



Thursday, September 17, 2009

Opening Night

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

Speaker: LEROY ALAWAYS, Ph.D., Villanova University

Topic: History and Aerodynamics
of the Curveball



Have you ever wondered how or why a baseball curves? Can a fastball actually rise? Does a four-seam pitch curve more than a two-seam? This presentation looks into the history and aerodynamics of the

curveball from Isaac Newton by way of Igor Sikorsky to present day research. The *Life* and *Look* magazine debates of the 1940's and other trivia and rhubarb will be presented in addition to a little mechanical sports engineering. Oh, the answers to the above three questions and more will also be given in this entertaining presentation so bring a pad and take some notes, there might be a quiz afterwards.

Dr. LeRoy Alaways is currently the mechanical engineering capstone design coordinator at Villanova University. His engineering experiences range from accident reconstruction and bioengineering at Exponent, Inc to motion tracking of brilliant pebbles at Lawrence Livermore National Laboratory. He has nine years of mechanical engineering teaching experience at Villanova University, Temple University, University of California, Davis, United States Military Academy, West Point, California Maritime Academy, and California State University, Sacramento. Dr. Alaways received a Ph.D. in Engineering from the University of California, Davis, and his Ph.D. dissertation on the aerodynamics of baseballs is in the National Baseball Hall of Fame.

****Please Note ****

The November ASM meeting will be held at Drexel University.
See details on page 3.

Technical Chairperson

Travis Nelson
LTK Engineering Services

Meeting Sponsors

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Dinner Menu - Buffet Style

Caesar Salad
Chicken Parmesan
Tilapia
Roast Top Sirloin of Beef
Parsley Potatoes
Peas with Mushrooms
Ice Cream Cake w/ Chocolate Sauce

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

Prices: Members & Guests: \$30.00;
Retirees: \$20.00; Students: \$16.00

Meeting Registration:

Register to attend our meeting on our web site www.asm-philadelphia.com. If you have a large group attending or do not have access to the web site, please contact Don Jordan at 215-721-1502 ext 206 to register.

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Chairperson's Message

September, 2009

Greetings to all,

The summer is winding down but the Phillies are staying hot. The back to schools sales are everywhere and all the "clunkers" are off the road. I guess this means a surplus of scrap metal for awhile. With regard to ASM activities, there has been much going on. Much thanks to Tom Reid, Dr. Rick Knight, the students at Drexel, the employees at Boeing, all of the sponsors and the fine high school students, for making the 2009 Materials Camp a great success. Thanks also to Al Singmaster, Tim Steber, John Janiszewski, and Tom Reid for joining me at Solar Manufacturing to proof read the yearbook. Thanks to Ed and Terry Mazeika for putting together the yearbook.

Sarah Mansuetti, my wife Barbara and I went out to Denver to attend Leadership Days. The many sessions only reinforced my desire to say that our chapter has enjoyed the luxury of great leadership. Almost everything that was presented, we are already doing. I would like to thank my company, SPS Technologies and Sarah's employer, Rex Heat Treat for their support and willingness to help with our expenses and travel time to attend this most worthwhile event. One idea that I would like to see us try is a Materials Camp for High School and Middle School science teachers.

September's meeting kicks off our program for this year. It is a joint meeting with the ASNT Greater Philadelphia Section. As a past chairman and presently on the Executive Committee of ASNTGPS, I feel that this is a special meeting. The topic, "*History and Aerodynamics of the Curveball*" sounds very interesting. I hope to see a very good turnout for this meeting.

As you arrive, you will find a new greeter to welcome you and register your presence. Kim Horrocks of Solar Atmospheres is our new Chair of Fellowship and Registration. Please welcome her to her new position as well.

Sincerely,

Bob Rich
2009-2010 Chairperson

Upcoming Events...

- 9-17-09 Thursday **Opening Night**
Topic: History and Aerodynamics of the Curveball
- 10-15-09 Thursday **Eisenman Award Night**
Topic: Strain Gage Materials:
Processing- Metallurgy - Manufacturing
- 11-19-09 Thursday **Young Members Night at Drexel University**
Topic: Influence and use of Standards in the
Specialty Metals Industry

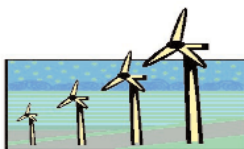


Four former Chairmen enjoy the ASM-ASNT golf outing last June. From left to right: Don Jordan, Tom Reid, Al Singmaster and Jim Watters.

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Awards Announced at May 2009 Meeting

The following awards were announced at the May meeting:

- Delaware Valley Materials Person of the Year. Al Singmaster
- Adolph Schaefer Special Achievement Award. Ron Smith
- Meritorious Service Award. Ed Neu
- Outstanding Company Support Award. Delaware Valley Utility Advisors
- Philadelphia Chapter Distinguished Service Award. Tom Reid
- President's Award. Roger Jones
- Young Member Award. Mark Heuberger

The following two awards will be presented in 2008-09:

- William Hunt Eisenman Award. Mark Robinson
- Albert Sauveur Lecture Award. Richard Knight, PH.D., FASM

2009 Scholarship Winners

The Philadelphia Chapter announced the award of three \$1500 scholarships at the May meeting. The awardees are:

- AW (Doc) Grosvenor Scholarship - Eric Brenner - Drexel University
- Anthony Gallacio Scholarship - Xiao Qiao - Drexel University
- Joseph J. Weisser Memorial Scholarship - Laura Lucca - Penn State

2009 Charles F. Burns Jr. Postgraduate Poster Contest Winners

The annual C.F. Burns Memorial Poster Contest was held at the April meeting. Competing graduate students display a poster that describes their research activity. Each student then makes a three-minute presentation, which is followed by questions. The decisions regarding awards are made by a committee of three chapter members. Cash prizes are handed out during the meeting. The April 2009 winners were:

- First Place** - Philip Hunger - Drexel University - *Freezing Hierarchically Structured Polymer, Ceramic and Hybrid Tissue Scaffolds*
- Second Place** - Stephen Nonnenmann- Drexel University - *Finite Curvature-Driven Giant Ferroelectric Response in Cylindrical Coaxial Nanostructures*
- Third Place** - Rijju Singhal - Drexel University - *Nanoscale Probes for Single Cell Interrogation*

Young Members Night has Changed Venue

Young Members Night for the Philadelphia Liberty Bell Chapter has changed! A joint meeting between the Liberty Bell Chapter and Drexel University's Department of Materials Engineering (MSE)/Graduate Student Organization (MAGNET)/Material Advantage Student Chapter will be held on **Thursday, November 19, 2009, at Drexel University** starting at 6:00 pm. Please come out and join us at The Bossone Research Building's 3rd Floor Atrium at Drexel University. We will have a tour of their MSE Department and Central Research Facilities, as well as hear from a few students on their areas of research. Paul Whitcraft from Rolled Alloys will be our speaker for the evening. There is parking available near the Bossone Building; it is also approximately one block from 30th Street Station. If you are interested in driving or riding in a carpool - please email sarah.mansuetti@rexht.com. Any questions on Young Members Night please see or email: Sarah Mansuetti (sarah.mansuetti@rexht.com), Brian Gorney (bgorney@labtesting.com) or Dr. Richard Knight (knightr@coe.drexel.edu).

Welcome New Sustaining Members

- Struers Inc. Jerri Jefferies
66 N. 2nd St. Pike, Churchville, PA 18966
- Rowan University Paris R. Von Lockette
Glassboro, NJ 08028

For more info about the ASM Liberty Bell Chapter...

Contact Chapter Chairperson Bob Rich at 215-572-3485 or email him at rrich@spstech.com.

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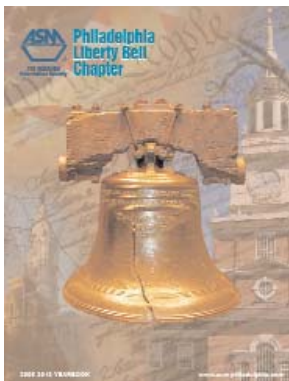
that should be shared with the other members of the "Liberty Bell" Chapter? If so, please send your info to Jim Watters at his email address:

dvua@verizon.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.asmiinternational.org. This will permanently update your information. We depend on ASM International to receive our updated e-mail list for this e-newsletter and company membership listing for the upcoming 2009-2010 yearbook.

Keep An Eye Out For Your Yearbook -- It's in the mail!!**Welcome New Members...**

Sarah Abboud	Northeastern University	William Kmec	Christopher Columbus No. 15 HS
John Allison	Naval Surface Warfare Center	Karen L. Kuiper	JP Case Middle School
Thomas Allison	Allison Systems Corp.	James Lenoir	New Media Tech. Charter School
Nicholas C. Barbi	PusieTor LLC	Anthony M. Leofsky	Naval Surface Warfare Ctr.
Robert Baren	Temple University	Thomas Lewis, III	
Cal Branum	Plasma Powders & Systems	Eric Low	Gerdau Ameristeel
Joseph F. Braza		Bob McDemus	Plasma Powders & Systems
Ben Brock	Hunter Chemical LLC	Heidi McKenna	Televac Div of Fredericks Co.
David Brough	Rex Heat Treat	James L. McMahon	Houghton Intl. Inc.
Etzel C. Brower	Egg Harbor Twp HS	Diane Minsavage	Hanover Park HS
Cecilia Crespo	A V Ceres School	Ankur Modi	Plasma Powders & Systems
Rhonda S. Dalton	Colonia HS	Richard Nanni	White Engineering Surfaces
Vandita G. Desai	Creative Arts HS	Jim Navins	Clearview Reg. HS
Brittney Dhein	Solar Atmospheres Inc.	Peter H. Newman	Elizabeth HS
Robert Didomizio	RAD Engineering Corp.	Nick Novak	Jarex Enterprises
Imants Ekis	New Holland NA	Virginia Osterman	
Peter Elliott	Corrosion & Mats. Consultants	Ms. Kerri Petterson	Downingtown East HS
Danielle Fau		David P. Pope	Univ. of Penn
Andrew E. Fisk	Pulse Tech. Inc.	Don Potenza	Plasma Powders & Systems
John Foy	Plasma Powders & Systems	Rex Roberts	West Pharmaceutical Services
Peter Foy	Plasma Powders & Systems	Matthew Schecter	Drexel University
Robert J. Fulton		Joe Sherlock	Tinius Olsen Testing Machine
Allan Furtek	Rutgers Prep School	Christopher Smith	Penn Engineering
Vincent M. Giglio	Heyco Products Inc.	Howard Tring	Vacuum & Low Press Consulting
Eric G. Hakun	Naval Surface Warfare Ctr.	Rheal P. Turcotte	NASA
Frederick R. Kachele	Naval Surface Warfare Ctr.	Pete Vucelich	The Rose Corp.
Curtis Kleier	Central Region HS	Christopher W. Younker	Tube Methods Inc.
		Jonathan S. Zacharkiw	Naval Surface Warfare Center
		Vince Zuwiala	Naval Surface Warfare Center

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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.

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A **Special Thank You** to the yearbook advertisers this year. We appreciate your continued support and for helping keep this chapter strong even through this past year.

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Materials Camp 2009



Twenty four of the most gifted high school students from our area attended our 5th Annual Materials Camp at Drexel University June 22 through June 26.

Our fifth annual Materials Camp held at Drexel University June 22 through June 26 was a resounding success. A diverse class of 24 extremely gifted high school students were treated to a priceless learning experience. The camp was a combination of classroom lectures supplemented with hands on lab work, and team projects. The highlight was an all day visit to The Boeing Rotorcraft facility in Ridley Park. They toured the production lines, wind tunnel, and materials testing labs. They experienced materials engineers working in a real world environment. Hopefully the seeds were planted for them to choose a Materials Engineering career path.

A successful camp is possible due the efforts of many individuals and organizations. We are extremely fortunate to have the Materials Engineering Department of Drexel University, led by Dr Rick Knight, as our partner. I thank the many graduate students who volunteered their time to conduct classes, lab demonstrations, and serve as inspirational role models for the class. I especially thank Amanda Levinson who served as camp coordinator for the second year. She made my job much easier, handling all the many details involved.

We also could not have a better industry partner than Boeing Rotorcraft. Richard Walsh and his staff, do a fantastic job of guiding and inspiring the students during their visit.

There are considerable expenses involved in conducting our one week long camp. The generous financial support of the following companies make it possible to conduct this worthwhile program.

Boeing Rotorcraft	Johnson Matthey
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We are beginning the planning process for the 21010 camp. We will be looking for financial support. If you would like to have your company associated with this extraordinary program, you may contact me at 215-378-5997, or ReiTmRd@aol.com

Tom Reid
 Materials Camp Co- Chairperson

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Best Wishes to the Philadelphia Chapter