



LONG ISLAND CHAPTER

Volume 49 Issue 8

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

DOUBLE MEETING ANNOUNCEMENT

Wednesday, April 9, 2008 - Annual General Meeting

Where: Union Station Restaurant & Tavern, Smithtown, NY

Topic: Review of Senior Design Projects and Results

(oral and poster presentations by Stony Brook University Seniors)

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 (631-589-6666)

AND

Sunday, April 27, 2008 – Annual Wine Tasting and Dinner

Where: Martha Clara Vineyards

2 PM ... registration, chips, salsa & anti-pasta, followed by buffet dinner. There will be free wine (up to two cases) and we will raffle off two additional cases (all Martha Clara).

Cost: \$25/person - **RESERVATIONS REQUIRED** - call Ken Trelewicz (516-429-2992) or email ktrelewicz@DTB.com ASAP

The Topics

A Thermoforming Machine to Manufacture Plastic Body Panels for an Off-Road Vehicle (John Baglione)

An over/under type of thermoforming machine is described that comprises of three basic elements: an oven, a vacuum table, and a mechanism to move the plastic from the oven at the top to the vacuum table below.

Scatterflex (Saagar Govil, Eyal Bar-Kochba)

The development is reported of a flexible, non-heating light source suitable for the quantitative optical microscopy of biological tissues in-vitro or in-vivo. Two designs have been created: The first device consists of a polymer pouch containing a gel in which silica nanospheres are suspended, attached to a filtered fiber optic input. The second device is similar in principle but the suspending medium is solid silicone rubber.

Braille Watch (Mikael Marra, Angelica Tenazaca, Jennifer Jean)

Braille watches are of necessity touch-based, requiring that designs incorporate tough, touch-resistant materials. Classic designs involve two hands to indicate hours and minutes but unfortunately the hands tend to be brittle and subject to breakage through constant touching. A new design is proposed in which the hands are replaced by two concentric rings wholly supported by the base plate.

Car Safety System (C.S.S.) (Malav Mehta, Amr Sayed Ahmed)

The C.S.S. is designed to measure and analyze a driver's brain signals, and to activate an alarm system when it determines that the person is falling asleep.

Production of Porous Concrete Through Forced Air Injection (Xenophon Papasimakis)

Porous concrete is typically made using chemical admixtures or air-entraining materials such as porous rock or flyash. A new method of producing porous concrete is proposed, involving a design that uses compressed air to form air bubbles in concrete.

Implementation of an *in-situ* Dust Displacement Device Onboard the Next Generation Martian Rover (Scott Perl)

The cameras onboard the Martian rovers must be kept safe from the harsh environment in terms of dust contamination, mobility assessment, and localization. An *in-situ* solution for camera lens integrity is proposed involving a device that uses magnetic fields within the range of cameras' lenses to attract and later repel the ferromagnetic dust particles from the cameras' field of view.

WELCOME TO THE CHAPTER!

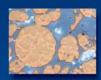
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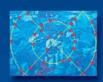
All new members, including those who have transferred in from another Chapter, are invited to dine free at a regular meeting of their choice. Please take us up on this offer - come along to the meeting and introduce yourself. This is an excellent way to meet with other Chapter members and to establish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

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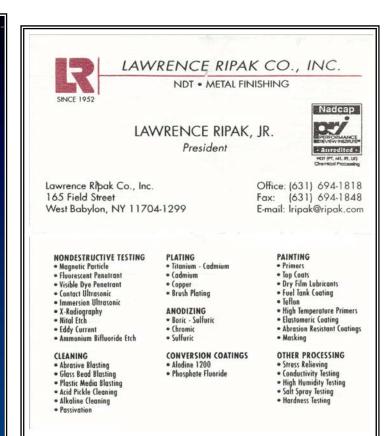






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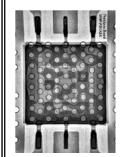


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DIRECTIONS TO THE UNION STATION RESTAURANT & TAVERN (via the LIE)

The Union Station Restaurant & Tavern is in the location spot previously occupied by the Burke & Shapiro Steakhouse. Take the LIE or the Southern State Parkway to the Sagtikos Parkway. Proceed northward on the Sagtikos Parkway, which eventually becomes the Sunken Meadow Parkway. Stay on the Sunken Meadow Parkway to Exit SM3E, Route 25 (Jericho Tpk.) East – Smithtown. Go east on Route 25 (Jericho Tpk.) for about 4 miles. You will pass under a railroad trestle and a statue of the Smithtown Bull. Keep going on Route 25 (uphill), passing through two traffic signals. JUST BEFORE the second railroad trestle, turn left on Elliot Place then, almost immediately, make the first right into the restaurant parking lot. The restaurant's address is 155 West Main Street; their phone number is (631) 265-3300.

DIRECTIONS TO THE MARTHA CLARA VINEYARD FROM THE LIE

The vineyard is located at 6025 Sound Avenue, between Northville and Mattituck. To reach it from the Long Island Expressway, the recommended (and simplest) route is to take Exit <u>71</u>. Make a left and go north on Edwards Avenue for approximately 3 miles, to the second traffic light. Make a right here onto Sound Avenue and head east for about 10 miles. The Martha Clara Tasting Room will be on your right. If you wish to contact them, their phone number is (631) 298-0075.

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CHAPTER MEETING SCHEDULE

Long Island Chapter

No more events or meetings scheduled for the rest of the 2007-2008 Chapter year. Enjoy the summer – see you again in the fall.

Metro NY-NJ Chapter

(contact Rich Lynch @ 201-891-8399)

Apr. 17, 2008 Place: L'Affaire, Mountainside, NJ

Family Night, Elections, Awards

May 22, 2008 Plant Tour: Metex Corporation

2008 John R. Weeks Scholarship Program

The Chapter makes available awards worth \$500 p.a. for up to four years for high school students planning to study materials science and engineering at a recognized university or community college. Application forms have been mailed to all Nassau and Suffolk county high schools but if you would like more information, contact Biays Bowerman (631-344-2946) (email bowerman@bnl.gov).

LINITRON

Peter D. Indrigo Senior Vice President

120-C Wilbur Place Bohemia, NY 11716 USA Email: peterd@unitronusa.com Phone: 631-589-6666 Fax: 631-589-6975 Website: www.unitronusa.com

2007-2008 CHAPTER OFFICERS

[() – term expires]

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ADVISORY

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