



OCTOBER MEETING NOTICE

Where: *McKeesport Waste Water Treatment Plant*

On Atlantic Avenue, at the confluence of the Youghiogheny and Monongahela Rivers

When: *Wednesday, October 20th, 2004*

Time: 5:15 Registration
5:30 Plant Tour
6:30 Depart for Dinner
7:00 Dinner at Restaurant

Menu: Please select one of the entrees below.

All dinner selections are served with antipasto salad, a cup of wedding soup and choice of beverage.

Gnocchi: Italian potato dumplings served with meat sauce.

Lasagna: Made with three cheeses and ground beef, layered between homemade pasta sheets.

Chicken Romano: Chicken breast dipped in a delicate egg batter then sautéed in butter and garlic until golden brown.

Stuffed Pork Chop: Double thick pork chop served with stuffing and gravy.

The Chicken and Pork entrées include vegetable du jour and potato or rice pilaf. (A side of pasta with tomato sauce can replace the vegetable and potato or rice pilaf.)

Cost: \$19.00 AIChE and SWE Members
\$15.00 Students / Unemployed Members
\$23.00 Non-members

Desserts are optional for an additional \$4. Selections are:

New York Cheesecake: Served with fruit topping.

Chocolate Thunder Cake: Dark, dense cake exploding with bittersweet chocolate and chocolate morsels.

Tiramisu: Mascarpone and marsala with Kalua'd Cake.

Joint Meeting with the Society of Women Engineers

~ About the Tour ~

Established in 1949, The Municipal Authority of the City of McKeesport currently provides waste collection and treatment services for the City of McKeesport, White Oak Borough, Port Vue Borough, Liberty Borough, East McKeesport Borough, Elizabeth Township, Glassport Borough, Versailles Borough, and North Versailles Township, serving approximately 62,000 people.

Construction on the original sewage plant began in 1959, where the Youghiogheny and Monongahela rivers meet, with completion in 1960. This plant offered primary treatment only, as was the practice at the time.

With advances in sewage treatment technology, the plant went through a large expansion. This project was completed in 1976, which added the secondary aeration system now in place. Secondary aeration provides additional purification in the treatment process.

Designed to process 11.5 million gallons per day, the Authority is the second largest sewage treatment plant in Allegheny County.

IMPORTANT: Open toed shoes are not allowed inside the plant. The tour includes outside facilities.

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RSVP NO LATER THAN THURSDAY OCT 13TH, 2004

TO: Mr. David Missenda, Vice-Chair

Phone: 412-503-4616

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 48 hours prior to the meeting. Otherwise, you will be invoiced for the cost of your meal.



LETTER FROM THE CHAIR

Dear Members,

Now that the year is in full swing, I'd like to encourage all of you to get involved in our section by attending our monthly meetings and participating in our volunteer efforts.

This month, the local section will once again sponsor a booth at the Carnegie Science Center for National Chemistry Week. This year's theme is "Health and Wellness." Those of you interested in volunteering for this event should contact Nancy Hirko. The event will be held on Oct. 22-23rd.

We had a great turnout for last month's plant tour of Homer Laughlin China Co. in Newell, WV. We had an opportunity to speak with the CEO of Homer Laughlin and had an excellent tour of the facility. Thanks to Kimberly Faloon, Dan William, Glenn Bouscher, and Kenny McElhaney for taking time to talk to us.

For October, David has organized a tour of the McKeesport waste treatment facility. This will be a joint meeting with the Society of Women Engineers, so I'm sure it will be well attended. Hope to see you there!

Best regards,

Jim Schneider
AICHe Pittsburgh Section- Chair

MONTHLY MEETING

CONTINUED FROM PAGE 1

DRIVING DIRECTIONS:

From the Airport/South Hills: Take 279 North to Route 51 South. Follow the Yellow Belt toward the Allegheny County Airport. Continue on the Yellow Belt into McKeesport. Turn left onto Pacific Avenue (crossing the railroad tracks). Turn left on Rebecca. Make a right on Atlantic Avenue, and proceed to the Waste Water Treatment Plant.

From Greensburg: Take US 30 West to PA 148 South/West towards Dravosburg. Turn right on Pacific Avenue (crossing the railroad tracks). Turn left on Rebecca. Make a right on Atlantic Avenue, and proceed to the Waste Water Treatment Plant.

From North Hills/Cranberry: Take 279 South to 579 South (Veterans Bridge). Cross the Liberty Bridge and follow PA Route 51 South towards Uniontown. From 51 South follow the Yellow Belt toward the Allegheny County Airport. Continue on the Yellow Belt into McKeesport. Turn left onto Pacific Avenue (crossing the railroad tracks). Turn left on Rebecca. Make a right on Atlantic Avenue, and proceed to the Waste Water Treatment Plant.

ABOUT THE RESTAURANT:

Tillie's Restaurant
308 36th Street
McKeesport, PA 15132
(412) 672-7557

Known for its made fresh daily sauces and hand made pastas, Tillie's Restaurant is a family-owned business that has been serving McKeesport for more than 4 decades.

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

DIRECTIONS TO TILLIES:

Return to Route 148 (Yellow Belt). Turn left on 148 and cross the Youghiogheny River. Turn right on Lysle Boulevard (also Yellow Belt). Turn left on 36th Street.



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

AIChE PITTSBURGH TO PARTICIPATE IN NATIONAL CHEMISTRY WEEK 2004!

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

Our local Section will once again participate in this year's National Chemistry Week events at the Carnegie Science Center. The theme this year is focused on **Health and Wellness**. Our section will host a table on October 22 and 23, 2004 to explain the concept of calories and what it takes to fuel the human body. We will be handing out information on calories in food and calories consumed for various activities. We will also perform an experiment involving sugar quantities in various foods.

This event is an excellent opportunity to foster young interest in chemistry, and to illustrate the ways in which science impacts our everyday lives.

As always, if you would like to participate, please contact Nancy Hirko at 412-826-3636 or at nhirko@air-comp.com. Any help is greatly appreciated!!

For more information about National Chemistry Week, visit
www.chemistry.org



**NATIONAL AIChE NEWS**

With school back in session, AIChE invites you to make the grade by taking advantage of AIChE chemical engineering courses, conferences, and publications in your specialty.

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. Don't miss this outstanding opportunity to hear the latest research and meet the leaders in your field. You'll find 15 mini-conferences and over 520 technical sessions in core and emerging areas like bio, nano, and sustainability, plus special events and networking receptions. See the program and register at <http://www.aiche.org/annual>.

GET ORGANIZED: Annual Meeting Itinerary Planner
New in 2004! Create your own schedule with AIChE's free online itinerary planner. See <http://www.aiche.org/annual>.

HEAD OF THE CLASS:**AIChE Annual Meeting Short Courses**

Explore a new area or stay current up recent developments in your field with AIChE short courses held November 7, prior to the AIChE Annual Meeting. Short courses span areas like microwave and RF applications, electrophoresis, sensors, distillation, management and biorefining. For more details, see: <http://www.aiche.org/conferences/annual/shorts/index.htm>.

ANNUAL CD-ROM

The 2004 Annual Meeting Proceedings CD-ROM is available for purchase now and on site at the Annual Meeting. This popular CD-ROM contains all Topical Conference and unaligned session papers received in an easy-to-use, keyworded and searchable format. Order one today for \$80 through the online registration process (<http://www.aiche.org/annual>) or by calling AIChE's Customer Service at 1-800-242-4363 (212-591-8100).

NEW AT THE ANNUAL MEETING - 4th World Congress on Microwave and Radio Frequency Applications
For the first time, AIChE will host this special meeting that focuses on industrial, commercial and institutional applications of Microwave and RF Applications. Attendees at the AIChE Annual Meeting who visit these sessions

will deepen their understanding of systems architecture and design and zero in on the economics, productivity and benefits of microwave and radio frequency processing. For more details, see <http://www.microwave-rf.org/>.

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/>.

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. Or visit the Web site at <http://www.aiche.org/distancelearning/cdrom/>.

MAKE THE GRADE: Physical Property Database

In order to process physical property data, engineering software must use correlations. All too often, however, software does not alert you if you use the correlations outside of their validated ranges. This can lead to over-designed equipment, wasted capital, and catastrophic loss. Avoid using invalid data and correlations by using AIChE's DIPPR 801 Evaluated Physical Property Database. This annual subscription provides you with data and validated correlations for nearly 2000 compounds. For more information, contact Karen Person at 212-591-7319; mailto:karep@aiiche.org

Bio: SBE Membership is here!

AIChE invites you to join the newly formed Society for Biological Engineering. Benefits include: an international professional network, discounts on the bioengineering conferences, subscription to the e-newsletter, and a voice in education, employment and technology advancement topics. Take advantage of the low introductory membership fees: \$10 for AIChE and ACS-BIOT members, \$75 for non-members, and \$5 for students. Join on your AIChE Dues bill or visit <http://bio.aiche.org/aboutus/membership.asp>.



ECOS 2004 PROCEEDINGS

Order your proceedings from the 17th International Conference on Efficiency, Costs, Optimization and Simulation of Energy and Process Systems, held on July 7-9, 2004, and organized by IMP with the participation of AIChE, ASME, and others. Three Volumes include 137 papers by authors from 26 countries. For details, see <http://ecos2004.imp.mx/ecos2004/proceedings.asp>.

SPONSORSHIPS

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

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1/12 Page	\$30

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Please contact Mariangela Peters at mariangela.peters@bayermaterialscience.com or 412-777-4195 for more information.

FUN SCIENCE SITES

BREAKING THE CODE

Hooked on da Vinci? Check out the Milan Science Museum online. Enjoy 3-D galleries and virtual constructions of Leonardo da Vinci's machines and inventions.

See <http://www.museoscienza.org/english/>.

ALEX, BONNIE, CHARLEY...

Since 1953, Atlantic tropical storms were named from lists created by the National Hurricane Center and are today maintained and updated by an international committee of the World Meteorological Organization. The lists featured only women's names until 1979 when men's names were introduced alternately. Six lists are used in rotation, but severe storm names are retired. Learn more at: <http://www.aoml.noaa.gov/general/lib/reason.html>.

IT'S FOR THE BIRDS

Next time you're caught staring out the window, impress your coworkers with your birding knowledge. The Cornell Lab of Ornithology site is a

must for fans of fair-feathered friends, with birding basics, dynamic online bird guide with sound files of bird songs, and more.

<http://www.birds.cornell.edu/programs/allaboutbirds/>.

SEMINARS AND CONFERENCES

17th ANNUAL BIOPROCESS TECH 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 or visit:

<http://www.asme.org/education/techsem/Bio/>

AMMONIA CONFERENCE Keynote: Chemical Safety

Keynote John Bresland will discuss the role of the US Chemical Safety and Hazard Investigation Board in reducing chemical process safety incidents at the 49th Annual Safety in Ammonia Plants and Related Facilities Symposium, September 20-23, Denver. Hear more than 25 research papers from noted practitioners. Bring your questions to the experts at the roundtable workshop. For details and registration, visit:

<http://www.aiche.org/conferences/ammonia/index.htm>

STICK TO IT

The 14th Coating and Drying Technology Seminar and 11th Adhesion Technology Seminar will be held October 18-22 in Waltham, MA. The Coating and Drying Seminar will feature 26 sessions on topics like fluid preparation and delivery; specific application methods; web tension control, electrostatic safety; troubleshooting coating defects; limits of coatability; web guiding; and more.

For details, contact Edgar B. Guttoff, at 617-734-7081,

<mailto:ebgutof@coe.neu.edu>;

<http://www.coe.neu.edu/~ebgutof/>.

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



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 to 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 (412-395-7363) or visit our website at www.futurecitypittsburgh.org.

TAKE YOUR KIDS TO NATIONAL CHEMISTRY WEEK!

2004 National Chemistry Week highlights science and chemistry contributions to Health and Wellness. Visit more than 25 tables with chemistry-related hands on experiments, activities, and demonstrations.

**October 22nd and 23rd
10 AM – 5 PM
at the 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 October 22-23, 2004.

OCTOBER 22-23, 2004

\$2 OFF general admission to **CARNEGIE SCIENCE CENTER**



For Information 412.237.3400
CarnegieScienceCenter.org

"This year's National Chemistry Week focus on making healthy choices and being active will allow lots of people to live longer, healthier lives. But sometimes, the miracles of science have to step in and help out. By combining the benefits of prevention (eating well, exercising, and of course, not smoking) with the promise of scientific discovery we can ensure a healthier tomorrow for all of us." - Vice Admiral Richard H. Carmona, M.D., M.P.H., F.A.C.S., Surgeon General, United States of America.



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2004-2005 Monthly Meeting Schedule

Date	Topic	Location
September 23, 2004	Plant Tour	Homer Laughlin – Newell, WV
October 20, 2004	Plant Tour – Joint Meeting w/SWE	McKeesport WWTP
November 4, 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:

Oct 20, 2004	Monthly Meeting	Plant Tour and Joint Meeting with the Society of Women Engineers
Oct 23, 2004	Outreach Event	National Chemistry Week At the Carnegie Science Center
Nov 4, 2004	Monthly Meeting	Technical Presentation and Joint Meeting with the American Chemical Society



The Catalyst

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337 Fourth Avenue
Pittsburgh, PA 15222-2097



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