



SURF PRESENTATION SCHEDULE

Wednesday, July 30th, 2014 | NIST Boulder | Building 1, Rm. 1103

10:00 – 10:20 | Santiago Bukovsky | Thomas Bruno
Applied Chemicals and Materials Division
Application of Field Portable PLOT-Cryoadsorption Headspace Sampling Apparatus for Detection of Diesel Fuel in Soil

10:20 – 10:40 | Nikolai Hesterberg | Bijunath Patla
Time and Frequency Division
Improving GPS Accuracy with Doppler Aided Navigation

10:40 – 11:00 | Break | Coffee & snacks | Building 1 Lobby

11:00 – 11:20 | Samantha Rubeck | Elizabeth Donley
Time and Frequency Division
Development of Compact Atomic Clocks Based on Laser-Cooled Atoms

11:20 – 11:40 | Spencer Egan | James Booth
Electromagnetics Division
Broadband Permittivity of Solutions in Microfluidic Chambers

11:40 – 12:00 | Oliver Zhao | Nick Green and Scott Papp
Time and Frequency Division
Graphene Beyond the Microscale: Synthesis and Transport

12:00 – 1:00 | Lunch & SHIP Poster viewing | Building 1 Lobby

1:00 – 1:20 | Megan Kelleher | Lora Nugent-Glandorf
Time and Frequency Division
Characterizing a Magneto-Optical Trap (MOT)

1:20 – 1:40 | Audrey Tolbert | Jason Widegren and Thomas Bruno
Thermophysical Properties Division
Vapor Pressure Determination of Methyl Oleate by Gas Saturation

1:40 – 2:00 | Tanviben Patel | Lauren Greenlee
Applied Chemicals and Materials Division
Fabrication and Functionalization of a Novel Graphene-Based QCM Sensor

2:00 – 3:00 | SHIP Poster Symposium | Building 1 Lobby

Will Chambers, William Cordell, Katie Estoque, Akira Kyle, Jason Perrin, Emma Schwartz, Mason Spong, Michael Voecks, Haley Weinstein, Hope Weinstein, Casey Zhang & Michelle Anderson

3:00 – 3:20 | Sichun Ai | Paul Hale
Quantum Electronics and Photonics Division
High-Speed Measurements

3:20 – 3:40 | Tegan Tingley | J. Hunter Cuchiaro, Indira Sriram, Kavita Jeerage, Andrew Weidner, and Lauren Greenlee
Applied Chemicals and Materials Division
Aqueous Nanoparticle Synthesis and Stabilization for Catalysis Applications in Methanol Fuel Cells

3:40 – 4:00 | Hunter Cuchiaro | Tegan Tingley, Indira Sriram, Lauren Greenlee, Kavita Jeerage, and Drew Weidner
Applied Chemicals and Materials Division
Aqueous Synthesis and Stabilization of Catalytically Active Platinum Nanoparticles for Electrochemical Applications

10:00 – 10:20 | Emily Holz | Gary Zabow and John Moreland
Electromagnetics Division
Colloidal Lithography for The Micro-Fabrication of Multispectral MRI Contrast Agents

10:20 – 10:40 | Isaac Shelby | Gabe Ycas and Scott Diddams
Time and Frequency Division
Locking a Frequency Comb to a Fabry-Perot Cavity With a Feedback Circuit

10:40 – 11:00 | Break | Coffee & snacks | Building 1 Lobby

11:00 – 11:20 | Hannah Erdevig | Stephen Russek
Electromagnetics Division
Developing Reconstruction, Correction, and Analysis Tools to Improve The Accuracy and Reproducibility of Quantitative Magnetic Resonance Imaging Data

11:20 – 11:40 | Ryan Macy | Charles Burroughs, Paul Dresselhaus, Samuel Benz, and Robert Schwall
Applied Chemicals and Materials Division
Residual Stresses in Friction Stir Welds: The Contour Method

11:40 – 12:00 | Kathryn Ledbetter | Marco Schioppo and Chris Oates
Time and Frequency Division
Atomic Clock Laser Stabilization

12:00 – 1:00 | Lunch & SHIP Poster Viewing | Building 1 Lobby

1:00 – 1:20 | Andrew Weidner | Lauren Greenlee , Indira Sriram, Larry Robins, Hunter Cuchiario, and Tegan Tingley
Applied Chemicals and Materials Division
Optimizing Aqueous Ni and Pt Nanoparticle Synthesis and Investigating Their Catalytic Properties [...]

1:20 – 1:40 | Ben Derby | Mark Keller and Will Gannett
Electromagnetics Division
Damage-Free Sputtering of NEFI Films onto CVD Grown Graphene

1:40 – 2:00 | Gary Bruening | John Moreland and Yoshihiro Nakashima
Electromagnetics Division
Microfluidic AC Susceptometer for Magnetic Nanoparticle Solutions

2:00 – 2:20 | Miranda Ngan | Lauren Greenlee
Applied Chemicals and Materials Division
Iron Nanoparticle Embedded Polyethersulfone Membranes for Water Filtration

2:20 – 2:40 | Break | Coffee & snacks | Building 1 Lobby

2:40 – 3:00 | Edward Scott | Jason Coder, Michael Francis, and Ron Wittmann
Electromagnetics Division
Updating and Maintaining Antenna Characterization Software

3:00 – 3:20 | Nadav Kravitz | Scott Glancy
Applied and Computational Mathematics Division
Developing and Evaluating Algorithms for Gaussian State Reconstruction

3:20 – 3:40 | Nikolaus Luhrs | Marty Stevens, Rob Horansky, and Sae Woo Nam
Quantum Electronics and Photonics Division
Characterization of Nonlinearities in Superconducting Nanowire Single-Photon Detectors

3:40 – 4:00 | Matthew Childers | Paul Williams
Quantum Electronics and Photonics Division
Laser-Induced Cavitation for Mussel Mitigation