



Volume 55 Issue 5

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

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

Next Meeting Wednesday, January 22, 2014

Where Pollo Rico Latin Bistro, Centereach, NY

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

Topic: Updated Emergency Response Guidance for the First 48 Hours After an Outdoors Explosive Radiological Dispersion Device (RDD)

Speaker: Steven Musolino, BNL

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

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

(New and recently transferred-in members free)

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

WELCOME TO THE CHAPTER!

John Genua, Lynbrook
Mike McKay, Vacuum Instruments Corp
Wilkinson, Vacuum Instrument Corp.

Mark McErlean, Cosa Xentaur
Tony Sahn, Vacuum Instrument Corp.. *Chuck*
Rick Yanez, Vacuum Instrument Corp.

All new members, including those who have transferred in from another Chapter, are invited to dine free at a regular meeting of their choice (not applicable to this wine tasting!). 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.

The Topic

The speaker will discuss updates of portions of the guidance originally published in 2006 based on the interpretation of subsequent experiments simulating explosive aerosolization from a radiological dispersal device and three-dimensional modeling of a high-rise urban-canyon type environment and wind field. These new data increase confidence about the predicted range of radioactive ballistic fragments that could endanger first responders and the public. The results of the most recent complete set of experiments indicate that the previously recommended initial hazard boundary corresponding to the potential for acute health effects can be reduced from 500 m to 250 m. This revised recommendation is independent of the total activity of the radioactive material. The assessment of the potential range and effects of dispersal from small particles as aerosol remains unchanged from the guidance issued in 2006. New recommendations are offered on sheltering versus evacuation and how to conduct the initial field measurements so as to make early decisions on protecting the public and responders, and providing coherent data for an assessment scientist to make a first estimate of the source term in the device.

Our Speaker

Dr. Stephen V. Musolino is a scientist in the Nonproliferation and National Security Department at the United States Department of Energy's (DOE) Brookhaven National Laboratory (BNL) in Upton, New York. He has more than 30 years of experience in Health Physics. His current research interests are in nonproliferation, counterterrorism, and planning for response to the consequences of radiological and nuclear terrorism. Since 1981, he has been part of the DOE Radiological Assistance Program as a Team Captain/Team Scientist and has been involved in developing radiological emergency response plans and procedures as well as participating in a wide range of radiological and nuclear exercises and field deployments. During the Fukushima crisis, he was deployed as an Assessment Scientist with the DOE response team in Japan, measuring the environmental consequences of the radioactive material released from the damaged nuclear power plants. Working with the first responder community in the New York metropolitan area Dr. Musolino was involved with the development of guidance for response to the aftermath a radiological dispersal device, and served on the scientific committee that developed NCRP Report No. 165 – Responding to a Radiological or Nuclear Terrorism Incident: A Guide for Decision Makers. Earlier in his career at BNL, he was a member of the Marshall Islands Radiological Safety Program and participated in numerous field missions to monitor the populations living on islands affected by nuclear testing. He is a member of the National Council on Radiation Protection and Measurements, Fellow of the Health Physics Society, Distinguished Alumnus of Buffalo State College, and serves as a member of the editorial board of the journal Health Physics. He earned a bachelor degree in engineering technology from Buffalo State College, a Master of Science degree in nuclear engineering from the Polytechnic Institute of New York University, and a doctorate in health physics from the Georgia Institute of Technology. He is certified by the American Board of Health Physics.



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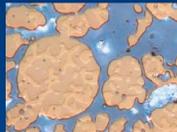
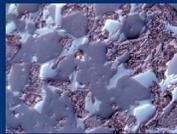
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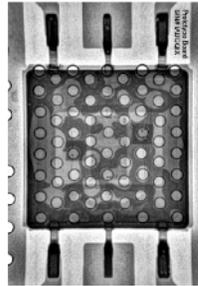
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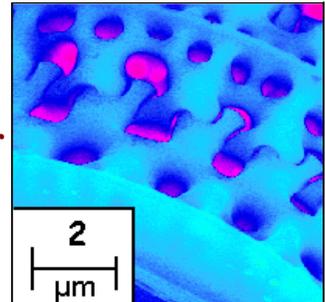
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Pollo Rico is located at 2435 Middle Country Road (Rte. 25), Centereach. Probably the simplest way to get there from the LIE is to take Exit 62 (Nicolls Road) and go north on CR 97 (towards Stony Brook). Continue north for about 3 miles then take the 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.





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Long Island Chapter Meeting Schedule

Feb. 19, 2014 Place: Pollo Rico, Centereach, NY
Speaker: Dr. Amy Marschilok
Subject: Battery Materials

Mar. 19, 2014 Place:
Speaker: Philip Waldvogel, Amman & Whitney Consulting Engineers
Topic: A Comprehensive Approach To System Preservation Of Cable-Supported Structures – Inspection, Evaluation, Monitoring And Corrosion Protection

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

No meeting during January 2014

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

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