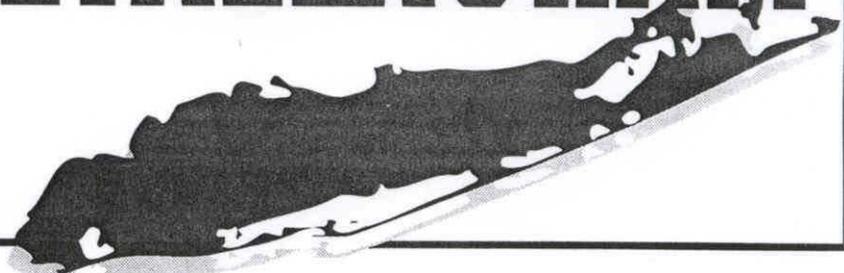


# METALLAGRAM

LONG ISLAND CHAPTER



Volume 44 Issue 1

Editors: Carl Czajkowski, Mel Cowgill

## **MEETING NOTICE: Sunday, October 20, 2002** **TOPIC: Wine Tasting and Buffet Dinner**

The first event of the 2002-2003 Chapter year will be held on Sunday, October 20, 2002, on the North Fork of Long Island. In a change from the past, this year we will meet at the **Bidwell Vineyards**, situated on Rt. 48 in Cutchogue, at **1:30 pm**. After the tour and sampling their wares, there will be a break to let you check up on other attractions in the area (fruit and vegetable stands, antique stores, etc.). We will reconvene at **4:30 pm** at **Bedell Cellars** for a private wine tasting in their new facility on Rte. 25 in Cutchogue. In addition to the tasting, we have arranged for a buffet dinner, after which we will raffle off a few bottles of the local products. Come out and join us, renew old acquaintances and meet new ones. We hope to enjoy our usual good fortune with the weather but, just in case, there are arrangements to move the dinner indoors if necessary.

\$17.00 per person (members and guests)

Buffet limited to 40 people.

Reservations requested (it makes planning easier) - call:

Carl Czajkowski (631/344-4420) or Biays Bowerman (631/344-2946).

### **DIRECTIONS (from the West)**

**To Bidwell Vineyards:** take the Long Island Expressway to Exit 73 then continue east on Rt. 58 to join up with Rt. 25. Continue east on Rt. 25 into Mattituck and make a left onto Love Lane (just after a large white church). Head north on Love Lane until it ends (about 0.2 miles) then make a right onto Rt. 48. Bidwell is about 2.5 miles east, on your right, just past the Castello di Borghese vineyard (formerly Hargraves). To reach **Bedell Cellars**, continue on Rt. 48 for about 1.7 miles, turn right onto Peconic Lane and go about 0.6 miles, to Rt. 25. Right on Rt. 25 (heading west) and Bedell Cellars should be on your right after about a mile or so.

**SULZER**

**Sulzer Metco**

LIASM Executive Committee appreciates the support received from all our advertisers. Let's make every effort to direct our business to them, if at all possible.

## A WORLD OF SOLUTIONS AND SERVICES

We provide a complete portfolio of surface technology solutions, products and services including:

- Advanced thermal spray equipment, systems and materials
- System integration design and support
- Customer support service such as field service, technical support and training
- Turbine component manufacturing

**For Surface Coating Solutions, Call the ISO 9001 World Leader at:**

**Phone: 1-888-COAT-544 • Fax: 516-338-2414 • [www.sulzermetco.com](http://www.sulzermetco.com)**

## CONGRATULATIONS!

To Chris Berndt, FASM, on his receiving the 2002 Alan Ray Putnam Service Award at the ASM International's "Materials Solutions 2002".

To Stephanie Kaszuba, Smithtown, and Edmund Palermo, Bay Shore, on winning LIASM John R. Weeks scholarships. Stephanie is entering the University of Virginia to study biomedical engineering while Edmund is going up to Cornell to study polymer science and engineering.

## WELCOME TO THE CHAPTER!

We're pleased to welcome the following people into the Chapter:

Michelle Bergman, VJ Technologies	Alexander Betti, Allied Aerospace	Bruce Bodger, Sulzer Metco
William Chambers, Nikon Instr.	Jason Doesburg, Sulzer Metco	Yves Dorisme, Stony Brook Univ.
Paul Englehart, Baldwin	Anthony Guiliani, KeySpan Energy	Joseph LoBiondo, Nikon Instr.
Palani Raj, United Nations Org.	S. Sadigh, Holbrook	Leonard Schleicher, Emtrol LLC
John Sohngen Jr., Mount Sinai	Limin Sun, Stony Brook Univ.	Weimin Yin, Polytechnic Univ.

All new and transferred-in members are invited to dine free at a regular meeting of their choice. **PLEASE** take us up on this offer, meet with other Chapter members and start networking.

## Have you checked out our new Web site?

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

We're still building it but already you'll find information on the Long Island Chapter people, programs and events, plus links to ASM International HQ and other sites. Any and all suggestions for what you'd like to see there are welcome - contact webmaster-cum Chairman Henry White (email: [hwhite@notes.cc.sunysb.edu](mailto:hwhite@notes.cc.sunysb.edu)).

## 2003 FALL "HANDS ON" COURSE OFFERING

### SCANNING ELECTRON MICROSCOPY

Location: Stony Brook University                      Dates (all Saturdays): October 19, October 26, November 2, November 9

Times: meet at 9 AM on first day; approx. 4 hours instruction per day                      Cost: \$500 per person/four sessions

Instructor: Dr James Quinn, Director of the Materials Characterization Laboratory, SBU (631-632-6663)

Enrollment limit: six (6) persons maximum                      CEUs: to be announced

#### Course Synopsis:

- |   |  |
|---|--|
| <p>1) Principles of operation<br/>Image generation<br/>Vacuum<br/>Sample preparation<br/>Secondary electron generation<br/>Gun parameters<br/>Beam current<br/>Selecting a voltage<br/>Charging<br/>Stage motion<br/>Sample coating<br/>Good/bad samples<br/>Feature size<br/>Focus/magnification<br/>Brightness/contrast<br/>Stigmation</p> <p>2) Detectors<br/>SE2, inlens, backscatter<br/>Dual screen<br/>Dual magnification<br/>Center point/feature</p> | <p>3) Elemental information<br/>Energy dispersive xray spectroscopy<br/>Picking a voltage<br/>Identifying elemental peaks<br/>Quantitative analysis<br/>X-ray mapping<br/>Simulations<br/>Excitation volume<br/>Thin films</p> <p>4) Samples to be examined:<br/>YOURS<br/>plus<br/>prickly Au stigmation sample<br/>Au grid magnification standard<br/>Polymer fibers<br/>Thermal spray splats<br/>Faraday cup<br/>Assorted microchips<br/>Fracture surfaces<br/>Au/Cu/Al grids for X-ray maps<br/>Quantitative X-ray analysis (brass, stainless steel)</p> |
|---|--|

Registration:      Dr Henry J. White                      (631) 632-3234 (phone)  
                         Dept. of Matls. Science & Engineering                      (631) 632-8052 (fax)  
                         Stony Brook University                      [hwhite@notes.cc.sunysb.edu](mailto:hwhite@notes.cc.sunysb.edu) (email)  
                         Engineering Bldg. (Room 209)  
                         Stony Brook University, NY 11794-0025

### A Message to the Long Island Chapter Members

## “2002-2003 Campaign for Chapter of Excellence”

*The Long Island Chapter under the direction of past Chairman Biays Bowerman reached a milestone during the 2001-2002 campaign. Now that we are recognized as a premier “five star” chapter, come out to our next meeting, find out why and help us reach our next goal of “Chapter of Excellence”. Without your attendance, we will never be able to reach our goal.*

**“Let's Roll”!!!!!!!!!!!!!!**

**FURNACE BRAZING**

- ★ Vacuum & Atmosphere Furnace Brazing of Stainless Steels, OFHC copper, Nickel, Monel and Other Alloys
- ★ Gold, Silver, Copper and Nickel-Based Filler Metals
- ★ Clean Fluxless Brazing in Vacuum, Hydrogen, Argon

**HEAT TREATING**

- ★ Bright Annealing, Tempering, Normalization, Stress Relief, Aging or Precipitation Hardening
- ★ AISI 300 and 400 Series Stainless, 17-4, 17-7, 15-5, 15-7, A286, Custom 455, Monel, Inconel, Oxygen-Free Copper, Air-Hardening Tool Steels (A-2, A-10, D-2, etc.)

**SPECIALTY PRODUCTS**

- ★ **DYNAPORE®** Multi-Layer Sintered Wire Mesh Laminates
- ★ **SPM™** Sintered Porous Powder Metals and Elements
- ★ **SWM™** Stainless Steel Filter Elements, Discs and Plates
- ★ Controlled Permeability Porous Metallic Media
- ★ Flame Arrester and Pressure Snubber Media



**138 Liberty Avenue ★ Mineola, NY 11501**  
**Tel (516) 746-7000 ★ Fax (516) 746-1818**

**Long Island Testing Laboratories, Inc.**



**SPECIALISTS IN AEROSPACE MATERIALS EVALUATION**

**T. Rao Tipirneni • President**

- CHEMICAL ANALYSIS
- CORROSION EVALUATION
- EXPERT TESTIMONIES
- FAILURE ANALYSIS
- MECHANICAL TESTING
- METALLOGRAPHY
- METALLURGICAL CONSULTATION
- SPECTROGRAPHIC EVALUATION
- WELDER'S QUALIFICATION

243A Wyandanch Avenue, North Babylon, New York 11704  
 631 643-6792

TEL (631) 694-1818

FAX (631) 694-1848



**LAWRENCE RIPAK CO., INC.**

SINCE 1952

- NONDESTRUCTIVE TESTING
- PLATING
- ANODIZING
- PAINTING



LAWRENCE RIPAK, JR.  
 President

165 FIELD STREET  
 WEST BABYLON, NY 11704-1299

**CHAPTER MEETING SCHEDULE**

- November 20, 2002 Joint meeting with Metro NY/NJ Chapter Speaker: Richard Hoffman on "Infrastructure Restoration in New York City"
- December 10, 2002 Companions' Night Speaker: William Medeiros, BNL - Peconic River cleanup
- January 15, 2003 Joint ASM-ANS Night Speaker: Anthony Favale - fusion reactors
- February 19, 2003 Past Chairs' Night Speaker: Harold Michaels - copper castings
- March, 2003 Plant tour (TBA)
- April 16, 2003 Thermal Spray Night/Students' Night Speaker: TBA

Overlays/Inlays  
 Contact Materials

Base Metals/Exotic Alloys  
 Rolling-Slitting

**CLAD METAL SPECIALTIES**

1516 FIFTH INDUSTRIAL COURT  
 BAYSHORE, NEW YORK 11706-3401

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

DENISE SALVATI  
 ISO9002:1994  
 ISO9001:2000  
 QS9000 AS9000

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

**UNITRON®**

PETER D. INDRIGO  
 Vice President

120 Wilbur Place, P.O. Box 469  
 Bohemia, New York 11716, U.S.A.  
 Email: [peterd@unitronusa.com](mailto:peterd@unitronusa.com)

Telephone: (631) 589-6666 X2617  
 Fax: (631) 589-6975  
 Website: [www.unitronusa.com](http://www.unitronusa.com)

## FROM SAMPLE PREPARATION TO ANALYSIS

**Buehler can provide for  
all your microstructural analysis needs.**

Cutters and Grinders • Mounting Presses • Automatic Preparation Systems  
Consumables • Image Analysis • Hardness Testers • Microscopes and Metallographs

For Further Information Contact: Sandy Phillips, Sales Engineer

Tel: (800) BUEHLER (800-283-4537) • Fax: (847) 295-7979

<http://www.buehler.com>



**BUEHLER**

41 Waukegan Road Lake Bluff, Illinois 60044-1699 • USA

## The BEST Metallographic Equipment

to meet all your laboratory needs...

Cutting • Grinding/Polishing • Mounting/Embedding  
Hardness Testing • Image Analysis • Consumables  
Semi-Automatic & Fully Automatic Systems



**JIM HUNTER**  
Senior Sales Representative  
888-STRUERS (787-8377)

810 Sharon Dr. • Westlake, OH 44145 • 888-STRUERS • fax: 440-871-8188 • [www.struers.com](http://www.struers.com)

TEL: (718) 625-1266

FAX: (718) 875-0582

**ANTHONY RIZZO**  
PRESIDENT



**HERCULES** HEAT TREATING CORP.  
101-113 CLASSON AVENUE  
BROOKLYN, N.Y. 11205

## STUDENT CHAPTER NEWS

Efforts are underway at Stony Brook University to formalize a Student Chapter affiliated with the Long Island Chapter of ASM International. The Student Chapter will function much like the parent chapter, in that it is planning to hold regular meetings, arrange visits to local technical companies and research laboratories, and conduct outreach programs directed towards the local high schools and freshmen entering SUNY Stony Brook as engineering majors. The parent chapter will be providing both moral and financial support to help the Student Chapter get off to a flying start. Already in place are the major office holders for this new venture:

President - Jason Trelewicz  
Vice-President - Christopher Jensen  
Treasurer - Laura Reilly  
Secretary - Bryn Elliott

## 2002-2003 CHAPTER OFFICERS

### Chairman

Henry White - (631) 632-3234  
Stony Brook University

### Vice Chairman

Mel Cowgill - (631) 344-2082  
Brookhaven National Laboratory

### Secretary

Lorraine Tawfik - (631) 277-2875  
Suffolk County Community College

### Treasurer

Peter Indrigo - (631) 589-6666 ext. 2617  
Unitron Incorporated

### Executive Committee Members

Chris Berndt - (631) 632-8507  
Stony Brook University

John Coyle - (631) 589-6666 ext. 2619  
Unitron Incorporated

Carl Czajkowski - (631) 344-4420  
Brookhaven National Laboratory

Gary Elgort - (212) 460-4693  
Consolidated Edison of NY

Perena Gouma - (631) 632-4537  
Stony Brook University

Rao Tipirneni - (631) 643-6792  
Long Island Testing Laboratories Inc.

Ken Trelewicz - (631) 244-6238

Long Island Testing Laboratories Inc.  
Al Wirth - (516) 333-7429

Retired

### ADVISORY

Biays Bowerman - (631) 344-2946  
Brookhaven National Laboratory

### EMERITUS

Richard Richards - (631) 567-6163  
Retired

Clifford Shaver - (631) 586-1842  
Retired