

ASM International
Philadelphia "Liberty Bell" Chapter

Newsletter



www.asm-philadelphia.com

Wednesday, November 19, 2003

Continuing Education Night

Spouses and guests are invited and welcome.

Williamson Restaurant, Easton Road, Horsham, PA



Speaker:

FREDERICK J. (Rick) DIEKMAN

Topic:

History, Research, Myths & Applications of Cryogenic Processing

Frederick J. (Rick) Diekman (pronounced DEEKMAN) is President of Controlled Thermal Processing, Inc., a company that has been in the cryogenic processing business for over twenty years. (www.metal-wear.com) CTP has processing plants in Kenosha, WI and Mt. Ulla, NC, and supplies metallurgical consulting to racing and industry. He is the Chairman of the ASM Cryogenic Processing Sub Committee. He holds an engineering degree from Iowa State University. He has lectured on cryogenics at the annual Advanced Engine Technology Conference, the Experimental Aircraft Association Air Venture, the Cryogenic Society of America, and others. He has received awards for his presentations on cryogenic processing from the Society of Plastics Engineers. His article on the uses of cryogenic processing in racing was published in Heat Treating Progress, and he has written

numerous other articles for other magazines on the subject.

When not freezing things Rick restores Pierce-Arrow automobiles. He is a private pilot and Operations Officer for Squadron 4, Warbirds of America.

TOPIC: *History, Research, Myths & Applications of Cryogenic Processing*

Each year, cryogenic processing gains a bigger beachhead in industry. Yet it remains a controversial subject, especially among metallurgists. No one can explain exactly why the process achieves its astounding results, and it is often hard to separate legitimate claims from the hype created by hucksters. This talk will summarize the history of the process, talk about recent research, explore some of the silly myths, and give an overview of current applications.

Technical Chairperson

Roger Jones
Solar Atmospheres, Inc.

Meeting Sponsor

Rex Heat Treat
Forensic Sciences, Inc.
Robert Wooler Co.

Dinner Menu

Fresh Fruit Cup
Hearts of Lettuce
Roast Loin of Pork
Baked Stuffed Potato
Winter Mix
Ice Cream Croquette

Social Hour

6:00 - 7:00 p.m.

Dinner

7:00 p.m.

Price: Members: \$22.00; Retirees: \$15.00; Student: \$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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Fred Klock, Exec. Treasurer
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



Chairperson's Message

November, 2003

The Chapter Year started off with a challenge. Our first meeting was the night of the hurricane. The forecast was for only an inch or two of rain, but it had rained a great deal already that week. The forecast winds of 50 miles per hour did come to pass. The result was the loss of power for a million people in the Philadelphia Region. Email made it possible for a lot of communication to take place the morning of the meeting. We decided to go ahead as scheduled. Only one person ended up being

called home because power was out. However, for the second month in a row we were focused on our electrical infrastructure. Hats off to PECO, who got everything back on in a couple of days. By contrast, Virginia still had a lot of people without power a week later, and they were waiting for poles to be shipped in.

The Executive and Operating Committee meeting in September was inspiring. Committee Chairpersons laid out their plans for the coming year. We are already starting to attack the need for more yearbook advertising. Everyone expressed their thanks to Ed Mazeika for another great job on the yearbook. At the meeting Fred Klock and Bob Rich laid out plans for the upcoming MEI course and Training Your People seminar in November. These programs are sponsored by the Career Development and Professional Development Committees respectively. You will find more information in this newsletter. We hope you and your companies will support these programs. If you haven't already signed up, you will need to move quickly. These programs will take place very soon.

Tim Steber presented the program to attack yearbook advertising. This is a critical part of our financial picture. In the last couple of years we've had to scramble in May and June to try and fill our ad space. The job fell to a few people who are responsible for the yearbook, plus a couple of more who pitched in. This year we are getting the jump on it, and all E&O members will participate. If you know of a company that may be interested in advertising or that you are willing to solicit, please contact Mike Drakeley or John Janiszewski.

At the September E&O meeting some changes to our investment strategy were discussed. We have two investment accounts. One is the general Chapter assets and the other is the Weiser scholarship fund set up by the J.W. Rex Company. These funds were invested in Schwab and Janus mutual funds. These mutual funds have not performed well, and they have been difficult to work with. The Finance Committee, with the approval of J.W. Rex, moved the money to State Farm mutual funds. We expect that they will prove more flexible and responsive, and that it will be easier to balance our portfolio in terms of asset category and risk. If you have questions about this change you should feel free to contact either Fred Klock or me.

I look forward to seeing you at the November meeting.

Respectfully submitted,
Jim Watters

Upcoming Events...

11-11-2003	Tuesday	"Training Your People and Getting Paid For It Seminar" SPS Technologies, Highland Avenue, Jenkintown, PA	8:00 a.m.
11-18-2003	Tuesday	MEI Course - "Principles of Failure Analysis" SPS Technologies, Highland Ave Jenkintown, PA	6:30 pm
11-19-2003	Wednesday	Continuing Education Night - History, Research, Myths & Applications of Cryogenic Processing <i>Speaker: Frederick J. Diekman</i> - Williamson Restaurant, Horsham, PA	6:00 pm
11-25-03	Tuesday	Williamson Trade School Tour , Media PA	3:00 pm
01-15-04	Thursday	National Officers Night - Thermal Spray Processes and Coating <i>Speaker: Dr. Robert C. Tucker, Jr., FASM</i> - Williamson Restaurant, Horsham, PA	6:00 pm
02-19-04	Thursday	Eisenman Award Night - From Metals to Materials: The Evolution of a Discipline <i>Speaker: Alan Lawley</i> - Williamson Restaurant, Horsham, PA	6:00 pm

Williamson Trade School Tour

The Professional Development Committee will be sponsoring a tour of Williamson Trade School in Media Pa. The date of the tour is Tuesday November 25th 2003. The tour will start at 3:00 p.m. sharp and run for about an 60 to 90 minutes in length. To register for the tour or for further information please contact Roger A. Jones at Solar Atmospheres Inc. 215-721-1502 Ext. 201 or by e-mail at raj@solaratm.com.

MEI Course - "Principles of Failure Analysis" - starting Nov. 18

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 Principles of Failure Analysis.

When: Tuesday evenings 18 November 2003 through 9 March 2004
6:30 to 9:00 PM

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

Cost: \$350.00 includes the 15 lesson course with 3.2 CEUs, Qualified ASMI instructors and a video presentation each week. Each student after the first one from the same company will cost \$300.00. ASMI offers an equivalent in Materials Park for over \$1000 additional cost.

Who should attend:

People who are new to failure analysis or for those who want an update. Technicians. Those interested in understanding how knowledge of failure analysis can lead to better productivity.

What you will learn:

Learn what failure analysis can mean in terms of profitability and liability. Understand general procedures, techniques and precautions in failure analysis. Learn how to identify design-related failures. Be able to analyze the factors that cause failure. Understand what environmental sources are responsible for failures and ways to prevent them. Learn how stress systems relate to fracture of ductile and brittle materials. Learn about typical fatigue characteristics. Grasp the many inter-related factors involved in examining a fracture. Understand the basic fracture modes and their characteristics, including the factors affecting ductile-brittle relationships. Become knowledgeable about typical fatigue characteristics and learn how to identify them. Learn how to read fatigue fractures. Learn how to separate material (chemistry, microstructure) causes for failure from non-materials causes.

For more information call Fred Klock or Bob Rich at 215 572 3485 Fax 215 572 3725 E-mail fklock@spstech.com.

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 November 7, 2003. After Nov. 7th contact Fred Klock by phone or e-mail.

Name: _____ Work phone: _____

Company Name: _____

Co. Address: _____

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

Home phone & address: _____

Training Your People and Getting Paid For It

The Greater Philadelphia Section of The American Society for Nondestructive Testing and The Philadelphia "Liberty Bell" Chapter of ASM International is presenting a Seminar titled "Training Your People And Getting Paid For It".

When:

Tuesday 11 November 2003 -- 7:30 AM Breakfast
8:00 AM to 12:00 PM Seminar

Where:

SPS Technologies -- Highland Ave. Jenkintown, PA

Cost:

\$20.00 -- Includes hot breakfast

Speaker: Bernice Steigerwalt, Contract Training Specialist, DeSales Univ., Easton PA

Topic: "State-Funded Training Reimbursement Programs Available to PA Companies"

Speaker: Jeff Lee, Project Manager for American Westech of Harrisburg PA

Topic: "Guidelines and Benefits of The OSHA Voluntary Protection Program (VPP) for Small, Midsize, and Large Companies"

Speaker: Rich Hixon, Engineered Lubrications/OSHA Trainer, Bangor PA

Topic: "OSHA Training Initiatives Reimbursed Through Training Grant Programs in PA"

Speaker: (TBD)-Dale Carnegie-Corporate Solutions-Valley Forge PA

Topic: "Management/Leadership Training Initiatives Reimbursed Through PA Training Grants"

NOTE: Speakers will allow 10-15 minutes for Questions and Answers at the end of their respective presentations.

For more information call Fred Klock or Bob Rich at 215 572 3485 Fax 215 572 3725.

E-mail fklock@spstech.com

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 11-4-03. After 11-4-03 contact Fred Klock by phone or e-mail.

Name: _____

Work phone: _____

Co. &

Address _____

Your Position: _____

ASM Member # (if Ap.) _____

ASM Scholarships

Philadelphia "Liberty Bell" Chapter is offering its scholarships for the year 2004. For undergraduates, there are a number of scholarships ranging from \$1,000 to \$1,500. The scholarship application is due on March 1st, 2004. For postgraduates, we are sponsoring our third poster contest with cash prizes. The poster contest will take place at the April meeting on April 15th, 2004. As for high school students, there will be an ASM Materials Camp at Lehigh University next summer. This is a week long program, all expenses paid!

For an application or information on any of these programs, please contact Dr. Kei-Peng Jen at 610-519-7311, or kei-peng.jen@villanova.edu.

All applications for undergraduate scholarships must be received no later than March 1st, 2004. GOOD LUCK TO EVERYONE!!!

Leadership Days

This year the Chapter had three representatives at Leadership Days in Metals Park Cleveland in August. Jim Watters and Scott Nyce represented the Chapter, and Roger Jones was there as a presenter. On Saturday night there was a dinner "under the dome" at Materials Park with the high school students who had attended Materials Camp. The chapter was presented with the ASMI Five Star Award for last year. This award was then given to Don Jordan at the September chapter meeting. At the September meeting, Scott Nyce spoke after dinner about the inspiration that came from meeting, interacting, and exchanging ideas with members of ASMI chapters from all over North America.

Advertisers in the 2003-2004 ASM Yearbook

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