Program

Sunday, July 10, 2016

4:00 pm to 6:30 pm  Check In and Registration at Hilton Garden Inn
6:30 pm to 8:30 pm  Welcome Reception at Hilton Garden Inn

Monday, July 11, 2016

8:00 am  Check In and Registration at Wang Center
8:50 am  Opening Remarks
Ben Ocko, Brookhaven National Laboratory, Doon Gibbs, Brookhaven National Laboratory, Richard Reeder, Stony Brook University

Session I
Andrei Fluerasu, Brookhaven National Laboratory (Session Chair)

9:10 am  “Some Recent Developments in the Analysis of Grazing Incidence and Coherent Scattering from Surfaces” – Invited (I-1)
Sunil Sinha, University of California at San Diego

9:40 am  “Strain Development of Pt Nanocrystal during Catalytic Process by Coherent X-ray Diffraction Imaging” – Contributed (C-1)
Hyunjung Kim, Sogang University

10:00 am  “Co-GISAXS as a New Tool to Investigate Surface Growth Dynamics” – Invited (I-2)
Karl Ludwig, Boston University

10:30 am  Coffee Break (provided)
Tad Koga, Stony Brook University (Session Chair)

11:00 am  “Structural X-ray Studies of Nanostructures using X-ray Nanobeams” – Invited (I-3)
Marie-Ingrid Richard, Marseille University

11:30 am  “Observation of Heterodyne and Homodyne Mixing in X-ray Photon Correlation Spectroscopy during Thin Film Deposition” – Contributed (C-2)
Randall Headrick, University of Vermont

11:50 am  “Enhancement of Charge Ordering by Dynamic Electron-Phonon Interaction. A Pump-Probe Study at LCLS” – Contributed (C-3)
Andrej Singer, University of California at San Diego

12:10 pm  “Materials Imaging and Dynamics Station at the European X-Ray Free-Electron Laser Facility” – Invited (I-4)
Anders Madsen, European XFEL
12:40 pm  Lunch (provided*)

1:40 pm  Session II – Introductory Remarks  
Donald Walko, Argonne National Laboratory (Session Chair)

1:50 pm  “Self-Assembly and Control of Periodic Nano-Domains in Ferroelastic Thin Films” – Invited (I-5)  
Beatriz Noheda, University of Groningen

2:20 pm  “Templated Functionalization of Epitaxial Graphene” – Contributed (C-4)  
Michael Bedzyk, Northwestern University

2:40 pm  “In-situ X-ray Diffraction Studies during GaAs MBE Nanowire Growth” - Contributed (C-5)  
Ullrich Pietsch, University of Siegen

3:00 pm  “Scattering Approaches for Characterizing Octahedral Rotations and their Physical Effects in Oxide Heterostructures” – Invited (I-6)  
Steve May, Drexel University

3:30 pm  Poster Session #1 and Coffee Break (provided)  
Matt Dawber, Stony Brook University (Session Chair)

5:30 pm  “Insight into Spintronics from Neutrons and X-rays” – Invited (I-7)  
Yaohua Liu, Oak Ridge National Laboratory

6:00 pm  “In Situ Studies of GaN Vapor Phase Epitaxy on Various Surface Orientations” – Contributed(C-6)  
G. Brian Stephenson, Argonne National Laboratory

6:20 pm  “Alkali Antimonides: from Photocathodes to Solar Cells” – Contributed (C-7)  
John Smedley, Brookhaven National Laboratory

7:15 pm  Dinner at the Hilton Garden Inn (provided*)

8:00 pm  Wang Center closes for the evening

Tuesday, July 12, 2016

8:00 am  Check In and Registration at Wang Center

8:50 am  Session III – Introductory Remarks  
Milan Sanyal, Saha Institute of Nuclear Physics (Session Chair)

9:00 am  “X-ray Waveguide Optics and Imaging at the Nanoscale” – Invited (I-8)  
Tim Salditt, Georg-August-Universität Göttingen

9:30 am  “Unlocking the Power of 2D Detectors in Surface X-ray Diffraction: Data Reduction and Visualization” – Contributed (C-8)  
Jakub Drnec, European Synchrotron Radiation Facility
9:50 am  “Quantum Optics with X-rays using Thin-Film Cavities” – Invited (I-9)
Ralf Roehlsberger, Deutsches Elektronen-Synchrotron

10:20 am  Coffee Break (provided)
Claudio Mazzoli, Brookhaven National Laboratory (Session Chair)

10:50 am  “Dynamic Imaging of Nanostructures using Femtosecond X-ray Laser Pulses” – Invited (I-10)
Changyong Song, Pohang University of Science and Technology

11:20 am  “BornAgain: Simulation and Fitting Framework for Scattering Experiments at Grazing Incidence and Reflectometry” – Contributed (C-9)
Gennady Pospelov, Forschungszentrum Juelich GmbH

11:40 am  “Probing Dynamic Layer Rearrangement during the Growth of Ruddlesden-Popper Series Thin Films through Surface X-ray Scattering” – Contributed (C-10)
June Hyuk Lee, Korea Atomic Energy Research Institute

12:00 pm  “Reaching High-Temperature Magnetism in Intrinsic Topological Insulator - Ferromagnetic Insulator Heterostructures” – Contributed (C-11)
Valeria Lauter, Oak Ridge National Laboratory

12:20 pm  Lunch (provided*) and International Meeting to decide the location of SXNS15

1:30 pm  Session IV – Introductory Remarks
Mark Schlossman, University of Illinois at Chicago (Session Chair)

1:40 pm  “Reduction in Tension and Stiffening of Lipid Membranes in an Electric Field Revealed by X-Ray Scattering” – Invited (I-11)
Jean Daillant, Synchrotron SOLEIL

2:10 pm  “Biomimetic Model Membranes for Investigation of Membrane Transport Processes with Reflectometry” – Contributed (C-12)
Irena Kiesel, Institut Laue-Langevin

2:30 pm  “Different Effects of Hydrophilic and Hydrophobic Silica Nanoparticles on the Dynamics of Phospholipid Films” – Contributed (C-13)
Luigi Cristofolini, University of Parma

2:50 pm  “Aggregation States of a Highly Bio-inert Polymer Blend at Water Interface by Neutron Reflectivity” – Invited (I-12)
Keiji Tanaka, Kyushu University

3:20 pm  Poster Session #2, Group Photo and Coffee Break (provided)
John Ankner, Oak Ridge National Laboratory (Session Chair)

5:20 pm  “Combining Neutron or X-ray Reflectivity with Hydrogen-Deuterium Exchange Mass Spectrometry to Resolve Conformations of Membrane Associated Proteins” – Invited (I-13)
Michael Kent, Sandia National Laboratories
5:50 pm  “Probing the Structure and Antibiotic Susceptibility of Yeast Membranes using Neutrons - Effect of Lipid Composition on the Mechanism of Amphotericin B” – Invited (I-14)
Hanna Wacklin, European Spallation Source ERIC

6:20 pm  “Two-Dimensional Assembly of Gold Nanoparticles at Vapor/Liquid Interfaces” – Contributed (C-14) Wenjie Wang, Ames Laboratory

7:15 pm  Dinner at the Hilton Garden Inn (provided*)

8:00 pm  Wang Center closes for the evening

**Wednesday, July 13, 2016**

8:00 am  Check In and Registration at Wang Center

8:50 am  **Session V – Introductory Remarks**
Sushil Satija, National Institute of Standards and Technology (Session Chair)

9:00 am  “From Liquid Crystals to Liquid Metals: The Birth and Maturation of Liquid Surface Scattering” – Special (S-1)
Peter Pershan, Harvard University

9:30 am  “Ionic Liquids at Interfaces” – Contributed (C-15)
Philippe Fontaine, Synchrotron SOLEIL

9:50 am  “Alkyl Chain Length Dependence of the Interfacial Structure of Ionic Liquids” – Invited (I-15)
Moshe Deutsch, Bar-Ilan University

10:20 am  Coffee Break (provided)
Paul Fenter, Argonne National Laboratory (Session Chair)

10:50 am  “The Original NSLS CTR Beamline: X16A” – Special (S-2)
Ian K. Robinson, Brookhaven National Laboratory/London Center for Nanotechnology

11:20 am  “Temperature- and Potential-Dependent Structure of the Mercury-Electrolyte Interface” – Contributed (C-16)
Bridget Murphy, University of Kiel

11:40 am  “Molecular Scale Structure and Dynamics of Concentrated Electrolytes at Charged Interfaces” – Invited (I-16)
Ahmet Uysal, Argonne National Laboratory

12:10 pm  “Transmission Surface Diffraction: A Novel Method for Operando Studies of Electrochemical Interfaces” – Contributed (C-17)
Jochim Stettner, Kiel University

12:30 pm  Lunch (provided*)
Tom Arnold, Diamond Light Source (Session Chair)

1:30 pm  “Nanoscale Structure of Si/SiO2/Organics Interfaces” – Contributed (C-18)
Hans-Georg Steinrück, SLAC National Accelerator Laboratory

1:50 pm  “Orbital Polarization Driven by Anisotropic Hybridization in a Nickelate Heterostructure determined by Resonant Inelastic X-Ray Scattering” – Contributed (C-19)
Mark Dean, Brookhaven National Laboratory

2:10 pm  “Reduced Diffusion Dynamics of Polymer Thin Films near Graphene Oxide Surfaces: Neutron Reflectivity Studies” – Contributed (C-20)
Jaseung Koo, Korea Atomic Energy Research Institute

2:30 pm  Poster Winner Talks

3:10 pm  Bus A departs for BNL (tours #1-3)
3:30 pm  Bus B departs for BNL (tours #4-6)
4:00 pm  BNL (NSLS-II/740) tours #1-3
4:30 pm  BNL (NSLS-II/740) tours #4-6
4:45 pm  Bus A departs from SBU Wang Center for the Riverhead Aquarium, stopping at BNL.
5:20 pm  SBU bus departs from BNL Berkner to SBU
5:30 pm  Bus A and B depart from NSLS-II for Riverhead
6:00 pm  Buses arrive in Riverhead
6:00 pm  Banquet Dinner (separate cost; tickets required)
10:00 pm Buses depart for hotels and SBU
10:45 pm Buses arrive at hotels and SBU

Thursday, July 14, 2016

8:00 am  Check In and Registration at Wang Center

8:50 am  Session VI – Introductory Remarks
Cheng Wang, Lawrence Berkeley National Laboratory (Session Chair)

9:00 am  “Grazing-Incidence X-Ray Scattering From Thin Polymer Films” – Invited (I-17)
Gila Stein, University of Houston

9:30 am  “Wetting, Alignment and Roughness - lamellar Phases at Solid Interfaces” – Contributed (C-21)
Adrian Rennie, Uppsala University
Bulent Akgun, Bogazici University

10:20 am  “Surface X-ray Scattering Probes Dynamical Anomalies of Polymer Grafted Nanocolloids in Polymer Films” – Invited (I-19)
Jaydeep Basu, Indian Institute of Science

10:50 am  Coffee Break (provided)

Ron Pindak, Brookhaven National Laboratory (Session Chair)

11:20 am  “Photothermal Assembly of Block Copolymers” – Invited (I-20)
Kevin Yager, Brookhaven National Laboratory

11:50 am  “Anisotropic de Gennes Narrowing in Confined Fluids” – Contributed (C-22)
Kim Nygard, University of Gothenburg

12:10 pm  “High-resolution Grazing-incidence X-ray Scattering for Three-dimensional Structures in Thin Films and Buried Nanostructures” – Invited (I-21)
Zhang Jiang, Argonne National Laboratory

12:40 pm  Closing Remarks

12:50 pm  Box Lunch (provided*)

1:19 pm  SBU train to NYC (on campus)

2:46 pm  Next SBU train to NYC (on campus)

*Meals provided for non-BNL registered attendees only.