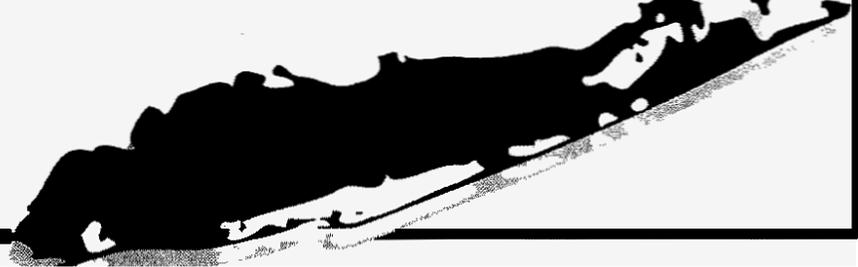




METALLAGRAM

LONG ISLAND CHAPTER



Volume 54 Issue 5

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

**Joint Meeting with the American Nuclear Society (Long Island Section)
Next Meeting Wednesday, January 16, 2013**

Where . . . John Harvard's Brew House, Lake Grove, NY

******* John Weeks Lecture *******

**Topic: Accelerator Production of Radioisotopes – Challenges and
Opportunities**

Speaker: Suzanne V. Smith, BNL

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

Members ... \$22 Guests ... \$25 ASM 25 years ... \$20 Students ... \$12

(New and recently transferred-in members free)

For reservations, call Peter Indrigo at 631-589-6666 or email peterd@unitronusa.com

Directions to John Harvard's Brew House

John Harvard's Brew House is located at 2093 Smithhaven Plaza (Rte. 347), Lake Grove. 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 6 miles, to the traffic signal at Rte. 347. At the traffic signal go LEFT onto Rte. 347 West. After 1.4 miles, turn LEFT at the 4th traffic light onto New Moriches Rd. (not signed but there is a Lowe's store on the right just before the light). Take the first RIGHT (comes up quickly) followed immediately by another RIGHT. This leads you into the parking lot behind the Brew House (there is more parking space in front and to the side). Their telephone number is 631-979-2739.

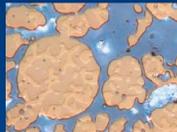
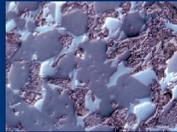
Our Speaker

Professor Suzanne V Smith is a medical scientist in BNL Collider Accelerator Department and holds an Adjunct Professorship with Australian National University as a Principle Investigator with the ARC Centre of Excellence in Antimatter Matter Studies (a partnership of 8 Australian and 13 International Institutes). She was an Executive Board member and Node Directorship for over 7 years, the National Materials Theme Leader and held the prestigious senior research fellowship at ANSTO (1 of 3 only funded by their CEO) before coming to BNL. She has secured range of patent technologies in reactor and cyclotron production of radioisotopes and radiopharmaceuticals; two are currently licensed for commercialization. Her current research involves the production and purification of accelerator produced radioisotopes using BLIP and low energy cyclotrons and drug risk assessment with platinum radiopharmaceuticals. She has applied radiotracer techniques for the characterization of nanomaterials (particles and self-assembly systems) for application in self-healing materials, water purification, drug delivery, and nanotoxicology. Her 20 year experience spans all aspects of the research and development in radiopharmaceuticals from “bench to production” including commercial production of radiopharmaceuticals under GMP (Good Manufacturing Practices) and ISO9001 and clinical trials of these products according to GCRP (Good Clinical Research Practices).

The Topic

We have come a long way since the 1930s when Ernest Lawrence first observed the production of radioisotopes by bombardment and the production of the first commercial cyclotron system in the 70s. Today, accelerators technology has provided instruments capable of producing a range of particle types and energies at increased beam currents and overall reliability. Coupled with advances in the design of target systems and separation processes it makes for a very exciting field to research. This talk will discuss the current use of accelerators for the production of radioisotopes for medical, industrial and environmental applications. The author's experience in target design and separation processes for high specific activity copper radioisotopes using a 30 MeV cyclotron as well as explore the challenges and opportunities for the future of this field.

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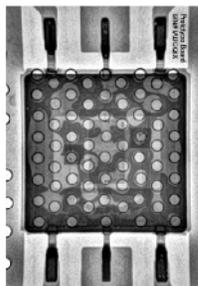
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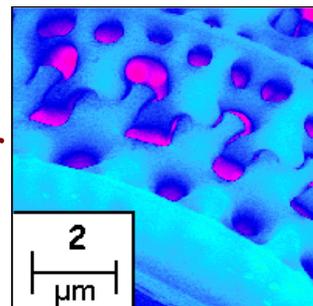
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Long Island Chapter Meeting Schedule

Feb. 20, 2013 **Past Chairs Night**
Place: Copper Wok, Hicksville
Speaker: Ben Emley, Watt Fuel Cell Corp.
Topic: Fuel-Cell Materials

Mar. 20, 2013 **Sustaining Members Night**
Place: Mauricio's, St. James
Speaker: tba
Topic: Solar Cell Materials

Apr. ??, 2013 **Student Night**
Place: Old Field Club, West Meadow Beach
Speaker: tba
Topic: Final Senior Design Results

Metro NY-NJ Chapter
(website www.asminternational.org/portal/site/metronynj/)
(contact: Rich Lynch @ 201-891-8399)

Feb. 13, 2013 **Place:** Rutgers University, Piscataway, NJ
Speaker: TBA
Subject: TBA
Students Night

Long Island Metal Workers Society
(website <http://www.limws.org>)

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