

ASM International
Philadelphia "Liberty Bell" Chapter

Newsletter

www.asm-philadelphia.com

Thursday, February 19, 2004

Eisenman Award Night

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



Speaker:

Alan Lawley
Department of Materials Science & Eng., Drexel University

Topic:

From Metals to Materials:
The Evolution of a Discipline

Alan Lawley, Professor Emeritus and formerly the Grosvenor Professor of Metallurgy in the Department of Materials Engineering at Drexel University, received B.Sc. and Ph.D. degrees from the University of Birmingham, England. He was a Post-Doctoral Fellow at the University of Pennsylvania (1958-1961), Manager of the Solid State Laboratory at the Franklin Institute (1963-1966) and Head of the Department of Materials Engineering (1969-1979) at Drexel University.

He is a member of the National Academy of Engineering, a Fellow of APMI International and ASM International, a former President of the Metallurgical Society (1982) and of AIME (1987), has consulted extensively for government and industry, and served as a member of the National Materials Advisory Board. He received the Distinguished Service to Powder Metallurgy Award of the Metal Powder Industries Federation (1991), the Jenkins

Award of the Institute of Materials (1996), the ASM Albert Easton White Distinguished Teacher Award (1982), the ASM Gold Medal (1996), and the TMS Educator Award (2002). He is Editor-in-Chief of the International Journal of Powder Metallurgy.

Professional interests and activities involve teaching and research in the areas of physical and mechanical metallurgy, powder metallurgy, composite materials, materials engineering design, and engineering education. His research focuses on the relationship between processing, microstructure and mechanical properties of monolithic and composite materials utilizing modeling approaches coupled with experimental techniques. He has lectured and published extensively in the areas cited.

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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

Toni Brigger
Carpenter Technology Corp.

Dinner Menu

Snapper Soup
Fresh Garden Salad
Grilled Breast of Chicken Florentine
Oven Browned Red Skin Potatoes
Caesar Peas
Sweetheart Sundae

Social Hour

6:00 - 7:00 p.m.

Dinner

7:00 p.m.

Price: Members: \$22.00; Retirees:
\$15.00; Students: \$10.00



Reservations are necessary -

Call: (215) 643-3369 (OH-DE-FOX)

Please don't call if you have already reserved via our web site link at

www.asm-philadelphia.com

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SPS Technologies

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

Contact Chapter Chairperson Jim Watters
at 215-699-0690 or email: dvua2@cs.com.

Do you have news...

that should be shared with the other members of the "Liberty Bell" Chapter? If so, please send your info to Anna Whitehead at her email address:

aj.whitehead@att.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.

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 mailing list for this newsletter. So please do not sent information to the return address on this newsletter.



Chairperson's Message

February, 2004

We were all set to host our National President, Dr. Robert Tucker, at the January meeting. Unfortunately, Dr. Tucker came down with the flu and had to cancel at the last minute. We were fortunate to have Dr. Rick Knight of Drexel fill in at the last minute. Dr. Knight spoke on the same topic, Thermal Spray Processes and Coatings. He did a great job. We also had a Drexel grad student, Milan Ivosevic, give a "coffee talk" during dessert about his work on Thermal Spray. Both Rick and Milan were well received.

We have three more excellent speakers lined up, including our own Alan Lawley who will speak this month on the "Evolution of Materials Science as a Discipline" on the 19th. Next month we will have Alex Wilson speaking about High Performance Steels for Bridges. In April we will have Dr. John Fisher from Lehigh who will give us an insider's view of the World Trade Center structural collapse. We have also firmed up arrangements for our annual Spring Dinner Dance. More details can be found in this newsletter. We look forward to your participation at these upcoming events.

I am proud of the increase in involvement this year by the area's educational institutions. Our newsletter has announcements about scholarships, Materials Camp, and a graduate poster contest. Two of our speakers for this year come from Drexel, Penn, and Lehigh. Dr. Jen from Villanova has accepted responsibility for our scholarship program. Two of our Executive and Operating Committee members are Drexel students. We have had the opportunity to tour the Williamson Free Trade School. One of our "coffee talks" originated with DeSales University and was geared to employee training. Several more efforts are currently underway to increase involvement at other area institutions. The credit for this increased involvement goes to our Program Chair John Janiszewski, our Vice Chair and former Scholarship and Young Members Chair Scott Nyce, last year's chair Don Jordan, Jeff Waldman, and many others. The chapter has made a series of decisions over the past few years that led to this increased involvement as well as to a number of financial commitments to support our students and our educational institutions.

We are just now starting to line up members, committee chairs, and officers for next year.

We would welcome your participation. With just a couple of hours a month you can be a co-chair or vice chair of a committee, you have a chance to review scholarship applications, or you can be involved in initiating new programs and new directions for ASM for the future. I hope you will consider this, and we all hope you will join us for this month's meeting as well as the ones to follow.

Respectfully submitted,

Jim Watters

Upcoming Events...

2-19-04	Thursday	Eisenman Award Night - From Metals to Materials: The Evolution of a Discipline <i>Speaker: Alan Lawley - Williamson Restaurant, Horsham, PA</i>	6:00 pm
3-18-04	Thursday	Albert Sauveur Night - Development of High Performance Steels for Bridges <i>Speaker: Dr. Alex Wilson - Williamson Restaurant, Horsham, PA</i>	6:00 pm
4-3-04	Saturday	Spring Dance <i>Sorella Rose in Springfield Hotel, Flourtown, PA</i>	
4-15-04	Thursday	Sustaining Member Night - World Trade Center Building Performance Study <i>Speaker: John W. Fisher- Williamson Restaurant, Horsham, PA</i>	6:00 pm
5-20-04	Thursday	Honors & Past Chariman Night - Dedicated to All Past Chairpersons <i>Williamson Restaurant, Horsham, PA</i>	6:00 pm
6-7-04	Monday	Golf Outing	8:00 am

Liberty Bell Chapter Spring Dance

This year's Spring Dance will be held on Saturday, April 3rd at Sorella Rose in the historic Springfield Hotel in Flourtown. The cost is \$55 per person. Please come join us for an evening of fine dining and dancing. For more information please contact Rob DeKalb at Robert Wooler Co. at 215-542-7600.



Materials Camp for High School Juniors & Seniors

ASM International is sponsoring a one week residential Materials Camps for High School Students again this year. One camp session will take place in Toronto, Canada July 4-11, 2004. The second session will take place at Materials Park, Ohio August 9-15, 2004.

A significant change to the program this year is that each selected High School Student will be responsible for transportation costs to and from the camp site.

Students are provided with free lodgings, meals and entertainment plus an exposure to applied mathematics, physics and chemistry reinforced by a hands-on learning experience. Students that will be entering their Junior or Senior year in the fall of 2004, in good academic standing, and with an interest in the sciences are ideal candidates for the Materials Camp.

Applications may be downloaded from the internet at: www.asminternational.org/foundation. You must act right away, because applications were due on Jan. 31st. Please call Herb Lewis if you are still interested. He can be reached by telephone at (609) 984-6672 or by e-mail at: hlewis@deptcor.state.nj.us.

ASM Scholarship Applications

In the academic year of 2003-2004, the Philadelphia Liberty Bell Chapter will provide three scholarships (\$1500.00 each) to college engineering students who intend to pursue a career in Materials Science. All eligible students are encouraged to apply. One full-page essay (single spaced, Arial font, with font size between 10 to 12), stating his/her commitment to the Materials Science profession, will be required. Please contact Dr. Kei-Peng Jen at Villanova University for the application form and details (e-mail: kei-peng.jen@villanova.edu). The deadline for application is March 1, 2004.



C.F. Burns Poster Contest

The Liberty Bell Chapter will be holding its 3rd annual poster contest during our Sustaining Members Night, 4/15/04. This will be the first year the contest is sponsored by Solar Atmospheres. Prize money will be \$500 for 1st Place, \$300 for 2nd and \$200 for 3rd. Due to limited space, we are asking for students to pre-register this year. Space will be awarded on a first come, first served basis. Please register your name and poster title with Scott Nyce (email dsn@solaratm.com). Good Luck to everyone!

Samuel Yellin Ironwork Exhibition

*Devil with a Hammer in His Hand:
The Monsters of Samuel Yellin*
On view through Feb 29th, 2004

The Rosenbach Museum & Library presents this exhibition of ironwork creatures (monsters, gargoyles & devils) forged by Philadelphia's foremost artisan in iron. Many of the objects welcome visitors to touch them, making this exhibition a visual and tactile treat. The Yellin forge continues to operate today in Bryn Mawr, PA, under the direction of Yellin's granddaughter Clare.

Where:

Rosenbach Museum & Library
2008-2010 DeLancey Place
Philadelphia, PA 19103
215-732-1600
info@rosenbach.org
www.rosenbach.org

Hours:

Tues. - Sun., 10-5, Wed. 10-8; closed Mon. & national holidays

Admission:

Adults \$8, students/seniors \$5, members/children under 5 free (includes exhibitions on view and a guided tour of the historic Rosenbach house)

Group tours available:

Call 215-732-1600 for details and group rates

Chapter Meeting Sponsors

We were unable to secure February meeting sponsors before the deadline for this newsletter. For anyone who was contacted and is still waiting for company approval etc., there are March, April and May openings to be filled. Meeting sponsors get recognition at the meeting and help defray the cost of speaker's gifts and meals and the subsidy the chapter pays for each person attending, especially the students. Anyone who was not contacted and would like to participate should call Fred Klock at 215-659-8424 or email at afklock@comcast.net.

SPEAKER Continued from page 1

TOPIC: *From Metals to Materials:
The Evolution of a Discipline*

Over the past three decades, the traditional field of metallurgy/metallurgical engineering has broadened its base to become a bona fide discipline under the logo of materials science and engineering. The discipline now embraces all solids, primary examples being metals, ceramics, polymers, electronic materials, biomaterials, nanomaterials and composites. Relationships between processing, microstructure and properties similar to those that are well-defined for metals and ceramics are now being developed for the other classes of solids. As an identifiable discipline, materials science and engineer-

ing is interdisciplinary and endemic to all the branches of engineering - engineers cannot function without materials. This presentation reflects the personal experiences of an engineering educator whose career coincided with this materials renaissance. It will describe the changes that have taken place since the 1960s in the undergraduate curriculum in our field, in research and in career paths. In the context of Drexel University the influence of and changes in cooperative education, its unique undergraduate engineering curriculum and the impact of the personal computer will be discussed in relation to today's graduating engineers.

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