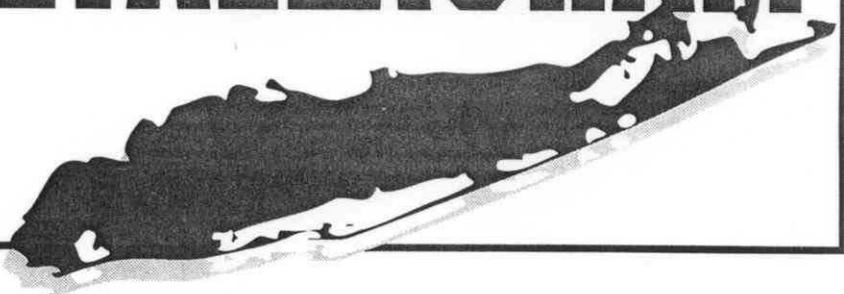




# METALLAGRAM



LONG ISLAND CHAPTER

Volume 47 Issue 6

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

## *Past Chairs Night*

**Wednesday, February 15, 2006**

**Where: Mauricio's, St. James, NY**

**Topic: Rapid Prototyping**

**Speaker: *Jim Quinn, Stony Brook University***

*Meeting Start ... 6 pm (Wine & Beer 6-7 pm)*

*Dinner ... 7:00 pm*

*Speaker ... 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, ext. 2617)**

### **DIRECTIONS TO MAURICIO'S ORLANDO'S II (via the LIE)**

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 full address of the restaurant is 645 Middle Country Road (Rt. 25); their phone number is (631) 265-9228.

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### **The Topic**

Rapid prototyping means 3D printing, building, and forming. Why bother with machining, extruding or molding models and components when you can PRINT them!

For the past one hundred years, prototypes were machined in a subtractive method that used milling machines, lathes, drill presses, EDM, etc. However, in recent years, there has been an accelerated shift to 3D printing or rapid prototyping/manufacturing, involving an additive method in which models, prototypes and even production parts are fabricated by the building up of layers using powder, liquid and fiber. Our speaker will discuss the development of this form of computer-aided design and manufacture, and talk about some of the output that can be obtained, examples of which can be seen elsewhere in this issue of the Metallagram.

### **Our Speaker**

Dr. Jim Quinn received his undergraduate degree in Physics from Stony Brook University in 1983. He obtained his doctoral degree in Surface Science, also from Stony Brook, in 1992 following research into the crystal structure of metal and semiconductor surfaces. From 1993 to 1994, he was a post-doctoral fellow at the Brookhaven National Laboratory where he was involved as a beam-line scientist at the High Flux Beam Reactor. Presently, Jim is the Director of Laboratories for Stony Brook in Materials Science. Among his many responsibilities, he does teaching, electron microscopy, diffraction and rapid prototyping

## JOHN R. WEEKS SCHOLARSHIPS

Applications for the 2006 John R. Weeks college scholarship program will be mailed to all high school principals in Suffolk and Nassau counties within the next two weeks. As in past years, two awards will be made available for high school students entering college in the fall of 2006 with the intention of majoring in a materials science or materials engineering subject. Each award is worth \$500 per year, renewable for up to four years. Last year's winners, Stanley Chiang of Great Neck North HS and Andrew Dean of Seaford HS, are already making use of their awards at Harvard and Cornell, respectively. If you know of any potential candidates for this year's awards, please bring this to their attention. For more information and additional application forms, please contact the Scholarship Chairman, Biays Bowerman (phone (631) 344-2946 or email [bowerman@bnl.gov](mailto:bowerman@bnl.gov) ).



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## WELCOME TO THE CHAPTER!

*Mikyung Chang, Brooklyn*  
*Phil Meyer, Sulzer Metco (US) Inc.*

*Neil Kennedy, Sulzer Metco (US) Inc.*  
*Michael Mueller, Sulzer Metco (US) Inc.*

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

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**Rapid Prototyping**



Jim Quinn's model of his new residence (cannons optional, not shown)



(l. to r.) Soo-Hyun Tark, Luis Jerez and Mintiwab Hill-James examine some rapid prototyping products



Does a famous society at Yale have a cell at SBU?

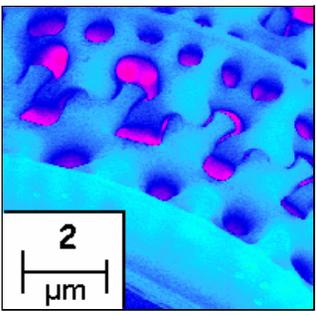
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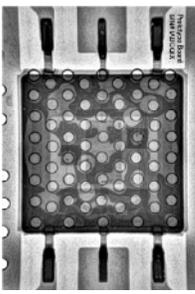
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## CHAPTER MEETING SCHEDULE

### Long Island Chapter

- Mar. 15, 2006** Place: BNL  
Tour of National Synchrotron Light Source  
Speaker: tbd
- Apr. 19, 2006** Annual General Meeting  
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)

- Feb. 14, 2006** Place: L’Affaire Restaurant, Mountainside,  
NJ  
Topic: Young Members Night
- Mar. 21, 2006** Place: L’Affaire Restaurant, Mountainside,  
NJ  
Topic: Joint meeting with ASNT and  
AWSI
- Apr. 19, 2006** Place: L’Affaire Restaurant, Mountainside,  
NJ  
Family Night; Awards Night; Elections  
Speaker: Peter Hanneforth  
Topic: Doing Business with China
- May 16, 2006** Plant visit

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