**Buffet Menu:**
Chicken a la King with Glazed Peach, Salmon Chardonnay, Roast Top Sirloin of Beef Bordelaise, Fresh Garden Salad, White & Wild Rice Mix, String Beans Almondine and Strawberry Sundae.

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

Spouses and guests are invited and welcome. Meetings held at Williamson Banquet, on the corner of Rt. 611 (Easton Road) and Blair Mill Rd., Willow Grove, PA 19044. For directions: [www.williamsonrestaurant.com](http://www.williamsonrestaurant.com).

**Meeting Registration:** PLEASE NOTE!!
Reservations must be made no later than 5 pm on the Tuesday before the meeting to guarantee dinner availability. Register to attend our meeting on our website [http://philadelphia.asminternational.org](http://philadelphia.asminternational.org). If you have a large group attending or do not have access to the web site, please contact Don Jordan at 215-721-1502 ext 206 to register.

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**SPEAKER:**
DR. DIANE CHONG, PH.D., FASM  
Vice President, Materials, Manufacturing, Structures & Support, Boeing Engineering, Operations & Technology, Boeing Co.

**TOPIC:** The 787 Dreamliner - Innovations in Design

Dr. Dianne Chong is the Vice President of Materials, Manufacturing, Structures & Support in the Boeing Engineering, Operations & Technology organization. In this position she leads the organization responsible for development and support of manufacturing processes and program integration for the Boeing Enterprise.

Prior to this she was the Director of Materials & Process Technology for Boeing Commercial Airplanes. Dr. Chong was also the Director of Strategic Operations and Business for IDS Engineering. In this capacity, she was the lead director defining and implementing a solid strategy for all Boeing Engineering. She has also been the Department Head / team leader of MSE, liaison, and process control groups in Phantom Works and Integrated Defense Systems.

Dr. Chong received Bachelors degrees in biology and psychology from the University of Illinois. She also earned Masters degrees in physiology and metallurgical engineering. In 1986, Dr. Chong received her Ph.D. in Metallurgical Engineering from the University of Illinois. She also completed an Executive Master of Manufacturing Management at Washington University.

Technical Chairperson: John Janiszewski, LTK Engineering Services

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**PLEASE NOTE!!**
Next month’s ASM Liberty Bell Chapter meeting - Young Members Night will be held at Drexel University on Thursday, November 21. More details to follow in next newsletter.

Dr. Chong has served as the St. Louis representative to Military Handbook 5 where she has chaired the Aerospace Users’ Group and the titanium casting group. Dr. Chong is a member of TMS, AIAA, ASM International, SME, SWE, Beta Gamma Sigma, and Tau Beta Pi. She has been recognized for managerial achievements and as a diversity change agent. She was also recognized as an outstanding alumna of University of Illinois in 2006. Dr. Chong has been a member of the National Materials Advisory Board. She has served on the Board of Trustees and is a Fellow of the ASM International. In 2007-08, she served as the President of ASM International. Dr. Chong is currently serving on the NAS Board on Global Science and Technology and is a commissioner to the ABET EAC. In 2010, she received the AAEOY award for corporate management. She is also a Fellow of SME. Dr. Dianne Chong is the Vice President of Materials, Manufacturing, Structures & Support in the Boeing Engineering, Operations & Technology organization. In this position she leads the organization responsible for development and support of manufacturing processes and program integration for the Boeing Enterprise.

**Technical Chairperson:** John Janiszewski, LTK Engineering Services

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Chairperson’s Message

October, 2013

The October meeting for the Liberty Bell Chapter is upon us. Last month we had a great and lively presentation from Mr. John Tirpak (FASM), speaking about the H. L. Hunley submarine. This month we have Dr. Diane Chong as our speaker. She is the Vice President of Materials, Manufacturing, Structures, & Support for Boeing's Engineering, Operations, & Technology Department. Her presentation is on the Innovations and Design of the 787 Dreamliner. I’m personally interested to learn about the use of composites as the primary material in these aircraft.

Please remember that our November meeting is our Young Member’s Night and will be held at Drexel University on Thursday, November 21st. This is a very popular meeting and we have students from all over the Philadelphia area. There will also be some presentations from Ph.D. candidates.

There will be some bragging rights to be had when my alma mater takes on the Penn State Nittany Lions on Saturday, October 12th. I’m sure it will be a great fall game in Happy Valley. Go Blue!

Sincerely,
Brian Gorney
2013-2014 Chapter Chairperson

Upcoming Events...

1-16-14 Thursday  Sauveur Award Night - Topic: Hydrogen Embrittlement Matters, Williamson Banquet, Willow Grove, PA
1-2014  MEI Course - Fundamentals of Failure Analysis, scheduled to start in Jan. 2014 - details to follow

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Solar Atmospheres Presents Vacuum Furnace To ASM Teaching Facility

On Saturday, July 20, 2013, a new vacuum furnace, donated by the Solar Atmospheres, Inc. companies, was dedicated in an official ribbon-cutting ceremony at ASM headquarters in Materials Park, OH. This lab-sized furnace was designed and built by Solar Manufacturing for use in ASM’s Teaching Lab and is named “The Mentor.” This $250,000 gift was made by Solar in commemoration of ASM International's 100th anniversary.

Mr. Roger Jones, corporate president of Solar Atmospheres and several other company representatives attended the celebration which was a part of ASM’s Annual Chapter Leadership Days and the ASM Materials Education Foundation’s Eisenhower Materials Camp. Thomas Passek, managing director of ASM presented a plaque to Solar and stated, “ASM is indebted to the Solar Atmospheres family for your generosity in helping us advance the ‘life-long learning’ of young people and materials professionals. It is these types of partnerships that will help us fulfill our mission and insure that there is a sustainable and qualified workforce moving forward.”

As part of the 2013 Materials Camp, attending students were excited to have the honor of being the first people to work with “The Mentor” which they used to learn about failure analysis. They expressed their appreciation in a thank you letter with comments that included, “Your contribution to the materials camp made a significant impact on my amazing experience here. Without your donation, it would not have been the same. Thank you.” and “…thank you for investing in the future of science and in today’s youth.”

Mr. Jones states, “This was certainly an exciting time for me. Seeing the furnace installed, all the fantastic comments from ASM and staff, and the comments by the students, was breathtaking. It will certainly be an honor as I become President of the ASM Heat Treating Society in September, and have the opportunity to celebrate ASM International’s 100th Anniversary with you.”

“The Mentor” is a horizontal, internal quenching furnace with a hot zone that measures 12” wide x 12” high x 18” deep and is capable of operation to 2400°F. The hearth will accept a load of 250 pounds. Featuring state-of-the-art vacuum furnace technology, this furnace will allow students to perform a wide variety of tests and experiments relating to vacuum heat treating, brazing and sintering processes. It will also give them a hands-on understanding of the value and advantages of using vacuum over other heat treating equipment.
The Virtual ASM Meeting

Due to problems with traffic and commuting time/distance, that chapter members from New Jersey have a difficult time making it to the meetings at Williamson's. At its September 2013 meeting, the Executive Committee decided to investigate having a virtual meeting at a New Jersey location. The plan is to have the business and presentation portions of the meeting broadcast from Williamson’s to the New Jersey location.

As the first step in this process, we would like to determine the best location and format for such a meeting. If you would be interested in attending or helping to plan a remote virtual meeting, please reply to John Janiszewski at jjaniszewski@ltk.com or 215-641-8849.

In your reply, please provide your thoughts about the following items:

- Suggestion(s) for the location-town or general location. If you know of a restaurant, company, or learning institution that could serve as the location, please indicate that too. If you have a contact person to suggest, so much the better.
- The extent of the meeting-dinner before, capability to ask questions remotely, etc. How much are you willing to pay for a dinner?
- Suggestion for the meeting moderator/coordinator.
- How many meetings per year should be done this way?
- Would you be willing to help plan and conduct such a meeting?

Based on the level of interest, the Executive Committee will determine the next step(s) to take. We would like to try to have at least one such meeting this year, so replies by November 1 would be appreciated.

This Year’s MEI Course
Please check next month’s newsletter for complete details and sign-up sheet for this year’s MEI Course offering in January 2014 - Fundamentals of Failure Analysis

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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.

For more info about the ASM Liberty Bell Chapter...  
Contact Chapter Chairperson Brian Gorney at 800-219-9095 or email bgorney@labtesting.com.

To ensure you receive your E-newsletter and yearbook:  
Please update your membership listing or your company affiliation listing. You can do this by calling Membership Service, ASM International at 1-800-336-5152 or using the ASMI website at www.asminternational.org. This will permanently update your information. We depend on ASM International to receive our updated Chapter roster.

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