



The American Society of Mechanical Engineers

Chair's Letter

What Happened to Winter?

I am a California native and besides the bitter cold for two weeks we have had a winter that my friends in California are jealous of. However, I do find melting snow fascinating and if I grew up in Philadelphia I might have become a Civil Engineer just to study water flow.

Things are moving along in the Philadelphia section. Coming up we are having a meeting at Temple University on Applied Biomechanics. Chimba Mkandawire, the presenter, has had some very interesting experiences while working at Exponent in this area. It should be a very interesting and informative talk. Our yearly awards banquet is being planned for those members who have been with ASME for 25 years and 50 years, watch your mail for an invitation. The AIAA/ASME Mini Symposium is upon us (March 17), as well as a Philly-local job fair at Villanova (April 11). As always we are looking for field trip opportunities and guest speakers so if you have any ideas please let me know.

In the next three months we will be electing new officers for the ASME Philadelphia Section and we are always looking for volunteers for the section. If you would like to see what we do or becoming an officer, please attend an executive committee meeting. They are typically held the first or second Tuesday of the month at Villanova University. (Contact one of the officers listed at the right.)

May flowers are soon upon us and I hope you are enjoying this year so far.

LeRoy Alaways, Chair

Letter from the Editor (again)

In the last newsletter, I asked section members to update their email address with ASME. I hope many members have checked and updated the address where necessary.

The section newsletter is usually mailed to every member of the Philadelphia except for those who have indicated that they can read the newsletter on our section web site. The completed newsletter is posted and an email is sent to members who have indicated that they want to read the posted version.

For this edition emails will be sent to members who have said they can read the newsletter on our web site. If you have indicated in the past that the web copy is what you want and have submitted on email address, you will be notified by email.

In the future, if you would like to receive an email notice and read the newsletter on line, send an email to the editor and make sure that your email address is up to date on the ASME

Philadelphia Section Newsletter

www.sections.asme.org/philadelphia April 2007

Philadelphia Section Officers 2006/07

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Please send letters and comments to the Editor. Letters will be published unless otherwise requested depending on space limitations.

web site. I use the email address from the ASME member list as the current correct address.

I also use the email address to contact our members about section events. For example on September 26 we had a tour of the Boeing V22 production facility in Ridley Park. If you did not receive an email about this event, ASME does not have your current email address.

Go to ASME.org. At the top of the page, click on MEMBERS ONLY and in the next page enter your last name and member number. On the left side of the next page, you will see your ASME member information. Check and update your email information.

The primary purpose of using email is to quickly notify members of events that we do not have time to post in the newsletter. We want to maintain contact with all our members. In the past, members have contacted me and said that they do not have to get the newsletter. They say that they are trying to save the section the cost of the newsletter. But the section wants to maintain contact with all our members, even retired members. So as long, as you are an ASME member you will continue to receive the newsletter.

Villanova University Student Section Job Fair

The Villanova University ASME Student Section is planning on holding a job fair at Villanova on April 11 from 4:30 to 7:30 PM on the Villanova campus in the CEER building. Students from the local engineering colleges are attending.

The activity will host mechanical engineering companies from different parts of the northeast so mechanical engineering students from Villanova, Drexel, and Rowan can obtain internships or full time positions from these companies and obtain contacts with them as well. If your company is looking for new employees, this career fair may be an option for you.

A registration system has been set up so companies can register online via Acteva.com (<http://www.acteva.com/go/Villanova>). You can also contact Tim Montalbano directly at Villanova for more information (timothy.montalbano@villanova.edu).

Future City Competition

Each year the Philadelphia section awards a prize at the Philadelphia Future City competition for the best moving part. This year the award went to the team from the Joyce Kilmer School in Trenton, New Jersey. Mr. Bruce Williams is the team's advisor at the school. Mr. Williams and team members Laetitia Burke and Arpege Lewis are shown in the picture below. Jared Anderson, the third team member is not shown.

Congratulations to the Joyce Kilmer school and all team members.



Bruce Williams, Laetitia Burke and Arpege Lewis. (not shown Jared Anderson)

AIAA/ASME Mini Symposium

The third Philadelphia mini-symposium is being held at the Double Tree Guest Suites, Plymouth Meeting, PA on March 17, 2007. There are many interesting speakers and presentations scheduled. If you have the time, plan on attending. More information can be obtained at <http://www.homepage.villanova.edu/charles.marston/aiaa> and an updated program can also be obtained at our section web site <http://www.sections/asm.org/philadelphia>.

March Section Meeting (March 29)

The subject for our March meeting is in the area of biomechanics. Our speaker is Chimba Mkandawire. He works at Exponent, a company with offices in Philadelphia which specializes in failure analysis and research. Dr. Mkandawire is also a Research Assistant Professor at Drexel University. He consults in matters involving traumatic human injury in transportation, industrial equipment, falls, consumer products, sport and racing activities and the workplace. Dr. Mkandawire received his bachelor's degree in Mechanical Engineering from the Massachusetts Institute of Technology, and his doctorate in Bioengineering from the University of Washington.

Applied biomechanics is the process of using the engineering toolset of the principles of mechanics and physics to develop a greater understanding of a problem. The application of biomechanics will be discussed in the framework of Injury Biomechanics and Occupant Kinematics. Dr. Mkandawire will present a review of some of the more interesting consulting assignments he has had the privilege to work on and publish about. This review will span from vehicle collisions, to forklift operators and to high voltage power lines.

April Section Meeting (April 17)

The sections annual awards dinner will be held on April 17 in Haddonfield, New Jersey. The speaker will be Wilbur Wamsley, president of Wamsley Violins in Haddonfield. The company builds, restores and sells professional quality string instruments and bows.

Wilbur attended Eastern College as a music major and began violin studies in 1973. After several years of independent research, he joined the firm of William Moennig and Son as an apprentice violinmaker in 1975 where he received his formal training in the esoteric field of fine restoration from some of the world's most renowned violin masters and experts.

In March of 1991, he left William Moennig and Son to start his own firm specializing in the restoration and sale of antique and rare instruments of the violin family. Besides teaching violin making and repair, he has also lectured on these subjects, plus the history and development of the violin, to various organizations and colleges, including auxiliary groups of The Concerto Soloists of Philadelphia and The Philadelphia Orchestra. He has been interviewed by National Public Radio, National Free Radio and appeared in a feature article in the Philadelphia Inquirer in October 1991, as well as having authored many articles.

Mr. Wamsley has been accepted as an expert witness by The United States Federal Court and has been retained by the Philadelphia Orchestra for the maintenance and appraisal of its stringed instruments. He has served as consultant for several major musical instrument insurance companies and has been recognized as an expert appraiser.

Mr. Wamsley will discuss the current research and understanding of classic stringed instruments from the time of Stradivari (1700 and later). He will discuss the construction and materials of these instruments and also the forces and dynamics which the instrument makers used to create the intense sound available from the instruments.

2007 ASME Spring Golf Outing

Manufacturers' Golf and Country Club
Oreland, PA.
Monday, 14 May 2007

Check-in for golf is 9:30 AM: shotgun start at 10:30 AM.
Social hour starts at 5:00 PM: buffet dinner at 6:30 PM.
Non-golfers are welcome.

Price (per person):
Golf only - \$160.00
Dinner only - \$70.00
Golf and dinner - \$200.00

Golf payment includes lunch box, cart and gratuities for the day. No caddies available.
Deadline for golf and dinner reservations is 30 April 2007. No refunds after deadline.
No reservations accepted without payment.

Limited to the first 160 golfers.

Golf format: four-player scramble.
Locker room facilities available after golf.
All dinner attendees are eligible for door prizes: must be present to win.
Directions to the Club will be sent with confirmation.

Complete and send, with check, to: ASME Entertainment Committee
C/o John Jorgensen
528 Daventry Road
Berwyn, PA 19312
phone: 610-647-0246, fax: 610-647-0237
e-mail: johnjorg@hubbardco.com

Enclosed is my check for \$ _____ for ___ golf and dinner tickets @ \$200.00 each
for ___ golf (only) tickets @ \$160.00 each
for ___ dinner (only) tickets @ \$70.00 each
for ___ hole sponsorship @ \$350.00 each, or
for ___ hole sponsorship @ \$100.00 each in addition to foursome
for ___ morning coffee & bagels sponsorship @ \$100.00 each

Make check payable to "ASME Entertainment Committee, Phila. Section".

Specify contact for confirmation and further correspondence.

Name _____
Company _____
Address _____
Phone _____ Fax _____ e-mail _____

Indicate contribution:

balls: _____ no. _____
hats: _____ no. _____
shirts: _____ no. _____
other: _____

PLEASE PASS THIS FORM ON TO OTHERS WHO WOULD LIKE TO PARTICIPATE

ASME MEETING MARCH 29

Applied Biomechanics - Using Injury Biomechanics and Occupant Kinematics

Time: Food and Refreshments at 6:30, Meeting at 7:00 pm. (Sandwiches and drinks will be provided.)

Speaker: Chimba Mkandawire, Ph.D. (See page 2 for more information about our speaker.)

Applied biomechanics is the process of using the engineering toolset of the principles of mechanics and physics to develop a greater understanding of a problem. The application of biomechanics will be discussed in the framework of Injury Biomechanics and Occupant Kinematics. Dr. Mkandawire will present a review of some of the more interesting consulting assignments he has had the privilege to work on and publish about. This review will span subjects from vehicle collisions, to forklift operators and to high voltage power lines.

Location: Temple University, Engineering and Architecture Building, Corner of Norris Street and 12th Street, Philadelphia, PA. Room 126 Directions to Campus: <http://www.temple.edu/maps/directions/main.htm>

Campus Map: <http://www.temple.edu/maps/maps/main.pdf> (Building 17 on map)

Note: There is plenty of on street parking nearby and a paid parking lot on Diamond Street between 11th and 12th.

For more information or to RSVP, contact LeRoy Alaways at lalaways@temple.edu or leave a message indicating how many attending at 215-204-4306 by March 27th.

ASME MEETING APRIL 17

Myth and Mystery of Stringed Musical Instruments

Time: Registration and Social 5:45, Dinner 6:15, Presentation at 7:00 pm. (Sit down dinner with wine. Entré choice: Chicken Sorrento, Veal Piccata, Grilled Salmon Filet)

Cost: \$35

Speaker: Wilbur Wamsley (See page 2 for more information about our speaker.)

Location: Cristina Restaurant, 18 Tanner Street, Haddonfield, NJ.

Mr. Wamsley will discuss the current research and understanding of classic stringed instruments from the time of Stradivari (1700 and later). He will discuss the construction and materials of these instruments and also the forces and dynamics which the instrument makers used to create the intense sound available from the instruments.

Directions: Haddonfield is easily accessible by the Patco Hi speed line from center city Philadelphia. For directions by car see Cristina's web page for directions. (www.shophaddonfieldnj.com/restaurants/cristina.php). The site includes directions and a map of Haddonfield. There are numerous parking lots in the town and on street parking is available. Meters are free after 6PM.

For more information or to RSVP, contact John Wolf at john.j.wolf@villanova.edu or leave a message indicating how many attending and **meal choice** at 610-519-6129 by Thursday, April 12.