



JANUARY MEETING NOTICE

Joint Meeting with the *Air & Waste Management Association* (Allegheny Mountain Section)

Where: Penn Brewery
Troy Hill Road and Vinial Street (North Side)
Pittsburgh, PA 15212
412-237-9402

When: Thursday, January 19, 2006

Time: 4:00PM Registration
4:45 The Metabolism of the Industrial City:
Water, Air and Land Issues in Pittsburgh History
Joel A. Tarr, PhD, Professor of History & Policy, Carnegie Mellon University
5:15 Questions, Answers and Discussion
5:30 Tour of Penn Brewery – *Brewmaster Tom Pastorius*
5:45 Dinner and Social
8:00 Adjournment

Menu: A buffet dinner of German specialties.

Cost: \$35.00 Members
\$25.00 Students and unemployed members
\$45.00 Non-members

Proceeds will benefit local AIChE and A&WMA scholarship and education programs

RSVP NO LATER THAN FRIDAY JANUARY 13, 2006

TO: Mr. Ed Moretti, Moretti Consulting Group
314 East Main St., Carnegie, PA 15106
Phone: 412-276-2228
E-mail: emoretti@moretticonsulting.com

Your RSVP must include: **Name, Company Name, 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.

THE METABOLISM OF THE INDUSTRIAL CITY: WATER, AIR AND LAND ISSUES IN PITTSBURGH HISTORY

This presentation will explore the history of water, air and land pollution in the Pittsburgh region. It will focus particularly on wastewater management issues before 1958, smoke control, and despoliation of the land as reflected in Nine Mile Run.

Joel A. Tarr is the Richard S. Caliguiri University Professor of History and Policy at Carnegie Mellon University. He received his Ph.D. in 1963 from Northwestern University and joined the CMU faculty in 1967. He holds joint appointments between History, the Heinz School of Policy and Management, and the Department of Engineering and Public Policy. He has published widely in the areas of urban and environmental history and is most recently the editor of *Devastation and Renewal: An Environmental History of Pittsburgh and Its Region* (University of Pittsburgh Press, 2003).

DIRECTIONS TO PENN BREWERY:

From Downtown: Take Penn or Liberty Avenue to Strip District. Turn onto 16th Street and cross the 16th Street Bridge. At the third stop light turn right to Troy Hill Road. Penn Brewery is 200 yards on the left.

From the North: Take I-79 to I-279 South to Exit 8B East Street. Go straight to the third stop light, then left to East Ohio Street. At the second stop light turn left to Chestnut Street, then take immediate right to Troy Hill Road. Penn Brewery is 200 yards on the left.

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LETTER FROM THE CHAIR

Dear Members,

January brings the beginning of the second half of our program year. On January 11th, there is a joint town-hall meeting with ACS and SACP about the Federal energy policy and its impact on our region. Also, I encourage you to attend the joint monthly meeting with A&WMA at Penn Brewery on January 19th.

If you are an undergraduate student majoring in chemical engineering or if your child is, I strongly encourage you to submit an application for two scholarships to be awarded by our Section.

February will bring the first Young Professionals (YP) event to our Section. Also, our annual Student Night will be on February 13th at the University of Pittsburgh. On February 24th, we will be participating in a "Job Searching for Chemical Professionals" event.

Details of all these events will be in coming issues of *The Catalyst*.

David Missenda
AIChE Pittsburgh – Section Chair

MONTHLY MEETING

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From the East: Take PA Turnpike (I-76) to Exit 57. Follow I-376 West to the center of Pittsburgh then follow I-279 North to Exit 7C (Chestnut St.). At the end of the exit ramp, turn left to Chestnut Street then straight ahead to second stop light and turn right to Troy Hill Road. Penn Brewery is 200 yards on the left.

From the West and South: Take I-376 East through the Fort Pitt Tunnels and across the Ft. Pitt Bridge, following signs to I-279 North. (Stay in left lane through tunnel and across bridge.) As soon as you pass PNC Park, take Exit 7C (Chestnut St.). At the end of the exit ramp, turn left to Chestnut Street then straight ahead to second stop light and turn right to Troy Hill Road. Penn Brewery is 200 yards on the left.

Limited free parking is available in the double deck lot behind the Penn Brewery buildings or the gravel lot across the street.

For more information, visit: www.pennbrewery.com

2006 – 2007 SECTION SCHOLARSHIPS

Applications are now available for up to two \$750 scholarships to be awarded by the Pittsburgh Section AIChE for the 2006 – 2007 academic school year. Sophomore and junior year chemical engineering students are eligible to apply if:

- They are enrolled in one of the following chemical engineering curriculums in the AIChE Pittsburgh Section area: Carnegie Mellon University, University of Pittsburgh, West Virginia University, or Youngstown State University
- They are enrolled at any AIChE-accredited chemical engineering curriculum in the United States provided that the student is the son or daughter of a member in good standing of both AIChE and the Pittsburgh Section AIChE.

The deadline for submission of an application is January 20, 2006. Scholarship recipients will be notified by February 17, 2006.

For more details or to print a copy of the application, visit www.aichepgh.org



MEMBERSHIP CORNER

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

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

NEWSLETTER DEADLINE

**THE DEADLINE FOR THE
 FEBRUARY NEWSLETTER IS
 MONDAY, JANUARY 23, 2006**

Please submit information to:

E.G. Klein
 Goldschmidt Industrial Chemical Corp.
 941 Robinson Highway
 McDonald, PA 15057
 724-796-3128
 eg.klein@giccusa.com

AICHE NATIONAL NEWS

EWeek

Celebrate National Engineers Week, February 19-25, 2006 and celebrate the world of difference engineers make to our quality of life. "E-Week" is a fun and informative way to reach out and raise awareness in the fields of engineering, math, science, and technology. Programs include "Girl Day" on February 23, a worldwide effort to encourage young women and girls to consider a career in engineering. Or show kids how math can unlock the mysteries of science with creative science projects from Super Cyberspace Science. To learn more about scheduled E-Week events and activities and how to get involved, please visit www.aiche.org/eweek.aspx

Short Courses for Chemical Engineers - For a complete list of upcoming short courses, dates, locations, and registration information, visit:

www.asme.org/education/shortco/shortcourses.htm (Note: Chemical engineering courses start with the letters "CH")

Easy Dues It

Log on to the newly redesigned www.aiche.org to pay your dues online. It's quick and easy. Log in and select "update my membership" from the home page or visit the Member Center.

That's One Big Meeting! Save the Date for Spring

This spring, the 2006 AIChE Spring National Meeting, Global Congress on Process Safety—with CCPS International Conference, Loss Prevention Symposium, Process Plant Safety Symposium—plus World Congress on Particle Technology will all be held at Disney's Dolphin Hotel, Orlando, Florida, April 23-27. For details, visit:

www.aiche.org/Conferences/SpringMeeting/index.aspx



ENGINEERING VOLUNTEERS

Volunteers are needed for the Future City Pittsburgh Competition!

The Pittsburgh Region is beginning its seventh year in the National Future City Competition. The number of Middle schools that have registered in the Pittsburgh Regional Competition has grown each year. The Competition's growth is testimony to the program's unique capacity to challenge students to learn and test new concepts related to engineering and city planning, to apply the mathematics and science they have already learned, to explore their imaginations about what our cities will be like in the future, and to build an example of the result using ingenuity and their own hands. However, another important facet of the Pittsburgh Regional Future City Competition that has allowed it to expand and is the associated growth of a cadre of dedicated volunteers. Without volunteers, there would be no competition.

Please volunteer as a Presentation Aide or Judge. During November and December, judges will review the SimCity files and essays.

On **Saturday, January 21, 2006** the Pittsburgh Regional Competition will be held at the Carnegie Music Hall in Oakland. Based on past experience, we anticipate the need for more than 120 volunteers to fill the positions of Essay Judges, Registrars, Model Movers, Room Manager/Timers, Score Keepers, Special Awards Judges, Presentation Judges, Exhibit Area Controllers, Still and Video Camera Operators, and Public Relations Coordinators. Orientation meetings for Presentation Aides and Judges will be held as needed in early January, with the goal of identifying all volunteers and making assignments by January 3, 2006.

We welcome your help; just add your name to our 2005 – 2006 Volunteers List. To qualify as a Presentation Judge, you must have judged previously or have attended a Judge Orientation meeting.

To register as a volunteer, complete the Volunteer Registration Form available by visiting:
www.futurecitypittsburgh.org/futcityvolunteer_form.htm

Additional information is available by visiting:
www.futurecitypittsburgh.org

If you have questions, call Bill Pruss at 412-273-7100

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

Contact E.G. Klein at eg.klein@giccusa.com or 724-796-3128 for more information.

ENERGY TOWN HALL MEETING

"The Federal Energy Policy and You" will be the topic of a Town Hall Meeting:

When: Wednesday, January 11, 2006

(Free parking in the Forbes Avenue Garage is included, if pre-registered by January 7, 2006. To pre-register, contact VALARIE at Energy Symposium by e-mail: daugherty@pittcon.org or by phone at 412-825-3220, ext. 204. Leave your name, e-mail address and/or phone number.)

Where: Duquesne Room, Student Union Building
 Duquesne University
 600 Forbes Avenue
 Pittsburgh, PA 15282

Time:

6:30 PM Registration

7:00 Welcome and Introduction

7:05 Program:

U.S. Energy Sources and Consumption

An overview of U.S. energy flow with possible short and long term solutions to diminishing global supply of petroleum by **Gerst A. Gibbon, PhD, Retired, National Energy Technology Laboratory, U.S. Dept. of Energy.**

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ENERGY TOWN HALL MEETING

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Providing Options for the Energy Future of the U.S.
Discussion of new technologies and approaches that will ensure the safe, clean, and affordable use of U.S. fossil energy resources through the 21st Century by **Michael L. Eastman**, Strategic Center for Coal, *National Energy Technology Laboratory, U.S. Dept. of Energy.*

Resurgence of the Nuclear Option

An overview of new nuclear power initiatives and how the Federal energy policy will either aid or hinder those initiatives being pursued by **Ed Cummins**, Director of AP 1000 Projects, Westinghouse Electric Co.

9:00 PM Refreshments

Presented by:

*The Society for Analytical Chemists of Pittsburgh
The American Chemical Society, Pittsburgh Section
American Institute of Chemical Engineers
Energy Technology Group, Pittsburgh Section, ACS*

And Co-sponsored by:

*Bayer School of Natural and Environmental Sciences,
Duquesne University*

YOUR PITTSBURGH SECTION AIChE

OFFICERS AND COMMITTEE CHAIRS

WOULD LIKE TO

WISH YOU A

HAPPY NEW YEAR

JOB SEARCHING FOR CHEMICAL PROFESSIONALS

Presented by

The Society for Analytical Chemists of Pittsburgh
The American Chemical Society, Pittsburgh Section
The Spectroscopy Society of Pittsburgh

Friday, February 24, 2006

Duquesne Room, Student Union
Duquesne University, Pittsburgh

Fee: \$10.00 (Lunch and Parking in the Forbes Avenue
Garage included)

PROGRAM:

- 9:00 AM Registration
- 9:25 Welcome and Introduction
- 9:30 ***Managing an Effective Job Search***
Dr. Ray O'Donnell
Coordinator of Graduate Studies, SUNY-Oswego
- 10:40 BREAK
- 10:50 Managing an Effective Job Search (cont'd)
- 12:00 PM LUNCH
- 12:50 Presentation by Dana Schliebner, Senior
Staffing Consultant at On Assignment
- 1:00 ***Opportunities with the FBI*** by James J.
Knight, FBI Applicant Coordinator
- 1:30 Resume Review and Personal Consultation
- 3:30 Concluding Remarks

***Please bring your resume in order to participate
in the afternoon program***

For additional information, contact Lyle Farr at 724-837-1741
or elfarr@earthlink.net

Registration:

Please make \$10.00 check payable to *ACS Pittsburgh Section* and mail with completed registration form by February 17, 2006 to:

Dr. T. J. Weismann, 321 Mellon Hall,
Duquesne University, PA 15282

_____ **Full Day** _____ **Morning Session** (*Lunch included*)

Name: _____

Address: _____

City: _____ State _____ Zip _____

Phone: _____

E-mail address: _____



**MARK YOUR CALENDAR FOR
ENGINEERS WEEK FEBRUARY 19-25, 2006**

Our Section will be sponsoring a Superball Making event at the Carnegie Science Center for National Engineers Week. Please join us on February 24th and 25th. To volunteer for this event, contact Nancy Hirko at nhirko@air-comp.com or phone 412-826-3636 for more information.

For additional National Engineers Week information, visit www.eweek.org

Top Ten Reasons to Celebrate National Engineers Week:

10. Because if we don't those darn scientists will take credit for all of our efforts.
9. To remind those jerks in school just who's having fun now.
8. Even garbage collectors want to be called engineers.
7. To stop people from snickering when we discuss "flocculating" devices.
6. "ENGINEER" - you can't spell it without "G.E.E.!"
5. It's either that or "Broccoli Awareness Week."
4. What else have you got to do in the third week in February?
3. Spring will come early if enough engineers emerge from the shadows.
2. Pocket protectors! Pocket protectors! Pocket protectors!
1. Because 1,800,000 engineers can't be wrong.

Introduce a Girl to Engineering Day February 23, 2006

"Introduce a Girl to Engineering Day" was launched during National Engineers Week 2001 and was quickly embraced by groups across the country, reaching an estimated one million girls annually.

Women are severely underrepresented in the engineering profession. Research shows that girls and young women lose interest in subjects and the

fields of study leading to engineering careers long before they enter college.

Math, Science, and Your Daughter: What can parents do?

The amount of math your daughter takes acts as a "critical filter" limiting:

- the jobs she can get.
- the colleges she can go to.
- the college majors she can choose.

Without at least three years of high school math, your daughter will be excluded from a wide variety of jobs including: Programmer, Accountant, Biologist, Medical Technician, Architect, and Doctor.

In most schools, the key "math decision-making times" are:

8th grade, when most students decide if they will take algebra in 9th grade, an important first step to continued math involvement (although more advanced students may take algebra in 8th grade) and

11th grade, when math requirements for college admission are fulfilled and girls are more likely than boys to stop taking math (this happens in 10th grade for girls who took algebra in 8th grade).

Out-of-date ideas and discrimination help convince many talented girls that math and science aren't for them.

It doesn't have to be that way. As parents, there are many things you can do to help your daughter give math and science a second chance. Parent encouragement works.

"My mother and father encouraged me to enter whatever field I desired."

"My parents and teachers encouraged me by giving me confidence that I could achieve what I wanted."

Source: www.eweek.org



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Newsletter Editor

E.G. Klein (eg.klein@giccusa.com)
Goldschmidt Industrial Chemical Corp.
724-796-3128

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

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Web Master

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

2006 Monthly Meeting Schedule

Date	Topic	Location
January 19, 2006	Metabolism of the Industrial City	Penn Brewery - Pittsburgh
February 13, 2006	Annual Student Night	University of Pittsburgh - Oakland
March, 2006	Technical Presentation	TBA
April 11, 2006	Corporate Culture & Managing Change	Jimmy G's - Sharpsburg, PA
May, 2006	Last Meeting of the Year	TBA

Mark your Calendars!

For the Following Dates:

January 11, 2006	Energy Town Hall Meeting	Duquesne University - Pittsburgh
January 19, 2006	Monthly Meeting	Joint meeting with A&WMA – Penn Brewery
January 21, 2006	Outreach Event	Regional Future City Competition – Carnegie Music Hall - Oakland
February 13, 2006	Annual Student Night	University of Pittsburgh - Oakland
February 24–25, 2006	Outreach Event	National Engineer’s Week – Carnegie Science Center – North Side
February 24, 2006	Managing a Job Search	Duquesne University - Pittsburgh
April 11, 2006	Monthly Meeting	Jimmy G’s – Sharpsburg, PA



The Catalyst

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

Visit us on-line at www.aichepgh.org



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