



Volume 53 Issue 4

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

**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.



**INDUSTRONICS**  
SERVICE COMPANY

INSTRUMENTS • HEATING ELEMENTS  
THERMOCOUPLES • FURNACE SERVICE  
REFRACTORY SERVICE

**MEL THORNE**  
ACCOUNT EXECUTIVE  
INFORMATION TECHNOLOGY  
SPECIALIST

(860) 289-1551 EXT. 120  
FAX (860) 289-3526  
489 SULLIVAN AVENUE  
SOUTH WINDSOR, CT 06074  
mthorne@industronics.com  
www.industronics.com



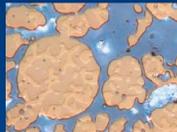
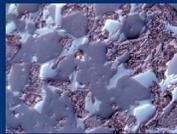
KENNETH J. TRELEWICZ      ENGINEERING & TEST  
Director of Sales & Marketing      DIVISION



Church Street, Bohemia, N.Y. 11716-5031

Direct Dial: 631-244-6238    e-mail: ktrelewicz@daytontbrown.com  
Main: 631-589-6300      Fax: 631-589-3648

# Carl Zeiss... for all your state-of-the-art Microscopy & Digital Imaging needs



Offering features such as Image Archiving, Grain Size analysis, Dendritic Arm Spacing measurement, Non-Metallic Inclusion, Graphite and more...

Carl Zeiss MicroImaging, Inc.  
Thornwood, NY  
1.800.233.2343  
micro@zeiss.com  
zeiss.com/materials



We make it visible.



**LAWRENCE RIPAK CO., INC.**

NDT • METAL FINISHING

Since 1952

**LAWRENCE RIPAK, JR.**  
President, CEO



Lawrence Ripak Co., Inc.  
165 Field Street  
West Babylon, NY 11704-1299

Office: (631) 694-1818  
Fax: (631) 694-1818  
Email: lripak@riepak.com

**NONDESTRUCTIVE TESTING**

- Magnetic Particle
- Fluorescent Penetrant
- Visible Dye Penetrant
- Contact Ultrasonic
- Immersion Ultrasonic with data acquisition
- X-Ray
- Nital Etch
- Eddy Current

**CLEANING**

- Passivation
- Abrasive Blasting
- Glass Bead Blasting
- Plastic Media Blasting
- Acid Pickle Cleaning
- Alkaline Cleaning
- Parts up to 20' Long

**ANODIZING**

- Boric-Sulfuric
- Chromic
- Sulfuric
- Parts up to 18' Long

**PLATING**

- Titanium-Cadmium
- Cadmium
- Brush Plating

**PAINTING**

- Primers
- Top Coats
- Dry Film Lubricants
- Fuel Tank Coating
- Teflon
- High Temp Primers
- Masking

**SHOT PEENING**

- Automatic and Manual
- Regular & Hard Cast Steel
- Glass Bead
- Ceramic
- Parts up to 8 Feet Long
- Post-Peen Cleaning

**CONVERSION COATINGS**

- Alodine 1200
- Phosphate Fluoride
- Sol-Gel

**OTHER PROCESSING**

- Stress Relieving
- Conductivity Testing
- Hardness Testing
- High Humidity Testing
- Salt Spray Testing

Overlays/Inlays  
Contact Materials

ISO-9001  
QS-9000  
AS-9000

**REGISTERED**

## CLAD METAL SPECIALTIES

1516 FIFTH INDUSTRIAL COURT  
BAYSHORE, NEW YORK 11706-3401

[www.cladmetal.com](http://www.cladmetal.com)

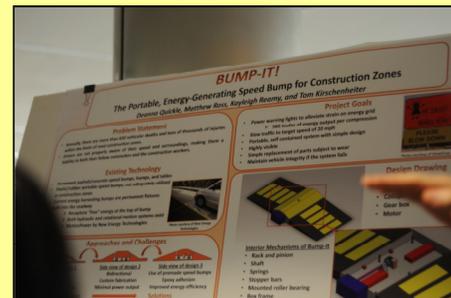
Phone: 631-666-7750

Fax: 631-666-5347

DENISE A. MARCOCCIA  
Vice President

e-mail: [info@cladmetal.com](mailto:info@cladmetal.com)

### November 2011 meeting



(This photograph and those on the next page courtesy of Archer Wu)



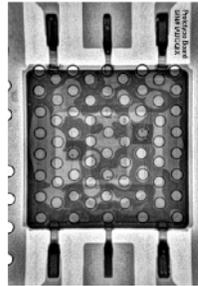
**Alex M. Chi**  
*President*

48 Nancy Street  
West Babylon, NY 11704  
[www.demetontech.com](http://www.demetontech.com)

T : 631-491-1592  
F : 631-491-1622  
Alexdemeton@aol.com

## WALDVOGEL METALLURGICAL, INC.

MATERIALS ANALYSIS - FAILURE ANALYSIS - MATERIALS TESTING



**ELECTRONIC DEVICE FAILURE ANALYSIS**  
**PRECISION METALLOGRAPHIC ANALYSIS**  
**IMMEDIATE TURNAROUND**

TELEPHONE: 516-564-7839  
FAX: 516-485-2039  
CELLULAR: 516-967-8576  
E-MAIL: waldvogelmet@verizon.net

## Long Island Testing Laboratories, Inc.

Specialists in Aerospace Materials Testing, Since 1985  
**METALLURGISTS – ANALYSTS**

- Chemical Analysis
- Metallurgy
- Expert Testimonies
- Mechanical Testing
- Metallurgical Failure Analysis
- Welder's Qualifications

**T. Rao Tipirneni, President**

243-A Wyandanch Avenue, North Babylon, New York 11704  
Phone (631) 643-6792 Fax (631) 643-5628  
[www.litlab.com](http://www.litlab.com) Email: [rao@litlab.com](mailto:rao@litlab.com)



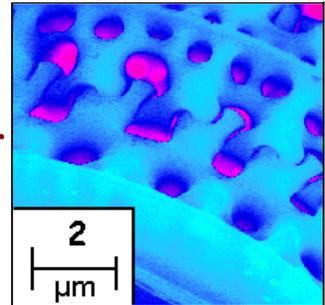
STATE UNIVERSITY OF NEW YORK

**University/Industry  
Partnering Together**

**Your samples-Our SEM**

We also have OM, XRD,  
RP, and much more.....

Dr. Jim Quinn  
631-632-6663 or 8495  
[james.quinn@stonybrook.edu](mailto:james.quinn@stonybrook.edu)



## WELCOME TO THE CHAPTER!

*Gerna Gauthier, Telephonics Corp.    Dariusz Siniakowicz, 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.



**Buehler's Class of 2008**

**Providing Professional Solutions**  
Productivity and reliability are the cornerstones of the development process at Buehler. Partner Buehler equipment with our superior consumables to maximize your output and attain high quality results.

**For further information contact:**  
Sandy Anderson, Sales Engineer  
Tel: 1-800-BUEHLER • 1-800-283-4537  
[Http://www.buehler.com](http://www.buehler.com) • [Sandy.Anderson@buehler.com](mailto:Sandy.Anderson@buehler.com)



**Best in Class**



41 Waukegan Road • Lake Bluff, Illinois 60044-1699



**Struers Inc.**  
24766 Detroit Road  
Westlake, OH 44145-2525

Direct/fax 203.380.0563  
Telephone 440.871.0071 ext 867  
Fax 440.871.8188  
[www.struers.com](http://www.struers.com) • [lservino@struers.com](mailto:lservino@struers.com)

**Luca A. Servino**  
Account Representative  
New England

## 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/>)  
(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 ]

**Chairman (2012)**  
Jim Quinn - (631) 632-6663  
Stony Brook University

**Vice Chairman (2012)**  
Ken Trelewicz - (631) 244-6238  
Dayton T. Brown Inc

**Secretary (2013)**  
Gary Elgort - (212) 894-9504  
Consolidated Edison

**Treasurer (2012)**  
Peter Indrigo - (631) 589-6666  
Unitron Ltd.

**Executive Committee Members**  
Alex Chi (2013) – (631) 491-1592  
Demeton Technologies  
John Coyle (2012) - (631) 589-6666 x2619  
Unitron Ltd.  
Carl Czajkowski (2014) - (631) 344-4420  
Brookhaven National Laboratory  
Krishan Garg (2013) – (631) 589-6300 x615  
Dayton T. Brown Inc.  
Atul Gokhale (2013) – (631) 926-0209 x614  
Dayton T. Brown Inc.  
Rao Tipirneni (2014) - (631) 643-6792  
Long Island Testing Laboratories Inc.  
James Waldvogel (2013) – (516) 564-7839  
Waldvogel Metallurgical Inc.  
Al Wirth (2012) - (516) 333-7429  
Retired

**ADVISORY**  
Biays Bowerman (2012) - (631) 344-2946  
Brookhaven National Laboratory

**EMERITUS**  
Richard Richards (Retired) - (631) 567-6163  
Clifford Shaver (Retired) - (631) 586-1842



Peter D. Indrigo  
Senior Vice President

**73 Mall Drive**  
**Commaçk, NY 11725, USA**  
Email: [peterd@unitronusa.com](mailto:peterd@unitronusa.com)

Phone: **631-589-6666**  
Fax: 631-589-6975  
Website: [www.unitronusa.com](http://www.unitronusa.com)