

ASM International Philadelphia "Liberty Bell" Chapter Newsletter

(For optimum viewing and printing, this E-newsletter should be opened in Word and the margins In Page Setup changed to .25" for top, bottom and sides.)

Thursday, September 18, 2008 -- Opening Night

Spouses and guests are invited and welcome. Williamson Restaurant, Easton Road, Horsham, PA

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Technical Chairperson

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Meeting Sponsors:

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Dinner Menu

Buffet – Chicken Parmesan, Tilapia, Roast Top Sirloin of Beef, Parsley Potatoes, Caesar Salad, Peas with Mushrooms, Ice Cream Cake w/Chocolate Sauce

Social Hour – 6:00 - 7:00 p.m. **Dinner** - 7:00 p.m.

Price: Members & Guests: \$27.00; Retirees: \$18.00; Students: \$15.00

Meeting Registration Register to attend our meeting on our website www.asm-philadelphia.com. If you have a large group attending or do not have access to the website, please contact Don Jordan 215-721-1502 ext 206 to register.

Speaker: WILLIAM E. FRAZIER, PH.D.

Navy Senior Scientist for Materials Engineering, Naval Air Systems Command

Dr. William E. Frazier received his BS, MS, and Ph.D. degrees in Materials Engineering from Drexel University in 1981, 1984, and 1987 respectively. He is a graduate of the Naval Aviation Executive Institute's Senior Executive Management Development Program, and the Defense Systems Management College's Advanced Program Management Curriculum. He is a Level III certified member of the DoD Acquisition Professional Community.

Dr. Frazier has 28 years of experience in naval aviation materials engineering and science. He is the Senior Scientist for Materials Engineering at the Naval Air Systems Command, Patuxent River, MD. Dr. Frazier provides technical direction and develops strategic plans for the research, development, and transition of naval aviation technologies. He serves as the Command's primary scientific advisor and consultant in the discipline of materials science and is responsible for performing, stimulating, planning, coordinating and reviewing the scientific value of RDT&E of all materials and processes.

Dr. Frazier served as head of NAVAIR's Metals, Ceramics, and Nondestructive Evaluation Competency from 1995 to 2005. In that capacity, he was the NAVAIR authority responsible for safety-of-flight issues involving metals, ceramics, and NDE. Dr. Frazier is a recognized expert in (i) materials selection, qualification and certification, (ii) failure analysis, (iii) light alloy development, (iv), materials processing and manufacturing technology. He has authored more than 90 technical publications, edited 6 books, and holds two U.S. Patents. Dr. Frazier is a Trustee of ASM International (2003-2007). He is also an ASM FELLOW and a NAVAIR FELLOW, and a Peer Reviewer for: (i) the Journal of Materials Engineering and Performance, ASM, and (ii) the Journal of Advanced Materials, SAMPE, and a Key Reader for Materials Transaction A.

TOPIC: Naval Aviation Materials Technologies

Virtually every material selected and engineered for Navy and Marine Corps aviation is driven by the unique maritime operational requirements and harsh corrosive environment. Carrier based aircraft experience six times the structural loads of land based aircraft. Aircraft are designed for a landing sink rate of 27 feet/second and are catapult launch acceleration of 150 mph in 2.1 seconds. Further, the operational tempo in the Middle East has placed significant strain on deployed weapon systems and the Navy's maintenance system. Discussed are several materials technology approaches to mitigate the impact of corrosion and erosion on Navy aircraft, and to reduce the cost and turnaround time to effect repairs.

Chairperson's Message – September, 2008

Welcome to another stimulating season for the Liberty Bell Chapter of ASM International.

The summer has been chock full of networking opportunities with our various committees to wrap up a few details and plans for the year. Materials Camp was a rousing success as we began with over sixty applicants! Once again Drexel University did a stellar job instructing and feeding 24 well qualified candidates. Thanks to Tom Reid for his efforts as chair for Materials Camp once again. I had the opportunity to join the "campers", parents and instructors for the closing program. The camp reaffirmed the student's interests in pursuing a career in Engineering and Materials Science through hands on projects at Drexel and the detailed tour of Boeing Rotorcraft in Ridley Park.

Leadership days were back in Cleveland this year, after last year's session in Salt Lake City. Total immersions in the ASM Boot Camp on Friday led to the Leadership Day Program for the balance of the weekend. The enthusiasm for ASM was stimulating and the sessions were a barrage of useful information.

Please reserve some time to attend a few meetings during this ASM season for a valuable fellowship and networking experience.

Tim Steber
2008-2009 Chairperson



Chairperson Tim Steber receives the Chapter's Five Star Chapter award for 2007-08 from Dr. Chong of Boeing, ASM's International President.



Four former Chairmen enjoy the ASM-ASNT golf outing last June.

Welcome New Members

Marissa Berkowitz	Student	Eric Low	Gerdau Ameristeel
Barry Buchter	Student	Jordan Makansi	Student
Anthony Caramagno	Student	Kyle Mohen	Student
Harry Dattani	Dana Driveshaft Products, LLC	Christopher Norman	Student
Dr. E. DeHaas	Princeton University	Mel Ostrander	Rex Heat Treat - AL.
Robert DiDomizio	RAD Engineering Corp.	Joshua Poblano	Student
Dr. Peter Elliott	Corrosion & Matls. Consultants	John Scatton	Student
Frank Evans	Student	Fransisca Simanullang	Student
Todd Fath	Linde	Christopher Smith	Penn Engineering
William Garrison	Student	Samuel Swerr	Student
Walkiria Gonzalez	Student	Katelyn Taylor	Student
Gregorio L. Guerrero	Phila. Water Dept.	Rheal P. Turcotte	NASA
Julia C. Hess	Boeing Company	Colleen Turley	Student
Luis Hinojosa	Holtec International	Dennis Walsh	Student
Ryan Hydro	Newel Rubbbermaid-Graco Children Corp.	Patrick Walsh	Student
Kimberly Lawler	Student	Jesse Weiner	Student
Claire Levis	Student	Wenbin Zhao	Student
		Alcides Zumaran	RathGibson

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Best Wishes to the Philadelphia Chapter

Awards Announced at May 2008 Meeting

The following awards were announced at the May meeting:

Adolph Schaefer Special Achievement Award.	Ken Moyer
Delaware Valley Metals Person of the Year.	Philip Keidel
Meritorious Service Award.	Robert DeKalb
Metallurgical Engineering Assistants Award.	Mike Getty
Outstanding Company Support Award.	Boeing
Philadelphia Chapter Distinguished Service Award.	Don Jordan
President's Award.	Jim Watters
Young Member Award.	Sarah Mansuetti

The following two awards will be presented in 2008-09:

William Hunt Eisenman Award.	Robert Hill Jr.
Albert Sauveur Lecture Award.	Fred Schmidt, Jr., P.E., PH.D.

2008 Charles F. Burns, Jr. Postgraduate Poster Contest Winners

The annual C.F. Burns Memorial Poster Contest was held at the April meeting. Competing graduate students display a poster that describes their research activity. Each student then makes a three-minute presentation, which is followed by questions. The decisions regarding awards are made by a committee of three chapter members. Cash prizes are handed out during the meeting. The April 2008 winners were:

- First Place - Hakki Yegingil - Portable, Low Cost Piezoelectric Finger: Breast Cancer Detector
- Second Place - Holly McIlwee - Chitosan Thin Films for SPR and LSPR Sensing of Metal Ions
- Third Place - Joseph Capobianco - Detection of Protein in Diluted Serum Using Piezoelectric Microcantilever Sensor

2008 Scholarship Winners

The Philadelphia Chapter announced the award of three \$1500 scholarships at the May meeting. The awardees are:

- AW (Doc) Grosvenor Scholarship - Joan Berger - Drexel University
- Anthony Gallacio Scholarship - Eric Brenner - Drexel University
- Joseph J. Weisser Memorial Scholarship - Laura Lucca - Penn State

Materials Camp 2008

There were sixty applicants for our fourth annual camp held June 23 through June 27 at Drexel University. This was more than double the number for any of the preceding camps. In order to accommodate as many applicants as possible, we increased the size of the class from 20 to 24. Unfortunately because of the hands on activities of the program we could not accept more. This extremely well qualified group had an enjoyable learning experience. One of the highlights was a tour of the Boeing Rotorcraft Facility in Delaware County, PA. The plant manufactures helicopters and the V-22 Osprey for the military. The tour emphasized the use of composite materials in modern aircraft.

We gratefully acknowledge and thank Drexel University, Department of Materials Science and Engineering and Boeing Rotorcraft for making available their facilities and personnel.

We have started the planning process for the 2009 Materials Camp. Anyone interested in donating or attending can contact any of the Chapter officers or obtain additional information from our web site: www.asm-philadelphia.com.

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<p>Energy Cost Problems? Maybe We Can Help</p> <ul style="list-style-type: none">➤ Energy Prices Are Up.➤ Full Electric Dereg is Coming➤ Call us. We can analyze your usage for a low fixed fee, or we can structure it so that you only pay us if you save money.  <p>DVUA DELAWARE VALLEY UTILITY ADVISORS 1939 Armstrong Drive • Lansdale • 215-699-0690 dvua@comcast.net www.utilitycostconsultants.com</p>	<p>Supporting the work of ASM Philadelphia "Liberty Bell" Chapter</p>  <p>SOLAR ATMOSPHERES</p> <p><i>The Metal Processing Advantage</i></p> <p>800.347.3236 www.solaratm.com</p>
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MEI course –

The Career Development Committee is working on a course for Tuesday nights at SPS Technologies beginning in November. The subjects they are considering are: **Introduction to Metallurgy or Metallography**. Complete details will be included in next month's newsletter.

Upcoming Events

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|----------|-----------|---|---------|
| 9-18-08 | Thursday | Opening Night with ASNT
<i>Topic: Naval Aviation Materials Technologies</i>
Williamson Restaurant, Horsham, PA | 6:00 pm |
| 10-16-08 | Thursday | Young Members Night
<i>Topic: The Technology, Casting Methods and Sculpture of Leonardo da Vinci</i> | |
| 11-19-08 | Wednesday | Eisenman Award Night
<i>Topic: Creating A Unique and Profitable Heat Treating Facility within Seven Years</i> | |

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Mission Statement - ASM International, Philadelphia "Liberty Bell" Chapter

The Philadelphia "Liberty Bell" Chapter of ASM International supports the development and continuance of the materials industry in the Philadelphia area. Chapter activities strive to inform the local technical community of new developments in materials, raise the visibility of the materials industry, provide educational opportunities in materials technology, recruit new people and organizations into materials-related activities, and provide networking opportunities for members of the materials community. The Chapter works with ASM International to use our joint resources to accomplish this mission.

Changes To Your Membership Information - Any Chapter Member who needs to make a change to their membership listing or to their company affiliation listing must call Membership Service, ASM International at 1-800-336-5152 or use the ASMI website at www.asminternational.org. This will permanently update your information. We depend on ASM International to receive our updated e-mail list for this newsletter.

Do you have news... that should be shared with the other members of the "Liberty Bell" Chapter? If so, please send your info to Jim Watters at dvua@comcast.net. Be sure to add the phrase "Item to add to the ASM Chapter newsletter" in the subject line. We'll be sure to include it in the next monthly Chapter newsletter.

For more info about the ASM Liberty Bell Chapter. . .

Contact Chapter Chairperson Tim Steber at 215-721-1502 x 216 or email him at tms@solaratm.com.