



Thursday, March 21, 2002

Sauveur Award Night



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

Speaker:

Professor Herbert Herman
State University of New York

Topic:

Thermal Spray Science & Technology
Current Status & Future Trends

Dr. Herbert Herman is a Leading Professor at the State University of New York at Stony Brook and since 1996 has served as Director of the Center for Thermal Spray Research NSF Materials Research Science and Engineering Center.

Dr. Herman received his B.S. in Mathematics and Physics from DePaul University and his M.S. and Ph.D. in Materials Science and Engineering from Northwestern University. He was a Fulbright Fellow at the University of Paris, a Senior Research Associate at Argonne National Laboratory, and an Assistant Professor at the University of Pennsylvania. Professional highlights of his career have included supervising and advising 50 graduate students and serving as the Ford Foundation Professor in Industry, Liaison Scientist at U.S. ONR, London, Editor of "Treatise in Materials Science and Technology" (Academic Press), and Editor-in-Chief the journal "Materials Science and Engineering." He was the Founding Chairman of the Thermal Spray Division of ASM International.

Dr. Herman is a Fellow of ASM International, Fellow American Ceramic Society, and is a member of International Academy of Ceramics, Thermal Spray Society Hall of Fame, The Metallurgical Society, American Welding

Society, American Society for Engineering Education, AAAS, and Sigma Xi. He has published over 200 papers and holds 9 patents in Material Science and Engineering.

**TOPIC: Thermal Spray Science & Technology
Current Status & Future Trends**

The protection of engineering materials by overlay coatings has allowed structures to function under extreme conditions and has made feasible the introduction of novel materials into high performance applications. Surface engineering, using thermal spray coatings, represents a pragmatic and highly cost-effective means of satisfying stringent design criteria (e.g., in aerospace applications) for operating under extreme environments (e.g., high temperatures, wear, corrosion) and introducing a multiplicity of functions (e.g., thermal barrier, biomedical implants, electronic multi-layers). In addition to traditional applications of thermal spray, there is a rapidly growing activity in using this technology for producing engineered functional surfaces (e.g., Meso-Integrated Conformal Electronics). A brief introduction to thermal spray will be given, followed by recent developments in the field. Finally, an endeavor will be made to forecast the future role of thermal spray in engineering.

Technical Chairperson

Jeff Waldman
Drexel University

Dinner Menu

Fresh Fruit Cup
Caesar Salad
Beef Stroganoff Over Flat Noodles
Winter Mix
Chocolate Mousse

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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Meeting sponsors for the 2001-2002 year are:

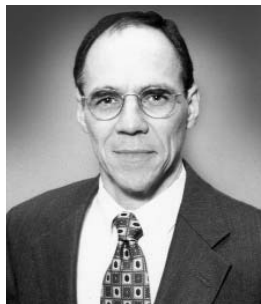
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Do you have news...

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

March, 2002

At this time of year, we are into what could be called "awards season." Since the first of the year, we've had our annual National Officer's visit (kind of an award to the chapter) and the February presentation of the Eisenman award and lecture. This month will see our presenter, Prof. Herbert Herman, accept the chapter's Sauveur award and provide a discussion on thermal spray technology. This technology has been advancing rapidly during the past few years, as seen by developments such as the ASM-affiliated Thermal Spray Society's formation and activities. It will be quite enlightening to see what new developments are around the corner for this technology.

At the Chapter level, the Executive and Operating Committees are finishing up this year's activities and planning for next year. Don't forget our Sustaining members' recognition lunch, which will be held at the Drafting Room in Spring House, PA on March 28. Also, our annual Sustaining Members Exhibition and Meeting will be on April 18.

All work and no play makes for a pretty boring spring time. We have two chapter activities coming up to help to shake off the winter blues. First, on March 14, we will tour the University of Pennsylvania Museum with several ASM members as our tourguides. This looks like a unique opportunity to see antiquity through the eyes of materials engineers. Second, a purely social program will be our annual Spring Dinner Dance on April 13. This year, we will be returning to the beautiful Old York Road Country Club for this event. Hope to see you there!

As a final reminder- if anyone knows a student who is eligible for one of the four chapter-administered scholarships, please encourage him/her to apply. Scott Nyce (215-721-1502), our Scholarship Committee Chair, can supply information and applications.

John Janiszewski
2001-2002 Chairperson

Sustaining Member Column!

Philadelphia Chapter ASM members would like to learn more about the sustaining member companies. We've had a few companies submit writeups, but we would like more. Please consider submitting a brief write up so that we can run it in the newsletter. We particularly appreciate those companies who advertise in our Annual Yearbook and who act as meeting sponsors. We hope you will assign this task to someone in your organization. It can be brief and it should only take a few minutes. You should email it to Jim Waters, our newsletter chairperson at dvua2@cs.com or you can even call 215-699-0690 and dictate it.

Sustaining Member Spotlight - Delaware Valley Utility Advisors

DVUA was founded in 1991 by Jim Watters. The company's mission is to help its commercial and industrial clients save money on utility costs - primarily energy costs but also water and sewer and telecommunications costs. Jim has been an ASM member going back to his undergraduate days at Illinois in the 60's, and on and off during his professional career. He became a member of the Philadelphia Chapter in 1983, and DVUA became a Chapter Sustaining Member in 1992. Most of DVUA's clients are manufacturers. Just about all of them have been in an area from Detroit to Boston to Atlanta, and about half within a two hour drive of Philadelphia. Several are heat treaters. "In a previous life" Jim worked for Bethlehem Steel, Corning Glass, and in the industrial gas business marketing heat treating atmospheres and argon and oxygen for steelmaking.

DVUA finds utility billing errors, rate alternatives, opportunities for reducing peak power demands, and energy conservation opportunities. Power companies make more billing errors than you might think, and peak power demand charges usually account for 30 to 40% of most electric bills. In telecommunications DVUA looks at traffic flows and line utilization as well as call routing and PBX programming. DVUA still has several clients that were signed up during its first year in business. Most clients are on multi-year contracts that provide for ongoing efforts that result in continuous cost improvement over time. Savings for several clients have exceeded \$1 million. Much of the effort is done on a shared savings basis.

In the past year or so DVUA publications and presentations have included:

1. "Energy Savings Economics - Not Always What they Seem" in *Energy Engineering, the Journal of the Association of Energy Engineers*, co-authored with The Budd Company of Philadelphia.
2. "Sights on Energy Efficient Lighting" for an Energy Conservation Workshop sponsored by the Pennsylvania DEP.
3. "Controlling Your Energy Costs" for the Summer 2001 meeting of the Metal Treating Institute.
4. "High Tech Energy Audits" written at the invitation of the editor and scheduled for future publication in *Heating, Piping and Air Conditioning*, co-authored with The Interfaith Coalition for Energy.

Bus Boosts Student Attendance

This year ASM is making a push to increase student attendance. At the October meeting the chapter provided a bus from Drexel University to the Williamson Restaurant and back. The result was that 20 students from Drexel attended the meeting. As a result, at the November board meeting a decision was made to provide a bus for the balance of the year. For the January, February, March, April, and May meetings the chapter will have a bus available to transport students from Drexel University as well as The University of Pennsylvania to the meetings. If you need more information please contact Professor Jeff Waldman at Drexel, 215-895-2331.

ASM Spring Dance

Date: April 13th

Time: 6:00 pm.- 11:00 p.m.

Place: Old York Rd. Country Club
801 Tennis Avenue
Spring House, PA

Join us for the Cocktail Hour from 6:00 - 7:00 p.m. Enjoy gourmet hot and color hors'-d'oeuvres and a deluxe open bar. Dinner is served at 7:00 p.m. and your menu selection includes: filet mignon or grilled salmon.

Accompaniments includes baked stuffed potato, green beans almondine, assorted rolls and dessert.

Music will be provided for your listening and dancing pleasure.

The cost is \$50.00 per person. Contact Mike Drakeley at 215-721-1502 x 203 with your reservation or fax 215-723-6460. Make checks payable to ASM-Liberty Bell Chapter.

Send your check & menu selection to:
Solar Atmospheres, Inc.

Attn: Mike Drakeley
1969 Clearview Road, P.O. Box 476
Souderton, PA 18964

*** Please note - in the past we indicated this was a cash bar. It will be an open bar.**



Golf Outing - May 6th

The annual golf outing is set for May 6th at Center Square Golf Club on Rt. 73, a few minutes north of Rt. 202. Please mark your calendars. Additional details will be forthcoming. We are planning on reserving a limited number of Tee times, so space will be limited this year. Be sure to get your reservations in early. You can contact Mike Drakeley for additional information at 215-721-1502 x 2203.



UPCOMING EVENTS

March 14	Penn Museum Tour
March 21	Next Regular Meeting
March 28	Sustaining Members Luncheon
April 13	Dinner Dance
April 18	Sustaining Members Night - Expo
May 6	Annual Golf Outing

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