



FEBRUARY MEETING NOTICE

Topic: "Our Energy Future and Chemical Engineers"

Where: William Pitt Student Union
University of Pittsburgh – Oakland Campus

When: Thursday, February 10, 2005

Time: 5:45pm Registration
6:00pm Reception and Student Poster Session
6:45pm Dinner
7:45pm Presentation

Menu: Please select from the following:

- **Chicken Oscar** – Chicken breast baked with lobster meat and jarlsburg cheese, glazed with bearnaise sauce.
- **Pan Charred Braised Pork Tenderloin** - sugar seared pork tenderloin served with calvados compote
- **Sole Roulades** - Flaky lemon sole stuffed with shrimp and crabmeat, topped with mornay sauce

All entrees served with salad, herb roasted red potatoes, vegetable medley, rolls and butter, beverage, and dessert. A vegetarian entrée option is available upon request.

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

RSVP NO LATER THAN MONDAY FEB 7TH, 2005

TO: Mr. David Missenda, Vice-Chair
Phone: 412-503-4620
E-mail: David_Missenda@URSCorp.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.

~ About the Presentation ~

Dr. Dale Keairns currently serves on the AIChE Board of Directors and is a Senior Advisory Engineer with Science Applications International Corp. (SAIC). SAIC is part of RDS LLC, a support contractor with the DOE National Energy Technology Laboratory. Dale has worked on energy and environmental technology, business and policy issues for over 35 years.

Dale's talk is entitled "Our Energy Future and Chemical Engineers". Thirty years ago, 22% of U.S. energy resources were imported. Our dependence on imported energy resources is projected to increase to greater than 40% within 20 years. As a Nation, what decisions will we make about our energy future? What are the opportunities for chemical engineers? What is the role of a professional society? The evening will provide an opportunity to explore future energy scenarios, our profession and our response.

Dr. Dale Keairns earned his MS and PhD in Chemical Engineering from Carnegie Mellon University, and completed his undergraduate study in ChE at Oklahoma State University.

He has over 35 years experience in industry, consulting and teaching as well as service through professional society initiatives. He has 32 years experience with Westinghouse that included technical and financial responsibility for research and development, responsibility for business planning and responsibility for a commercial business. As a senior advisor with SAIC, he has led DOE project support activities to develop technology plans for the next generation of coal based energy systems. Dr. Keairns is the author of over 150 publications.

CONTINUED ON PAGE 2



LETTER FROM THE CHAIR

Dear Members,

Thanks to Greg Yates and Henry Nutbrown for their informative presentations during last month's joint meeting with the Air and Waste Management Association. Sounds like it will be easier to get to those Pirates games in the future!

We're all looking forward to this year's AIChE Student Night on February 10th. Dr. Dale Keairns has been a great supporter of our section and AIChE in general over the years. Recently, he served as Chair of the National AIChE Government Relations Committee, so I'm sure he'll have many interesting experiences to share. Please support the future of AIChE by attending.

I'd also like to encourage you to volunteer for National Engineers Week (February 18th & 19th). Please contact Nancy Hirko if you're interested.

Best wishes for the New Year!

Jim Schneider,
Chair, AIChE Pittsburgh Section

MONTHLY MEETING NOTICE

CONTINUED FROM PAGE 1

At our local section's Annual Student Night, we will be hosting students from the University of Pittsburgh, Carnegie Mellon, Youngstown State, and West Virginia University.

Please make every effort to attend! For many of our students and poster presenters, this is their first contact with our local professional chapter, and a good opportunity to introduce them to AIChE.

MEETING LOCATION AND PARKING INFORMATION:

The William Pitt Student Union is located on the University of Pittsburgh Campus in Oakland, at the corner of Bigelow Blvd and Fifth Avenue. The Student Union is directly across the street (Bigelow Blvd) from the Cathedral of Learning.

PARKING IS AVAILABLE AT THE SOLDIERS AND SAILORS GARAGE, ACROSS THE STREET (FIFTH AVENUE) .

An interactive campus map is available on-line at: <http://www.umc.pitt.edu/tour/tour-firstmap.html> Directions to the University of Pittsburgh's Main Campus (Oakland) can be found at <http://www.umc.pitt.edu/tour/directions.html>

WANTED: VOLUNTEERS FOR ENGINEERS' WEEK 2005!

If you have ever had the itch to get involved in your local section, this is a great way to get out and meet some of our members as well as participate in one of our many fun Outreach Events.

We will again be participating in the celebration of National Engineer's Week at the Carnegie Science Center. Volunteers are needed to help staff our table on Friday, February 18 and Saturday, February 19, 2004 for 2-4 hour shifts between 10 am and 5 pm each day.

Those who volunteer will receive free admission to the Science Center and Sportworks exhibits, a complimentary 2005 Engineers' Week T-shirt, and a pass for free admission on your next visit to the Science Center.

Please consider helping with this worthwhile event! Contact Nancy Hirko at nhirko@air-comp.com or (412) 826-3636 for more information.

Don't miss the admission coupon in this edition of the Catalyst...



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

2005-2006 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 local Section. If you think you might be interested, please contact our Past-Chair Nathan Peters at 724-942-7935 or by e-mail at nrpeters@verizon.net

THANKS FOR YOUR HELP!

Thank you to all our AIChE Members who volunteered for the 2005 Future Cities Competition at the Carnegie Music Hall in Oakland!

After months of hard work, area school children presented their projects on Saturday, January 15th.

Our AIChE Chapter provided engineering mentors and judges for the event!



Pictured above are Bill Stenger, David Missenda, JoAnn Truchan, and Domingo Tubio. Missing from photo: Dick Dupree, Peggy Flaherty, and Donna Hayworth.



estrella

"The World's Largest Inventory of Glass-Lined Pipe and Fittings"

ESTRELLA USA
 51 N. Towamencin Ave
 Lansdale, PA 19446
 tel: 215-368-9299
 fax: 215-368-9204
 email: info@EstrellaUSA.com

Glass-Lined Piping Products

Pipe & Fittings (1/2"-48" dia)
 150 lb & 300 lb ANSI flanges
 Jacketed Pipe & Fittings
 45 deg. Laterals
 Elbows, Tees, Crosses
 Instrument Tees
 Reducing Flanges
 Concentric Reducers
 Eccentric Reducers
 Sightglasses
 Strainers
 Thermowells
 DIN metric parts upon request
 CRT Envelope Gaskets
 Columns (to 72" dia)
 Vessels (to 6,500 gal.)

A BRIEF HISTORY OF THE MCAFEE AWARD

This May, we will be presenting the McAfee Award to another distinguished Chemical Engineer in the Pittsburgh area. Thanks to J. Finley Bush for providing this brief history of the award.

Purpose: To provide recognition to a local member of AIChE who defines the utmost in professionalism to the profession, personal life, and community, and to provide publicity and recognition to the local section in Pittsburgh and national AIChE through publication of the award in CEP and local newspapers.

- The spirit of the award requires the following three things:
 - Service to AIChE
 - Service to the Profession
 - Service to the Community
- Awardees are presented with a plaque and honorarium.
- The event is held every two years, and it is a gala affair with keynote speaker and personal comments made by co-workers, associates, and members of the community;
- *This Award is not to be taken lightly.* It provides a forum for the local section to publicize the work of notable members and the profession to the public.
- To insure the local section receives recognition at both the local and national level, public relations work with local newspapers and CEP is a necessary action.

SOME VALENTINE'S DAY "FOOD FOR THOUGHT"

- Seven billion pounds of chocolate and candy are manufactured each year in the United States.
- Chocolate manufacturers currently use 40 percent of the world's almonds and 20 percent of the world's peanuts.
- The melting point of cocoa butter is just below the human body temperature, which is why it literally melts in your mouth.
- Americans over 18 years of age consume 65 percent of the candy that's produced each year.

For more fun facts, see: <http://www.CandyUSA.org/>



LETTER FROM OUR NATIONAL AIChE PRESIDENT

Dear Member,

It is a great honor and a privilege to serve the Institute as your president for 2005. Last year the Board of Directors, the Operating Councils, the staff, and countless volunteer members worked extremely hard to implement the "Essential AIChE." Here is a quick snapshot of some of the progress that has been made:

Finance – The Institute finished 2004 with revenues slightly exceeding expenses for the first time in seven years. Also, for the first time in as many years, no withdrawals were required from our permanent fund.

Operations – Our overall budget and especially our overhead costs have been dramatically reduced. The sublease of three-quarters of our office space will save us approximately \$1.4 million every year going forward.

Outsourcing – In 2004, partnerships were implemented with ASME to provide educational services and with John Wiley & Sons to provide production services for our technical publications. These partnerships are economically advantageous to the Institute and at the same time extend our reach to a broader audience.

Technical Leadership – In 2004, all three of our new technical communities, the Society for Biological Engineering, the Institute for Sustainability, and the Nanoscale Science and Engineering Forum launched successful conferences and symposia. The Ammonia Safety Conference and the Annual Meeting attracted near-record numbers of participants.

Communications – In the past year, we have worked harder to share more Institute and professional news with you and the public. We gained exposure in local and national media markets, including National Public Radio, the History Channel, and the Sunday New York Times.

These have been challenging times. The Essential AIChE has focused on the core services and benefits you told us are essential to your career and to your profession. Maintaining this focus and a viable Institute has required some radical redesign of our operations and dedicated hard work by both volunteers and the staff. The changes that have been implemented are intended to be both permanent and sustainable.

I am gratified by the response of so many who have volunteered to step up and assume new leadership roles. We welcome such volunteer effort, but we also recognize that to be effective, volunteers need staff support. The Board is working hard to implement the most efficient balance.

In the coming year, we will continue to explore alliances with other organizations to continue to enhance our global presence, provide additional revenue and add benefits to our members. A programmatic alliance with ACS is underway, and some of our local sections, and sustainability and biotechnology groups are already working together to help us realize our vision.

We will also begin work this year on some much needed improvements and enhancements to the AIChE Web site, www.aiche.org. New technologies will allow for better access to data, improved e-commerce, a more powerful and intuitive internal search capability and integration with local section, division, and committee Web sites.

Finally, in 2005 the Board will work especially on the issues of membership attraction and retention and local section revitalization. They will examine issues important to student members, young professionals, members involved in emerging areas and in more traditional areas of chemical engineering.

Personally, I am very excited about 2005. I look forward to working with all of you to build AIChE into an even stronger society, essential to all chemical engineers and to the organizations in which they serve.

Sincerely yours,

Jeffrey J. Siirola
AIChE President

PS: If you have comments or suggestions for membership growth, our new Web site, or any other aspect of the Institute, I'd love to hear from you at president@aiche.org.

NEWSLETTER DEADLINE

THE DEADLINE FOR THE MARCH 2005 NEWSLETTER IS
TUESDAY, FEBRUARY 15, 2004.

Please submit information to:

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

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



JUST IN TIME FOR PRESIDENTS' DAY...

Which US president got arrested while still in office for running over an old lady with his horse? Franklin Pierce.

Which president could write Latin with one hand, and Greek with the other, *simultaneously*? James Garfield.

President Washington was the wealthiest man in American at the time of his election as President, but he had to borrow money to attend his inauguration. His enormous wealth was attributed the vast property that he owned which produced almost no cash flow.

John Tyler, who was President from 1841 to 1845, joined the Confederacy twenty years later and became the only President named a sworn enemy of the United States.

"Is It the Fourth?"

Thomas Jefferson and John Adams spent years writing letters back and forth to each other debating the role of government. Jefferson favored a small Federal government with relatively limited powers; Adams demanded a stronger, more centralized Federal government. They had an enormous amount of respect for each other and died coincidentally on the same day: July 4, 1826. Jefferson's last words were: "Is it the Fourth?"

Were They Aiming for Robert?

Robert Todd Lincoln, son of Abe Lincoln, was present at the assassinations of three Presidents: his father's, President Garfield's and President McKinley's. After the last shooting, he refused to attend any State affairs. He would not have been present at any of these events if it hadn't been for the brother of John Wilkes Booth, who saved his life years earlier.

For more Presidential facts, secrets, and trivia stumpers, check out:

www.civil-liberties.com/factoids/july4_02.htm

DID YOU KNOW...

In conjunction with National Engineers' Week later this month, February 24th is "Introduce a Girl to Engineering Day".

For more information, check out the website at:

<http://www.eweek.org/site/News/Eweek/girlsday.shtml>

NATIONAL ENGINEERS WEEK
FEBRUARY 18-19, 2005

For Information 412.237.3400
www.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 18-19, 2005

One of the four Carnegie Museums of Pittsburgh

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
 or 412-777-4195 for more information.



AICHE PITTSBURGH SECTION 2004-2005 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@adelphia.net)
ANSYS, Inc.
724-514-3046

Counselors

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

Dr. Douglas Price (dmprice@cc.yzu.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)
Bayer Material Science, LLC
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
412-276-2228

Committee Chairs

Safety & Environmental: Shiao Tseng
PE Review: Carl Schwartz

Web Master

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

2005 Monthly Meeting Schedule

Date	Topic	Location
January 19, 2005	Joint Meeting with AWMA	Penn Brewery
February 10, 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:

Feb 10, 2005

Monthly Meeting

Annual Student Night

Feb 18-19, 2005

Outreach Event

National Engineers' 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

PROUD TO BE AN AMERICAN!
