

## Now Sending E-Newsletter

During the 2005-06 Chapter year the Liberty Bell Chapter will have an e-newsletter in addition to the familiar blue mailer. This will allow us to make late additions to the newsletter. Our current closing date is a full 6 or 7 weeks before the monthly meeting to allow time for printing and third class mail. We shoot for having it delivered during the first week of the month. The e-newsletter will close several weeks later. This will also give you a choice of how you wish to receive the chapter news.

We are planning to include business card size ads in the e-newsletter. You can run an ad for a one time fee of \$100 for 7 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 at [dvua2@cs.com](mailto:dvua2@cs.com) or Anna Whitehead at [aj.whitehead@att.net](mailto:aj.whitehead@att.net) for more information.

## Advertisers in the 2005-2006 ASM Yearbook

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Villanova University, Dept. of Mech. Eng.  
Westmoreland Mech. Testing Machine  
Williamson Restaurant  
Robert Wooler Company



Thursday, October 20, 2005

## Young Members Night

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



**Speaker:**  
**RYAN DEACON**  
Lehigh University  
**Topic:**  
Failure Analysis of Space Shuttle Columbia Components

Ryan M. Deacon is a doctoral candidate in the Materials Science and Engineering Department at Lehigh University. He received his bachelors and masters degrees in materials science and engineering from Lehigh University in 2001 and 2004, respectively. A member of the Engineering Metallurgy Group, his studies focus on high temperature corrosion, physical metallurgy and electron microscopy. Ryan has served as the co-chairman of the Lehigh Valley ASM Materials Camp since its inception in 2003, is the Vice Chairperson of the Lehigh Valley Chapter of ASM International and is also actively involved with the Graduate Student Senate of Lehigh University. He was recently honored as the youngest recipient of the Lehigh Valley Chapter of ASM Outstanding Young Member Award in November 2004.

**TOPIC: Failure Analysis of Space Shuttle Columbia Debris in an Undergraduate Materials Science and Engineering Course**

Following the conclusion of the analysis

into the loss of Space Shuttle Columbia, a debris loan program was instituted by the National Aeronautics and Space Administration to allow for the study of the more than 84,000 pieces of debris that were recovered. The purpose of this program is to promote advances in a wide variety of fields, including spacecraft design, materials science, and accident investigation. The Department of Materials Science and Engineering at Lehigh University was the first academic institution granted access to the debris for study. Fifteen pieces of Columbia were analyzed by undergraduate students as part of a senior level failure analysis class. By involving the students in a real world failure analysis problem, they were able to apply their theoretical class work to a major engineering project and experience the pressures of time, security and planning that they will encounter in their future careers. The approach to the course will be reviewed and examples of the analyzed debris will be presented.

**Technical Chairperson**  
Robert Taraborelli  
Laboratory Testing Inc..

**Meeting Sponsors:**  
Robert Wooler Co.  
Forensic Sciences, Inc.  
Rex Heat Treat

**Dinner Menu**  
Buffet - choice of:  
Italian Meatballs  
Smoked Baked Ham w/ Maple Mustard Sauce  
Veal Scaloppini  
Miniature Crab Cakes  
Caesar Salad  
Potatoes au Gratin  
String Beans Lyonnaise  
Brownie Delight  
Fresh Fruit Watermelon Boat  
Beverage & Rolls

**Social Hour**  
6:00 - 7:00 p.m.

**Dinner**  
7:00 p.m.  
Price: Members & Guests: \$24.00;  
Retirees: \$15.00; Students: \$12.00



**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 (2005-2006)

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A.L. Singmaster Personnel Svc.  
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ASM International  
Philadelphia Chapter  
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P.O. Box 282  
Hardy, VA 24101



## Chapter Officers 86th Year

Travis Nelson, Chairperson  
Materials Resources International  
Howard Chaetham  
SmartSense Consulting  
David Von Rohr, Secretary  
Stork MMA Testing Laboratories  
Tom Reid, Treasurer  
United Terex, 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 Travis Nelson at 215-631-7111 x103 or email him at [tnelson@materialsresources.com](mailto:tnelson@materialsresources.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](mailto: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](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

October, 2005

By the time you read this, October will be fast approaching. Your favorite baseball team will either be competing for a playoff berth, or will be forgotten as you turn your attention to football, now a solid month into its own season. Leaves will be turning colors other than green and you will probably have stored

away your house's air conditioners, recognizing that the summer heat is gone and not returning, at least not until next year.

Like football, ASM will also be heading full-steam into it's own season, only without so many commercial and/or femur bone breaks. We will have had our first month's technical meeting with ASNT and will be getting ready for the tour of Handy & Harman Tube on October 6th, the Chapter's first plant tour in nearly two years. This month's technical speaker will be Ryan Deacon, a graduate student at my alma mater (and many of yours), Lehigh University in Bethlehem. (We thank the Lehigh Valley Chapter for lending him to us, and look forward to seeing them in November at National Officer's Night.) In addition to his involvement in the space shuttle Columbia failure analysis course, Ryan has also helped to plan and organize Lehigh Valley's Materials Camp for each of the last two years, and was very helpful to those of us in the Philadelphia Chapter who took up this enterprise in 2004-05, one which we intend to be an annual event. So while you're grilling him on technical issue after his talk, make sure to thank him for his help in getting our Materials Camp off the ground.

On a (slightly) sadder note, it is my duty to report that the Philadelphia Liberty Bell Chapter was narrowly edged out for the 2004-05 Chapter of Excellence award by Metro NY/NJ, who repeated as winners of this title. Congratulations to the Metro Chapter, and we look forward to another spirited competition in 2005-06!

Yours truly,  
Travis M. Nelson  
2005-06 Chapter Chair

## 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.

## Tour: Handy and Harman Specialty Tube

The Professional Development Committee is pleased to announce a tour of Handy and Harman Specialty Tube, Norristown, PA, for Chapter members. The tour will be conducted on Thursday, October 6, 2005 at 3:00 p.m. Handy and Harman produces a wide variety of tubing products, and this is an excellent opportunity to become metallurgically educated in the world of tubing manufacture. Handy and Harman have requested that we give them an accurate number of attendees before the tour. Therefore, those attending must notify Don Jordan by Friday, September 30, 2005. Don can be reached at [dj@solaratm.com](mailto:dj@solaratm.com) or 215-721-1502x206. Handy and Harman is located at Whitehall Rd. and Township Line Rd., Norristown PA.

## MEI course - "Welding Inspection & Quality Control"

The Greater Philadelphia Section of The American Society for Nondestructive Testing, The Philadelphia "Liberty Bell" Chapter of ASM International and the Philadelphia Chapter of the American Welding Society is presenting the MEI course Welding Inspection & Quality Control.

**When:** Tuesday evenings 8 November 2005 through 28 March 2006  
6:30 to 9:00 PM

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

**Cost:** \$300.00 includes the 14 written and 19 video lesson courses carrying 2.8 CEUs and instructed by qualified personnel. Each student after the first one from the same company will cost \$250.00.

### Who should attend:

Although this course was originally designed as an educational assist for personnel desiring to become Certified Welding Inspectors, it can also be very useful for others in the welding field. This includes design engineers, welders, metallurgists, quality control technicians, sales personnel and purchasing agents who deal with welds and welding.

### Course overview:

This course addresses all the aspects that are critical to understanding this demanding area; it contains the technical information that the personnel in this area must know to perform their jobs properly. It is designed to be of tremendous benefit for personnel working to become Certified Welding Inspectors. It is also of practical use as a fundamental course for new personnel and for use as a refresher for more experienced personnel, and it is a valuable tool that helps management understand about the responsibilities of the people they supervise. This course was developed in cooperation with the American Welding Society.

For more information call Fred Klock 215 659 8424, Jim Korchowsky 215 339 7034 or Bob Rich 215 572 3485. E-mail [afklock@comcast.net](mailto:afklock@comcast.net).

Return the lower portion of this form, with a check payable to "Philadelphia ASMI" to Fred Klock at 2305 Pershing Ave. Roslyn, PA 19001-2410 before 29 October 2005.

Name: \_\_\_\_\_  
Work phone: \_\_\_\_\_ E-mail: \_\_\_\_\_  
Company Address \_\_\_\_\_  
Your Position: \_\_\_\_\_ ASM Member # (If Ap.) \_\_\_\_\_  
Home phone and address: \_\_\_\_\_

## Welcome New Members

Catherine I. Joy Springfield HS  
Virginia M. Osterman Solar Atmospheres Inc.

## In Memoriam

### Charles C. "Chick" Matthews

Our chapter back on May 23rd, lost a past chapter Chair, and a friend to all. Chick was our Chapter Chair in 1974-75, and remained active and was a valued contributor to our chapter until the end. This is exemplified by the awards the Chapter bestowed on Chick: the 1985 Philadelphia Chapter Distinguished Service Award, the 1997 Adolph Schaefer Special Achievement Award, the 1999 Meritorious Service Award, and culminated by his 1987 Delaware Metals Person of the Year Award.

Chick graduated from Penn State in 1942 with a degree in Metallurgy and after a long career, he retired from Superior Tube in 1987 as their Chief Metallurgist after serving as their Technical Services Metallurgist and several other STC positions. Chick also served in the Navy in WWII and was honorably discharged with the rank of Lieutenant (JG) in 1946. Chick also was a lifelong tennis player, but took up other sports so seriously that it resulted in a Gold Medal at the 1999 Senior Games in Orlando in the Triathlon event. He was a member of the Genealogy Society of Pennsylvania, Sons of the Revolution, and volunteered for the Red Cross and was very active in his retirement community, to include serving as its President.

Chick will be sorely missed - except at 50 - 50 drawing time.

### William de Mauriac

Our chapter back on March 25th, lost our oldest member and oldest past Chapter Chair, one who did so much for the chapter before most of us were even born or at least graduated.

William de Mauriac was our Chapter Chair back in 1948-49!! He was also the oldest living member of the Engineers Club of Phila. and a member of the American Society of Mechanical Engineers, Phi Sigma Kappa, The Countrymen of Chester County, and Vice President of the Board of Trustees of Greenwood Cemetery, Brielle, NJ. William graduated from Penn State University with a degree in Mechanical Engineering in 1931, spent his entire career with Philadelphia Electric Company (now Peco Energy) and retired in 1972 as Manager of Station Operations, which included all 12 PE generating stations and some 2000+ employees. William was responsible for bringing PE's maintenance organization into the modern era by setting up formal training and qualification programs for all maintenance personnel.

William de Mauriac probably would have received more local awards had he been born at least 10 years later, although he was one of our first recipients of the Delaware Valley Metals Person of the Year Award in 1957.

Our older members will still remember the contributions that William made to our chapter to help establish the chapter as it is today and we are all thankful for those contributions.

## Upcoming Events...

10-6-05	Thursday	<b>TOUR: Handy and Harm Specialty Tube Co.</b> Whitehall Rd and Township Line Rd, Norristown, PA	3:00 pm
10-20-05	Thursday	<b>Young Members Night</b> Topic: Failure Analysis of Space Shuttle Columbia Components, Williamson Restaurant, Horsham, PA	6:00 pm
11-8-05	Tuesday	<b>MEI Course - Welding Inspection &amp; Quality Control</b> SPS Technologies	
11-17-05	Thursday	<b>National Officers Night / Joint Mtg. with Lehigh ASM Chapter</b> Topic: Progress in Growth of Diamond Crystals, Williamson Restaurant, Horsham, PA	6:00 pm