



Philadelphia Liberty Bell Chapter Newsletter



www.asm-philadelphia.com

Thursday, February 17, 2005

Eisenman Award Night

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



Speaker:

RONALD SMITH, Ph.D.

Materials Resources International

Topic:

The Business of Putting Things Together

Dr. Ronald W. Smith is founder and President of Materials Resources, Inc. and founder and Chief Technology Officer of S-Bond® Technologies, LLC. He received his B.S. degree and M.S. degree from Northeastern University (1976) in Mechanical Engineering and his Ph.D. degree from Drexel (1985) in Materials Engineering. Dr. Smith has 30 years of experience in braze and solder joining, surface coating, thermal spray, powder processing and turbine and advanced materials development with over 100 publications. Dr. Smith was employed by the General Electric Company (1976-1987) working at GE Research and Development Center, GE Gas Turbine Division in Schenectady, NY and GE Aircraft Engine Business Group in Lynn, MA. Later Dr. Smith joined Drexel University, where he founded the Center for the Plasma Processing of Materials, a university-based R&D effort in thermal spray coatings. His work at GE and Drexel resulted in three patents and an IR-100 Award for developments in thermal spray coatings. Dr. Smith founded MRI in 1991 and in 1996 he left Drexel University's Center for the Plasma Processing of Materials to lead MRI's braze joining and braze surfacing prod-

uct developments which has resulted in S-Bond Technologies patents for innovative active solder joining alloys. This technology received an R&D 100 Award in 1998. Dr. Smith is a member and Fellow of ASM International of which he is the founding and immediate Past President of its Thermal Spray Society. Dr. Smith has also been Secretary and on the Board of Directors of the ASM Liberty Bell Chapter and now is Chair of the Fellows Committee.

TOPIC: *The Business of Putting Things Together*

Dr. Ronald Smith is the principal in Materials Resources International and S-Bond Technologies, LLC. Dr. Smith will present an entrepreneurial view of the founding and progress that these two companies have made. The talk will also present the materials and bonding technologies inherent in both companies including braze joining, active soldering and wear coating via braze infiltration. These technologies will be highlighted and applications of these technologies will be reviewed. The "entrepreneurial" part of the presentation will center on the presenter's experiences in how one brings a business to life.

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

Alan Lawley
Drexel University

Meeting Sponsors:

Materials Resources International

Dinner Menu

Snapper Soup
Fresh Garden Salad
Roasted Loin of Pork
Oven Browned Red Potatoes
Caesar Peas
Sweetheart Sundae

Social Hour

6:00 - 7:00 p.m.

Dinner

7:00 p.m.

Price: Members & Guests: \$23.00;
Retirees: \$15.00; Students: \$12.00

ASM Philadelphia Sustaining Members (2004-2005)

Air Products & Chemicals Co.
Ajax Electric Company
Allied High Tech Products, Inc.
Apollo Designs
B & G Manufacturing Co. Inc.
Bristol Steel Treating
Buehler, Ltd.
Carpenter Technology Corp.
Clemex Corporation
Conroy Engineering Co. Inc.
Consulting Engineers, Inc.
Delaware Valley Utility Advisors
DEPTCOR - NJ Dept. of Corrections
Donovan Heat Treating Company

Dynatec Process Systems, Inc.
ECRI-MSLB
Edward A. Boll Co. Inc.
Electro Science Laboratory
EMSL Analytical Inc.
Exelon PowerLabs
Forensic Sciences Inc.
Fredericks Company
Hoeganaes Corporation
Houghton International Inc.
Inductoform Corporation
Laboratory Testing, Inc.
Leco Corporation
Lehigh Testing Laboratories Inc.

LTK Engineering Services
MMA Laboratories
Magna-Tech P/M Laboratories
Metlab
National Basic Sensor
Newage Testing Instruments, Inc.
Penn Stainless Products
Pressure Technology, Inc.
Ramball Testlab, Inc.
Rex Heat Treat
A.L. Singmaster Personnel Svc.
Solar Atmospheres, Inc.
Solar Atmospheres Manufacturing Inc.
SPS Technologies, Inc.

Superior Tube Company
Tinius Olsen Testing Machine Co., Inc.
Ugine Stainless & Alloys Inc.
Vacuum Furnace Systems
Robert Wooler Company

Institutional Members

Drexel University
Temple University
University of Pennsylvania
Villanova University
William Tennent High School
Williamson Trade School

Chapter Officers 85th Year

Scott Nyce, Chairperson
Solar Atmospheres, Inc.

Travis Nelson, Vice Chairperson
Materials Resources International

Anna Whitehead, Secretary
Global Systems Tec. Inc.

Don Jordan, Treasurer
Solar Atmospheres, Inc.

Robert DeKalb, Executive Secretary
Robert Wooler Co.

Fred Klock, Exec. Treasurer
SPS Technologies, Retired

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

Contact Chapter Chairperson Scott Nyce at 215-721-1502 x 219 or email: dsn@solaratm.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 Membership Info

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 ASM 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 send information to the return address on this newsletter.



Chairperson's Message

February, 2005

Greetings,

Well, we are off and running here in 2005. Thank you to everyone who was able to attend the January meeting. Once again, the Philadelphia chapter had a good showing for our National Officers night.

We are currently in the midst of our scholarship campaign. If you know of any high school or college students that would be interested or qualify for any of our programs, please forward the information in this newsletter to them. You may even want to post a copy of the scholarships that are available through our chapter where you work.

I am looking forward to our February speaker, our chapter's own Dr. Ron Smith. His presentation should be quite enlightening, covering not only the technical side of things, but the business part behind the business. For anyone who has gone out on their own or considered starting their own business, you will want to be sure to see Ron's presentation.

See you at the February Meeting,

Scott Nyce

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.

Upcoming Events...

2-17-05	Thursday	Eisenman Award Night Topic: The Business of Putting Things Together, Williamson Restaurant, Horsham, PA	6:00 pm
3-17-05	Thursday	Albert Sauveur Night Topic: Materials Technologies & Trends on Boeing Aircraft, Williamson Restaurant, Horsham, PA	6:00 pm
4-5-7-05	Tues-Thurs	Delaware Valley Science Fairs Fort Washington Expo Center	
4-21-05	Thursday	Sustaining Members Night Topic: Quality Systems & Their Application in the Dale Earnhardt Engine Shop, Williamson Restaurant, Horsham, PA	6:00 pm
4-23-05	Saturday	Spring Dinner Dance Old York Road Country Club	6:00 pm
5-19-05	Thursday	Honors & Past Chairmen Night Topic: Awards & Honors, Williamson Restaurant, Horsham, PA	6:00 pm

Membership Survey Feedback

The Long Range Planning Committee is in the process of analyzing the results of the membership survey from last year. In the coming months, this newsletter will contain comments on this analysis and responses to members' input.

The first four questions were grouped into "**Chapter Positioning.**" Responses were as follows (you could pick two of the 5 to 7 choices offered):

1. **I joined ASM to:** 51%- Be part of a Professional Society
46%- Network
42%- Gain access to technical information
2. **The purpose of the chapter should be to enable members to:**
72%- Network
53%- Access to training & education
34%- Help solve problems at work
3. **What do I want/need from my local chapter?**
74%- Networking Opportunities
66%- Monthly Technical Meetings
56%- Seminars & Workshops
4. **What are the most important services offered by my local chapter?**
77%- Monthly Technical Meetings
61%-Networking Opportunities
54%-Yearbook & Membership list

The next five questions **dealt with communications**, and there were 22 comments submitted.

72 to 76% felt that communication was good and they were well informed
62% thought communication was interesting

83% said they would like to continue to receive communication from the chapter

There were a number of comments about late communication or not enough notification of meetings and activities. If you were not already aware of it - your yearbook lists all of the meeting dates for the coming year, the speaker, the subject, and times. One meeting a year - November - has traditionally been held on Wednesday because of scheduling issues with the restaurant. In recent years on several occasions we have moved meetings to the second or fourth week of the month to avoid conflicts with religious holidays. It is good to check your yearbook when it arrives and fill in your calendar. We have been managing to get the newsletters out during the first week of the month. We now have an Upcoming Events list in every newsletter. However, some of our social and educational activities have been scheduled on short notice in recent years. We are making greater use of e-mail to let people know. There were a number of comments in favor of greater use of e-mail but also some comments by people who do not have it. It is hard to keep lists current. Please let ASM International (1-800-336-5152 or use the ASM website at www.asminternational.org) know if you change your e-mail. This will permanently update your information. We rely on them for our lists and we often use their website to send broadcast e-mails.

If you would like a copy of the survey results (15 pages), you can e-mail Jim Watters at dvua2@cs.com or call him at 215-699-0690.

Liberty Bell Chapter Spring Dinner Dance

Plans are moving forward for the Spring Dinner Dance scheduled for April 23rd at 6:00 pm at the Old York Road Country Club. This annual event is always the highlight of our social program for the year. It is an evening of wonderful food and beverages with dancing until late into the evening. Be sure to pencil in April 23rd on your calendar.



Sustaining Member Plaques

Every meeting our chapter is proud to display the number of sustaining members we have. Guest and speakers are always impressed with the amount of industry support we receive. This group of companies are the backbone of the chapter and these plaques are a great way to showcase their support.



If you are a sustaining member & don't have a plaque on our board, or you would like to update a current plaque, please contact Chris Constable at chris.constable@rexheat-treat.com or 215-855-1131.

Welcome New Members

Rob Boninfante Boninfante Performance
Clutch Parts

Robert S. Drab Ugin Stainless & Alloys

Daniel Howard Superior Tube Co.

Thomas Lewis, Semetech International Inc.

Scholarship Applications

In the academic year of 2004-2005, 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; Tel: 610-519-7311). The deadline for application is March 1, 2005.

High School Essay Contest

Three \$100 awards will be given to high school students. To enter the contest, write an essay no more than 500 words on the topic "*What is materials engineering? Think about an object you use everyday. How could you use materials engineering to make it better?*" Please send type written submissions and your contact information to Attn: Elizabeth Hoffman, Dept of Materials Science and Engineering, 344 LeBow, Drexel University, 3141 Chestnut St., Philadelphia, PA 19104. Applications will be accepted no later than March 1, 2005. Winners will be notified no later than April 30, 2005.

C.F. Burns Poster Contest

The Liberty Bell Chapter will be holding its 4th annual poster contest for graduate students during our Sustaining Members Night, 4/21/05. This will be the second 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!

Del Val Science Fairs

The Delaware Valley Science Fairs will be held in the Fort Washington Expo Center on April 5-7, 2005. Judges for this event are currently being solicited. Any ASM member who is interested in judging or otherwise assisting should check the DVSF website at www.drexel.edu/dvsf. Several members of the Philadelphia chapter have served as judges in the past and more judges are always needed. Anyone who wants more general information about judging at the science fairs can contact John Janiszewski at 215.641.8849 or janiszewski@ltk.com.

Yearbook Advertising Campaign Begins!

The Liberty Bell Chapter advertising committee is putting together the advertisers' list for the 2005-2006 chapter yearbook. ***The Liberty Bell yearbook is seen by over 900 materials professionals and companies in the Delaware Valley and South Jersey.*** And, it has been consistently recognized by ASM International as one of the top chapter publications worldwide. Professionally put together and printed, the Liberty Bell yearbook provides a focused method of getting your company's products and services in front of the people who use them!

If you would like to reserve preferred space or for more information including ad options and rates, please contact Advertising Committee chair, Mike Drakeley at 215-721-1502 ext. 203 or mjd@solaratm.com.

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 Rob DeKalb at 215-542-7600 to register.

Advertisers in the 2004-2005 ASM Yearbook

Air Products & Chemicals, Inc.	Leco Corporation
Allied High Tech Products, Inc.	Materials Resources International
Apollo Designs	Micron, Inc.
Bennett Heat Treating & Brazing Co., Inc.	Newage Testing Instruments, Inc.
Buehler Ltd.	Penn Stainless Products
Clemex Corp.	Pressure Technology, Inc.
Consarc	Ramball Test Lab, Inc.
Consulting Engineers & Scientists, Inc.	Rex Heat Treat
Delaware Valley Utility Advisors	A.L. Singmaster Personnel Svcs.
Drexel Univ., Dept. of Mat. Eng.	Solar Atmospheres, Inc.
Electron Energy Corp.	SPS Technologies, Inc.
Evans Heat Treating Co.	Stork -MMA Testing Labs
Extec	Struers, Inc.
Forensic Sciences, Inc.	Superior Tube Company
Hoeganaes Corporation	Tinius Olsen Testing Mach. Co., Inc.
Houghton International Inc.	Vacuum Furnace Systems, Corp.
Inductotherm Corporation	Villanova University, Dept. of Mech. Eng.
Industrial Metal Treating	Westmoreland Mech. Testing Machine
L&L Special Furnace Co., Inc.	Williamson Restaurant
Laboratory Testing, Inc.	Robert Wooler Company