cables in Nuclear Power Plants	EL
11:10A	James Ging	State University of New York Stony Brook	Fate of Carbon Nanotubes in Polymer Nanocomposites Exposed to UV Radiation	EL
11:30A	Jennifer Gil Acevedo	University of Puerto Rico	Durability Study of Polymer Nanocomposites	EL
11:50A	Jonathan Schear	Brown University	Modeling the Temperature of Panels Exposed to the Outdoors	EL
12:10P	Kathryn Connolly	University of Maryland College Park	Durability of Backsheet Polymers Used in Photovoltaic Applications	EL
12:30P	Patrick Gaume	University of Maryland College Park	Effects of Key Environmental Factors on Degradation of Polymeric Films Used in Protective Glazing Systems	EL
12:50P	<b>LUNCH</b>			

SURF Student Colloquium: Wednesday - August 8, 2012  
 Parallel Session: Heritage Room, Administration Building (101)

TIME	SPEAKER	UNIVERSITY	TITLE OF TALK	LAB
<b>MODERATOR:</b> <i>Rick Davis, Fire Research Division, EL/NIST</i> <i>Harrison Skye, Energy and Environment Division, EL/NIST</i>				
2:00P	Andrew Nelson	Worcester Polytechnic Institute	Modeling Upholstered Furniture in Fire Environments with CFAST	EL
2:20P	Barbara Hall	Worcester Polytechnic Institute	CFAST and the Incorporation of Uncertainty	EL
2:40P	Katelyn Keberle	Arizona State University	Environmentally-Friendly Flame Retardant Coating for Polyurethane Foam	EL
3:00P	Nicholas Faenza	University of Maryland College Park	Reduced Flammability of Polyurethane Foam Using a Layer-by-Layer Assembly with Natural Materials	EL
3:20P	Ray Mbonu	Texas Southern University	Fire Proof Foams	EL
3:40P	Shannon Hines	Alabama A & M University	Fire Resistant Foam	EL
4:00P	Sophie Lang	New College of Florida	Bench Scale Measurements of Toxic Effluents in Fire Smoke	EL
4:20P	David Richardson	Brigham Young University	Multi-Split HVAC Unit Testing and Analysis	EL
4:40P	Norman Rivera-Cotty	University of Puerto Rico	Instrumentation of Geothermal Heat Pump Test System	EL
5:00P	<b>END OF DAY</b>			

SURF Student Colloquium: Thursday - August 9, 2012  
 Parallel Session: Lecture Room B, Administration Building (101)

TIME	SPEAKER	UNIVERSITY	TITLE	LAB
<b>MODERATOR:</b> <i>Joonil Seog, University of Maryland College Park</i>				
9:00A	Lance Dockery	Mt. Saint Mary's University	Analysis of CO <sub>2</sub> Loss in Gas Cylinders and Changing Concentrations Over Time in NIST Gas SRMs	MML/ChemBio
9:20A	Matthew Jones	North Georgia College & State University	Measurement of Material Thermal and Chemical Characteristics with the Laser-Driven Thermal Reactor	MML/ChemBio
9:40A	Peter Luu	University of Maryland Baltimore County	Construction and Testing of the Next Generation Ozone Standard Reference Photometer	MML/ChemBio
10:00A	Karthikeya Menta	University of Maryland College Park	Quantification of Human Bone Marrow Stromal Cell Shape Dynamics in collagen Three-Dimensional Scaffolds	MML/NCNR MatSci
10:20A	Jillian Matson	University of South Carolina	Investigating ECM Biomolecule Interactions	MML/NCNR MatSci
10:40A	Brismar Pinto-Pacheco	University of Puerto Rico	The Advantage of Using TiO <sub>2</sub> in Improving the Performance of Dental Resins	MML/NCNR MatSci
10:50A	<b><i>BREAK</i></b>			

SURF Student Colloquium: Thursday - August 9, 2012  
 Parallel Session: Lecture Room B, Administration Building (101)

TIME	SPEAKER	UNIVERSITY	TITLE	LAB
<b>MODERATOR:</b> <i>Joonil Seog, University of Maryland College Park</i>				
11:10A	Richard North III	Texas Southern University	Characterizing the Safety and Efficacy of Fluoride Dental Varnish with Applications for Standards Development and Clinical Relevance	MML/NCNR MatSci
11:30A	Danielle Gorka	University of New Haven	Aging Effects on the Enzymatic Activity of Functionalized Gold Nanoparticles	MML/NCNR MatSci
11:50A	Darren Driscoll	Virginia Wesleyan College	Developing a Library of Selenium Nanoparticles Based on Charge, Size and Stability	MML/NCNR MatSci
12:10P	Luis Correa	University of Maryland College Park	High Resolution Displacement Metrology for Nanomechanical Properties	MML/NCNR MatSci
12:30P	Bernadette Cannon	Worcester Polytechnic Institute	Studying Phase Transformations in Al/Ni Reactive Multilayers Using Nanocalorimetry	MML/NCNR MatSci
12:50P	Maryam Sabeghi	University of Oklahoma	Solidification of Nanoparticles at High Rate	MML/NCNR MatSci
1:10P	Il Kyoon Kim	University of Maryland College Park	Phase Transition Measurement of Lipids by Nanocalorimetry	MML/NCNR MatSci
1:30P	<b><i>PIZZA PARTY!!!</i></b>			

SURF Student Colloquium: Thursday, August 9, 2012  
 Parallel Session: Lecture Room D, Administration Building (101)

TIME	SPEAKER	UNIVERSITY	TITLE	LAB
<b>MODERATOR:</b>				
10:50A	Jeffrey Turner	University of Maryland Baltimore County	Video Interpolation with the FFMPEG VidAT Tool	ITL
11:10A	Luis Rivera Santiago	University of Puerto Rico	Text Lines Segmentation Performance Assessment Tool	ITL
11:30A	Courtney Smith	Hampton University	Video Stream Face Detection	ITL
11:50A	Marissa Sileo	University of Maryland College Park	Biomedical Image Analysis	ITL
12:10P	Lael Rayfield	University of Maryland Baltimore County	Simple Analysis of Biometric Matchers	ITL
12:30P	Mark Villarrubia	University of Maryland College Park	Analyzing Microblog Search Through an Ablation Study of TF-IDF	ITL
12:50P				ITL
1:10P				
1:30P	<b><i>PIZZA PARTY!!!</i></b>			

SURF Student Colloquium: Thursday, August 9, 2012  
 Parallel Session: Portrait Room, Administration Building (101)

TIME	SPEAKER	UNIVERSITY	TITLE	LAB
<b>MODERATOR:</b>				
9:00A	Timothy Kohler	State University of New York Binghamton	Charge-Based Capacitance Measurements and SCM on a Chip	PML
9:20A	Meagan Kelso	University of Texas Dallas	Quick Read Codes Made by Nanoindentation	PML
9:40A	Lei Cao	State University of New York Binghamton	Massively Parallel TDDB Test System	PML
10:00A	Serghei Drozdov	University of Maryland College Park	Characterizing the Impact of a Single Interface Layer Defect in CMOS Devices	PML
10:20A	Joseph Marcano Estévez	University of Puerto Rico	Nano-Injector Based Direct Write Metal Deposition	PML
10:40A				
10:50A				
11:10A				
11:30A				
11:50A				
12:10P				
12:30P				
12:50P				
1:10P				
1:30P	<b>PIZZA PARTY!!!</b>			

SURF Student Colloquium: Thursday - August 9, 2012  
 Parallel Session: Heritage Room, Administration Building (101)

TIME	SPEAKER	UNIVERSITY	TITLE	LAB
<b>MODERATOR:</b> <i>Tony L. Bryant, Virginia State University</i>				
9:00A	Major McNair	Virginia State University	Android Defense Science	EL
9:20A	Matthew Newcomer	University of Maryland Baltimore County	Performance Assessments of Tactical Handheld Android Applications	EL
9:40A	Allison Rose	Loyola University Maryland	Calibrating Laser Range Scanners for Robot Safety	EL
10:00A	Erica Sanker	University of Maryland College Park	An Analytical Finite Element Model of Micro- and Nanoscale Electrostatic Beam Resonators	EL
10:20A	Evan Kesten	State University of New York Binghamton	A Low-Cost 3D Safety System for Robot Applications	EL
10:40A	Lipeng Liang	University of Maryland College Park	Dynamic Update of MySQL Database in Kitting	EL
11:00A	<b>BREAK</b>			

SURF Student Colloquium: Thursday - August 9, 2012  
 Parallel Session: Heritage Room, Administration Building (101)

TIME	SPEAKER	UNIVERSITY	TITLE	LAB
<b>MODERATOR:</b> <i>Erica Kuligowski, Fire Research Division</i>				
11:10A	Scott Hemley	University of Maryland College Park	Computational Fluid Dynamics Simulations for Building Aerodynamics	EL
11:30A	André Rosete	University of Texas Dallas	Ghosts in the House	EL
11:50A	Kelly Webster	Virginia Polytechnic Institute and State University	How to Feed and Water Your Dishwasher	EL
12:10P	Abbas Jaber	Arizona State University	Parsing COLLADA: A Robust Method for Inputting Geometry into FDS	EL
12:30P	Emily Wiess	University of Maryland College Park	Building Evacuation of People with Mobility Impairments	EL
12:50	Kevin Li	University of Maryland College Park	Comparison of FDS Predictions with Gas Velocity Measurements in the Exhaust Duct of a Stationary Source	EL
1:10P	Max Gould	Reed College	Verification of Computational Fluid Dynamics Program for Fire Modeling	EL
1:30P	<b>PIZZA PARTY!!!</b>			