



LONG ISLAND CHAPTER

Volume 52 Issue 7

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

Sustaining Members Night and Emerging Professionals Night

When Wednesday, March 16, 2011 Where Mauricio's Orlando's II, St. James, NY

Topic: Direct Write Thermal Spray: A Novel Approach for **Fabricating Structurally Integrated Electronics** Speaker: Jason Trelewicz, MesoScribe Technologies, Inc.

Dinner ... 7:00 pm Social Hour ... 6 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 (631-589-6666)

WELCOME TO THE CHAPTER

Liudmila Nikitsina, Sulzer Metco

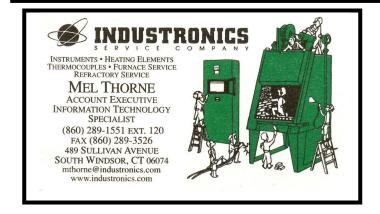
All new members, including those who have transferred in from another Chapter, are invited to dine free at a regular meeting of their choice. Please take us up on this offer - come along to the meeting and introduce yourself. This is an excellent way to meet with other Chapter members and to establish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

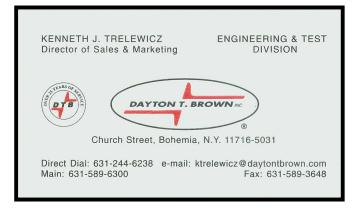
The Topic

Direct Write Thermal Spray is based on an innovative extension of traditional plasma spray technology, which is often used in depositing durable, harsh environment tolerant coatings. Implementation of patented hardware enables the fabrication of fine-feature patterns directly and conformally onto components from a broad range of sprayable materials. Using the Direct Write process, advanced sensors have been deployed for component health monitoring in harsh environments, including thermocouples, strain gages, heat flux sensors, and damage detection networks. Specific attributes of the process central to device integration will be described in the context of gas turbine and hypersonic engine instrumentation.

Our Speaker

Dr. Jason Trelewicz is a Program Manager at MesoScribe Technologies and assists with the marketing and transition of the Company's technologies to commercial products. He received his PhD from MIT in Materials Science and Engineering in 2008, specializing in nano-structured materials, protective coatings, and technology transition. While at MIT, he was a technical advisor to high technology start-up companies and also worked as an independent consultant on a variety of failure analysis programs. From 2003-2005, he was a metallurgical engineer at Dayton T. Brown Inc. conducting failure analysis and managing project schedules for a number of Department of Defense contracts. He has been involved in Materials Research & Development for 10 years, and has authored multiple technical publications in the areas of nanomaterials and harsh environment sensors. Noteworthy awards include recognition as the "Top Speaker" in the Electronics Technical Sessions at the 2010 Defense Manufacturing Conference, the 2004 SUNY Chancellors Award for Student Excellence, and the Barry M. Goldwater National Scholarship.

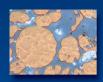




Carl Zeiss... for all your state-of-the-art Microscopy & **Digital Imaging** needs



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







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





LAWRENCE RIPAK CO., INC.

NDT • METAL FINISHING

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: Iripak@ripak.com

NONDESTRUCTIVE TESTING

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

CI FANING

- Passivation
- Abrasive Blasting
- Glass Bead Blasting Plastic Media Blasting
- Acid Pickle Cleaning
- **Akaline 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

Phone: 631-666-7750 DENISE A. MARCOCCIA Fax: 631-666-5347 e-mail: info@cladmetal.com Vice President





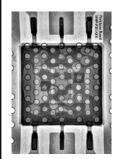
Alex M. Chi
President

48 Nancy Street
West Babylon, NY 11704
www.demetontech.com

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

WALDVOCEL 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

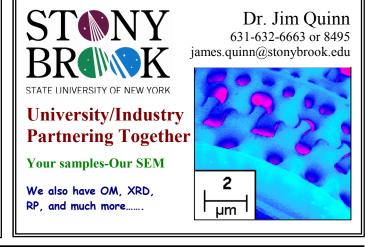
- Chemical Analysis
- Metallography
- Metalography
- Expert Testimonies
- Mechanical Testing
- Metallurgical Failure Analysis

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 Email: rao@litlab.com

e North Bahvlon New Yo



DIRECTIONS TO MAURICIO'S ORLANDO'S II

Take the LIE to the Sagtikos/SunkenMeadow Parkway (Exit 53) and proceed north. At the first interchange, go onto the Northern State Parkway (NSP) East, towards Hauppauge. The NSP ends in two miles and you enter Rte 347/454. Travel past the government buildings for two miles. At the split in the highways, bear left onto Rte 347 (Nesconset Hwy). After three miles, there are three intersections: Terry Rd, Southern Blvd, and Lake Ave. Take Lake Ave north (left). At Rte 25 (Jericho Tpk/Middle Country Road), go left. The restaurant is immediately there, next to the Volvo dealership. The street address of the restaurant is 645 Middle Country Road (Rt. 25); their phone number is (631) 265-9228.

Luca A. Servino

New England

Account Representative

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 • Sandy.Anderson@buehler.com







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 • Iservino@struers.com

Long Island Chapter Meeting Schedule

Apr. 27, 2011 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)

Mar. 24, 2011 Place: IBM Watson Research Center,

Yorktown Heights, NY Speaker: Terence Kane, IBM

April 28, 2011 Place: L'Affaire, Mountainside, NJ

Family & Awards Night

Speaker: James Michael, Copper

Development Association

Topic: Anti-Microbial Benefits of Copper

Long Island Metal Workers Society

(website http://www.limws.org)

LINITRON

Peter D. Indrigo Senior Vice President

1 73 Mall Drive

E Commack, NY 11725, USA Email: peterd@unitronusa.com Phone: 6.631-589-6666
Fax: 631-589-6975
Website: www.unitronusa.com

2010-2011 CHAPTER OFFICERS

[() – term expires]

Chairman (2011)

Jim Quinn - (631) 632-6663

Stony Brook University

Vice Chairman (2011)

Ken Trelewicz - (631) 244-6238

Dayton T. Brown Inc

Secretary (2011)

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 (2011) - (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 (2011) - (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 (2011) - (631) 344-2946 Brookhaven National Laboratory

EMERITUS

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