



Volume 14, # 5

ASME Pittsburgh Section Monthly Newsletter

<http://sections.asme.org/pgh/>

February 2007

Section Calendar

February 28, 2007 – The Power of Insulation w/Mr. Ron King

February 13, 2007 – Polyethylene 101 w/Dr. Palermo

February 17, 2007 - National Engineers Week

March 2007 – Student Mixer

March 2007 – Windber Research Institute and Joyce Murtha Breast Care Center Tour

March 30-31, 2007 – Sci Fair

May 2007 – Annual Awards Banquet

PLEASE NOTE DATE CHANGE!!!!

THE POWER OF INSULATION In the Commercial, Industrial & Mechanical Segments of Industry

Program Description

Join ASME to hear Ron King present "The Power of Insulation", The Commercial, Industrial and Mechanical Segments of the Construction Industry. Can insulation reduce energy consumption and emissions; be part an integral part of your safety program; improve the environment in which you work; increase productivity; eliminate or at minimum reduce corrosion under insulation, control condensation and mold growth and provide a great return on your investment? Usually what sounds too good to be true, isn't. That's not true here. You have to see it to believe it. Did you know that insulation is applied but rarely engineered? This presentation provides evidence as to the power of insulation when designed, installed and maintained properly and provides educational tools, including a comprehensive energy management software program, to assist you in your selection and evaluation of this forgotten technology, simply known as insulation.

Mr. King recently retired as the Chairman, President and CEO of one of the nation's largest diverse insulation and specialty distributors. He is a past President of the national Insulation Association (NIA), the Southwest Insulation Contractors Association and the World Insulation and Acoustic Organization.

Date: **Wednesday, February 28, 2007**

Time: Networking: 5:30 - 6:00 PM

Program: 6:00 PM

Dinner following program at DeNunzio's Italian Restaurant

Location: Westinghouse Energy Center

4350 Northern Pike

Monroeville, PA 15146-2886

(links to maps are provided at <http://sections.asme.org/pgh/>)

Cost: Members, Students, and Guests - \$20

There is no charge for the program alone, but please call to reserve a space.

For registration or more information, contact Richard Horne at horner@asme.org or 412-521-4660

RSVP: **By Monday, February 26, 2007**

**PLEASE PRINT
& POST**

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ATTENTION ASME PITTSBURGH SECTION MEMBERS

The following individuals have accepted their nominations for Section committee positions for the next program year. Please exercise your opportunity to vote as a local Section member.

An electronic ballot is available on our website at: <http://sections.asme.org/pgh/ballot2007.htm>
Please vote by February 20, 2007.

**CALL FOR NOMINATIONS
PITTSBURGH SECTION
ENGINEER OF THE YEAR**

Nominations are being accepted for Engineer of the Year.

CRITERIA

- A member of the Pittsburgh Section of ASME
- Is a resident of the Pittsburgh Section area for 3 or more years
- Has been practicing engineering or related management for 10 years
- Has achieved in one or more of the following areas:
 - US patents or inventions
 - Entrepreneurship, job creation
 - Service to the profession or engineering students

For further information contact Marilyn Reeder, Awards & Recognition at Marilyn.Reeder@gmail.com

Call for Submissions: Mechanical Advantage:

Do you have something to share with ASME's Student Members? Submit your article or ideas to Mechanical Advantage, ASME's online student newsletter. Mechanical Advantage offers engineering students useful articles, program information and upcoming events and deadlines. Please send all submissions to mechadv@asme.org. Student submissions are highly encouraged!

BALLOT

ASME PITTSBURGH SECTION OFFICERS
JULY 1, 2007 – JUNE 30, 2008

CHAIR:

Heather DeBiase Yes / No / Write In _____

DIRECTORS:

Albert Bouvy Yes / No / Write In _____

Frank Faron Yes / No / Write In _____

Jeffrey Vipperman Yes / No / Write In _____

Lori Rankin Yes / No / Write In _____

Mail To:
Rich Horne
Kerotest Mfg. Corp.
5500 Second Avenue
Pittsburgh, PA 15207

(Ballots Must Be Received By February 20, 2007)

**Call for Nominations: 2007 Old Guard
Early Career Engineer Award**



Recognize an outstanding early career engineer actively involved in their profession, their communities, and the work of the Society. Submit Nominations Today! Visit <http://files.asme.org/asmeorg/Communities/EarlyCareer/8026.pdf> for more details. The deadline for all nominations is March 1, 2007.

The Home Brewing Seminar scheduled to be conducted by Craig Reeder in March has been postponed! Watch for a new date!!!

PE – 101, A PRIMER ON POLYETHYLENE PIPE FOR WATER AND NATURAL GAS DISTRIBUTION SYSTEMS

Date: Tuesday, February 13, 2007

Time: 5:30 PM – Registration, Social, and Cash Bar
6:30 PM - Dinner (optional)
7:30 PM - Presentation

Engineers Society of Western Pennsylvania (ESWP)
337 Fourth Ave.
Location: Pittsburgh, PA 15222
412.261.0710
(map provided at <http://sections.asme.org/pgh/>)

Parking: City Parking near ESWP (map provided at <http://sections.asme.org/pgh/>)

Dinner: ESWP Deluxe Buffet

Cost: Members, Students, and Guests - \$25 (Pay at Door)
There is no charge for the program alone, but reservations are required to insure adequate seating.

Contact: For registration or more information, contact:
Richard Horne at 412-521-4660, or
Richard Conley at 412-521-5941

RSVP: Thursday, February 8, 2007

Program Description:

Dr. Eugene F. Palermo, PhD, will present an overview of the materials, new developments and successful application of high-density polyethylene pipe (HDPE), specifically for this nation's critical natural gas and water distribution systems. Special emphasis will be placed on new material developments including bimodal PE materials that have greatly enhanced HDPE's service life (> 100 years) and resistance to slow crack growth. These developments are now prompting significant usage of much larger diameter HDPE pipe, especially in the water market.

With all the recent news about costly and highly disruptive water main breaks in the Pittsburgh region, come and learn more about an alternative pipe material that is light weight, will not corrode, is leak-free, highly resistant to earth movement and thermal expansion/contraction, least expensive to install and certified safe by the National Sanitation Foundation.

Dr. Palermo has devoted his entire career to the development of plastic materials for piping applications. He is currently the President of Palermo Plastic Pipe Consultants, Inc., former Technical Director of the Plastic Pipe Institute and Chairman of the Hydrostatic Stress Board of PPI, former chief polyethylene scientist for the DuPont corporation with 30+ years experience in the development and application of PE materials and specifically HDPE and other specialty plastic pipe materials. He is active in the major technical societies including ASTM, ISO, AGA, and PPI. He has "Chaired several international plastic pipe conferences. Dr. Palermo, "Gene" to his colleagues, has received numerous awards and is internationally recognized for his significant contributions to safer, more reliable underground piping systems worldwide.

MESSAGE FROM THE CHAIR

Greetings Members,

Our first event for this month will be an exciting presentation on February 13th, entitled "PE 101 - A Primer on Polyethylene Pipe for Water and Natural Gas Distribution Systems", which will explain and demonstrate how polyethylene is used to provide gas and water utilities. Presented by Dr. Eugene Palermo, PhD, he has devoted his entire career of over 30 years to plastic materials for piping applications, and is internationally recognized for his contributions. If you work in any related utility or industry or want to learn about polyethylene, you won't want to miss this terrific presentation.

Our February 7 presentation "The Power of Insulation with Mr. Ron King, has been rescheduled for February 28. This is a unique presentation on how insulation is engineered and many surprising ways that it's used. A comprehensive energy management software tool will also be distributed to attendees.

In March, we will tour the Windber Research Institute and Joyce Murtha Breast Cancer Center near Johnstown. We're also developing a PMP professional development course, a Spring Student Mixer, and several other programs and tours.

Also in March, The FIRST RoboBurgh Regional Competition will take place March 8, 9, & 10, 2007 at the Petersen Event Center, University of Pittsburgh. FIRST RoboBurgh Regional is an exciting, multinational competition that teams engineering, business, and technology professionals with high school students to design and build a robot that solves a challenging engineering design problem. Volunteers are needed to help these students develop skills the technology competent workforce employers need. Please consider donating some of your time and talent as your contribution is immeasurable towards the advancement of our profession. More information will be posted on our website soon.

Finally I want to call to your attention some outstanding work from local students. In December, five students representing Greater Latrobe Senior High School took First Place at the Rube Goldberg Machine Contest. The competition was held at the Carnegie Science Center, where 155 students competing in teams had to build an analog clock that turned back the hour hand by one hour in twenty steps or more. In January, students from St. Bede School in Point Breeze took First Place in the regional National Engineers Week Future City Competition at the Carnegie Music Hall. They built a consolidated city with a high-tech economy and nearly no pollution. This was the third year in a row that they've won the regional competition. Congratulations to all!!

Have a great February; I look forward to seeing you at our events. As always, if you have a suggestion for a special program or tour that you would like to see, please let us know. We're here for you!

Sincerely,
Rich Horne, Chair
horner@asme.org

Calling all Mechanical Engineering Students!!

There is still time to join the ASME E-Mentoring Program! The program is free to all student members and is a great way to network with professional members of the society, and find out about career choices in engineering. So why not try the E-Mentoring program today? For more information log onto www.asme.org/ementoring. Remember to tell a friend.

Congratulations to Future City Awardees!

At the Regional Competition of **National Engineers Week Future City Competition™** held on January 20, 2007 **St. Bede School** won the overall competition and ASME Pittsburgh presented the **Most Effective Movable Part Award to Fort Cherry Junior Senior High.**



**The Pittsburgh Golden Triangle Chapter of ASM-International
In Collaboration with Robert Morris University presents**

Materials for Non-Materials Professionals

- Material and Process Selection for Product Design and Development -

TOPICS:

- Material Types and Their Characteristics
- Manufacturing Processes
- More Manufacturing Processes
- Product Design and Materials/Process Selection

Time, Dates, Location Four weekly evening sessions of three hours each, 6:00 p.m. to 9:00 p.m., on March 14, March 21, March 28, and April 4. The course will be presented at the Sewall Center on the campus of Robert Morris University, Moon Township.

Presented by: Howard A. Kuhn, PhD PE, Director of R&D, The Ex One Company, Life Member ASME and Fellow of ASM International.

Register online at www.rmu.edu/cares or by calling 412-397-3692. For further information, call Howard Kuhn at 412-334-5520.

SHOW YOUR SUPPORT FOR ASME

If you sponsor ASME Pittsburgh, we will feature your company's products and services in our newsletter. For \$300 you can capture the attention of 1500+ fellow members and inform them of your company on a full page of one issue. For \$180 your company will be featured in ½ page; for \$95, ¼ page; for \$70, 1/8 page; and for \$50 a business card space.

CALL FOR VOLUNTEERS

FIRST RoboBurgh Regional Competition

The **FIRST RoboBurgh Regional Competition** will take place March 8, 9, & 10, 2007 at the Petersen Event Center at the University of Pittsburgh.

The competition stages short games played by autonomous and remote-controlled robots. In January, an engineering challenge is introduced. Robots are designed and built in six weeks between the first week in January and the last week in February.

Students must:

- » Develop and implement strategies to solve the challenge
- » Build alliances with other teams and work towards the common goal
- » Design and host a web site
- » Develop and present a business plan and marketing strategy

Volunteers are needed to act as Team Mentors, Coaches and Event Volunteers. If you are interested in volunteering please contact **David Richardson**, *FIRST* RoboBurgh Regional Competition Director,
724.504.5722 or email David.richardson@bc3.edu

ISEM XV Conference

The 15th **International Symposium on Electromachining** (ISEM XV), will be held in Pittsburgh, Pennsylvania, USA on April 23 - 27, 2007 at the Renaissance Pittsburgh Hotel.

Sponsored by the International Institution for Production Engineering Research (CIRP) the symposium offers an opportunity for researchers worldwide to present their very latest research in nontraditional manufacturing technology processes.

Conference Topics include: Electrical Discharge Machining (EDM), Electrochemical Machining (ECM), Laser Beam Machining (LBM), Ultrasonic Machining (USM), Hybrid Processes, Rapid Manufacturing, Rapid Prototyping Electroforming, Micro and Nano Machining by Non-traditional Methods, and many more

For more information go to <http://www.isemxv.com>

SOME ENGINEERING HUMOR

What is the difference between Mechanical Engineers and Civil Engineers?

Mechanical Engineers build weapons, Civil Engineers build targets

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