



The Materials Information Society

LONG ISLAND CHAPTER

METALLAGRAM



Volume 58 Issue 6

Chapter website: <http://www.matscieng.sunysb.edu/asm/>

******* Past Chairs Night *******

Next Meeting Wednesday, February 15, 2017

Where Pollo Rico Latin Bistro, Centereach, NY

Topic: Let There Be Light! – A Virtual Tour of National Synchrotron Light Source II – Professional and Personal Journey

Speaker: Karen Chen-Wiegart, SBU/BNL

Social hour ... 6:00 pm Dinner ... 7:00 pm Meeting ... 8:00 pm

Members ... \$25 Guests ... \$27 Students ... \$15

(New and recently transferred-in members free)

Reservations appreciated – call Peter Indrigo at 631-589-6666

Directions to Pollo Rico Latin Bistro

Pollo Rico is located at 2435 Middle Country Road (Rte. 25), Centereach. Probably the simplest way to get there from the LIE is to take Exit 62 (Nicolls Road) and go north on CR 97 (towards Stony Brook). Continue north for about 3 miles then take the exit to Rte. 25. At the traffic signals at the end of the ramp go left and head west (Smithtown). The restaurant will appear after about 1.5 miles, on the right side of the highway. Their telephone number is 631-471-0585. Their website is: <http://www.polloricolatinbistro.com/>

The Talk

National Synchrotron Light Source II (NSLS-II), a newly commissioned synchrotron facility at Brookhaven National Laboratory, is one of the brightest x-ray light sources in the world. Funded by the U.S. Department of Energy, NSLS-II offers state-of-art tools to all users from academia and industry. This talk will provide an overview of the facility: its unique capabilities, with examples ranging from energy storage, functional materials, nanoporous metal, and cultural heritage. Dr. Chen-Wiegart will also share her experiences working there as a scientist and personal journey working at synchrotron facilities.

Our Speaker

Prof. Chen-Wiegart is an Assistant Professor at the Department of Materials Science and Chemical Engineering in Stony Brook University (SBU). She also holds a Joint Appointment with National Synchrotron Light Source – II (NSLS-II) at Brookhaven National Laboratory (BNL), coordinating the effort of multi-modal research approach. She has a PhD degree in Materials Science and Engineering from Northwestern University. Prof. Chen-Wiegart specializes in applying state-of-the-art x-ray imaging and spectroscopic techniques to study novel functional materials. Her current interests include energy storage and conversion, nano-/meso-porous materials, thin film & surface treatment, and cultural heritage.

Before joining Stony Brook University, she served as beamline scientist at the Sub-Micron Resolution X-ray Spectroscopy (SRX) Beamline of NSLS-II. Prior to that she was a postdoctoral fellow at the National Synchrotron Light Source at BNL, where she participated in the commissioning of the new high-resolution x-ray transmission microscope and in establishing the new associated research program. Her PhD research focused on the study of the dealloying and coarsening behaviors of nanoporous metal which has numerous potential applications, co-funded by the Advanced Photon Source at Argonne National Laboratory. While continuing to develop cutting-edge x-ray tools, she is exploring new opportunities in functional materials. She has also been active in out-reach programs at NSLS-II and SBU, organizing events such as “Bring Our Children to Work Day” for the Photon Sciences Division at BNL, volunteering for educational and outreach events, and teaching courses in Women in Science & Engineering program at SBU.

Recent ASM Webinars: <http://www.asminternational.org/news/webinars>:

- * An Alternative Nondestructive Testing Method in Ferromagnetic Materials
- * 3D X-ray Microscopy for Nondestructive Imaging
- * Using Inverted Microscopes to Analyze Grain Size
- * Sample Preparation of Nanocomposites and Nanomaterials Using Ultramicrotomy
- * Understanding the Microstructure of Iron-Based Alloys



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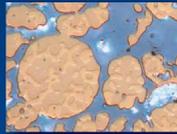


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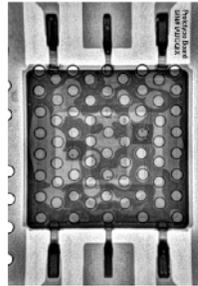
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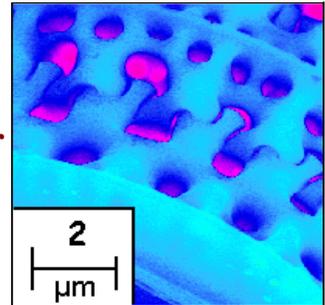
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<http://www.asminternational.org/web/metro-nynj-chapter/home>

February 16, 2017 ... Triestina Ristorante, Cranford, NJ
Topic: X-ray Computed Tomography for Materials Science
Speaker: Benjamin Ache, Micro Photonics, Inc.

Long Island Chapter Meeting Schedule

March 22, 2017 Sustaining Members Night
Speaker: Vijay Alreja, VJ Tech.
Topic: Radiography of metals
Location: Pollo Rico Centereach, NY

April 19, 2017 Students Night
Speakers, Topics: tbd
Location: Old Field Club, E. Setauket