

# AICHE-PITTSBURGH THE CATALYST

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## HAPPY HOLIDAYS FROM AICHE-PITTSBURGH



Chris, Paul, Mariangela, Gary and the rest of the AIChE leadership team wish you, your family and your friends a happy holiday season and the very best for 2009!



## CMU FACULTY HONORED BY AICHE

To help celebrate its 100th anniversary, the American Institute of Chemical Engineers (AIChE) has created a list of the "One Hundred Chemical Engineers of the Modern Era." And two Carnegie Mellon professors have made the list. They are Professor Ignacio Grossmann and Emeritus Professor Herbert Toor.

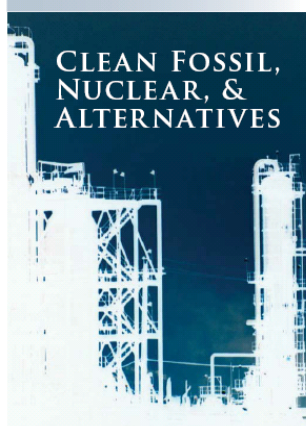
Ignacio was recognized for mixed integer nonlinear programming, model formulation, and solutions for process design and operation. Herb was honored for seminal reactive multicomponent mixing research. The "Toor Test" is the industry standard for assessing relative mixing and reaction rates. (from: <http://www.cmu.edu/news/blog/2008/Fall/elite-engineers.shtml>)

Ignacio Grossman (l)  
Herb Toor (r)



**Congratulations!**

## THE FUTURE OF ENERGY SYMPOSIUM



Summary of our November Meeting by Paul Brezovec and Joe Jolson

See the November CATALYST for photos

The roots of the domestic coal, oil, and nuclear industries are in our region. We have national energy technology laboratory campuses in Pittsburgh, PA and Morgantown, WV. Several large energy companies are headquartered here. We are also home to medium-sized and early stage energy technology companies.

Because our region remains active in the energy arena, it seems fitting that the Future of Energy Symposium was held at Duquesne University on November 12, 2008. This all day event was attended by over 80 regional scientists and engineers. At the symposium's opening, Dr. Jeffry Madura, chair of the Duquesne University Chemistry Department; Dr. Fu-Tyan Lin, Chair of the American Chemical Society Pittsburgh Section; and Mr. Christopher Steffy, chair of the American Institute of Chemical Engineers Pittsburgh Section described how their organizations are involved in the Future of Energy.

The symposium's main speakers included Dr. Dale Keairns, Mr. Thomas Hart, Dr. Charles Taylor, Dr. George Davis, Mr. Marc Portnoff, Dr. Jean Posbic, Dr. Edward Rubin and Dr. George Klinzing. During the morning session, Dr. Keairns provided an overview of energy opportunities, risks and tradeoffs; Mr. Hart described the control of emissions from coal fired power plants; and Dr. Taylor talked about domestic energy use.

During the afternoon session, Dr. Davis presented an update on the nuclear option, Mr. Portnoff described next-generation biofuel opportunities, and Dr. Posbic talked about photo-voltaic power generation. Then, Dr. Rubin described the future of coal and during the round table discussion the speakers tackled challenging questions from the audience. Dr. Klinzing concluded the symposium with a realistic and sobering assessment of our energy options.

The symposium organizing committee included Paul Brezovec, Gary Hall, Joseph Jolson, Alfred Mann, Christina Mastromatteo, James Miller, Thomas Ruppel, Christopher Steffy, and Mordecai Treblow. Financial support was provided by American Electric Power, BP Solar, Concurrent Technologies, Sauereisen, and Westinghouse Electric Company.

Please sign me up for the Pittsburgh  
Section of AIChE

Name \_\_\_\_\_

Company \_\_\_\_\_

Address \_\_\_\_\_

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

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

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

Email \_\_\_\_\_

Local Section dues are \$20/year. Contact Gary Hall: [gary.hall@sauereisen.com](mailto:gary.hall@sauereisen.com)



## JOB FAIR NEEDS YOUR HELP!!

Our chapter is co-sponsoring a Job Fair For Chemical Professionals on Saturday Feb. 7, 2009. The Job Fair will be held at Pitt in Chevron Hall. Part of our participation is to review resumes for the registrants. In the last two years I have had to review more than 15 resumes each year, which is about 10 more than I should be trying to review. Therefore I need two volunteers to help review resumes and make suggestions for improvement. We will train you during the presentations on what a resume should and should not include. If we get two volunteers the time involved will be about 2 hours. Please contact Gary Hall if interested at 412-963-0303, ext. 236 or [Gary.Hall@Sauereisen.com](mailto:Gary.Hall@Sauereisen.com)

## UPCOMING EVENTS-MARK YOUR CALENDAR!

January 15: Joint meeting with AWMA, Penn Brewery (see page 3)

January/February: Future Cities and Engineering Week--Outreach with Grade School and High School Students

February 6: Job Searching for Chemical Technicians Workshop (see page 4)

February 7: Job Searching for Chemical Professionals Workshop (see page 5)

February 17: Student's Night at the William Pitt Student Union

March 11: Nova Chemical plant tour

April: TBD

May: McAfee Award Night

June: Student Scholarship award announcement

## EPA's CHEMICAL ASSESSMENT and MANAGEMENT PROGRAM (ChAMP)

**January Meeting  
Announcement!**

Oscar Hernandez, Ph. D., Director  
Risk Assessment Division

EPA Office of Pollution Prevention and Toxics

Dinner Meeting and Social  
Presented by

Air & Waste Management Association, Allegheny Mountain Section  
American Institute of Chemical Engineers, Pittsburgh Section

Penn Brewery, 800 Vinial Street, Pittsburgh, PA 15212

Thursday, January 15, 2009, 4:00 - 8:00 p.m.

This presentation will provide information on EPA's new Chemical Assessment and Management Program (ChAMP). Under ChAMP, EPA is fulfilling U.S. commitments made under the Security and Prosperity Partnership of North America (SPP). The SPP leaders' summit in August 2007 called for cooperation on chemicals and outlined commitments on behalf of the United States, Canada, and Mexico to work together to ensure the safe manufacture and use of industrial chemicals. Each country is sharing scientific information and approaches to chemical testing and risk management. To fulfill its part of the SPP commitment, the US will, by 2012, complete screening-level hazard and risk characterizations and initiate action, as appropriate, on more than 6,750\* chemicals produced above 25,000 pounds per year. The US commitment to complete assessments and initiate needed action on these chemicals will apply the results of EPA's work on High-Production Volume (HPV) chemicals - those chemicals produced or imported in the United States in quantities of 1 million pounds or more per year - and extend its efforts to moderate production volume (MPV) chemicals - those produced or imported in quantities above 25,000 and less than 1 million pounds per year.

## AGENDA

4:00 Registration

4:30 Welcome & Program Introduction - A&WMA AMS Program Committee

4:45 EPA's ChAMP program - Oscar Hernandez, Ph. D.

5:30 Tour of Penn Brewery - Brewmaster Tom Pastorius will provide a tour of the Penn Brewery.

5:45 Dinner and Social - Technical and social conversation amidst a dinner of German specialties.

8:00 Adjournment

Can't make it? Pass this flyer on to someone else who can!

----- Registration Form -----

**SPACE IS LIMITED - PLEASE REGISTER BY JANUARY 9, 2009**

**1. Please circle and enclose applicable fee.**

Member of A&WMA/AICHE	\$40
Non-Members	\$48
Students	\$29

**2. Registration Information:**

Name: \_\_\_\_\_ Title: \_\_\_\_\_

Company: \_\_\_\_\_

Address: \_\_\_\_\_ City: \_\_\_\_\_ State: \_\_\_\_\_ ZIP: \_\_\_\_\_

Phone: ( \_\_\_\_ ) \_\_\_\_\_ Fax: ( \_\_\_\_ ) \_\_\_\_\_ Email: \_\_\_\_\_

*Proceeds will benefit local A&WMA and AICHE scholarship and education programs. Please return this form with check payable to A&WMA to Ed Moretti, Moretti Consulting Group, 314 East Main Street, Carnegie, PA 15106. You may also register instantly by fax at 412/276-2233 or via e-mail at [emoretti@moretticonsulting.com](mailto:emoretti@moretticonsulting.com) and send check separately prior to event.*



## JOB SEARCHING FOR CHEMICAL TECHNICIANS

*Presented by*

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

**Friday, February 6, 2009**

**Pre-Registration Required**

**HARBOR GARDENS, STUDENT SERVICES AREA CONFERENCE ROOMS**

Bidwell Training Center, 1650 Metropolitan Street, Pittsburgh, PA 15233

412-323-4000

**FREE ON STREET PARKING IS AVAILABLE**

### PROGRAM

8:30 A.M.	Registration
9:00 A.M.	<b>MANAGING AN EFFECTIVE JOB SEARCH</b>  Daniel J. Eustace, Ph. D. Career Consultant, American Chemical Society
11:30 A.M.	<b>OVERVIEW OF THE LOCAL JOB MARKET</b>  Joseph D. Jolson, Ph. D. Career Consultant, American Chemical Society
12:00 Noon	<b>CLOSE</b>

#### **Pre-Registration**

Job Searching for Chemical Technicians Workshop

Send an email to Iesha Griffin (412-323-4000 Ext. 165)

at:

[igriffin@mcbg-btc.org](mailto:igriffin@mcbg-btc.org)

**Your pre-registration must be received by Tuesday, February 3, 2009 and include your full name and complete contact information including address, phone number and email address.**



## JOB SEARCHING FOR CHEMICAL PROFESSIONALS

*Presented by*

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

**Saturday, February 7, 2009**

**ASHE AUDITORIUM UNIVERSITY OF PITTSBURGH**  
 219 Parkman Ave. (off Bigelow Blvd.)

**Lunch and Parking at Soldiers and Sailors Parking Garage Provided**

**Pre-Registration Required**

### PROGRAM

8:30 A.M.	Registration
9:00 A.M.	Welcome and Introduction
9:30 A.M.	<b>MANAGING AN EFFECTIVE JOB SEARCH</b> Daniel J. Eustace, Ph.D. Career Consultant, American Chemical Society
12:10 P.M.	<b>OVERVIEW OF THE LOCAL JOB MARKET</b> Joseph D. Jolson, Ph. D Career Consultant, American Chemical Society
12:30 P.M.	Networking Lunch
1:00 P.M.	Resume Review, Personal Consultation, and Local Job Opportunities
4:00 P.M.	Close

**Bring your parking ticket for validation and your resume for review.**

**To Pre-register for** Job Searching for Chemical Professionals Workshop, send an email to Professor Toby Chapman at: [tchapman@pitt.edu](mailto:tchapman@pitt.edu)

**Your pre-registration must be received by Tuesday, February 3, 2009** and include your full name and complete contact information including address, phone number, email address and whether or not you expect to participate in the resume review. Academic registrants - please include university affiliation and university department. Let us know when you expect to complete your B.S., M.S., Ph.D., post-doc, or other assignment.

# DECEMBER LETTER

Dear Local Section Members,

It was great to see many of you at our December 8 Meeting, a symposium celebrating the centennial of the AIChE National meeting—which first took place at the Carnegie Technical Schools (present-day Carnegie Mellon University) in December, 1908. Speakers led attendees in an examination of the history of AIChE and the chemical industry and articulated the challenges that ChemEs will address in the twenty-first century. A special session explored intergenerational dynamics and provided a foundation for discussion of ways for professional organizations, like AIChE, to meet the needs of all generations of engineers. Our New Year’s resolution is implement some of the ideas to make AIChE-Pittsburgh more relevant in your professional lives.

On display at the meeting was the membership certificate of the first President of AIChE, Samuel Sadtler (see below)

Many Thanks to AIChE president and LS member Dale Keairns for leading the effort to put together an outstanding program! And special thanks to the academic and corporate sponsors of the meeting!

Jim

## Corporate and Academic Sponsors: AIChE-Pittsburgh Centennial Celebration

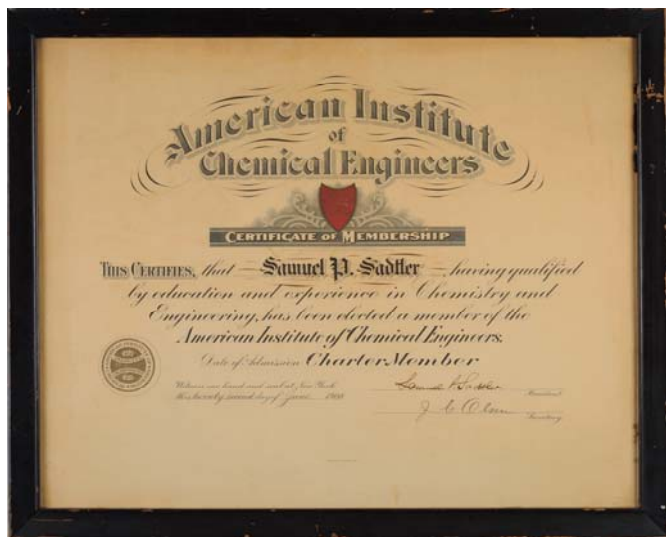
### Gold:



### Silver:



University of Pittsburgh Chemical Engineering



## AIChE-Pittsburgh Executive Committee 2008-2009

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Open

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Open

### Newsletter Editor

Open

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