

**SURF Colloquium Plenary Session (Admin
101 Building/Green Auditorium)**

Time	Agenda
9:00A	Welcome
	Session Moderator: TBA
9:15A	CNST <i>Thomas Marsh : Solving the Shortest Path Optimization Problem using a</i>
9:40A	CTL <i>Morgan Warner : Stop Interrupting Me(ssages)</i>
10:05A	EL <i>Lela Bones: Visualizing and Synthesizing Data from Maintenance Logs for Smart Manufacturing Analysis</i>
10:30A	Break
10:45A	ITL <i>Naveen Shankar : Using the Arduino for True Random Number Generation</i>
11:10A	MML <i>Elena Musteata: Synthetic Biology for Living Sensors: Characterizing Fitness Landscapes of Engineered Genetic</i>
11:35A	NCNR <i>Paul Neves: All Tied Up in Knots: Skyrmions in Chemically Substituted Cu₂OSeO₃</i>
12:00P	PML <i>Alex Sredenschek : Silicon Surface Functionalization for Battery</i>
12:25P	Special Programs <i>Alexsandra Corrigan: A Cell-ing point for Standards: Terminology and Analytical Methods for Biotechnology Standards</i>

SURF Colloquium Parallel Session: Tuesday August 7, 2018 (Afternoon)

	Lecture Room A	Lecture Room B	West Square	Heritage Room	Lecture Room D
	MML/NCNR_ChemBio	MML/NCNR_MatSci	ITL	EL	PML_PL
Time	Moderator: Dr.Andre Striegel	Moderator: Dr. Jeanita Pritchett	Moderator: Michaela Iorga	Moderator	Moderator: Daniel Hussey
2:20P	<i>Tiffany Cao</i> :Characterization of electronic cigarette aerosol on hard surfaces	<i>Alexis Brake</i> : Ultrasound for materials research: Developing methods to quantify internal displacements in soft material tissue phantoms	<i>Matthew Kupferschmid</i> : Understanding P@\$\$w0rds – password rule comprehension vs password generation	<i>Timothy Kim</i> : Solar Microgrid Performance and Optimization	Zachary Whiting: Graphite Calorimetry with a Mach-Zehnder Interferometer
2:40P	<i>Zachary Clifford</i> : Physical and Chemical Transformation of Silver Nanomaterial Containing Textiles After Use and Disposal	<i>Faraz Burni</i> : Ageing of Poly(p - phenylene terephthalamide) Fibers Used in Soft-Body Armor	<i>Sophia Abraham</i> : Authentication of RFID Communication with Wireless Identification and Sensing Platform (WISP)	<i>Abhinav Pandey</i> : A Digital-twin of an IEEE 1451 Smart Temperature Sensor for CPS/IoT Research	<i>Rhett Croley</i> : Data Analysis of Alpha-Gamma Neutron Monitor Technique
3:00P	<i>Shakira Gonzalez</i> : Characterization of Fluorescent Dyes for the Assignment of Fluorescence Intensity to Calibration Microspheres for Flow Cytometry	<i>Patrick Ott</i> : Structure-property relationships in multi-functional hierarchical fiber nanocomposites	<i>Xinyu Xiong</i> : Z Model for Next Generation Access Control (NGAC) Mechanism	<i>Alejandra Lopez Morales</i> : Data Collection and Management for Critical Buildings to Support the Investigation of Hurricane Maria’s Effect on Puerto Rico	<i>David Mullins</i> : Neutron Bragg Edge Imaging
3:20P	<i>Brianna Higgins</i> : Design and synthesis of mechano- responsive fluorophores for localized visualization of damage in polymer composites	<i>Sejal Shah</i> : Rheology of shear thickening fluids		<i>Angel Miranda</i> : Infrastructure Support of Critical Buildings	<i>Alexander Todd</i> : Far Field Neutron Interferometry
3:40P	<i>Julianna Koehl</i> : Optimization of Ring Expansion Cationic Polymerization as a Route to Ideal Networks	<i>Hallie Miller</i> : Illuminating the transparency of glass elemental composition	<i>Arsen Klyuev</i> : Using Block Matrices to Provide Erasure Capabilities to Blockchains Without Losing Integrity	<i>Harrison Kraus</i> : Analysis of Garage Door Failures and Subsequent Effects on Residential Building Performance during the May 22, 2011 Tornado in Joplin, MO	<i>Sai Meghasena Chavali</i> : Systematics in the Neutron Lifetime Measurement
4:00P	<i>Claire Sturek</i> : Antimicrobial Properties of Novel Class V Restoratives	<i>Julia Trowbridge</i> : Improving the light extraction efficiency of zinc oxide nanofin LEDs	<i>Richard Williams</i> : Automatic Verification of Cryptographic Algorithms using SAW	<i>Timothy McIntyre</i> : Analysis of Damage Parameters and Degree of Damage Variability in Residential Building Performance from the 2011 Joplin Tornado	<i>Peter Orban</i> : Ionization Chamber Response Dependence on Ambient Environmental Conditions
4:20P	<i>Ha Tran</i> : Identification and Quantification of Allergenic Milk Proteins in Food	<i>Keshav Bhatnagar</i> : Developing Operation Procedures for the Meca500 to Autonomously Swap Powder Samples in Divergent and Parallel Beam Diffractometers (DBD and PBD).	<i>Sydney Pugh</i> : Developing Effective Test Strategies for Cryptographic Algorithm Implementations	<i>Andrew Seamone</i> : Structural Testing of Enhanced Steel Gravity Connections for the Mitigation of Disproportionate Collapse	<i>Francis Walz</i> : An active LCR circuit for cooling highly charged ions captured in an ion trap
4:40P		<i>Michael Hamati</i> : Synthesis and Characterization of Monodisperse Cerium Oxide Nanomaterials	<i>Samantha Halam</i> : Analyzing Cybersecurity in Academia Regarding the Botnet Report		<i>Gabriel Alberts</i> : Predicting Errors: Test Method Development for CT Systems

SURF Colloquium Parallel Session: Wednesday August 8, 2018 (Morning)

	Lecture Room A	Lecture Room B	West Square	Heritage Room	Portrait Room
	MML/NCNR_ChemBio	MML/NCNR_MatSci	ITL	EL	PML_PL
	Moderator: Dr. Ashley Beasley Green	Dr. Guebre Tessema, NSF	Moderator: John Schlueter	Moderator	Moderator: Uwe Arp
9:00A	<i>Jack Blitz</i> : Droplet Digital PCR Assay Development of Clinical Reference Material for Epstein Barr Virus DNA	<i>Samantha Isaac</i> : Monte-Carlo Exploration of Focused Neutron Guide Geometries	<i>Jesse Zhu</i> : Use of lightfield cameras for capturing footwear impression: best practice and comparison	<i>Rushad Antia</i> : localhost:3000/robotmonitor.html – Integrated Robot Monitoring System	<i>Michael Doris</i> : Encoding Arbitrary Phase and Amplitude Modes on Laser Light with A Digital Micro-Mirror Device
9:20A	<i>Sulan Wu</i> : Standardization of HER2 gene copy number variation measurements in liquid biopsy by digital PCR	<i>Hannah Burrall</i> : Optimization of ³ He neutron spin filters for the neutron spin echo spectrometer	<i>Paul Steves</i> : Augmented Reality Systems and Associated Metrics and Analytics	<i>Nickolas Eusman</i> : Railroad grade crossing simulator for use in cybersecurity testbed	<i>Benjamin Eckardt</i> : Increasing Efficiency of Temperature Controllers in the Laboratory
9:40A	<i>Adam Broerman</i> : A Computational Workflow for Annotating LC-MS Metabolomics Data from Biomanufacturing Cell Cultures	<i>Nathaniel Kaneshige</i> : Simulation of prompt gamma emission tomography by Compton scattering and the implementation of a neutron tomography system	<i>Paul Armstrong</i> : Virtual Reality as a tool for Cell Microscopy	<i>Brian Galfond</i> : Measuring and Diagnosing Machine Tool Errors Using an Inertial Measurement Unit and Inductive Proximity Sensors	<i>Jacob Siegel</i> : Constructing a Primary Vacuum Standard using Bitter Electromagnets
10:00A	<i>Candace Young</i> : Development of Metabolomics Quality Control Materials for Precision Medicine and Strategies for Forensic Hair Analysis	<i>Ryan Underwood</i> : Determination of crystallite orientation distribution function (ODF) from neutron diffraction data	<i>Joseph Waysack</i> : Monitoring Super Computer Simulations	<i>Meir Kreitman</i> : Characterization of Single Scan Laser Tracks on Nickel Super Alloy 625 Using Nanoindentation	<i>Dylan Kirsch</i> : Raman Spectroscopy of Tin-based Intermetallic Thin-Film Libraries for Next Generation Rechargeable Battery Anodes
10:20A	<i>Sabrina Martin</i> : Drop-On-Demand Inkjet Printing for Preparation of Oral Drug Delivery Films	<i>Abigail Wilson</i> : Applying Reinforcement Learning to the Determination of Crystal Structures with Neutron Diffraction	<i>James Biggins</i> : Virtual Tours: Experiments in Monoscopic and Stereoscopic Virtual Reality	<i>James Arnold</i> : Creating a Database for Designing Energy Efficient Houses	<i>Stephen Meek</i> : An improved method to measure very low fluid flow rates for diagnostic medical and biotechnology applications
10:40A	Break				
	Moderator: Dr. Christine Bergonzo	Dr. Leonard Spinu, NSF	Moderator: Ryan Evans	Moderator	Moderator: David Allen
11:00A	<i>Kunal Dharmadhikari</i> : Structural Basis of ClpS Specificity Probed by Molecular Dynamics Simulations	<i>Joshua Devorkin</i> : Cellulose under pressure for new biopolymers	<i>Qing-Hai Li</i> : Analysis of Microfluidic Flow Rate Measurements	<i>Marco Capraro</i> : Data Management Strategy	<i>James McLaurin</i> : Investigation of substrate suitability for focused helium ion beam machined nanofluidic structures
11:20A	<i>Elijah Williams</i> : Improving the Measurement Quality of Hydrogen Deuterium Exchange Mass Spectrometry	<i>Zachary Riedel</i> : Capillary μ RheoSANS for High Shear Rate, Low Volume Studies	<i>Felix Perez</i> : Facilitating Development of Alternatives to Monoclonal Antibodies Through Readily accessible Web Application Services	<i>Jonathan Garner</i> : Advanced Sensing Development to Support Robot System Prognostics and Health Management	<i>Eileen Stauffer</i> : Evaluation of FPGA-Based Laser Stabilization
11:40A	<i>Allison Horenberg</i> : Cell Viability in Tissue Engineering Scaffolds	<i>Alexa Cano</i> : Phase Behavior and Morphology of Microemulsions in a Polymer-Surfactant System	<i>Kevin Zong</i> : Software for Single Photon Counter Interfacing and Data Analysis	<i>Peter Mnev</i> : Analyzing Agility of Robot Systems through Simulation	<i>Hunter Wages</i> : Using Magnetic Field Inversion to Produce Current Density and Magnetization Distribution Images
12:00N	<i>William Jones</i> : Assessments and quantification of mineralization in dental pulp microtissues by phase imaging	<i>Caleb Wigham</i> : Crosslinking silica-based nanoporous networks under ambient conditions	<i>Henry Schmale</i> : Benchmarking Numerical Approaches for Solving the Time-Dependent Schrodinger Equation in One Dimension	<i>Esteban Segarra</i> : Integration of Wearable Sensors into Virtual Reality and Augmented Reality Interfaces for Human-Robot Interaction	<i>Galahad Wernsing</i> : <i>Real Time Data Analysis and Phase Correction for Optical 2D Spectroscopy</i>
12:20P	<i>Grace Henry</i> : Purification of Chorismate Mutase from M. tuberculosis for Novel Inhibitor Evaluation	<i>Krista Balto</i> : The Conformation of a Hydrophilic Di-block Copolymer on Silica	<i>John Nolan</i> : Compositional Approaches to Power Flow Problems	<i>Xiang Li</i> : Predictive Modeling of Collaborative Robot Interactions	<i>Wiley Hundertmark</i> : Using Optical Methods to Investigate Productivity and Carbon Fluxes in Urban Forests
12:40P	Lunch				

SURF Colloquium Parallel Session: Wednesday August 8, 2018 (Afternoon)

	Lecture Room A	Lecture Room B	West Square	Heritage Room	Portrait Room
	MML/NCNR_MatSci A	MML/NCNR_MatSci B	ITL	EL	PML-Electrical Eng
	Moderator: Prof. Mohamad Al-Sheikhly	Dr. Engin Serpersu, NSF	Moderator: Derek Juba	Moderator	Moderator: Richard Steiner
1:30P	<i>Rachel Orenstein</i> : Building a resource registry and data repository for High-Throughput (Combinatorial) Experimental materials research	<i>Temiloluwa Okusoluba</i> : Correlating Gramicidin Ion-Channel Formation to Artificial Membrane Dynamics	<i>Varsha Vejalla</i> : Measuring Climate Change using Ice Cores	<i>Frederick Norwood</i> : Measurement and Tuning of Motorized-Dynamic Bending and Calibration Machine to Test Disposable Human-Collaboration-Robotics Safety Artifacts	<i>Laurelia May-Pohlman</i> : An Improved Reference for Spectrograph Calibration at Low-to-Moderate Resolutions
1:50P	<i>Ryan Smith</i> : Predicting the Elastic Properties of Metallic Glasses with Machine Learning	<i>Emily Blick</i> : Exploring the rheological properties of dense lipid vesicle solutions as models for liposomal nanomedicines	<i>Golda-Meir Chiong</i> : Computational Reproducibility	<i>Omar Aboul-Enein</i> : Performance Measurement of a Manipulator-on-a-Cart	<i>Merrik Malin</i> : High Speed Control Circuit for Single Photon Avalanche Detection
2:10P	<i>James Riet</i> : An Evaluation of Polymer Encapsulation as a Means of Minimizing the Degradation of TNT for Explosive Trace Detectors	<i>Carrie Stemple</i> : Characterizing Adjuvant-Protein Interactions During Freeze-Thaw Cycles	<i>David Miller</i> : Stochastic Modeling of Round-off Errors in Scientific Computing	<i>Katrina Carlin</i> : Accelerated Weathering of Graphene-Polymer Nanocomposites	<i>Jeffrey Borres</i> : Robotics mass exchange for advanced metrology
2:30P	<i>MaKayla Turner</i> : Interaction of Water with Titanium Oxide Surfaces: A Theoretical Study	<i>Gregory Suczewski</i> : Incorporation of the Beta Approximation in SASView	<i>Alejandro Vega</i> : The HTGS Generator: A Tool for Generating Code for Multi-core systems	<i>Samuel de Oliveira</i> : Degradation of Field-Exposed Photovoltaic Backsheets	<i>Vaishnavi Murthy</i> : Environmental Monitoring and Control for Metrological Applications
2:50P	<i>Steven Hall</i> : Charge Expanded Ensemble for Efficient Sampling of Ionic Systems		<i>Aidan Malanowski</i> : Combining syntactic parsing and vector semantics for keyphrase extraction for the root- and rule-based method	<i>Joshua Hubbard</i> : Essential Work of Fracture and Digital Image Correlation Analysis of Crack Propagation in PET after Accelerated Weathering	Sumaiyah Sarwat: Watt-Hour Meter Testing
3:10P	Break				
	CNST	MML/NCNR_MatSci	ITL	EL	PML-Electrical Eng
	Moderator: <i>Liya Yu</i>	Moderator: Dr. Charles Ying	Moderator: Lotfi Benmohamed	Moderator	Moderator: Maritoni Litorja
3:20P	<i>Emma Rogers</i> : The Role of Directional Shear Flow in the Inflammatory Response of Endothelial Cells	<i>Katie Behnert</i> : Physical Components of Secondary Pump Condition-based Monitoring System	<i>Nicholas Nachega</i> : A Test Transport Layer Security (TLS) Server for the DNSSEC Authentication Chain Extension	<i>Trinny Lai</i> : Analysis of Automotive Paints under Weathering Conditions	Gabriela Arp: Spectral Analysis of Glycated Hemoglobin
3:40P	<i>Shannon Jin</i> : Study of DNA Origami Under Shear Conditions	<i>Abdullah Weiss</i> : Digitization of a Secondary Pump Condition-based Monitoring System	<i>Surafel Hailu</i> : NDN-based IoT prototype deployment by using the ESP32 and Raspberry Pi platforms	<i>Christopher Littrell</i> : Analysis of the Degradation of Polymeric Components Used in Photovoltaic (PV) Systems	<i>Alana Dee</i> : Comparison of Current Detection Methods in the 3rd Generation Dual Source Bridge for DC Resistance Measurements
4:00P	<i>Holland Rhodd-Lee</i> : A New Approach to Measuring Neuronal Differentiation in P19 Embryonal Carcinoma Stem Cells	<i>Omar Cavazos</i> : NBSR Thermodynamic Performance Analysis		<i>Vanda Luu</i> : Key Parameters Effecting Polyester Weathering	<i>Kevin Ho</i> : Development of Microgrid Simulation System for Hardware-in-the-Loop Study of Power Grid Monitoring and Control
4:20P		<i>Kirill Stakhovsky</i> : Operating a Virtual Nuclear Reactor using HoloLens Technology		<i>Christopher Carangelo</i> : Development of Cement 3D Printing Test Artifact	<i>Isabel Damazo</i> : Developing a Method for Measuring Intracellular Calcium Concentrations
4:40P		<i>Aubrie Weyhmiller</i> : Online Platform for Radiological Computations		<i>Pablo Dean</i> : Mineralogical Phase Analysis of Portland Cement by X-ray Diffraction and Scanning Electron Microscopy	<i>Mathew Fu</i> : A Virtual Kelvin Probe Microscope
5:00P	End				

SURF Colloquium Parallel Session: Thursday August 9, 2018 (Morning)

	Lecture Room A	Lecture Room B	West Square	Heritage Room	Portrait Room
	CNST	MML/NCNR_MatSci	ITL	EL	PML-Electrical Eng
	Moderator: Liya Yu	Moderator: Dr. Jonathan Seppala	Moderator	Moderator	Moderator:
9:00A	<i>Erik Isele</i> : All-dielectric Terahertz Metasurfaces: Fabrication and Characterization	<i>Rachel Devers</i> : The development of an electron microscopy dossier		<i>Ann Collins</i> : Community Resilience	
9:20A	<i>Devin Jessup</i> : Simulating Magnetic Skyrmion-Skyrmion Interactions	<i>Simin Manasiya</i> : Polyelectrolyte stiffness in different salt concentrations and salt types		<i>Michael Bichnevicius</i> :Evaluation of a CO2 Ground-Source Air Conditioner	
9:40A	<i>Hengming Li</i> : Process Development for Area-Selective Atomic Layer Deposition using a Novel Photoresist	<i>Ethan Finlay</i> : Exploring Clinically Relevant Approaches to Reduce Polymerization Stress of Dental Composites		<i>John Walsh</i> : Measuring Performance of an Airflow-Optimized Condensing Unit	
10:00A	<i>Stephen Tovcimak Jr.</i> :Fabrication and Characterization of the Surface and Interfacial Effects on the Directed Self-Assembly of Block Copolymers (BCPs)	<i>Klara Keim</i> : Development of Microfluidic Platforms Recapitulating Oral Microvasculature		<i>Justin Sorra</i> : Laboratory Validation of HVAC-Cx Building Commissioning Software	
10:20A				<i>Jennifer Bergeson</i> : Powering the Internet of Things: Harvesting Ambient Energy with Photovoltaics	
10:40A	Break				
	MML/NCNR MatSci A	MML/NCNR_MatSci B	CTL	EL	Special Programs
	Moderator: Dr. Brandi Toliver	Moderator: Dr. Wyatt Vreeland	Moderator: David Griffith	Moderator	Moderator:
11:00A	<i>Sally Jiao</i> : Determining Protein and Polymer Stability through Thermodynamic Extrapolation and Active Learning	<i>Eric Anderson</i> : ROMP Bottle Brush Polymer Structure Characterization via NMR and Computational Methods	<i>Hiwot Gezahegn</i> : Analysis and Validation of Mission-Critical Push-To-Talk (MCPTT)	<i>Patrick Feeney</i> : Automated Translation of MATLAB Programs to Python to Increase Accessibility and Cross-Platform Compatibility of Open Source Software	<i>Candice Ionescu</i> : China's Changing Standards Infrastructure: A New Approach to the Global Stage
11:20A	<i>Kamryn Kant</i> : Computing Thermodynamic Properties of Fluids Confined in Nanoporous Materials with High-throughput Molecular Simulations	<i>Viviana Rodriguez Cardenas</i> : Method Development and Depth-Profiling Degradation Measurements of Beach Plastics	<i>Steven Fan</i> : Video Streaming Models	<i>Luis Serrano</i> : Validation of Fire Dynamics Simulator	<i>Angel Jarel Resto Garcia and Yinaris Guzman Cruz</i> : Advanced Manufacturing & Development and growth of technology-based businesses in Puerto Rico
11:40A	<i>Julie Yagodich</i> : Encoding Gas Adsorption Isotherms for Standard Reference Data and Use	<i>David Yoon</i> : Measuring Viscosity Through a Microliter Capillary Rheometer	<i>Zachary Luckabaugh (SHIP)</i> : A Graphical User Interface for Public Safety Communications Simulations	<i>Jacob True Furrh</i> : Hurricane Maria: Reconstructing Flood Hazards through Emergency Messaging	Zachary Taylor: Technology Transfer, Invention Disclosures, and Supporting the MBDA Mission
12:00N	<i>Shannon Bernier</i> : Thermochemical analysis of SRM fuel blends using the laser-driven thermal reactor	<i>Jeremy Filteau</i> : Mechanism behind rapid protein aggregation by novel azide-assisted chemistry		<i>William Saar</i> : Single and Double Fence Flame Spread in the Wildland Urban Interface	
12:20P	<i>Nicholas Strogen</i> : The Effects of Chlorine Exposure on the Performance and Morphology of Polyamide Membranes	<i>Alison Kriz</i> : High-Aspect Ratio Sulfur-MoS ₂ -Carbon Heterostructure Electrode Materials for High-Performance Li-S Batteries: Design and Multiscale Characterization by Advanced Focused Ion and Electron Beam Techniques		<i>Gregory Fiola</i> : Calorimetry Reflexes: Characterizing Response Time of Fire Measurements	
12:40P	Lunch				

SURF Colloquium Parallel Session: Thursday August 9, 2018 (Afternoon)

	Lecture Room A	Lecture Room B	Library	Heritage Room	Portrait Room
		MML/NCNR_MatSci	Various OU's	EL	
		Moderator: Dr. Rebecca Zangmeister	Moderator:	Moderator	
1:30P		<i>Ryan Zambrotta</i> : Atomistic Simulations of the Glass Transition in Small-Molecular Organic Glass Formers	<i>Elijah Peake (ITL)</i> : Visualization Software to Analyze Password Policies	<i>Angelo Calvo</i> : Case studies for model based requirement generation using the VVUQ pattern	
1:50P		<i>Eli Fastow</i> : Annealing Temperature and Underlayer Effects on Perpendicular Magnetic Anisotropy Energy of Co ₂₀ Fe ₆₀ B ₂₀ /MgO	<i>Kevin Boby (ITL)</i> : Automated Segmentation and Classification of Concrete Images	<i>Ryan Fisher</i> : Testing of the MTConnect - OPC-UA Companion Specification	
2:10P		<i>Daniel Ng</i> : Optimizing Additively Manufactured Inconel 625 for Reliable Performance	<i>Luke Bezn (ITL)</i> : Launch and Demonstration of the NIST Homogeneity Assessor	<i>Cesar Tamayo Claro</i> : Incorporating Unit Manufacturing Process Models into Life Cycle Assessment Workflows	
2:30P		<i>Charlie Nitschelm</i> : Mechanical Measurements of Inconel 625 for Dynamic Forming Simulations		<i>Alexander Lewis</i> : Ontology Engineering for Interoperable Manufacturing Process Information	
2:50P		<i>Eli Janzen</i> : Calphad Assessments of the Co-Re-Ta and Mo-Ti Systems and Practical Application to the Optimization of hBN Crystal Growth		<i>Michael Roa</i> : Linking As-Planned and As-Executed Manufacturing Data in Near-Real Time	
3:10P	Break				
		MML/NCNR_MatSci			
	Moderator:	Moderator: Dr. Anthony Kotula	Moderator:	Moderator	
3:20P		<i>Kevin McCright</i> : Uncertainty Quantification and Propagation in Carbon Steel Machining		<i>Xinran Sun</i> : Mass Customization Activity Modeling and Standards Landscape	
3:40P		<i>Leah Borgsmiller</i> : Impedance Photocurrent Device Analysis of Organic Photovoltaics		<i>Simin Li</i> : Additive Manufacturing (AM) Bench Data Processing and Integration for the NISTAM Materials Database	
4:00P		<i>Emily Roe</i> : Blade-coating as a scalable route to metal oxide field-effect transistor fabrication		<i>William Brannon</i> : Development of Automated Data Acquisition of Hydration Reaction in Microstructure	
4:20P		<i>Galen Vincent</i> : Process Optimization of Blade-Coated Polymer Blend Thin Film Transistors		<i>Alexander Brassel</i> : Demystifying the performance bottleneck in Rich UI Web-based Applications	
4:40P		<i>Jordan Winetroun</i> : Predicting Phase Behavior in Organic Photovoltaic Devices			
5:00P	End				