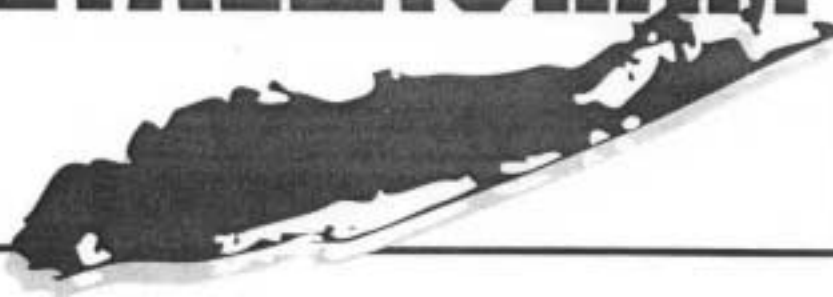




METALLAGRAM

LONG ISLAND CHAPTER



Volume 46 Issue 4

Past Chairs Night

Wednesday, February 16, 2005

Where: Burke & Shapiro Steakhouse, Smithtown, NY

**Topic: Cryogenic Proof Load Test Development
for the F-14 Arresting Gear Stinger**

Speaker: William Bradshaw, Dayton T. Brown, Inc.

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, ext. 2617)

DIRECTIONS TO BURKE & SHAPIRO STEAKHOUSE (via the LIE)

Take the LIE to the Sagtikos Parkway (Exit 53). Proceed onto the northbound 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 LIRR trestle and a statue of the Smithtown Bull. Keep going on Route 25 (uphill), passing through two traffic signals. JUST BEFORE the second LIRR trestle, turn left on Elliot Place. Make an almost immediate first right into the restaurant parking lot. The full address of the restaurant is 155 West Main Street and Elliot Place. Their phone number is (631) 265-3300.




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THE TOPIC

The loss of an F-14 aircraft during arrestment due to failure of the arresting gear prompted an engineering investigation not only into the immediate cause of the mishap but additionally a reevaluation of the proof load methodology then in place for the item. Over the six-month period following the mishap a team of NAVAIR, F-14 FST Jacksonville and Dayton T. Brown Inc. personnel developed and implemented a cryogenic proof load process to screen the inventory of F-14 stingers for flaws. A simple but somewhat novel method of cooling the stinger to -310° F was developed. Linear elastic fracture mechanics was employed to develop the revised proof load and interval.

OUR SPEAKER

William Bradshaw P.E. received his undergraduate degree in Civil Engineering from Bucknell University and his Masters Degree in Applied Mechanics from Polytechnic University. Mr. Bradshaw is currently the Engineering Manager at Dayton T. Brown Inc. for the Engineering and Test Division. Prior to joining Dayton T Brown Inc. he was a Senior Structural Engineer with Grumman Aerospace.

WELCOME TO THE CHAPTER!

Christopher Boyd, Flushing

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 establish new business and social relationships in the area.

JOHN R. WEEKS SCHOLARSHIPS

Applications for the 2005 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 2005 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. If you know of any potential candidates, 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).

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CHAPTER MEETING SCHEDULE

Long Island Chapter

3/16/05 Place: Brickhouse Brewery, Patchogue
Speaker: Peter Hanneforth, SpaCom
Topic: "Doing business in China"

4/6/05 Place: Stony Brook
Topic: AGM; Student Night

5/1/05 Place: somewhere in the North Fork
Wine Tasting

Metro NY-NJ Chapter
(contact Rich Lynch @ 201-891-8399)

3/24/05 L'Affaire Restaurant, Mountainside, NJ
Speaker: Debbie Aliya, Aliya Analytical Inc.
Topic: Thinking Skill Optimization in Failure Analysis

4/19/05 L'Affaire Restaurant, Mountainside, NJ
Speaker: Peter Hanneforth, SpaCom
Topic: "Doing business in China"

5/19/05 Plant visit to the Essex County Waste-to-Energy Plant.