

CHES Users' Meeting 2008

June 10-11, 2008

Robert Purcell Conference Center

Tuesday, June 10th

Sturt Manning / Charlotte Pearson - Cornell Tree-Ring Laboratory, The Malcolm and Carolyn Wiener Laboratory for Aegean and Near Eastern Dendrochronology, Cornell University
"Tree Ring Analysis Via Scanning X-ray Fluorescence Microscopy – Problems and Potential"

Thalia Mills – Department of Physics, Carnegie Mellon University
"WAXS Detects Liquid-liquid Domains in Model Membranes"

Kalle Gehring – Department of Biochemistry, McGill University
"Structural Studies of Protein Disulfide Isomerases"

John Hart- Department of Mechanical Engineering, University of Michigan
"Revealing the Dynamics of Carbon Nanotube Forest Growth by In Situ X-ray Scattering"

Richard Jones – Department of Physics, University of Connecticut
"Morphology of Thin Diamond Monocrystals from X-ray Rocking Curves"

Marleen Kamperman – Materials Science and Engineering, Cornell University
"Hierarchically Ordered High Temperature Ceramics using Block Copolymer Mesophases"

To Be Announced – Winner of the 2007-2008 CHES Thesis Prize

Poster Session – Awards for 'best' in two categories: Science and Technical Development

After-lunch Speaker – **Steve Marschner** – Cornell Computer Science Department, Cornell University

Wednesday, June 11th

Workshop I: "Probing the Nanoscale: X-rays Meet Nanofabrication"

This workshop is a joint venture between the CHES and the Cornell NanoScale Science and Technology Facility (CNF). Sponsored by the Kavli Institute at Cornell.

Tom Krupenkin – Mechanical Engineering, University of Wisconsin - Madison
"Nanoglass, Nanobricks, Nanonails, and Other Things Useful in Your Nano-landscaping"

Wenbing Yun – Xradia
"State-of-the-Art High Resolution X-ray Tomography Imaging Systems"

Ken Evans-Lutterodt – National Synchrotron Light Source, Brookhaven National Laboratory
"Kinoform Hard X-ray Optics"

Bert Nickel – Department of Physics – Ludwig-Maximilians University
"Nanostructure and Function of Biointerfaces and Organic Field Effect Devices"

Bob Austin – Department of Physics, Princeton University
"Applications of Particle Accelerators in Biological Physics"

David Pine – Department of Physics, New York University
"Structured Colloids: clusters, patchy colloids, & self-replication"

Erik Anderson – Department of Materials Sciences, Lawrence Berkeley National Lab
"Zone Plates and Diffractive Nanostructures for X-ray Optics"

Claudio Nicolini – NanoWorld, Genoa, Italy
"TBA"

Workshop II: "Environmental Influences on Proteins: pressure, temperature, and more"

Kris Tesh – Director, Macromolecular Products, Rigaku Americas Corporation
"The Free Mounting System (FMS) as a Tool to Improve Diffraction and Reduce Backgrounds"

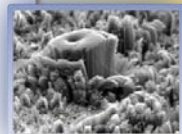
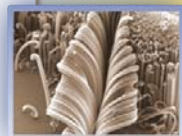
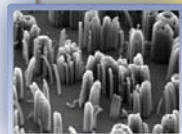
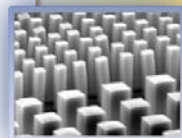
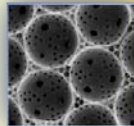
Masound Vedadi – PI, Molecular Biophysics, University of Toronto
"Application of High Throughput Ligand Screening to Promote Protein Crystallization"

Matt Warkentin – Physics Department, Cornell University
"Temperature Dependent Studies of Protein Crystals: Lattice Disorder, Radiation Sensitivity, and the Glass Transition"

Markus Buehler – Department of Civil and Environmental Engineering, Massachusetts Institute of Technology
"Beyond Genomics: Rupture Mechanics of Protein Materials"

Walid Qoronfleh – Vice President, Business Development, NextGen Sciences, Inc.
"Confronting High-throughput Protein Refolding using High Pressure and Solution Screens"

Wine-tasting and Dinner – Sheldrake Winery



Cornell University
Kavli Institute at Cornell

