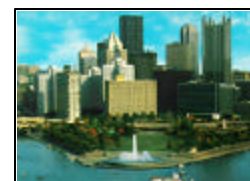




# The Catalyst

PITTSBURGH CHAPTER  
AMERICAN INSTITUTE OF CHEMICAL ENGINEERS



Volume 18 Issue 7



April 2004

www.aichepgh.org

## APRIL MEETING NOTICE

**Topic:** **Homeland Security at Your Facility –  
DOT Hazardous Materials Security Requirements**

**Where:** D'Imperio's Restaurant  
3412 William Penn Highway  
Monroeville PA 15235

**When:** *Wednesday, April 21, 2004*

**Time:** 5:45 PM Registration and Networking  
6:00 PM Dinner  
7:00 PM Presentation

**Menu:** Orders will be taken at D'Imperio's, so there is no need to specify a dish with your RSVP.

Your meal will include a mixed salad, vegetable, potato, black forest torte, and iced tea, along with a choice of:

- **Bracciola** - slices of NY Strip rolled with bread stuffing and baked with tomato sauce
- **Fresh Fish** - with garlic bread crumbs
- **Chicken Marsala**

**Cost:** \$25.00 Members  
\$20.00 Students / Unemployed Members  
\$30.00 Non-members

**RSVP NO LATER THAN MONDAY APRIL 19<sup>TH</sup>, 2004**

TO: Dr. Jim Schneider, Vice-Chair  
Phone: 412-268-4394  
E-mail: schneider@cmu.edu

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

**~ About the Presentation ~**

Do you ship or transport hazardous materials? If so, you may be affected by recent regulations promulgated by the U.S. Department of Transportation. This presentation will summarize and discuss the implications of these new requirements for planning and training. Specifically, the presentation will include:

- Hazmat Transportation Security Awareness Training Module Video developed by the U.S. Department of Transportation, Research and Special Programs Administration
- Development of Security Plans under the hazardous materials rules

New regulations require offerors and carriers of certain hazardous materials to prepare a written security plan. Managers must assess and address transportation security risks and include the following in the security plan: 1) personal security, 2) unauthorized access, and 3) en route security. The plan was required to be in place by September 25, 2003.

Additionally, all shippers and carriers of hazardous materials must assure that hazmat training includes a security component. All hazmat employees must receive "security awareness" training on transportation security risks and how to enhance security, as well as how to recognize and respond to potential security threats. Those employers that are required to have a security plan must also train their hazmat employees on implementation of the security plan. Specifically, the training must address objectives, procedures, responsibilities, organization security structure, and actions to take upon a security breach.

*CONTINUED ON PAGE 2*



## LETTER FROM THE CHAIR

Dear AIChE Members,

At long last we are beginning to emerge from winter. In addition to spring rains and planting season, the month of April signals the approaching end of the 2003-2004 local section calendar as well as the last few months of my term as section chair. In July, Jim Schneider will take over as section chair and we will elect a new vice chair to take his place. I encourage you to contact myself or JoAnn Truchan if you are interested in volunteering.

I regret that I was unable to join the section for the March meeting at Seagate. I have heard from those that were able to attend that the tour was informative and the dinner was enjoyable. I'd like to thank Yiao-Tee Hsia, Paul Jones, Lei Li, and Alexei Merzlikine for taking the time to show our section their world-class facility.

Also included in this edition is a letter from our National President, Bill Byers, about new developments and partnerships involving the National Organization. Many of you will remember meeting Bill at our Pittsburgh Section Student Night this year. Please take the time to read his open letter to our membership on page 5 of this issue.

This month we will be meeting in Monroeville to hear a presentation on the new Hazardous Materials Security Requirements. Our local section meetings are a great opportunity to grow professionally and interact socially. I look forward to seeing you on the 21st and I encourage everyone to come and network with their fellow Chemical Engineers.

Sincerely,

*Nathan Peters*

AIChE Pittsburgh Section- Chair

## AICHE PITTSBURGH SECTION SCHOLARSHIP WINNER!

Congratulations to Mr. Steven H. Back, a junior from Carnegie Mellon University, who was awarded a \$750 scholarship from our section for the 2004-2005 academic year.

## MONTHLY MEETING – CONTINUED

~ About the Speaker ~

STEPHEN M. FRANK, P.E., is a Project Manager at American Geosciences, Inc. where he is responsible for environmental engineering, compliance, auditing, permitting, and training programs.

He has 15 years of experience in the environmental profession, and is a Registered Professional Engineer (P.E.) in Pennsylvania, Idaho and Wisconsin.

Mr. Frank provides environmental consulting and training throughout the U.S. to a variety of industrial and commercial clients, including steel making/finishing, chemical, manufacturing and other facilities. He has conducted numerous comprehensive projects involving the evaluation, development, and improvement of environmental compliance programs, as well as site remediation. Mr. Frank has counseled clients on the financial and bottom-line implications of environmental programs, and has developed alternatives to increase company profits. He has provided training in hazardous material transportation, hazardous waste management, contingency plan implementation, and storage tank management. Mr. Frank received his B.S. in Chemistry and completed a number of undergraduate and graduate level engineering courses at The University of Pittsburgh.

### DRIVING DIRECTIONS TO MEETING LOCATION:

#### *D'Imperio's Restaurant*

3412 William Penn Highway  
Monroeville PA 15235  
(412) 823-4800

D'Imperio's is located on Rt 22 (William Penn Highway) in Monroeville.

**From the PA Turnpike:** Take exit 10B toward Monroeville and proceed 1.5 miles to D'Imperio's

**From the Parkway East:** Take exit 10B toward Monroeville and proceed 2.5 miles to D'Imperio's.



## 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](mailto: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**  
**705 Chrysler Street**  
**Pittsburgh, PA 15226**

## AIChE AT THE ESWP TECHNICAL SOCIETY FAIR

*The Engineers' Society of Western Pennsylvania has affiliated memberships with over 35 of Pittsburgh's technical society chapters. It is a member-based, non-profit organization whose primary purpose is to promote engineering.*

Thanks to everyone who came out for the ESWP Technical Fair on March 3, 2004! The event was held at the Engineers' Building in downtown Pittsburgh, and featured two floors of booths sponsored by various local technical society chapters, including ASME (American Society of Mechanical Engineers), IEEE (Institute of Electrical & Electronics Engineers), and SWE (Society of Women Engineers).

Our own chapter of AIChE was represented with a booth on the first floor, and members were able to enjoy complimentary hors d'Oeuvres, attend several presentations by local companies, and network with local engineering professionals in a wide variety of fields.



*Thanks to everyone who represented our Section at the Technical Society Fair, and to all our members who participated. Your attendance helped make the event a success!*



## NATIONAL AIChE NEWS

### *AIChE NATIONAL SPRING MEETING*

Don't miss out on the AIChE Spring National meeting, April 25-29, in New Orleans. You'll enjoy over 140 technical sessions, and 13 topical conferences spanning emerging and core ChemE fields. Learn more at [www.aiche.org/spring](http://www.aiche.org/spring) or call 1-800-242-4363.

### *NEW ORLEANS JAZZFEST*

Heading to New Orleans for the Spring Meeting? Check out the world-famous New Orleans JazzFest the weekends of April 24-25 and April 30-May 2. You'll hear hundreds of jazz and blues greats, including Smokey Robinson, Etta James, The Neville Brothers, Clarence "Gatemouth" Brown, and Dr. John. Day passes are only \$20 in advance and shuttle service is available. Visit: <http://www.nojazzfest.com>.

### *JUST ADDED: SPRING NANOSCALE TOPICAL*

Check out Nano, the next big little thing at the AIChE Spring National Meeting, April 25-29 in New Orleans. For session descriptions, visit: <http://www.aiche.org/conferences/techprogram/groupdetail.asp?GroupCode=22&DSN=spring04>.

### *ACS-AICHE PARTNERSHIP OPEN FORUM AT SPRING MEETING*

Learn about the new ACS-AIChE partnership at a Spring Meeting open forum, Sunday, April 25, 4:30-5:30 pm. Members of the AIChE Board will discuss plans for cooperative programs and additional benefits to members. This open discussion will include time for questions and comments. For more information, see <http://www.aiche.org/new/>.

### *PROCESS DEVELOPMENT SYMPOSIUM*

AIChE's 2004 Process Development Symposium, "Working Right on the Right Thing," June 20-23, Chicago, will explore the fundamental components of cost-effective and successful process development. Registration for this Gordon-style conference is limited to 125. One price includes sessions, room, food, and conference CD. For program and registration information, see <http://www.aiche.org/conferences/processdev/>.

### *BE PREPARED: EMERGENCY PLANNING*

Get real-world solutions for emergency planning at the 19th Annual International Conference, "Emergency Planning: Preparedness, Prevention, Response," June 29-

July 1 in Orlando, Florida. Highlights include: keynote address from the Department of Homeland Security and sessions on scenario development, Layer of Protection Analysis (LOPA), incident response, and lessons learned. Register by April 15 and save \$200 on registration. Call 1-800-242-4363 or visit <http://www.aiche.org/ccps/icw>.

### *IT MAKES CENTS: SAVE 25% ON AICHE FINANCIAL SERVICES*

Act now and save 25% on new financial benefits for members: Grogan Financial Advisory Services and 529 College Saving Plan. Design a financial roadmap that meets your personal goals or learn how to grow college funds. Visit: <http://www.efs529.com/aichefinancial>.

### *SPRING IT ROUNDTABLE AND WEBCAST*

Gain practical information on how to deal with IT implementation issues and learn how to review and understand previous implementations at the Computer and Systems Technology (CAST) Division-sponsored roundtable and Webcast, Wednesday, April 28, 1:30-4:30 CT at the Spring National Meeting. This session will examine best practices in manufacturing, solutions for inventory management, lessons learned on going wireless, and organizational considerations, and more. To learn more, visit: <http://www.castdiv.org/webcast.htm>.

### *OFFSHORE TECHNOLOGY*

Join over 50,000 engineers, technicians, executives, scientists, and managers at the 2004 Offshore Technology Conference (OTC), May 3-6 in Houston, Texas. The theme is "Innovation Without Limits," and includes over 300 sessions and expo with 2,000 vendors. See <http://www.otcnet.org/2004/>.

### *SPRING CD-ROM-FIRST EVER*

The 2004 Spring Meeting CD-ROM contains all submitted papers from the Spring topical conferences plus unaligned/non-topical sessions. Order by calling AIChE Customer Service at 1-800-242-2463 or by checking it off on your Spring Meeting registration. Order now or on-site for \$65. After April 29, the post-conference price will be \$99.

### *NATIONAL BIOTECHNOLOGY CONFERENCE*

Learn how biotechnology is transforming the pharmaceutical sciences at the American Association of Pharmaceutical Scientists (AAPS) National Biotechnology Conference, May 16-19, Boston, MA. AIChE members will receive a member discount. For more information, visit <http://bio.aiche.org/>



## AN OPEN LETTER TO ALL AIChE MEMBERS

Dear Colleagues,

Spring is finally here, and I'm energized by the growth and vitality I see in AIChE. It's my pleasure to continue my predecessor Dianne Dorland's commitment to open communication and share with you some news about AIChE's most recent developments.

Let me begin by announcing that we have subleased 75% of our office space to the New York State Society of Certified Public Accountants. Long term, this arrangement will save AIChE over \$1 million a year. It is a critical element in our plan to reduce costs and achieve a balanced budget.

I am also happy to share with you news of a strategic partnership with the American Chemical Society (ACS). After a year of discussions between working groups from our respective boards, AIChE and ACS have agreed to pursue cooperative programs in areas of mutual interest.

This will not be a merger. Our boards and councils will remain separate and autonomous. However, by working together in some key areas, we can make a greater difference to our members and to the chemical enterprise at large. Areas of synergy include: government relations, sustainability, green chemistry, biological engineering, chemical safety and health, and meeting programming. Moving forward, career development, K-12 outreach, and minority and women's issues provide fertile ground for collaboration.

I invite you to attend an open forum with the AIChE Board at the Spring National Meeting to discuss plans for AIChE-ACS cooperative programs and additional benefits to members. This session, held Sunday, April 25, 4:30-5:30 pm, at the New Orleans Hyatt Regency, Esplanade B, will include time for open discussion, questions, and comments. For more details, see <http://www.aiche.org/new>.

Under the heading of 'new business,' AIChE and ASME (the American Society of Mechanical Engineers) have formed a partnership to deliver the Institute's continuing education courses. Starting in August, ASME will present

AIChE's professional training in conjunction with its own education offerings.

AIChE members will now enjoy discounted access to a greatly expanded portfolio of courses at a more extensive network of training sites. While we will continue to guide content, assuring that it meets the needs of chemical engineers, ASME will integrate the costs for marketing, logistics, and administration of the programs, significantly improving the financial performance of our training activities.

Thanks to the work of our volunteer leaders and your continued support, AIChE is entering a new season of growth. Together, we're building an AIChE that is vital, focused and essential to you, your professional development, and to the needs of chemical engineering professionals around the world.

Sincerely,

William D. Byers  
National AIChE President

PS: I hope to see you at the 2004 AIChE Spring National Meeting, April 25-29 in New Orleans. You'll come away with important information that you can immediately put to work for your company. See <http://www.aiche.org/spring>.

## 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@bayerpolymers.com](mailto:mariangela.peters@bayerpolymers.com) or 412-777-4195 for more information.



## 2004-2005 LOCAL SECTION EXECUTIVE BOARD NOMINATIONS

*Now is the time to start thinking about joining the Pittsburgh AIChE Executive Board. The Section cannot run smoothly by itself. It's the commitment of volunteers like you that keeps the Section running.*

*Becoming an officer is a great way to become more involved in AIChE and the Section.*

*If you think you might be interested, please contact Past-Chair JoAnn Truchan at 412-578-7981 or [jtruchan@achd.net](mailto:jtruchan@achd.net).*

## JUST FOR FUN...

It's not your imagination. The days are getting longer, and the weather is getting warmer. April, which comes from the Latin aperire "to open," brings flower buds and warmer days. It's a time to open the windows and get growing!

### APRIL FOOLS

Many ancient cultures, including Roman and Hindu, celebrated New Year's Day on or close to April 1. In 1564, France adopted the Gregorian Calendar and shifted New Year's day to Jan. 1.

When traditionalists refused to accept the new date, they were subject to tricks and fool's errands. Great Britain switched over in 1752, and April Fool's began to be celebrated in England and the colonies. See <http://www.infoplease.com/spot/aprilfools1.html?link=tmplnav>.

### GREAT PEEPS

When they were invented in 1953, it took 27 hours to create one marshmallow Peep. Today, more than 4.2 million marshmallow Peeps, bunnies, and other shapes are made each day at the Bethlehem, Pennsylvania factory. Take a tour at <http://www.marshmallowpeeps.com>.

### NATIONAL POETRY MONTH

"I have never started a poem whose end I knew. Writing the poem is discovering" -- Robert Frost. For information on National Poetry Month events and a host of poems, see <http://www.poets.org>

### DOG RUN

The 2004 Iditarod kicked off Saturday, March 6 in Anchorage, Alaska. Ninety-two dog sled teams battled for the title. Follow the leader as they mush over 1,150 miles, cross two mountain ranges and brave temperatures well below zero to arrive in Nome ten days later. To learn more about the "last great race," see <http://www.iditarod.com>.

### TIME OUT WITH A FURRY FRIEND

Need a break? Hang with the apes, loaf with the pandas, or meditate with elephants by visiting San Diego Zoo's animal cams at <http://www.sandiegozoo.org/zoo/apecam.html>.

### SOME GOOD DIRT

Frustrated archeologists can get their hands dirty at the Theban Mapping Project, a Web site that explores hundreds of tombs in the Valley of the Kings with movies and maps. See <http://www.thebanmappingproject.com/>.

## NEWSLETTER DEADLINE

**THE DEADLINE FOR THE MAY NEWSLETTER IS  
TUESDAY, APRIL 21, 2004.**

Please submit information to:

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

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



## AICHE PITTSBURGH SECTION 2002-2003 OFFICERS

### Executive Committee

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#### Vice-Chair & Program

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Carnegie Mellon University  
412-268-4394

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#### Committee Chairs

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PE Review: Carl Schwartz

#### Web Master

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

## 2003-2004 Monthly Meeting Schedule

Date	Topic	Location
January 14, 2004	Joint Meeting with AWMA	Penn Brewery
February 11, 2004	Annual Student Night	Univ of Pittsburgh - Oakland
March 17, 2004	Plant Tour	Seagate - Pittsburgh
April 21, 2004	Technical Presentation	D'Imperio's - Monroeville
May 2004	Last Meeting of the Year	TBA

**Mark your calendars!**

For the Following Date:

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April 21, 2004

Monthly Meeting

" Homeland Security at Your Facility -  
DOT HazMat Security Requirements."

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***The Catalyst***

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



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