Young Members Night
Thursday, November 19, 2015 - 5:30 - 7:30 pm

Tour and Social Meeting at Vault Brewing Company

Led by brewer and tour guide extraordinaire Richard Bolster.
Our tour will include a beer tasting plus a Vault glass to take home as a souvenir!
Tours will contain the following:
• Explanation of our brewing process from grain to glass
• Walk-through of the Vault
• Descriptions and demonstrations of serving styles
• Beer Tastings
• Clever musings and epigrams
• An overall sense of enlightenment

Vault Brewing Company located at 10 S. Main St., Yardley, PA
Parking at Vault - Parking is available in the rear of the Vault or across the street in the public parking lot at Buttonwood Park.
Please do not park in the nearby shopping center parking lot as those spaces are reserved for the businesses in that area.
For directions or more information - www.vaultbrewing.com.

Menu: Appetizers will be served throughout the night

Social Hour: 5:30 - 7:30 p.m. Prices: Members & Guests: $25.00; Retirees: $15.00; Students: $15.00

Technical Chairperson: Aaron Moyer, Solar Atmospheres, Inc.
Meeting Sponsors: Element Materials Technology and Hoeganaes Corporation
Chairperson’s Message

November 2015

As we turn the clocks back and get ready for the winter months, it is hard to believe that we will soon be in the middle of the Holiday Season. It is getting dark by the time we leave to go home from work and we will be fighting the cold of old man winter. I don’t know about you, but I am not ready for it.

Traditionally in November, we hold our Young Members night meeting for the ASM Liberty Bell Chapter. This year, we decided to break away from the typical locations of Drexel and Williamson’s Trade School and try something new. We will be hosting a private social networking event at Vault Brewing Company in Yardley, Pennsylvania in Lower Bucks County. Young Members Night is a good way to connect with the younger engineers and professionals that are members of our chapter. We hope the new location is centrally located enough that people will be able to easily make the event. It will be held on Thursday November 19th from 5:30pm to 7:30pm. There will be tours of the brewery and appetizers to eat throughout the night.

Finally, I continue to urge our chapter members to become more involved with the ASM Liberty Bell Chapter. We are constantly searching for more participation and volunteerism from our members and prospective members. Please contact me if you are interested in making a contribution of your time and skill.

Best Regards,
Jamie Jones
2015 – 2016 Chapter Chairperson

2015- 2016 Upcoming Events. . .

11-19-15 Thursday Young Members Night, Tour of Vault Brewing Company, Yardley, PA
11-24 thru 16 MEI Course - Fundamentals of Non Destructive Testing
1-21-16 Thursday Sauveur Award Night, Topic: Manufacturing of Pharmaceutical Tablets, Williamson Banquet, Willow Grove, PA
2-18-16 Thursday Continuing Education Night, Topic: Determination of the Degree of Thermal Exposure to Lower Head of 3-Mile Island Unit 2
3-17-16 Thursday National Officers Night, Topic: Heavy Closed Die Hydraulic Forging Presses, Williamson Banquet, Willow Grove, PA
4-21-16 Thursday Sustaining Members Night, Topic: Sustaining Member Expo, Williamson Banquet, Willow Grove, PA
5-19-16 Thursday Honors & Past Chairmen Night, Williamson Banquet, Willow Grove, PA

Welcome New Members. . .

Robert Curran             EDRO
Nicholas Carroll            EDRO

To ensure you receive your E-newsletter and yearbook: update your membership listing or your company listing by calling Membership Service, ASM International at 1-800-336-5152 or using the ASMI website at www.asminternational.org. This will permanently update your information. We depend on ASM International to receive our updated Chapter roster.

This Month’s E-Newsletter Sponsored by:

Struers Inc.
24766 Detroit Road
Westlake, Ohio 44145

Direct 216.364.2266
Telephone 440.871.0071 ext 858
Fax 440.871.8186
988.STRIERUS (988.787.8377)
www.struers.com • jefferies@struers.com

ENHANCE YOUR SKILLS AND ADVANCE YOUR CAREER
at a top ranked Materials graduate program

Drexel University
Materials Science and Engineering
Learn More >>
www.drexel.edu/materials
MEI Course: Fundamentals of Non Destructive Testing


When: Tuesday evenings 24 November 2015 through 16 March 2016 – 6:30 to 9:00 PM

Where: Laboratory Testing, Inc. 2331 Topaz Drive, Hatfield, PA 19440

Cost: $450.00 includes the 16 written lessons, course carrying 2.8 CEU’s and instructed by qualified personnel. Each student, after the first one from the same company will cost $400.00.

Fundamentals of Non Destructive Testing
With industry placing increasing emphasis on NDT for economic, environmental and safety reasons, it is more important than ever that NDT personnel have a through working knowledge of all types of NDT techniques and be familiar with the wide variety of equipment that is best used with each specific technique. This in-depth course covers all this basic information and goes much further, teaching class participants which types of testing should be done for numerous applications--and why, how to analyze NDT procedures, and how to interpret results. This technical and complex subject is presented in a way that makes it easy to comprehend in a relatively short time.

WHO SHOULD ATTEND?
• Technicians • QA Managers • Engineers • Managers • Individuals requiring an introduction to the fundamentals of NDT

COURSE OUTLINE:
1. Introduction to Nondestructive Testing
2. Liquid Penetrants
3. Magnetic Particle Inspection Fundamentals
4. Magnetic Particle Inspection Applications
5. Ultrasonic Testing Fundamentals
6. Ultrasonic Testing Equipment
7. Ultrasonic Testing Applications
8. Radiographic Inspection
9. Industrial Computed Tomography
10. Eddy Current Fundamentals
11. Eddy Current Applications
12. Acoustic Emission
13. Thermal Inspection
14. Microwave, Optical & Acoustic Holography
15. Interpretation & Classification of Indications
16. Nondestructive Testing Standards and Specifications

For more information or to enroll in this class contact Bob Rich at: rrich@spstech.com
Include: Name, contact information including: phone number, mailing address, your company affiliation.
Bob can be reached at 215-771-3647.

Check us out on Linked-In at: http://www.linkedin.com/groups?mostPopular=&gid=2897863
Check out our website at: http://philadelphia.asminternational.org

This Month’s E-Newsletter Sponsored by:

L&L Special Furnace Co., Inc
Industrial Furnaces, Ovens and Quench Tanks
Heat Treating Furnaces
• Highly Uniform
• Custom & Standard
• 60+ Years Experience
• Atmosphere Controlled
• Local Service

YOUR THERMAL INVESTMENT DESERVES SPECIAL TREATMENT
877.846.7628 • llfurnace.com
20 Kent Road Aston, PA 19014

SOLAR ATMOSPHERES
VACUUM PROCESSING
Heat Treating • Brazing • Carburizing • Nitriding
1-855-WE-HEAT-IT solaratm.com
Solar Atmospheres of Western PA recently had a groundbreaking ceremony for a facility to house their newest addition - a brand new 6-1/2 foot diameter by 48 foot long vacuum furnace with a load capacity up to 150,000 lbs. In the beginning of the new year, the behemoth furnace will be assembled within the newly constructed 18,000 square foot building. The furnace will be uniform to within +/- 10°F per AMS 2750 E between the production temperature ranges of 300°F to 2250°F with a maximum operating temperature of 2400°F. Rapid vacuum pump down to the low 10⁻⁶ Torr range will be attained by utilizing three Edwards booster pumps, three Stokes roughing pumps, and three 35” Varian diffusion pumps. Fast and uniform cooling will be achieved by using three 300 HP variable speed drive blower motors. Finally, a unique insulation pack will be installed into both load cars which will ultimately help reduce normal atmospheric (dew point) contamination.

This $10 million dollar plus project will complement the other large US patented dual bottom load car vacuum furnaces (one 36 foot long vacuum furnace, three 24 foot long vacuum furnaces, and one 12 foot long vacuum furnace) that are currently in production along with ten mid-size vacuum furnaces. Bob Hill, President of Solar Atmospheres of Western PA, states, “It is truly hard to believe that only 15 years ago we bought an empty 16,000 square foot building with a vision to expand Solar's customer base into western PA and northeast Ohio. After three building expansions, extensive investment, and hiring 50 extremely talented and dedicated employees, Solar will soon be operating within an 80,000 square foot state-of-the-art facility. The markets served will continue to be primarily quality aerospace and nuclear vacuum heat treating and brazing of large components.”

**SOLAR ATMOSPHERES OF WESTERN PA BREAKS GROUND TO MAKE WAY FOR THE WORLD'S LARGEST PRODUCTION VACUUM FURNACE**

---

**Institutional Members**
- DREXEL UNIVERSITY
- TEMPLE UNIVERSITY
- UNIVERSITY OF PENNSYLVANIA
- VILLANOVA UNIVERSITY
- WILLIAMSON COLLEGE OF THE TRADES

**2015 Sustaining Members**
- A.L. SINGMASTER PERSONNEL SVC.
- APOLO DESIGNS
- B&G MANUFACTURING COMPANY, INC.
- CONSULTING ENGINEERS & SCIENTISTS, INC.
- CORROSION TESTING LABORATORY
- CRAIG CLAUSER ENGINEERING CONSULTING, INC.
- DELAWARE VALLEY UTILITY ADVISORS
- DONOVAN HEAT TREATING COMPANY, INC.
- ECRI-MSLB
- EDWARD A. BOLL CO., INC.
- EXELON POWERLABS
- FREDERICKS COMPANY/TELEVAC DIVISION
- HOEGANAES CORPORATION
- IPSEN INC.
- LABORATORY TESTING INC.
- LECO CORP.
- MAGNA-TECH P/M LABORATORIES
- METLAB CORP.
- PENN STAINLESS PRODUCTS
- PRECISION TECHNOLOGY
- PRESSURE TECHNOLOGY, INC.
- RAMBALL TESTLAB, INC.
- REX HEAT TREAT
- SOLAR ATMOSPHERES INC.
- SOLAR MANUFACTURING INC.
- STRUCTURE PROBE INC.
- STRUERS INC.
- SUPERIOR TUBE COMPANY
- TINIUS OLSEN TESTING MACHINE CO., INC.
- ROBERT WOOLER COMPANY

**FREE SHIPPING & 10% OFF**

Call 1-800-828-6856 for more information

**Solutions for Materials Preparation, Testing & Analysis**

For more information, contact:
- Sandy Anderson
- (908) 812-0730
- sandy.anderson@buehler.com

---

**This Month’s E-Newsletter Sponsored by:**
- MetLab Corporation
- BUEHLER