



The American Society of Mechanical Engineers

Letter from the Editor

Fellow Members

In the past year, ASME has reorganized its international structure to better serve its members all over the world. Over the last 10 years ASME has added numerous international sections and regions. ASME now has sections in areas as diverse as Singapore and London. Because of the international efforts, ASME resources have been stretched almost to the breaking point. It will be several years before we know whether the benefits of the international push will pay off in new members and influence.

The major effect of these efforts on local sections has been that section funding has been reduced. The original plan was to totally eliminate section funding. But because of discussions over the past year, ASME has reevaluated section funding. The current plan is to fund sections with active programs. Each section is required to submit activity reports and funding requests. The national office will evaluate these requests and provide funding as the funds are available.

What does this change mean to local sections? In many cases funding for a section will be drastically reduced or even eliminated. Many sections are spread over a large geographical area and it is difficult for members to meet on a regular basis. Other sections, such as Philadelphia, have a large concentration of members. These sections, which are able to hold regular meetings and events should have sufficient funding to continue the normal local events. The exact sequence of funding is still being established.

The Philadelphia section will have to maintain the level of activity and even expand our events to maintain funding. The executive committee is still committed to serving our members and providing interesting events.

This year we have continued our normal monthly meetings with light dinners and a speaker. We have had three speakers this year and in April will hold our annual award night on April 25. We also recently held our symposium with AIAA at the Guest Quarters in Plymouth Meeting.

We must continue our local activities and maintain a healthy section for our members. The local section is the prime contact between ASME members and the rest of the organization. But in order to maintain an active section, we must have the participation of the local members. Because the sections have more responsibility, we local members must become more active in our local sections. The change in funding will require more reporting and record keeping to justify our funding level. We must also provide interesting meetings and events for our local members.

You can probably guess what's coming next. We need to have you become involved with the section. Come and attend the presentations which the section organizes. Also if you have the time, come to executive committee meeting and help with the section planning. We do need people to help plan and run the events. They don't just happen. They take work on the part of dedicated members. And the more people we have involved the easier the job becomes. New people also means new ideas.

Philadelphia Section Newsletter

www.sections.asme.org/philadelphia April 2006

If you have the time, contact anyone of the people listed in the Philadelphia Section Officers list on this page. The work is interesting and even fun. Hope to see you soon.

Upcoming Section Meetings

Tuesday, April 25
ASME Annual Awards Dinner
Speaker: Dr. Leroy Alaways
Plymouth Meeting Guest Quarters
Plymouth Meeting, PA

See below and 6 for directions and information

Directions to Plymouth Meeting Guest Quarters

The April 25 meeting will be held at the Doubletree Guest Quarters in Plymouth Meeting, located on the west side of the Plymouth Meeting Mall. From Philadelphia and the Schuylkill Expressway take Route 476 (Blue Route) to Exit 20 - Germantown Pike West. At the third light, turn right onto Hickory Road. Go to first light and make a left onto Fountain Road. Hotel is at the first stop sign on your right.

From the Pennsylvania Turnpike, take Exit 333 -- Norristown. Following signs to Plymouth Road, turn left at the first light onto Plymouth Road. Turn right onto Germantown Pike at the next light. Proceed on Germantown Pike and turn right onto Hickory Road at the second light. Go to first light and make a left onto Fountain Road. Hotel is at the first stop sign on your right.

Upcoming Section Meetings

The section is holding our annual awards dinner on April 25 to honor our 25 and 50 year members. The dinner will be held at the Doubletree Guest Quarters in Plymouth Meeting. The speaker for the meeting will be Leroy Alaways who will talk on the trajectories of the different pitches of baseball; curve, fast, slider, and knuckle as well as the trajectories of fly-balls. Explanations of the so called "Gyro-Ball" as well as the effect of moving the outfield fence in Citizen's Bank Park will be included.

Besides receiving lifetime pass to the National Baseball Hall of Fame for his work on baseball aerodynamics, Dr. LeRoy Alaways earned a B.A. in Mechanical Engineering from California State University, Chico, and a MSME and Ph.D. from the University of California, Davis. He was a Davies Fellow in Engineering Education at the United States Military Academy, West Point and has worked in the aerospace industry with Rockwell International and Lawrence Livermore National Laboratory. His areas of expertise include Sport Engineering, Design, Mechanics, Dynamics Systems, and Controls. Dr. Alaways is currently teaching Mechanical Engineering at Temple University.

Philadelphia Section Officers 2005/06

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

Women's Engineering Explorations - High School Outreach

Temple University's College of Engineering is proud to announce a week long, on campus summer residency program titled 'Women's Engineering Explorations' This program gives interested incoming high school sophomores, juniors, and seniors the opportunity to explore the world of engineering and to discuss it with college professors, students, and distinguished guest speakers. Participants will be introduced to engineering principles, and will have opportunities to reinforce their math and science skills. Hands-on projects, industry field trips, and lectures from esteemed engineers are included in the program.

Temple's College of Engineering is especially interested in encouraging young women to pursue studies and careers in engineering. We have named this program WE2 or 'WE Too' because the program's primary goal is to reinforce that woman make talented and skillful engineers. During the course of this program, participants will hear from distinguished women leaders describing the challenges and rewards that careers in engineering have provided. Current female engineering students will act as mentors and will answer questions about student life at a prominent research university.

Please see ad for more information or our website at www.temple.edu/engineering/we2/we2.htm



Women's Engineering Explorations
July 10-15, 2006


Temple University's College of Engineering is offering an exciting one-week, residential summer program for high school students entering their sophomore, junior, or senior year.

- Experience college life on Temple's main campus in Philadelphia, Pennsylvania
- Explore the world of engineering with college professors, students, and industry leaders
- Go on industry field trips
- Participate in hands-on labs in Mechanical, Civil, Electrical, and Environmental Engineering
- Hear lectures from esteemed engineers
- Only \$350 per student

Learn about the challenges and rewards that careers in engineering have provided. Visit www.temple.edu/engineering/we2/we2.htm to learn more and to obtain an application form.

Contact:
Dr. LeRoy Alaways
lalaways@temple.edu
215-204-4306

Dr. Soumi Basu
soumi@temple.edu
215-204-8723



Recent Section Meetings

SR71

About 50 people attended the January 31 presentation on the SR71 reconnaissance aircraft. Our speaker, Col. (Ret) Richard Graham, flew the Blackbirds for over seven years on operational missions, amassing 765 hours in the SR-71.

Retiring after 25 years in the Air Force, Col. Graham flew for American Airlines. He retired in August 2002, after 13 years as a Captain on the MD-80 aircraft. He has accumulated over 12,000 flying hours. He now keeps busy as an author, speaker, aviation consultant, and flight instructor. He presented a very interesting description of the flight and operational characteristics of the aircraft.

Roller coaster design

Larry Chickola, P.E., Chief Corporate Engineer, Six Flags Theme Parks, presented a discussion of the past and current practices of amusement ride design. Lots of design examples are included, from components to full rides. Ride dynamic testing will be explored, along with a discussion of the biodynamic effects of rides on people.

Mr. Chicklola also presented a discussion of engineering as a career and how an engineering degree can lead to working on space satellites, passenger trains, National Defense, and amusement rides. This meeting was our annual student night presentation and was open to all members and their families. Over 70 people were in attendance.

ASME Rolling Element Bearing Course

Thursday, June 1, 2006
SKF USA Trooper Facility,
1111 Adams Ave.
Norristown, PA 19403

Presenter: Joe Conyers
SKF Reliability Maintenance Institute

Facilitator: James Tully
SKF Senior Applications Engineer

Key Information

Course Overview: This customized Rolling Element Bearing Course uses a combination of hands-on training, audio-visual, lectures and discussion opportunities to deliver an introduction to the basics of Bearing Selection, Installation, Maintenance and Service Life Improvement.

Objectives: The course objective is to train participants on basic rolling element bearing maintenance and service techniques used with typical industrial rotating machinery. This knowledge, properly applied, will lead to longer bearing service life, which improves the reliability of rotating equipment.

Key Learnings:

1. How to improve bearing service life in Industrial applications.
2. Maintenance and Lubrication
3. Proper Repair techniques
4. Introduction to diagnosing bearing failures in service.

Target Audience: Rotating equipment engineers, machine design engineers, reliability engineers, those interested in rolling bearing and rotating equipment design and performance, etc.

Agenda

8:00 AM – 8:30 AM Course Introduction

8:30 AM - 12 Bearing Basics:

Foundational Concepts; Bearing Operation, Bearing loads

Bearing Life; Bearing Selection

Shaft and housing fits

12 –1 PM: Lunch - Hosted by SKF

1:00 PM – 2:00 PM: Hands-on mounting bearings

Force and Temperature Mounting Techniques using induction heater

2:00 PM – 3:00 PM: Lubrication

3:00 PM – 4:00 PM: Failure analysis; main causes of failure

4:00 PM – 4:30 PM: Materials / coatings

4:30 PM – 5:00 PM: Solution products / Q&A

Cost: ASME Members: \$400; All others: \$450. Payable by check when applying.

Contact John Wolf at 610-519-6129 or john.j.wolf@villanova.edu to Apply for admission to this course

2006 ASME Spring Golf Outing

Manufacturers' Golf and Country Club
Oreland, PA.
Monday, 8 May 2006

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 - \$156.00
Dinner only - \$70.00
Golf and dinner - \$195.00

Golf payment includes lunch box, cart and gratuities for the day. No caddies available.
Deadline for golf and dinner reservations is 28 April 2006. 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 @ \$195.00 each
for ___ golf (only) tickets @ \$156.00 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- AIAA Symposium February 11th, 2006



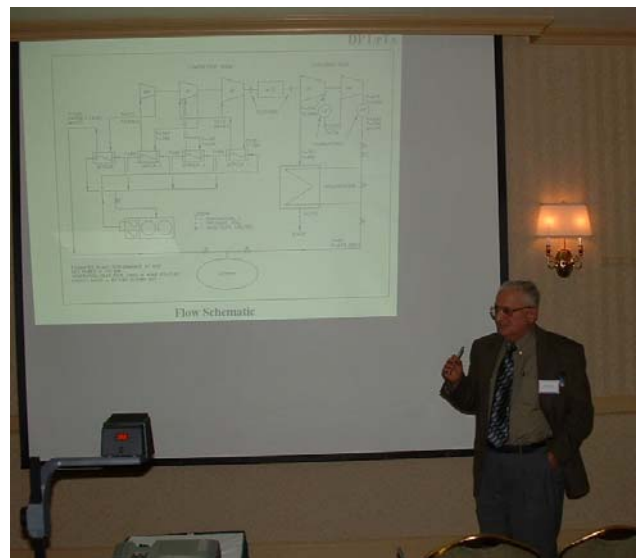
The buffet line for lunch



Afternoon poster session



Morning coffee break.



Mario DeCorso of Power Technology Associates presents Compressed Air Energy Storage (CAES)



An attentive audience at one of the presentations.



Dr. Jerry Jones Dr. and Kamran Fouladi of Villanova University discuss the days events with lunchtime speaker Marc Sheffler, Senior Manager, Phantom Works Engineering , Boeing Advanced Army Rotorcraft Systems

American Society of Mechanical Engineers
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Haddonfield, NJ 08033

ASME/AIAA 2nd Mini Symposium

The second annual AIAA/ASME Mini Symposium was held on February 11. Presentations covered a wide range of subjects from the diffusion control propagation of cool flames to the design of trebuchet, a medieval missile launcher. Over 70 presenters and audience members were present to listen to the many interesting presentations. Because of the success of the last two seminars, the section hopes to be able to continue this seminar next year at about the same time. The purpose of the seminar is to provide a local meeting place for members to discuss the many technical advancements of the companies in the area. If you or your company is currently working on some interesting engineering development, consider developing a presentation for next years event. Photographs of this years symposium are located on page 5.

Philadelphia Section April Awards Dinner Meeting

Tuesday April 25

Baseball Flights - From pitching the gyrobball
to hitting homers at Citizen's Bank Park

Speaker – Leroy Alaways

Doubletree Guest Quarter, Plymouth Meeting

Times: Registration – 5:45 PM

Dinner – 6:30 PM

Presentation – 7:15 PM

Location: For directions to the Doubletree, see page 1

Price: \$25

Topic: Dr. Alaways will talk on the trajectories of the different pitches of baseball; curve, fast, slider, and knuckle as well as the trajectories of fly-balls. Explanations of the so called "Gyro-Ball" as well as the effect of moving the outfield fence in Citizen's Bank Park will be included.

Speaker: Besides receiving lifetime pass to the National Baseball Hall of Fame for his work on baseball aerodynamics, Dr. LeRoy Alaways earned a B.A. in Mechanical Engineering from California State University, Chico, and a MSME and Ph.D. from the University of California
His areas of expertise include Sport Engineering, Design, Mechanics, Dynamics Systems, and Controls. Dr. Alaways is currently teaching Mechanical Engineering at Temple University

Call Lana Vernati at Villanova University (610 519 4980) by April 21 to make reservations.

See page 1 for directions and more information on this presentation.