



# Philadelphia Liberty Bell Chapter Newsletter

www.asm-philadelphia.com

**\*NOTE - Wednesday meeting this month  
Wednesday, November 14, 2007**

## Eisenman Award Night

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



**Speaker:**  
**JAMES CONYBEAR**

Metlab Potero, Inc.

**Topic:**  
Development of Heat Treat Processes for Large Scale  
Wind Energy Products

James G. (Jim) Conybear is co-owner of Metlab Potero. He graduated from Illinois Institute of Technology with a degree in Metallurgical Engineering, and received his Masters Degree from the University of Toledo (Ohio). For the majority of his career, Jim has been involved in metals processing technology and has patents involving atmosphere as well as vacuum carburizing.

A member of ASM since 1963, Jim was active as a member and officer of the Toledo Chapter of ASM before moving to Philadelphia in 1985. He has served on numerous national committees of ASM and is a founding Board of Trustees member of the Heat Treat Society. Jim is a Fellow of ASM. Also a member of SAE, Jim is actively serving on the Aerospace Metals Engineering Committee of the SAE Aerospace Division.

### TOPIC:

#### ***Development of Heat Treat Processes for Large Scale Wind Energy Products***

Wind energy systems (windmills) are rapidly becoming a prominent source of electric power worldwide. The size of these has increased to make the economics of wind power competitive. A typical generator unit today has blade diameters that equal the length of a football field. As the output and the demand for long maintenance free operation of the systems have increased, the requirements for high performance components have also grown. Development of finely tuned processes for the heat treatment of these parts has consequently been necessary. Issues and experience with the processing of large gears and bearings used in these high capacity wind energy systems will be reviewed.

#### **Technical Chairperson**

Doug McGhee  
Newage Testing Instruments

#### **Meeting Sponsors:**

TBA

#### **Dinner Menu**

Fresh Garden Salad  
Boneless Breast of Chicken Maryland  
Parslied Red Skin Potatoes  
Broccoli Hollandaise  
Chocolate Mousse

#### **Social Hour**

6:00 - 7:00 p.m.

#### **Dinner**

7:00 p.m.

Price: Members & Guests: \$26.00;  
Retirees: \$17.00; Students: \$14.00

#### **Reservations are necessary -**

**Please make your reservations online at [www.asm-philadelphia.com](http://www.asm-philadelphia.com)**

If you have a large group or do not have access to the website, you can make your reservation by contacting Rob DeKalb at 215-542-7600.

## ASM Philadelphia Sustaining Members (2007-2008)

Air Products & Chemicals Co.  
A.L. Singmaster Personnel Svc.  
Ajax Electric Company  
Apollo Designs  
B & G Manufacturing Co. Inc.  
Conroy Engineering Co. Inc.  
Craig Clauser Engineering Consulting Inc.  
Delaware Valley Utility Advisors  
DEPTCOR - NJ Dept. of  
Corrections  
Donovan Heat Treating Company

ECRI-MSLB  
Edward A. Boll Co. Inc.  
Exelon PowerLabs  
Forensic Sciences Inc.  
Fredericks Company/Televac Div.  
Hoeganaes Corporation  
Houghton International Inc.  
Inductotherm Corporation  
Laboratory Testing, Inc.  
Leco Corporation  
LTK Engineering Services

Magna-Tech P/M Laboratories  
Metlab Potero  
National Basic Sensor  
Newage Testing Instruments, Inc.  
Penn Stainless Products  
Pressure Technology, Inc.  
Ramball Testlab, Inc.  
Rex Heat Treat  
Solar Atmospheres, Inc.  
Solar Manufacturing Inc.  
SPS Technologies, Inc.

Stork MMA Testing Labs  
Superior Tube Company  
Tinius Olsen Testing Machine Co., Inc.  
Robert Wooler Company

#### **Institutional Members**

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

## Chapter Officers 88th Year

David Von Rohr, Chairperson  
Stork MMA Testing Laboratories

Tim Steber, Vice Chairperson  
Solar Atmospheres, Inc.

Mark Heuberger, Secretary  
Superior Tube Co.

Ron Smith, Treasurer  
Materials Resource International

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 David Von Rohr at 215-579-7500 or email him at David.vonRohr@stork.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 Jim Watters at his email address:

**dvua2@cs.com**

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](http://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

November, 2007

Welcome to November 2007! The Eagles started off a tad rough, the Phillies made it to the playoffs and the price of lead is at an all time high. There are many variables in life as we progress through our day to day activities, but one thing you can count on for sure is that your local chapter of ASM is still here working for you diligently.

If you have not been to the new internet site yet for ASM International, you should take some time to go through it, you will find a load of information along with contacts for various experts in several fields. The new website was designed for more uniformity and ease of navigation to allow the users (us) to more readily access data we may not have even known was available.

The E & O committee is also seeking assistance from any member who would like to volunteer some time helping the chapter in the form of public relations, the newsletters or any other function that you feel you could contribute to makes us better. Jim Watters has been running the newsletter for a long time and would like some assistance with the daily running and administration of both the electronic and the print newsletter for as long as it remains.

In closing I would like to invite members to come to the meeting on the 14th to hear Jim Conybear speak, it should prove to be a very interesting topic. While you are coming to the meeting, bring a friend who has not attended in a while and begin networking again, who knows where it will lead.

I look forward to seeing all of you.

Sincerely,  
David Von Rohr  
2007-2008 Chairman

## Upcoming Events...

11-8-07	Thursday	<b>Carpenter Technology Corp. Plant Tour</b> Reading, PA	3:00 pm
11-14-08	Wednesday	<b>Eisenman Award Night</b> Topic: Development of Heat Treat Processes for Large Scale Wind Energy Products Williamson Restaurant, Horsham, PA	6:00 pm
11-20-07	Tuesday	<b>MEI Course - Practical Heat Treating Course begins</b> SPS Technologies	6:30 pm
1-17-08	Thursday	<b>National Officers Night</b> Topic: Review of Boeing 787 Dreamliner Williamson Restaurant, Horsham, PA	6:00 pm

## MEI Course – Practical Heat Treating

The Greater Philadelphia Section of The American Society for Nondestructive Testing, the Philadelphia Chapter of the American Welding Society and The Philadelphia "Liberty Bell" Chapter of ASM International is presenting the MEI course Practical Heat Treating.

**When:** Tuesday evenings 20 November 2007 through 18 March 2008  
6:30 to 9:00 PM

**Where:** SPS Technologies -- Highland Ave. Jenkintown, PA

**Cost:** \$350.00 includes the 15 lesson course with 2.8 CEUs, Qualified instructors and a video presentation each week. Each student after the first one from the same company will cost \$290.00.

### Who should attend:

This course is intended for the entire spectrum of personnel either directly or indirectly associated with heat treatment. This includes design and manufacturing engineers, plant managers, supervisors, metallurgists and technicians, quality control inspectors and sales and marketing personnel.

### Course overview:

Practical Heat Treating teaches the actual heat treating process or the "how" of heat treating.

### Course outline:

1. Heat Treatment of Carbon Steels. 2. Heat Treatment of Alloy Steels. 3. Heat Treatment of Tool Steels. 4. Heat Treatment of Cast Iron. 5. Heat Treatment of Stainless Steels. 6. Heat Treatment of Aluminum. 7. Heat Treatment of Other Nonferrous Alloys. 8. Types of Furnaces and Associated Equipment. 9. Furnace Atmospheres. 10. Instrumentation and Controls. 11. Equipment Operation and Maintenance. 12. Surface Treatments. 13. Testing and Quality Control of Metals and Alloys. 14. Problems Associated with Heat Treated Parts. 15. Vacuum Heat Treating Processes.

**For more information call Fred Klock (215 659 8424) or Bob Rich (215 572 3485)**

Return the lower portion of this form, with a check payable to "Philadelphia ASMI" to Fred at 2305 Pershing Ave. Roslyn, PA 19001 before 12 November 2007.

Name: \_\_\_\_\_ Work phone: \_\_\_\_\_

ASM Member # (If Applicable) \_\_\_\_\_

Company and Address: \_\_\_\_\_

Your Position: \_\_\_\_\_

Home phone and address: \_\_\_\_\_

## Chapter Announces Carpenter Technology Plant Tour - Thurs., Nov. 8th - 3 pm

Your chapter has again scheduled a popular tour with Carpenter in Reading, PA. The planned itinerary this time is to tour the vacuum induction melt facility, the 4500 ton press, the large rotary forge, and the hot rolling mill. The total time of the tour will be approximately 2.5 hours.

Plan to arrive **before** 3 PM as the tour will start **promptly** at 3 PM. Meet at the parking lot of the Reading Phillies near Carpenter's headquarters building. Carpenter will be providing a yellow school bus for the actual tour with labeling "Krapf" on the side. You cannot drive your car into the facility. If you miss the bus you will miss the tour.

Please contact Don Jordan at Solar Atmospheres to book your reservation at dfj@solaratm.com or 215-721-1502 x 206. Carpenter requires having a list of names at least one week before November 8th, so you **must make your reservations with Don Jordan prior to November 2nd.**

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## Print Newsletter Will be Discontinued in January

The traditional blue ASM printed newsletter will not be printed after November. For the January newsletter only the E-mailed version will be produced. Some members will wish to continue to receive a hard copy. We have members who do not have e-mail, and we have others who just like getting a reminder in the mail. We will be sending out a postcard to all chapter members this fall. You will be asked if you wish to continue to receive a hard copy of the newsletter. If you do wish to receive it in this form, you **MUST** check yes and return the postcard to the chapter. For January through May of 2008 you will receive a copy of the e-newsletter, but it will be mailed in printed form to your current address. This will save the chapter money for printing and mailing costs, and it will allow us to provide information in a more timely fashion.

## Now Sending E-Newsletter

During the 2007-08 Chapter year, the Liberty Bell Chapter will have an e-newsletter.

We are planning to include **full color business card size ads in the e-newsletter**. You can run an ad for a one time fee of \$100 for 8 placements. This is a very economical way to reach the 400+ Philadelphia ASM members with e-mail.

If you wish to run a one time job placement ad, those ads can be run for a monthly fee of \$25. Contact Jim Watters for more information at [dvua@comcast.net](mailto:dvua@comcast.net).

## Advertisers in the 2007-2008 ASM Yearbook

Air Products & Chemicals, Inc.	L&L Special Furnace Co., Inc.
Allied High Tech Products, Inc.	Laboratory Testing, Inc.
Apollo Designs	Leco Corporation
Benedict-Miller LLC	Materials Resources International
Bennett Heat Treating & Brazing Co., Inc.	Micron, Inc.
Buehler Ltd.	Newage Testing Instruments, Inc.
Castle Metals	Penn Stainless Products
Consarc	Pressure Technology, Inc.
Craig Clauser Engineering Consulting Inc.	Rex Heat Treat
Delaware Valley Utility Advisors	A.L. Singmaster Personnel Svcs.
Electron Energy Corp.	Solar Atmospheres, Inc.
Evans Heat Treating Co.	Solar Manufacturing Inc.
Extec- Excel Technologies Inc.	Stork -MMA Testing Labs
Forensic Sciences, Inc.	Struers, Inc.
Hoeganaes Corporation	Superior Tube Company
Houghton International Inc.	Tinius Olsen Testing Mach. Co., Inc.
Inductotherm Corporation	Westmoreland Mech. Testing Machine
Industrial Metal Treating	Williamson Restaurant
Earle M. Jorgensen Co.	Robert Wooler Company

### 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.