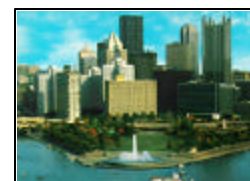




# The Catalyst

PITTSBURGH CHAPTER  
AMERICAN INSTITUTE OF CHEMICAL ENGINEERS



Volume 19 Issue 1



September 2004

www.aichepgh.org

## SEPTEMBER MEETING NOTICE

**Where:** *Homer Laughlin China*

Sixth and Harrison Street  
Newell, WV 26050

**When:** *Thursday, September 23<sup>rd</sup>, 2004*

**Time:** 4:30pm Video presentation about Homer Laughlin  
5:00pm Plant Tour  
6:30pm Visit Factory Outlet Store  
7:00pm Drive to Restaurant  
7:30pm Dinner at Mountaineer Racetrack

**Menu:** Please select one of the entrees below. All meals include salad, garlic rolls, vegetable, coffee, iced tea and white chocolate mousse parfait dessert.

**Prime Rib** (10 oz): Slow roasted, studded with roasted garlic, herb au jus, horseradish cream. Served with garlic whipped potatoes.

**Chicken Cordon Bleu:** Ham and Swiss cheese stuffed chicken breast, topped with supreme sauce. Served with rice pilaf.

**Pasta Primavera:** Sautéed fettuccini with broccoli, onions, mushrooms and asparagus in Alfredo sauce. (Vegetarian)

**Cost:** \$26.00 Members  
\$20.00 Students / Unemployed Members  
\$30.00 Non-members

**RSVP NO LATER THAN TUESDAY SEPT 14<sup>TH</sup>, 2004**

TO: Mr. David Missenda, Vice-Chair  
Phone: 412-503-4620

E-mail: David\_Missenda@URSCorp.com

Your RSVP must include: **Name, Company Name, Menu Choice, Email Address, and Phone Number.**

**PLEASE PAY AT DOOR**

**CANCELLATIONS:** If you must cancel your meeting reservation, please do so no later than 72 hours prior to the meeting. Otherwise, you will be invoiced for the cost of your meal.

**~ About the Site Tour ~**

Founded in 1871 by Mr. Homer Laughlin, The Homer Laughlin China Company has been owned and operated by the Aaron and Wells families since their acquisition in 1897.

The Homer Laughlin China Company owes its origin to a two-kiln pottery on the banks of the Ohio River in East Liverpool, Ohio. Built in 1871, the Laughlin Pottery was one of the first whiteware plants in the country.

With the success of the company came rapid growth. Three new plants replaced the original facility. In 1907, the headquarters and a new 30-kiln plant were built across the Ohio River in Newell, West Virginia, the present manufacturing and headquarters location. At this time the company operated 62 production kilns and 48 decorating kilns, providing a capacity of 30,000 pieces of finished pottery per day-- a full 10% of the dishes purchased in the United States.

Specializing in high-fired, lead-free glazes with an Alpha Alumina added body, Homer Laughlin remains the largest domestic pottery employing over 1100 skilled workers in a 37-acre facility.

Computerized kilns, state-of-the-art production facilities and decorating equipment, and the timeless style and elegance of the designs provide the perfect combination that is the hallmark of The Homer Laughlin China Company.

For over 125 years, The Homer Laughlin China Company has been committed to manufacturing excellence and customer satisfaction. Our recent strategic investments in modernizing our manufacturing facilities have resulted in even more efficient and timely china production. The tour will include two plants, which are across the street from each other. One plant houses the historic kilns which are still used for production today. The second plant houses the modern-day production lines. We will see most steps of the manufacturing process including blending, filter press, pug mill, glazing, forming, glaze firing, foot polishing, decorating and decorating firing.

CONTINUED ON PAGE 2



## LETTER FROM THE CHAIR

Dear Members,

Summer's almost over, so get ready for another year of fun and informative meetings in the Pittsburgh Section of AIChE! Our new Vice-Chair, David Missenda, already has many interesting plant tours and speakers in the works for this fall. Please join me in congratulating David and thanking him for his continued contributions to our Section. I'd also like to thank last year's Chair, Nathan Peters, for his advice and leadership during my tenure as Vice-Chair. Finally, we're very happy to have Doug Price of Youngstown State serving as Counselor for the next year, as well as our returning elected officers Justin Filey (Secretary) Leigh Anne Wacker (Treasurer), and John Hauser (Counselor).

As always, we encourage any of you interested in getting involved in our local section to join us in our upcoming meetings and community outreach events. We had a great meeting at Calgon Carbon last May. Thanks to Bob Vaughn for his help organizing the tour.

I hope that you will be able to join us for our "fiesta" at Homer Laughlin China Company on September 23<sup>rd</sup>!

Best regards,

Jim Schneider  
AIChE Pittsburgh Section- Chair

## MONTHLY MEETING

*CONTINUED FROM PAGE 1*

More information on the company can be found at [www.hlchina.com](http://www.hlchina.com)

Time has been allotted following the tour for a trip to the factory outlet store. Homer Laughlin will offer a special

25% discount to AIChE members on any purchases made in the outlet on first quality ware, including Fiesta®, the most collected china products in the world. Store information can be found at [www.homerlaughlin.com](http://www.homerlaughlin.com)

*\*\* Please note that no open-toed shoes are permitted on the plant tour.*

### **THE MEETING LOCATION:**

The Homer Laughlin China Company is located at the tip of the West Virginia panhandle, near Weirton, WV. It is 40 minutes from the Pittsburgh International Airport, 40 minutes from Youngstown, Ohio and 50 minutes from Wheeling, West Virginia.

### **CARPPOOLING ARRANGEMENTS:**

Anyone who is interested in carpooling to the meeting should include this information with his or her RSVP to David Missenda.

### **DRIVING DIRECTIONS:**

#### **From Pittsburgh:**

Take PA 60 North past the Pgh International Airport. Take the Clinton Exit to US 30. Follow US 30 West to WV Route 2. Head South on Route 2 to Newell, WV. The Plant is on the right, along the river.

#### **Homer Laughlin China**

Sixth and Harrison Street  
Newell, WV 26050  
1-800-452-4462

### **DIRECTIONS TO THE RESTAURANT:**

#### **Mountaineer Race Track**

Route 2  
Chester, WV 26034

From Newell, WV, follow Route 2 South (towards Weirton) for 4.5 miles to Mountaineer Gaming and Race Track Resort.

More information is available at: <http://www.mtrgaming.com/>



## MEMBERSHIP CORNER

Dear Members,

We are constantly updating our local membership database. Please send all change of address notifications to our Membership Chair:

**Holly Gray**  
**Michael Baker Jr., Inc.**  
**Airside Business Park**  
**100 Airside Drive**  
**Moon Township, PA 15108**

***hgray@mbakercorp.com***

If you have not already done so, please verify your updated e-mail address with us so that you will continue to receive monthly newsletters!

Thank you!

### Please sign me up for the local Pittsburgh Section of AIChE

Name \_\_\_\_\_

Company \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Business Phone \_\_\_\_\_

Residence Phone \_\_\_\_\_

Email \_\_\_\_\_

Annual Dues are \$16.00. Make check payable to "AIChE Pittsburgh Section" and send to our Treasurer:

**Leigh Anne M. Wacker,**  
**AIChE Treasurer**  
**337 Quail Run Road**  
**Venetia, PA 15367**

## MARK YOUR CALENDARS!

***National Chemistry Week 2004 will be celebrated in Pittsburgh at the Carnegie Science Center on October 22-23.***

The theme this year is *Health and Chemistry*, and AIChE will be sponsoring a booth on Saturday, October 23<sup>rd</sup>.

This event is an excellent opportunity to foster young interest in chemistry, and to illustrate the ways in which science impacts our everyday lives. We will be looking for volunteers to help demonstrate chemical engineering principles to children.

Please contact Nancy Hirko at 412-826-3636 or [nhirko@air-comp.com](mailto:nhirko@air-comp.com) for more information.

## CONGRATULATIONS TO THREE NEW AIChE FELLOWS FROM THE PITTSBURGH SECTION!

*Congratulations to three of our Pittsburgh section members, who were recently elected as Fellows at a recent national meeting of the Board of Directors of AIChE.*

*The honorees are:*

*Dr. Lorenz T. Biegler*  
*Dr. Ignacio E. Grossmann*  
*Dr. Dennis C. Prieve*

*All three newly elected fellows are members of the Chemical Engineering Department at Carnegie Mellon University.*

*We are very proud to have you acknowledged for your contributions and achievements!*



## NATIONAL AIChE NEWS

Summer may be winding down, but now is the time to gear up with AIChE.

With upcoming conferences, call for papers, education opportunities, and Institute elections, you'll find a number of ways to make your mark this month.

### MARK YOUR CALENDAR: AIChE ANNUAL MEETING

The AIChE Annual Meeting, November 7-11 in Austin, Texas is just around the corner. Network with over 4,000 colleagues in diverse fields and learn the latest technical information in your specialty. Highlights include 13 topical conferences in growth areas like: IT, nanotechnology, sustainable engineering, bioinformatics and functional genomics, fuel cells, sensors, biomaterials, bionanotechnology, biomimetic systems and tissue engineering. See <http://www.aiche.org/annual>.

### EXHIBIT AT THE ANNUAL MEETING:

Budget now to exhibit at the 2004 AIChE Annual Meeting & AIChE/Microwave World Congress Fall Expo, Austin Convention Center, Austin, TX, November 7-10. The cost of a 10' x 10' booth is \$1,650. See <http://www.aiche.org/annual> or contact Denise Deluca, account executive at 212-591-7170 or [denid@aiiche.org](mailto:denid@aiiche.org).

### 17th ANNUAL BIOPROCESS TECHNOLOGY SEMINARS

Take advantage of special member rates at the ASME Bioprocess Technology Seminar, October 25-28 in Atlanta, Georgia, cosponsored by AIChE. Highlights include: 11 concurrent courses, tabletop exhibits, sponsorships, two plant tour options, and keynote speaker. For more information, contact Brandy Smith at [smithb@asme.org](mailto:smithb@asme.org) or visit: <http://www.asme.org/education/techsem/Bio/>.

**CALL FOR PAPERS: 2005 Spring National Meeting**  
It's time to submit your paper for AIChE's most comprehensive Spring Meeting ever. The 2005 AIChE Spring Meeting and First Global Congress on Process Safety, April 10-14, Atlanta, GA will span the latest chemical engineering R&D and, for the first time, the 20th Annual CCPS Conference, 39th Annual Loss Prevention Symposium, and the Process Plant Safety Symposium. For more, see: <http://www.aiche.org/spring/>.

### REMEMBER TO VOTE!

Voting is underway for the Institute's 2005 elections for President-Elect, Treasurer, and Board Members. Paper ballots have been mailed to all members, senior members and Fellows. Members can choose to vote by paper ballot or by electronic proxy. All ballots or votes must be received by September 24, 2004. For more information, including candidate profiles, election details, and link to electronic proxy, visit: <http://www.aiche.org/candidates/>.

### AND THE NOMINEES ARE....

With the ballots for the 2005 election now in the mail, AIChE President Byers is beginning to pull together the Nominating Committee that will select the candidates for the 2006 elections. If you are interested in serving on the committee-or in recommending names for the committee's consideration-contact President Byers at <mailto:president@aiiche.org>.

### BACK TO SCHOOL... VIRTUALLY.

Take advantage of a limited-time offer on all AIChE Distance Learning CD-ROMs. Enjoy \$50 off a single purchase or \$150 off two or more CD-ROM courses. Topics include: essentials of chemical engineering; fluid mixing; and distillation. Operator and engineer versions are available. This offer is valid from August 1 to October 31. To purchase or request information, call ASME at (800) 843-2763 or email [mailto:infocentral@asme.org](mailto:mailto:infocentral@asme.org). Or visit the Web site at <http://www.aiche.org/distancelearning/cdrom/>.

### AIChE FINANCIALS ONLINE

AIChE's 2003 Audited Statements are now available on the Institute's Web site, along with auditor's unqualified opinion. See: <http://www.aiche.org/about/index.htm#Finances>.

### THE TOUGHEST JOB YOU'LL EVER LOVE

Peace Corps is actively seeking 15 to 20 seasoned professionals who are US citizens, and both experienced and highly trained in engineering to work with CONACYT (The National Council on Science and Technology) centers in Mexico in specialized areas of mechanical, chemical, materials and metallurgical engineering. The first group will depart for training in late September. For immediate consideration, submit resume to: Edwin Jorge, Peace Corps, New York Regional Office, 201 Varick Street, Room 1025, New York, NY 10014 or fax to 212.352.5441.



**NAMF STARTUP GRANT IN MIXING: \$20,000**  
Sponsored by AIChE's North American Mixing Forum, this \$20,000 grant is designed to encourage new faculty to begin research careers in areas that will impact the general field of fluid mixing technology. Any untenured but tenure-track faculty member at a PhD-granting institution in North America is eligible. The deadline for proposals is September 15, 2004. For details, see:

<http://www.mixing.net/namf/awards/startup.htm>.

**REACH OUT: ENGINEERS WITHOUT BORDERS**  
Put your skills to work in helping others. The 2004 Engineers Without Borders (EWB) National Conference, "The Engineer's Role in Capacity Building for the Developing World" will be held at the CH2MHill World Headquarters and Conference Center in Englewood, CO, September 22-25. The conference will precede Sustainable Resources 2004, "Solutions to World Poverty" in Boulder, CO, September 27-October 5. For more information, visit

<http://www.ewb-usa.org/news-conferences.html>.

**WOMEN, MINORITIES, AND PERSONS WITH DISABILITIES IN SCIENCE AND ENGINEERING**  
Find out where science and engineering fields are headed in NSF's new report, "Women, Minorities, and Persons with Disabilities in Science and Engineering 2004." The report features online tables, graphics, and spreadsheets on undergraduate and graduate school enrollment, degrees, postbox status and employment. See:

<http://www.nsf.gov/sbe/srs/wmpd/start.htm>.

## FUN SCIENCE SITES

### *SURFING SCIENCE*

Still dreaming of the beach? Hang ten and learn the science of surfing, waves, and storms. Soon you'll be surfing like a pro.

<http://www.exploratorium.com/theworld/surfing/index.html>

### *SPACE OUT*

Take a walk on the moon. Unearth what it took to get to the moon, the dangers of the mission, who the astronauts were and their life in space at Smithsonian's online exhibit:

[http://www.smithsonianeducation.org/students/ideals/walking\\_on\\_the\\_moon.html](http://www.smithsonianeducation.org/students/ideals/walking_on_the_moon.html)

### *GREAT FEATS OF ENGINEERING*

Start next year's summer vacation planning at the

Sightseer's Guide to Engineering, which highlights fun and fascinating engineering marvels across the country. Search by state, engineering discipline or category (amusement park, monument, bridge, and more). Visit: <http://www.engineeringsights.org/>.

### *THAT RIBBON OF HIGHWAY*

Hankering for the open road? In the US, that's 46,380 miles of interstate asphalt. Rip into the history and design behind the US Interstate System at <http://www.infoplease.com/spot/interstate1.html>.

### *BRAIN TEASE*

Is your brain enjoying the summer off? Whip your gray matter into shape with brainteasers, optical illusions, word puzzles, and tactile illusions.

<http://www.mindbluff.com/>.

### *GRILLING GENIOUS*

According to the Hearth, Patio, and Barbeque Association, charcoal was invented in the early 1920s by car king Henry Ford. Natural lump charcoal was a by-product created from his manufacture of wood alcohol. Eventually, the lump charcoal was ground and mixed with starch and formed into the uniform, pillow-shaped briquettes; Ford's friend Thomas Edison designed the first charcoal briquette plant.

### *SCREAM MACHINE*

Every summer, roller coasters deliver chills and spills to thrill seekers around the globe. Discover the history and engineering of "The Scream Machine," from 19th Century Russian Sleds to the tallest continuous coaster in Fujiyama, Japan (259 feet). Fasten your seat belt and enjoy the animated "roller coaster physics" lesson, including examples of free-fall, velocity, and projectile motion. See

<http://search.eb.com/coasters/>.

### *ICE CREAM ENGINEERING*

How do you find the best ice cream? In his public radio commentary, AIChE member Bill Hammack suggests buying the heaviest ice cream you can find or moving to New Zealand. For the scoop, see:

<http://www.engineerguy.com/comm/3373.htm>.

### *THE FUTURE IS NOW*

Remember the future? Years ago, futurists predicted the 21st Century would produce gleaming cities in outer space, personal robots, and flying saucers. Tales of Future Past takes a peek at yesterday's zany predictions for today.

<http://davidszondy.com/future/futurepast.htm>



## VOLUNTEERS NEEDED AS ENGINEERING MENTORS

The National Engineers Week Future City Competition™ seeks engineers to volunteer this fall and winter to introduce middle school students across the nation to a career in engineering. Since its founding in 1992, the educational program has made engineering come alive for hundreds of thousands of students.

The Engineers' Society of Western Pennsylvania (ESWP) in conjunction with the Carnegie Science Center will present the 6th Annual Future City Competition in the Pittsburgh area. It is a national program sponsored by the engineering community to promote technological literacy and engineering to middle school students. The Competition asks middle school students to create their city on computer using *SimCity 3000*, build a 3-D model of the city, and write an essay – all in the hopes of winning the regional competition in January and an all-expense-paid trip to the National Finals in Washington, D.C. in February.

In 2004, more than 30,000 students from 1,100 schools in 33 regions participated in Future City, the largest engineering education program in the country. Our own Pittsburgh regional team from Riverview Junior/Senior High School, mentored by Bill Brooks of Brooks Fire Protection Engineering, captured the 2004 National championship!

More volunteer engineer mentors are needed for this fun, worthwhile program. Each volunteer engineer mentor works with seventh and eighth-graders, in a team of three students, and their teacher, helping to guide the youngsters through the rigors of building a functioning city. Engineers generally devote only 20 - 40 hours to the project over the period from October to January. Part time mentors are also needed.

This year's Regional Competition will be held at the Carnegie Music Hall on Saturday, January 15, 2005. For more information on volunteering as an engineer mentor for the 2005 Future City Competition, please contact Werner Loehlein, Pittsburgh Future City Mentor Coordinator, [loehlein@usace.army.mil](mailto:loehlein@usace.army.mil) (412-395-7363) or visit our website at [www.futurecitypittsburgh.org](http://www.futurecitypittsburgh.org).

## JOB POSTING

### Chemical Engineering Position in Scranton, PA

Opening for a Chemical Engineer requires a candidate with ten (10) or more years of textile industry experience. The hiring company is a world leader in the production of conductive materials. Fabrics, Fibers, Filament and Fillers.

The salary range is \$60K to \$75K depending on experience. Company benefits include life, health, and dental insurance plan. 401K matching contributions, and paid vacations.

The hiring company will pay interview expenses, and relocation cost.

For more information, contact Chris Roseboro at (704) 480-7889 or [chrismri@carolina.rr.com](mailto:chrismri@carolina.rr.com).

Website: [www.shelbymri.com](http://www.shelbymri.com) Fax: (704) 480-7890

## NEWSLETTER DEADLINE

THE DEADLINE FOR THE OCTOBER NEWSLETTER IS  
FRIDAY, SEPTEMBER 17, 2004.

Please submit information to:

*Mariangela Peters*  
**Bayer MaterialScience, LLC**  
100 Bayer Road  
Pittsburgh, PA 15205

Phone (412) 777-4195  
[mariangela.peters@bayermaterialscience.com](mailto:mariangela.peters@bayermaterialscience.com)



4916 William Penn Highway  
Monroeville, PA 15146  
[www.langstonsubaru.com](http://www.langstonsubaru.com)  
724-325-2888 • 800-463-6082  
Fax: 724-733-2555  
[marcella@langstonsubaru.com](mailto:marcella@langstonsubaru.com)

**Marcella Manning**  
Sales Consultant



## LETTER FROM THE NATIONAL CHAPTER PRESIDENT

Dear Colleagues:

I am pleased to tell you that the Board of Directors voted at its June meeting to maintain 2005 dues at their current level. This decision was made after carefully reviewing our finances and forecasting our needs for the coming year. Your continued support, along with the cost reductions we've implemented and business relationships we've developed over the past year, have put AIChE back on sound financial footing.

We continue to explore partnerships with organizations like the American Society of Mechanical Engineers (ASME) and the American Chemical Society (ACS) to provide additional value for AIChE members. Together with ASME, we've launched a special joint partnership package for our members. Interested AIChE members can pay a modest \$30 fee and receive ASME's flagship publication, Mechanical Engineering, along with ASME member rates on conferences.

In other news of partnerships, we continue to develop our programmatic alliance with ACS. I'm excited how this partnership will create vital networks and dynamic information exchange for our members. This summer we formed joint AIChE-ACS teams to explore cooperative programs in local sections, divisions, meetings and expositions, member affairs, and career services. The teams will present their plans for cooperative programs and events to our respective boards in the fall. Thanks to everyone who is contributing through these working teams.

At the 2004 Spring Meeting, the Board approved bylaws for new technological communities in two of our profession's strategic growth areas-biological engineering and sustainability. These actions formally launched our Society for Biological Engineering (SBE) and the Institute for Sustainability.

SBE's work is well underway. In September, the society will host its first major conference, the SBE International Conference on Bioengineering and Nanotechnology, September 26-29 at the Biopolis

in Singapore. The conference will help our members build valuable networks across disciplines of engineering, science, and medicine and around the world. For further information, see <http://bio.aiche.org>.

The Board will hold a special meeting in September to develop a long-range plan for 2005-09. With input from a number of key members, we will explore new programs and initiatives that will serve chemical engineers and their professional needs-for the next five years and well into our second century.

As you can see, there is a lot happening at AIChE. I look forward to working with you as we continue to strengthen our existing programs and seek out new benefits and networks for your professional and personal success.

Sincerely,

William D. Byers  
AIChE President

PS: Make sure to save the date for the 2004 Annual Meeting, November 7-11 in Austin, Texas, featuring 14 mini-conferences, over 500 technical sessions and special networking events.

## SPONSORSHIPS

*Interested in placing your company's information in future AIChE Newsletters?*

Full Page	\$300
Half Page	\$175
Quarter Page	\$95
Business Card Size	\$45
1/12 Page	\$30

*Place multiple sponsorships and receive a discount!*  
*Three consecutive ads – 10% off*  
*Eight consecutive ads – 30% off*

Please contact Mariangela Peters at  
[mariangela.peters@bayermaterialsscience.com](mailto:mariangela.peters@bayermaterialsscience.com)  
or 412-777-4195 for more information.



## AICHE PITTSBURGH SECTION 2003-2004 OFFICERS

### Executive Committee

#### Chair

Dr. Jim Schneider (schneider@cmu.edu)  
Carnegie Mellon University  
412-268-4394

#### Vice-Chair & Program

David Missenda (david\_missenda@URSCorp.com)  
URS Corporation  
(412) 503-4620

#### Secretary

Justin P. Filey (jfiley@ppg.com)  
PPG Industries, Inc.  
724-274-3529

#### Treasurer

Leigh Anne M. Wacker (lamwacker@msn.com)  
ANSYS, Inc.  
724-514-3046

#### Counselors

John Hauser (hauserjj@prosaf.com)  
PROSAF, Inc.  
724-942-3717

Dr. Douglas Price (dmprice@cc.yu.edu)  
Youngstown State University  
330-941-3019

#### Past Chair & Nominations

Nathan Peters (nrpeters@verizon.net)  
412-855-2689

### Additional Officers and Chairs

#### Membership Chair

Holly Gray (hgray@mbakercorp.com)  
Baker Environmental, Inc.  
412-269-6059

#### Newsletter Editor

Mariangela Peters  
(mariangela.peters@bayermaterialscience.com)  
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412-777-4195

#### Engineers' and Chemistry Week

Nancy Hirko (nhirko@air-comp.com)  
Air/Compliance Consultants, Inc.  
412-826-3636

#### Scholarship Chair

Ed Moretti (emoretti@moretticonsulting.com)  
Moretti Consulting Group, LLC  
412-276-2233

#### Committee Chairs

Safety & Environmental: Shiaw Tseng  
PE Review: Carl Schwartz

#### Web Master

Richard Dupree (rrd@tekerama.com)  
Dupree & Associates  
724-775-5122

## 2004-2005 Monthly Meeting Schedule

Date	Topic	Location
September 23, 2004	Plant Tour	Homer Laughlin – Newell, WV
October 2004	Plant Tour	TBA
November 2004	Joint Meeting with ACS	TBA
January 19, 2005	Joint Meeting with AWMA	Penn Brewery
February 2005	Annual Student Night	Univ of Pittsburgh - Oakland
March 2005	Technical Presentation	TBA
April 2005	Plant Tour	TBA
May 2005	Last Meeting of Year / Award Dinner	TBA

**Mark your calendars!**

For the Following Dates:

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Sept 23, 2004

Monthly Meeting

Plant Tour - Homer Laughlin China

Oct 23, 2004

Outreach Event

National Chemistry Week  
At the Carnegie Science Center



***The Catalyst***

American Institute of Chemical Engineers  
337 Fourth Avenue  
Pittsburgh, PA 15222-2097



Visit us on-line at [www.aichepgh.org](http://www.aichepgh.org)

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