



# METALLAGRAM

LONG ISLAND CHAPTER



Volume 53 Issue 5

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

## **Joint Meeting with the American Nuclear Society (Long Island Section)**

**Next Meeting . . . . . Wednesday, January 25, 2012**

**Where . . . Brickhouse Brewery, Patchogue, NY**

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

**Topic: Nuclear Energy Strategy at BNL**

**Speaker: William Horak, 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 Arnie Aronson at 631-344-2606 or email [aaronson@bnl.gov](mailto:aaronson@bnl.gov)**

### **DIRECTIONS TO THE BRICKHOUSE BREWERY**

The pub/restaurant is located at 87 West Main Street in Patchogue. From either the Long Island Expressway or the Sunrise Highway, Take Rt. 83 (Ocean Avenue) south to the intersection with Main Street then turn right. The Brickhouse Brewery is about one block west, on the right. Their telephone number is (631) 447-BEER. There is a free parking garage adjacent to it and on-street parking in the immediate vicinity.

## Our Speaker

William (Bill) Horak has a B.S. in aeronautical and astronautical engineering and an M.S. and a Ph.D. in nuclear engineering from the University of Illinois. He is an internationally recognized expert on energy issues and has served on numerous boards, committees, and panels, both in the U.S. and for international organizations, such as the European Bank for Reconstruction and Development. Since coming to Brookhaven in 1979 as an assistant nuclear engineer, Horak has served as group leader for the International Projects Division of the then-Department of Nuclear Energy and as head of the Energy and Nuclear Technology Division of the Department of Advanced Technology. He had a lead role in the US Department of Energy's activities in response to the Chernobyl accident, including evaluations of Soviet-designed facilities, and has implemented and managed numerous programs in nuclear safety, international safeguards, and energy-system development. In his previous position as Chair of the Energy Sciences and Technology Department, he initiated new research programs on materials for extreme environments, hydrogen storage, energy-water systems, integrated building systems, and advanced battery design. Bill has received numerous commendations, including the American Nuclear Society's Mark Mills Award and the Nuclear Regulatory Commission's Special Achievement Certificate. He is a member of the American Society of Mechanical Engineers, the American Institute of Aeronautics and Astronautics, the American Nuclear Society, and the American Physical Society.

## The Topic

Brookhaven National Laboratory was founded in 1947 to provide a site for the first civilian research reactor, the Brookhaven Graphite Research Reactor (BGRR). Since that beginning 65 years ago, BNL has been a leader in nuclear energy research. Two other research reactors, the High Flux Beam Reactor and Brookhaven Medical Research Reactor, were also designed and constructed at BNL. The Brookhaven Neutron Cross Section Compilation Group was formed in the Physics Department in 1952 (later renamed the National Nuclear Data Center in 1976) and is the longest continuous research program at BNL. The Center collects information on nuclear structure and nuclear cross-sections (mostly for neutron-induced reactions), maintains nuclear databases and makes use of modern information technology to disseminate the results. Also in 1976, the BNL began a continuing relationship with the Nuclear Regulatory Commission, providing key technical support in reactor core analysis, probabilistic safety analysis, seismic and structural analysis, and systems engineering. Over the next 35 years, this research was conducted in a set of research departments that had a research portfolio that included many activities not related to nuclear energy. In 2011, BNL made a decision to re-establish a separate Nuclear Science and Technology department focused on nuclear energy as part of its goal of developing and deploying de-carbonized electrical generation. This talk will discuss the overall energy strategy of BNL, the roles that the Nuclear Science and Technology Department plays in the strategy, and the new research programs that are being implemented to carry out those roles.



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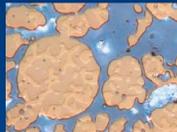
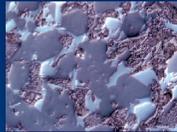
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Phone: 631-666-7750  
Fax: 631-666-5347  
e-mail: [info@cladmetal.com](mailto:info@cladmetal.com)

## 2012 John R. Weeks Scholarship Program

The Chapter makes available awards worth \$500 p.a. for up to four years for high school students planning to study materials science and engineering at a recognized university or community college. Packages containing details and application forms will be mailed to the Principals at all Nassau and Suffolk county high schools in February. However, if you would like some information now or receive a package yourself, contact Biays Bowerman (631-344-2946) (email [bowerman@bnl.gov](mailto:bowerman@bnl.gov)).



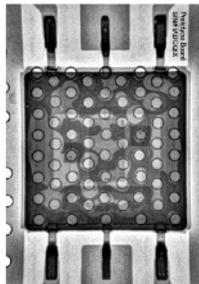
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President

48 Nancy Street  
West Babylon, NY 11704  
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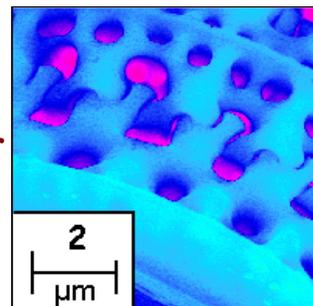
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## WELCOME TO THE CHAPTER!

*Frank Carrotta and Linda O'Connor, Bruckner Supply Co.    Avi Chamo, Probook*

*Jason Graetz, Eric Stach and Yimei Zhu, Brookhaven National Lab.*

*Jun Kang, Demeton Technologies    Jason Sanabia, Raith USA, Inc.*

All new members, including those who have transferred in from another Chapter, are invited to dine free at a regular meeting of their choice. Please take us up on this offer - come along to the meeting and introduce yourself. This is an excellent way to meet with other Chapter members and to establish new business and social relationships in the area.

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## Long Island Chapter Meeting Schedule

**Feb. 21, 2012**    **Past Chairs Night**  
**Place:** Sonoma Grill, Holbrook, NY  
**Speaker:** Charles Fortmann, SBU  
**Topic:** tba

**Mar. 21, 2012**    **Sustaining Members Night**  
**Place:** Mauricio's Orlando's II, St. James  
**Speaker:** tba  
**Topic:** RAP

**April 18, 2012**    **Place:** Stony Brook University  
**Speakers:** tba (students)  
**Topic:** Review Senior Students Designs and Results

**Metro NY-NJ Chapter**  
(website <http://www.asm.nynj.org/>)  
(contact: Rich Lynch @ 201-891-8399)

**Feb. 21, 2012**    **Place:** Rutgers University, Piscataway, NJ  
**Speaker:** Richard Sisson, WPI  
**Topic:** Surface Treatment

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

## 2011-2012 CHAPTER OFFICERS

[ ( ) – term expires ]

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Brookhaven National Laboratory  
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Peter D. Indrigo  
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**73 Mall Drive**  
**Commack, NY 11725, USA**  
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Fax: 631-589-6975  
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