

ASM International
Philadelphia "Liberty Bell" Chapter
Newsletter



www.asm-philadelphia.com

Wednesday, November 14, 2001

Continuing Education Night

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



Speaker:
DR. TIMOTHY ELLIS

Director of Corporate Research,
Kulicke & Soffa Industries

Timothy Ellis is the Director of Corporate Research and Development for Kulicke and Soffa Industries (K&S) the largest supplier of semiconductor interconnect solutions in the world. His work focus is on advanced materials technology development for semiconductor and optoelectronic packaging. Prior to joining K&S he was a scientist at the Ames Laboratory U.S.D.O.E. at Iowa State University with a research focus on rare earth metallurgy and science. Tim received his Ph.D. from Iowa State in 1993, and a MS in Chemistry and BS in Metallurgical Engineering from Michigan Technological University. Present alternate weekends are occupied in pursuit of a MS in Technology Management at the University of Pennsylvania. When not globe trotting for K&S Tim can be found sailing the Chesapeake Bay or wandering the backwoods of Upper Michigan.

TOPIC: *Materials and Processing for Semiconductor and Opto-electronic Packaging*

Material performance and joining issues abound in present day semiconductor and optoelectronic packages. Moore's law states performance increases by a factor of 2 every 18-24 months. The corollary is that cost also decrease by this factor in the same time frame.

This is especially challenging for the materials science and engineering community. In this presentation the implication of semiconductor industries packaging roadmap on the materials field will be outlined and discussed.

Technical Chairperson

Bill Jones
Solar Atmosperes, Inc.

Dinner Menu

Roast Loin of Pork
Melon Parisienne
Hearts of Lettuse
Baked Stuffed Potatoe
String Beans Almondine
Chocolate Parfait

Social Hour

6:00-7:00 p.m.

Dinner

7:00 p.m., Price: \$18.00

Retirees: \$9.00

Student: \$7.00



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.

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Chapter Officers 83rd Year

John Janiszewski, Chairperson
LTK Engineering Services

Don Jordan, Vice Chairperson
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Ron Smith, Secretary
Materials Resources Inc.

Jim Watters, Treasurer
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Robert DeKalb, Executive Secretary
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Fred Klock, Exec. Treasurer
SPS Technologies

We Thank These Companies for Their Support

Meeting sponsors for the 2001-2002 year are:

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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.



Chairperson's Message

November, 2001

Due to the demands of typesetting and printing schedules, I am writing this November message between the September and October meetings. Therefore, I'd like to focus a bit on a few impressions from the closeness in time of the September meeting and the terrorist attacks on the US.

Our speaker, Brian Higgins, discussed production of high purity, high quality materials by use of the electron beam furnace. Where do these materials go? Much of this production winds up in the aerospace and electronics industries. This realization reminded me that over the next few years, our country and our fellow citizens will be depending on the materials industry to make the materials that are needed to convert the designers' concepts into real products. In large measure, success in protecting ourselves from terrorism in the future will depend on the materials community. I know that I speak for the materials community in welcoming this challenge and guaranteeing our ultimate success.

The second impression from Brian's talk was how small the world has become. During conversation during dinner, he mentioned buying niobium ores from Russia, tantalum ore from Australia or Africa, and other raw materials from China and Brazil. In spite of temporary nation-to-nation arguments, it is apparent that global commerce is here to stay and it will only bind the world closer in the long term.

I would like to encourage all ASM Philadelphia Chapter members to attend the November 14, 2001 meeting and take advantage of the comradeship of the materials community. Hope to see you there!

John Janiszewski
2001-2002 Chairperson

Is Your E-mail Address Correct?

Recently, the Chapter sent a mass e-mailing to Chapter members through ASM International's website. About 400 Chapter members have e-mail addresses on their member information; of those, about 70 were returned because the e-mail address was incorrect.

If you have an e-mail address on file with ASM International, please make sure that it is current and correct. You can do this by accessing the ASM International website at www.asminternational.org. If your e-mail address is not on file, you can add it through the website, too.

If you have any questions about e-mail or any other membership item, please contact Al Singmaster, our Membership Chair, at 610-687-4970 or via e-mail at alsing@gateway.com.

Practical Heat Treating

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

When: Tuesday evenings 27 November 2001 through 19 March 2002 - 6:30 to 9:00 PM

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

Cost: \$270.00 includes the 15 lesson course with 2.8 CEUs, Qualified ASMI instructors and a video presentation each week.

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 or Bob Rich at 215 572 3485 Fax 215 572 3725. Return the lower portion of this form, with a check payable to "Philadelphia ASMI" to Fred or Bob at SPS Technologies; Highland Ave.; Jenkintown, PA 19046-2299 before 15 November 2000.

Name: _____ Work phone: _____

Company and Address: _____

Your Position: _____ ASM Member # (If Ap.) _____

Home phone and address: _____

Phantoms Hockey Game

Come out to a Phantoms Hockey Game on Saturday, January 12th at 7:00 p.m.

The Phantoms are playing Providence and the game will be played at the FU Center not the Spectrum. We have great tickets

for Section 103 which is on the lower level. Tickets cost \$13.00 each. We have 40 tickets on reserve. So if you are interested, please call Mike Drakeley at 215-721-1502 x203.



Young Members Night

On a recent visit, Scott Nyce and Don Jordan enjoyed the hospitality of Drexel's MAGNET (Materials Engineering Graduate Students Network) affirming ASM's commitment to student members and establishing transportation to our Young Members Night. We look forward to maintaining an active relationship with these students as we encourage young member participation in the Liberty Bell Chapter.

Welcome

The Philadelphia Chapter of ASM and all its members welcome the following new members or transferred members to the chapter:

James W. Haynicz	Valero Refining Co.
Shawn Perrin	Henkel & McCoy
David J. Tantrum	Martin Ottway Van Hemmen Dolan