Since World War II several nations installed competing and complementary heavy, closed die forging presses. This family of presses represents major capital investments in truly enabling forging technology, yielding extremely large and efficient monolithic structures exploited throughout the world, especially in the aerospace industry. Upon review of the history of this class of presses it became apparent that all of these historic, heavy, closed die forging presses deserve recognition. In 2013 ASM International and the Forging Industry Association selected this family of unique forging equipment as ASM International Historic Landmarks. This presentation explores the past, present, and future of these presses especially as they relate to aerospace applications. At present this family produces a variety of intriguing parts. The future of behemoths is quite interesting with respect to replacement, upgrades, and competition. Although alike in several ways, each press is different with its own respective design features, manufacturing capabilities, technical achievements, and supporting cast of people. This presentation prompts us to remember that "big metal" will be around for a long time to come.

Mr. Jon Tirpak of SCRA Applied R&D Advanced Materials Division in Summerville, South Carolina is ready to serve ASM International as President of the Society from 2015 to 2016. As a senior volunteer leader of the Society, he will be leveraging his decades of materials and metallurgical engineering experience. At SCRA Applied R&D, he is

Continued on page 2

**Meeting Cancellation Notification**

In the event of cancellation of a meeting due to inclement weather, we will broadcast the news as part of KYW News radio's (1060AM) Storm Center Service. ASM cancellations will be specifically announced when KYW airs community cancellations at :20 and :50 past each hour during the afternoon of the day of the meeting. ASM's name will be specifically mentioned, so listen for the name rather than an organization number as is used for schools.

**Technical Chairperson:** Jamie Jones, Solar Atmospheres, Inc.

**Meeting Sponsors:** Ipsen Inc. and Metlab Corp.
Chairperson’s Message

March 2016

As winter is coming to an end, we are also on the home stretch for our current ASM Chapter year. The forecast for the coming week is close to 70 degrees - so spring is on the way!

I want to thank everyone who came out last month for our Continuing Education Night. Mr. George Vander Voort had a very informative presentation on the thermal exposure to the lower head of the Three Mile Island Unit 2 reactor.

This month's meeting is special for many reasons. We will start to enjoy daylight savings time next week, it is St. Patrick's Day, and it is also National Officers Night. We have Jon D. Tirpak, PE, FASM, President of ASM International presenting this month. Jon will be speaking about Heavy Closed Die Forging Presses of the World – ASM Historic Landmarks.

I hope to see you this month, March 17th at Williamson's Restaurant. This will be another great night to come out and bring a friend or colleague to the meeting. Social hour starts at 6pm.

Regards,

Jamie Jones

2015 – 2016 Chapter Chairperson

---

Speaker continued from page 1

responsible for investigating, developing and implementing processes and technologies within the nation’s foundry and forging industries, to reduce lead times and costs and to improve quality of complex metal shapes. He is the Executive Director of the Forging Industry Association - Department of Defense Manufacturing Consortium and Program Manager of the Defense Logistics Agency’s FAST Program. Mr. Tirpak earned his BS in Metallurgical Engineering at Lafayette College in Easton, PA and his MS in Materials Engineering at the University of Dayton in Dayton, OH. He was commissioned by the US Air Force in 1982 as a 2nd Lieutenant, working on structural failure analysis on various systems while serving at the Air Force Materials Laboratory. His second tour within the Ballistic Missile Office involved integrating the Air Force’s nuclear testing requirements which involved myriad materials and systems ultimately tested beneath the ground at the Nevada Test Site. In 1988, he departed the Air Force as a Captain, trading his blue uniform for green hiking togs to hike the entire Appalachian Trail from Georgia to Maine. After completing the trail and traveling extensively through Europe and the States, he resumed his materials engineering career with a position at Universal Technology Corporation in Dayton, OH and then to Aeroquip Corporation in Ann Arbor, MI. Ultimately he landed in Charleston, SC with SCRA Applied R&D leading programs and developing new business for the company. He is a licensed metallurgical engineer in South Carolina and Fellow of ASM International. Mr. Tirpak has chaired the New Products and Services Committee and the Federal Affairs Committee in addition to being a member of many other committees throughout the Society culminating in his selection as Vice President. He is excited to return to the Liberty Bell Chapter for an encore presentation.
C. F. Burns Poster Contest
The Liberty Bell Chapter will be holding its 15th annual poster contest for graduate students during our Sustaining Members Night on Thursday, April 21, 2016. This will be the 12th year the contest is sponsored by Solar Atmospheres, Inc. and prize money will be $500 for 1st Place, $300 for 2nd Place, and $200 for 3rd Place. Due to limited space, we are asking students to pre-register. Space will be awarded on a first come, first serve basis. Please register your name and poster title with Mike Moyer at mikem@solaratm.com or call him at 215-721-1502 x1207. Good luck to everyone!

Welcome New Members...
Mark Scott | Brightfine LLC
Brian Gorney | Dana Corp
Sustaining Co. Member
Craig W. Skinner | Robert Wooler Co.

Sustaining Members Expo
The Sustaining Members Expo will be April 21, 2016 at 5:30 pm! Come and see what your fellow ASM Member Companies have to offer. If your company has a Sustaining Membership with the ASM Liberty Bell Chapter, don’t forget to sign up to participate in the Expo.

If you are not a current ASM Sustaining Member, and want more information on how to become a Sustaining Member with the Liberty Bell Chapter, or if you are a current Sustaining Member and have questions about upcoming Sustaining Member events: Contact Sarah Mansuetti: email -sarah.mansuetti@rexht.com phone: 215.855.1131 x221.

Delaware Valley Science Fairs Judges Needed
Once again this year, ASM chapter members will be involved in judging the Delaware Valley Science Fairs. March 30, 2016 is the judging day for students in grades 8-12. The DVSF is an annual competition for middle and high school students from eastern Pennsylvania, Delaware, and southern New Jersey. In addition to selecting the recipients of ASM prizes for materials-related projects, some members have assisted in judging categories such as physics, chemistry, and engineering. The ASM award medals will be handed out at the awards ceremony on March 31.

But, more judges are always welcome. The judges are all volunteers and come from a variety of technical areas, including industry, education, and research. Although there is not a specific materials category, your materials background qualifies you for a variety of areas. So, in addition to helping the DVSF, you could help the chapter further its educational goals by being a judge. This year’s fair will be held at the Greater Philadelphia Expo Center in Oaks, PA. If you are interested in being a judge, you can sign up at http://www.drexel.edu/dvsf. If you need more information about judging, or some encouragement, talk to John Janiszewski (jjaniszewski@ltk.com or 215.641.8849).

2016 Materials Camp
We are accepting applications for our 12th Annual Materials Camp at Drexel University on June 20-24, 2016. Each year there is a strong demand for the camp, with between 75 and 100 applicants over the last few years. With between 20 and 25 slots available, it is very competitive. The very best engineering-oriented students in our region are being served by our camp. As a result of their experiences at camp many are pursuing a Materials Engineering career.

The program is one our Chapter is extremely proud of. It really makes a difference in the lives of the students. We depend on the generosity of local companies and individuals to continue providing this priceless learning experience. Please contact Brian Gorney at 586-354-5167 or gorneybj@gmail.com to become a sponsor and have your company linked to this wonderful program. Students may apply for the 2016 Materials Camp by downloading the application on the Outreach tab of our website at http://www.asminternational.org/web/philadelphia-chapter/student-outreach.
30th Annual Golf Outing - Monday, June 6, 2016

Hosted By: The Greater Philadelphia Section of ASNT

Closest to the Pin, Longest Drive, Putting Contest
Registration - 7:00 a.m.  Golf - 8:00 a.m. (Shotgun Start)
Buffet - 1:30 p.m. at the
LIMEKILN GOLF CLUB - 1776 Limekiln Pike, Ambler, PA  215-643-0643
IN CASE OF RAIN PLEASE CALL LIMEKILN GOLF CLUB

The 30th Annual Golf Tournament has been scheduled and reservations are now being taken. The cost of this outing is only $95.00, if paid by May 30, 2016, $100.00 if paid after May 30, 2016. Price includes golf fees, golf cart, buffet, refreshments, and prizes.

Hole Sponsors are being sought for this event at all holes. The cost of becoming a Hole Sponsor is only $85.00. A "Sponsor Sign" is included in the cost and will be displayed at your hole.

30th Annual Golf Outing - Monday, June 6, 2016
Registration Form

RSVP: Golf/Hole Sponsor by May 30, 2016
Cost:  $95:00 - Golf & Buffet ______ (Number)       $85:00 - Hole Sponsor ______
Foursome:
Name: ______________________________Name: ______________________________
Name: ______________________________Name: ______________________________
Amount Enclosed: __________ Checks Payable to "Greater Philadelphia Section of ASNT"


Return to: Golf Committee:
Anthony Gatti, Sr.  Anthony Gatti
7525 Brous Avenue  215-338-6072; cell- 267-251-8808
Philadelphia, PA 19152  agattisr@yahoo.com

Directions to Limekiln Golf Club: Limekiln Golf Club is located in Horsham Township, Pennsylvania, on Limekiln Pike (Rt.#152), ½ mile north of Horsham Rd.(Rt.#463). Heading north, the driveway is on the right side of Limekiln Pike, across from Whitemarsh Memorial Park.
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.

To ensure you receive your E-newsletter and yearbook: update your membership listing or your company listing 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.

Check us out on Facebook at:

Check us out on Linked-In at:
http://www.linkedin.com/groups?mostPopular=&gid=2897863

Check out our website at: http://philadelphia.asminternational.org

2015-2016 Upcoming Events . . .

3-17-16 Thursday National Officers Night, Topic: Heavy Closed Die Hydraulic Forging Presses, Williamson Banquet, Willow Grove, PA

4-21-16 Thursday Sustaining Members Night, Topic: Sustaining Member Expo, Williamson Banquet, Willow Grove, PA

5-19-16 Thursday Honors & Past Chairmen Night, Williamson Banquet, Willow Grove, PA

6-6-16 Monday 30th Annual Golf Outing - Limekiln Golf Club

2016 Sustaining Members
A.L. SINGMASTER PERSONNEL SVC.
APOLLO DESIGNS
B&G MANUFACTURING COMPANY, INC.
CONSULTING ENGINEERS & SCIENTISTS, INC.
CORROSION TESTING LABORATORY
CRAIG CLAUSER ENGINEERING CONSULTING, INC.
DANA CORP.
DELAWARE VALLEY UTILITY ADVISORS
DONOVAN HEAT TREATING COMPANY, INC.
ECRI-MSLB
EDWARD A. BOLL CO., INC.
EXELON POWERLABS
FREDERICKS COMPANY/TELEVAC DIVISION
HOEGANAES CORPORATION
IPSEN INC.
LABORATORY TESTING INC.
LECO CORP.
MAGNA-TECH P/M LABORATORIES
METLAB CORP.
PENN STAINLESS PRODUCTS
PRECISION TECHNOLOGY
PRESSURE TECHNOLOGY, INC.
RAMBALL TESTLAB, INC.
REX HEAT TREAT
SOLAR ATMOSPHERES INC.
SOLAR MANUFACTURING INC.
STRUCTURE PROBE INC.
STRUERS INC.
SUPERIOR TUBE COMPANY
TINUO OLSEN TESTING MACHINE CO., INC.
ROBERT WOOLER COMPANY

Institutional Members
DREXEL UNIVERSITY
TEMPLE UNIVERSITY
UNIVERSITY OF PENNSYLVANIA
VILLANOVA UNIVERSITY
WILLIAMSON COLLEGE OF THE TRADES