Next Meeting . . . . Wednesday, December 14, 2011
Where . . . Pollo Rico Latin Bistro, Centereach, NY

***** Companions Night *****

Topic: Explosive Materials
Speaker: Joe Brady, 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)

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.
Our Speaker

Joseph Brady recently received his Ph. D in analytical chemistry from the University of Rhode Island, the DHS Center of Excellence for Explosives Detection, Mitigation and Response. The focus of his dissertation was the characterization of homemade explosives (HME) and the methodologies to detect and safely destroy HME. Prior to that, Joe obtained an M.S. in analytical chemistry based on a quantitative study on the formation of explosive organic peroxides during industrial processes. His work has been published in multiple peer-reviewed journals and has filed for two patents. A recent addition to Brookhaven National Laboratory, Joe is currently investigating alternative techniques to defeating improvised explosive devices in addition to techniques for the safe disposal of illicit pyrotechnics.

The Topic

Joe’s presentation will highlight some of his Ph. D. work on the applications of analytical chemistry to combatting the explosive threat. In particular, it will address the recent growth in the use of homemade explosives (HME) by criminals and terrorists. An HME may be a simple fuel/oxidizer mixture (i.e. black powder, potassium chlorate/sugar) or it may be a discrete chemical compound (i.e. triacetone triperoxide, erythritol tetranitrate). Due to their inherent instabilities, HMEs have no military or commercial value and, consequently, relatively little research has been conducted on these materials and mixtures. Joe will discuss the characterization of some commonly used HMEs as well as three strategies for combating the threat of HME: denaturing the precursor materials before the HME is prepared, the application of analytical chemistry to augment current detection methodologies and safely defeating HME in situ after it has been prepared.
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November 2011 meeting

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WELCOME TO THE CHAPTER!
Gerna Gauthier, Telephonics Corp.  Dariusz Sniakowicz, Burton Industries
Gwendilyn Watkins, Bruckner Supply Co.

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

- **Jan. 25, 2012**
  - Joint meeting with LIANS
  - Place: Brickhouse Brewery, Patchogue
  - Speaker: Bill Horak, BNL
  - Topic: Nuclear Energy

- **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

**Metro NY-NJ Chapter**

(website [http://www.asm.nynj.org/](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](http://www.limws.org))