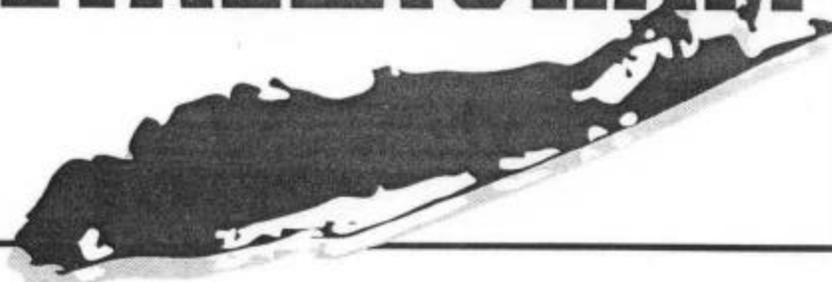




METALLAGRAM

LONG ISLAND CHAPTER



Volume 47 Issue 1

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

Next Meeting: Thursday, September 22, 2005

Where: Black Forest Brew Haus, Farmingdale, NY

Topic: *Hydrogen Fuel Cells*

Speaker: *Professor Hazem Tawfik, SUNY Farmingdale*

Followed by:

Tour of the Fuel Cell R&D Center at IRTT, SUNY Farmingdale

Meeting Start ... 6 pm (Wine & Beer 6-7 pm); Dinner ... 6:30 pm

Speaker ... 7-7:45 pm; Travel to SUNY ... 7:45-8 pm; Tour of Laboratory ... 8-9 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, ext. 2617)

****** IMPORTANT NOTICE ******

Please note that, in order to reduce surface mailing costs, the Executive Committee has decided to distribute the Metallagram in portable document format (PDF) via e-mail wherever possible. If you do not have an e-mail address or have not supplied one to us or to ASM International, you will continue to receive a hard copy of the Metallagram via the US Postal Service.

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The Topic

As the price of oil and natural gas continues to increase, reaching levels that threaten our local and national economy, the need to seek alternative sources of energy has become necessary to reduce our dependence on foreign oil and enhance homeland security. New York State has an abundance of renewable energies such as solar, wind, and bio-fuels that need to be explored for generating hydrogen that could be used for powering PEM fuel cells. The talk will address the different types of fuel cells and provide an explanation for the theory of operation of fuel cells. The metallic bipolar plates technology developed at the Institute for Research and Technology Transfer (IRTT) will be demonstrated with various applications that include Fuel Cell Hybrid Vehicle (FCHV), residential homes, solar powered trucks etc. The seminar will be followed by a tour of the fuel cells research and development center and fuel cell demonstrations.

Our Speaker

Dr. Hazem Tawfik obtained his Bachelor's and Master's degrees in Mechanical Engineering from the University of Alexandria, Egypt, in 1968 and 1974, respectively. In 1980 he received his Doctoral degree in Mechanical Engineering from the University of Waterloo, Canada. Since his graduation he has held numerous positions in industry and academia that included NASA Kennedy and Marshall Space Centers, US Navy Research Lab and Professor at Rensselaer Polytechnic Institute and MIT. He is presently a Professor at the State University of New York at Farmingdale and is also the Director of the IRTT.

JOHN R. WEEKS SCHOLARSHIPS

Congratulations to the winners of the 2005 John R. Weeks college scholarships:

Stanley Chiang (Great Neck North High School) – Stanley is going up to Harvard

Andrew Dean (Seaford High School) - Andrew is going up to Cornell

Applications for the 2006 program will become available in February, 2006. In brief, the scholarships are worth \$500 p.a. for up to a total of 4 years and are designed to assist students entering college with a stated intention of pursuing a career in materials science, materials engineering or materials technology program. More detailed information on the program can be obtained from the Scholarship Chairman, Biays Bowerman



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- Stress Relieving
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- Salt Spray Testing
- Hardness Testing

Directions to the Black Forest Brew Haus

From the north shore, take the Long Island Expressway to Exit 49 and go south on Route 110. After about 2 miles, turn left onto Smith Street - the intersection has a stoplight, there is a Hess gas station on the left and an entrance to the SUNY Farmingdale campus on the right. Proceed along Smith Street about 0.3 miles to the intersection with New Highway (aka Cpl. Tony Casamento Hwy). Turn left - the restaurant is located on your right after about 100 yards, at 2015 New Highway. From the south shore, take the Southern State Parkway to Exit 34 (New Highway) (if you're traveling westward) and make a right onto Cpl. Tony Casamento Hwy/New Hwy. The restaurant is on your right after about 3 miles. The restaurant's telephone number is 631-391-9500; their website - <http://www.blackforestbrewhaus.com/>

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Sharon Pavulaan, Commack HS/SBU
Vladimir Pilic, VP Induction
John Rathke, Advanced Energy Systems
YuWen Tsang, NYC Dept. Env. Protection

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.

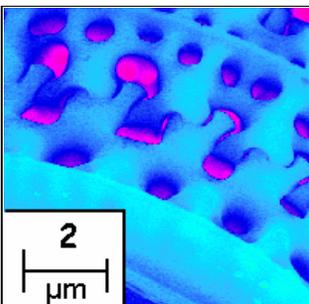
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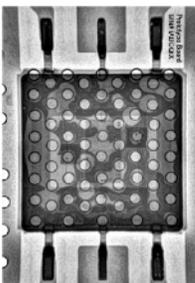
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CHAPTER MEETING SCHEDULE

Long Island Chapter

- Oct. 19, 2005** Place: Burke & Shapiro Steakhouse, Smithtown
Speaker: John Friel
Topic: ASTM Microscopy Standards
- Nov. 16, 2005** Place: Burke & Shapiro Steakhouse, Smithtown
Topic: SBU Student Presentations
- Dec. 7, 2005** Place: TBD
Speaker: John Twilley
Topic: Art Conservation
- Jan., 2006** Place: Brickhouse Brewery, Patchogue
Joint meeting with LIANS
- Feb. 15, 2006** Place: TBD
Speaker: Jim Quinn
Topic: Rapid Prototyping at SBU
- Mar. 15, 2006** Place: BNL
Tour of National Synchrotron Light Source
- Apr. 19, 2006** Place: Burke & Shapiro Steakhouse, Smithtown
Topic: SBU Student Presentations
- May, 2006** Place: Martha Clara Vineyards
Wine Tasting

Metro NY-NJ Chapter

(contact Rich Lynch @ 201-891-8399)

- Oct. 11, 2005** Place: Holiday Inn, Saddle Brook, NJ
Topic: Student Night
- Nov. 17, 2005** Place: SBU Manhattan
Speaker: Robert Vecchio
Topic: Failure Analysis
- Feb. 14, 2006** Place: L'Affaire Restaurant, Mountainside, NJ
Topic: Young Members Night

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