



SECTION CALENDAR

January 2004 Program 1

- 01/14/04** Siemens Fuel Cell Plant Tour
- 01/24/04** Future Cities Competition
- 01/27/04** Kennametal Tour
- 02/09/04** Mini-Regional Student Conference (RSC)
- 02/17/04** Otis Spunkmeyer Tour
- 02/20-21/04** National Engineers Week Carnegie Science Center
- 03/10/04** ALGOR Professional Development Seminar
- 03/23/04** Eaton Cutler-Hammer Details to Follow
- 04/04** 65th Pittsburgh Regional Science & Engineering Fair Carnegie Science Center
- 05/04** ASME Annual Awards Banquet

<http://www.asme.org/sections/pgh>
for information on tours and events

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 1/2 page; for \$95, 1/4 page; for \$70, 1/8 page; and for \$50 a business card space.

Seminars:

Professional Development
Albert R. Bouvy
E-mail: abouvy@atschester.com

Newsletter:

Editor
Brian J. Schleger
E-mail: bschleger@rahiller.com

Program:	Siemens Fuel Cell Plant Tour
Date:	Wednesday, January 14, 2004
Time:	3:00 PM
Location:	Stationary Fuel Cell Facility Siemens Westinghouse Power Corp. Science and Technology Center Fuel Cells Division, Building 801, 1310 Beulah Road Pittsburgh PA 15235-5098
Parking:	Free
Dinner:	After tour: Tivoli Restaurant 419 Rodi Road, Pittsburgh, PA 15235; (412)243-9630 Veal Parmigiana, Sole Belle Meuniere, or Broiled Angus Sirloin Steak
Dinner Cost:	ASME Members, \$25. Students, Unemployed Members, and Guests, \$15. There is no charge for the program alone, but please call to reserve a space.
Contact:	For registration or more information, contact: Allen Selz, (412)-521-4006, aselz@press-sci.com or use the Meeting Sign Up Form. Reservations are not guaranteed until payment is received.
RSVP:	By Friday, January 9, 2004 SPACE IS LIMITED - Reservations are a MUST

Tour Description

For those who missed it, this is a repeat of the oversubscribed tour held in February, 2003. It showcases the development of a new kind of power in Pittsburgh.

For many years Westinghouse Electric Corporation has been developing solid oxide fuel cells (SOFC's). Now, Siemens-Westinghouse has picked up the technology and has developed natural gas powered fuel cells for central-station electric power generation. These fuel cells operate at high temperature, and the exhaust gases are used to power a gas turbine. The resulting combined cycle system has electrical efficiency in the 60% - 70% range.

**Additional January 2004 Program
Details on Page 2**

Please Print & Post

One demonstration plant has been built and is operating in California. Larger plants, in Canada and Germany, are under construction.

Come and join us for a fascinating look at this new technology. The tour begins at the George Westinghouse Science and Technology Park in Churchill Borough, 801 Bldg. lobby area. Assembly and testing of components for the 300kW RWE plant is underway, and the tour will be able to see both the fuel cell pilot manufacturing facility and the generator assembly area.

For more information on Siemens-Westinghouse SOFC technology, check out the website: <http://www.pg.siemens.com/en/fuelcells>.

NO PICTURES ARE PERMITTED DURING THE TOUR.

January 2004 Program 2

Program:	Kennametal Tour
Date:	Tuesday, January 27, 2004
Time:	3:30 PM
Location:	Kennametal Headquarters 1600 Technology Way (Rt. 981 across from Arnold Palmer Regional Airport) Latrobe, PA 15650
Parking:	Free
Dinner:	TBD (on-site)
Dinner Cost:	ASME Members, Students, Unemployed Members, and Guests, \$18. Program is during dinner. No charge for tour only, which does not include social with appetizers and program.
Contact:	For registration or more information, contact: Al Bouvy, (412)-967-1900, abouvy@atschester.com Reservations are not guaranteed until payment is received.
RSVP:	By Tuesday, January 20, 2004 SPACE IS LIMITED - Reservations are a MUST

Tour Description:

Kennametal Inc. aspires to be the premier tooling solutions supplier in the world, providing customers with a broad range of technologically advanced tools, tooling systems and engineering services aimed at improving customers' manufacturing competitiveness. Join us for a tour, informative program, and dinner on Tuesday, January 27th, 2004, at the Kennametal campus in Latrobe. The tour will feature Kennametal's Quentin C. McKenna Technology Center where most of the research and development efforts for the company are located. This building includes a complete pilot plant facility that showcases Kennametal's vertical integration capabilities for materials such as tungsten carbides and ceramics, showing the process from raw powders up through a product ready to cut the toughest metals, rock, or resist highly corrosive environments at extreme temperatures.

The included program will highlight the new National Center for Defense Manufacturing and Machining (NCDMM), operated by Kennametal Inc. The mission of NCDMM is to deliver state-of-the-art manufacturing solutions to key stakeholders to ensure the quality, affordability, maintainability, and rapid deployment of existing and yet-to-be developed defense systems through a collaborative effort between government, industrial, and academic organizations.

Tours will start from the Kennametal Corporate Center lobby at about 3:30pm with the on-site dinner/program scheduled to begin at about 5pm.

For more information on Kennametal, check out the website: http://www.kennametal.com/en/kennametal/about_kennametal.jhtml

Message from the Chair

Dear members.

We are very excited to have gone to an all-electronic newsletter. This format allows a more timely dissemination of information, permits the use of color and embedded graphics, as well as hyperlinks, such as to our webpage: <http://www.asme.org/sections/pgh>. It also permits non-ASME members to access our newsletter and is available 24 hours a day. Most of all, it will save the Section money, which can be applied toward our programs and outreach activities. You may not be aware, but the ASME website, including past newsletters, is archived. As with the printed version of the newsletter, we will email a monthly reminder message that contains the basic text from the newsletter as well as the links to our homepage where you can download a typeset version of it from

<http://www.asme.org/sections/pgh/#newsletter>.

The downloadable newsletter is a pdf-file, which can be read and printed using the free Adobe Acrobat™ reader from

http://www.adobe.com/products/acrobat/reader_main.html.

We will still offer newsletter sponsorship opportunities at the same rates as the printed version: \$300/full page, \$180/half page, \$95/quarter page, \$70/eighth page, and \$50/business card size. Our homepage is where you can find the latest information on news and events (including maps and directions to our meetings), information about keeping your profile current with ASME headquarters, contact information for the executive committee members, including how to become a member yourself, and some fun things as well. If you are not receiving emails from your Section, it is likely because ASME does not have a correct email address on file or you have requested not to receive emails from the Section. You can update your contact information at: <http://members.asme.org/myasme/login/myasme.cfm> or by calling ASME-International at 1-800-843-2763. Free web access can be found at most libraries and free personal email accounts can be created at <http://www.hotmail.com> or <http://www.yahoo.com>, among many others.

We are delighted to bring you two January programs. The first is a repeat to the popular Siemens Westinghouse tour, which will be held on Wednesday January 14. An overview of the construction of the tubular solid oxide fuel cells and combined fuel cell/gas turbine power plants will be presented. The second meeting will be a tour of Kennametal on Tuesday January 27, which will highlight the Quentin C. McKenna Technology Center on the Latrobe campus where most of the research and development efforts for the company are located. As usual, these programs are *free*, with the option of attending a group dinner for \$25.00. For the rest of the year, look for tours of Otis-Spunkmeyer and Cutler-Hammer, a mock ASME regional student conference (RSC) meeting at Geneva College, and our awards banquet. We will also have a professional development seminar on finite element analysis sponsored by Algor, Inc. in mid March. Please contact Mr. Al Bouvy (412-967-1900, abouvy@atsengineers.com) if you are interested in this seminar, which offers great value for a continuing education class.

In retrospect, the November program given by Dr. Rubin Battino on: "The Genius of the Wright Brothers and the Construction of an Accurate Full-scale Replica of the 1903 Flyer" was fantastic. We also had a very successful professional development course taught this past December 12th on being a Project Management Professional. Given the popularity of this seminar, we will likely repeat it in the near future. Many thanks to those who organized and attended these events.

Finally, included in this newsletter you will find the ballot for the 2004-2005 officers, which reflects a slate of very dedicated and capable individuals. Please take time from your busy schedules to vote and return your ballot to us or vote online at:

<http://www.asme.org/sections/pgh/ballot2004.html>.

With Best Regards,
Jeffrey S. Vipperman, Chair
jsv@pitt.edu

2004 National Engineers Week Future City Competition

Since the National Engineers Week Future City Competition began, the education and engineering communities have recognized it as an innovative learning program. Excitement abounds throughout the classroom. Students are responsible for solving problems while creating their future city.

The National Engineers Week Future City Competition offers students a resourceful way to learn about engineering.

Students will:

- Learn how engineers turn ideas into reality.
- Develop a project plan to guide team activities.
- Use SimCity™ software to design their city.
- Build a city model using recycled materials.
- Work as a team under the guidance of an engineer and a teacher.
- Demonstrate writing skills by composing an essay on how plastics can be used to help senior citizens in the future.
- Enhance communications skills through a team presentation.

The competition is open to students in 7th and 8th grades around the country including these cities and regions: Buffalo, Chicago, Fort Worth/Dallas, Hampton Roads, Houston, Las Vegas, Los Angeles, Milwaukee, Minneapolis/St. Paul, New York City, Omaha, Philadelphia, Phoenix, Pittsburgh, Reno, San Francisco, St. Louis, Washington DC, the states of Colorado, Florida, Indiana, Iowa, Kentucky, Louisiana, Massachusetts, Michigan, Minnesota, North Carolina, Ohio, Oklahoma, South Carolina, Utah, Washington, and West Virginia. More competition cities may be added this summer.

Regional Competitions are scheduled during January. The Pittsburgh Regional Competition will be held January 24, 2004 at Carnegie Music Hall. The first place team from each Regional Competition will win a trip to Washington, D.C., to compete in the national finals during National Engineers Week in February.

For additional information:

<http://www.futurecitypittsburgh.org/>

or contact Lori Rankin Email:

larankin@switch.com, Telephone: 412-688-2093

National Engineers Week at Carnegie Science Center

Field Trip Opportunity for All Grades:

Celebrate the achievements of millions of engineers who contribute daily to our quality of life. This program is designed to interest and inspire young people to explore engineering. More than 60 event tables featuring presentations, demonstrations and hands-on activities are being planned for February 20 and 21, 2004. Event tables offer added value to a school visit scheduled during National Engineers Week.

For additional information:

<http://www.carnegiesciencecenter.org/events/engineers.asp#future>

or contact Darrell C. Rapp, Ph.D., Email: rappd@ctcgsc.org Telephone: 412-577-2658



NATIONAL ENGINEERS WEEK
FEBRUARY 20-21, 2004

For Information 412.237.3400
CarnegieScienceCenter.org

\$2 OFF general admission to
CARNEGIE SCIENCE CENTER

Receive \$2.00 off General Admission.
Includes Exhibits, Planetarium, Submarine & UPMC SportsWorks.
Limit four (4) per coupon. Tickets subject to availability.
Coupon must be redeemed to receive discount. Valid February 20-21, 2004.

 One of the four Carnegie Museums of Pittsburgh

ASME'S MEMBER INITIATIVE SYSTEM ON THE WEB

ASME's Member Initiative System encourages any member or operating unit of ASME to propose improvements to Society policy or procedure or to make any suggestions which would improve the operation or activities of the Society. It's easier than ever to propose improvements and to view proposals submitted by your peers.

To date, there have been 13 proposals submitted, on topics such as "ASME and Iraq Reconstruction" and "Committee on the International System of Units". To view the current year's initiatives, as well as ASME's responses, visit the Member Initiative System web page at

<http://www.asme.org/cma/mis.cfm>.

ATTENTION ASME PITTSBURGH SECTION MEMBERS:

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

An Electronic Ballot is available at:

<http://www.asme.org/sections/pg/ballot2004.html>

Your response is respectfully requested by February 20.

Albert R. Bouvy
Nominating Committee Chair

BALLOT

ASME PITTSBURGH SECTION OFFICERS 2004-2005 Year

CHAIRMAN :

Douglas Koebler Yes No Write In _____

DIRECTORS :

Albert Bouvy Yes No Write In _____

Frank Faron Yes No Write In _____

William P. Spohn Yes No Write In _____

Jeffrey Vipperman Yes No Write In _____

MAIL TO:

Di Perna & Associates
332 Dewey Avenue
Pittsburgh, PA 15218

Young Engineer Award: Call for Nominations

Do you know an ASME member that has made great strides in the engineering profession, community and the work of the Society? If so, nominate him/her for the Young Engineers Award.

The ASME member must also have continuous membership since becoming an ASME student member and earned a baccalaureate degree in Mechanical Engineering between the years March 1, 1998 - March 1, 2000.

A \$5000 CASH Grand Prize will be awarded, plus a prepaid life ASME membership. All nominations must be received no later than March 1, 2004.

To learn more about the selection criteria and how to nominate, visit

www.asme.org/cma/og/youngengineer.html.

*The Young Engineers Award is sponsored by the Old Guard Committee

Grants Available, First-Come, First-Serve

The Board on Diversity and Outreach's Partners in Mechanical Engineering (Partners) Program provides grants to ASME Sections for innovative projects and activities that support collaboration with local sections or chapters of organizations that support women and underrepresented minority groups in engineering.

Grants are awarded on a first-come, first-served basis and range from \$500 to \$1,000, depending on the size and scope of the activity.

Applications for Partners grants may be submitted throughout the year. For additional information, go to:

<http://www.asme.org/communities/diversities/bdo/partners.html>

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