

### AIChE DVS Presentation and Tour November 9th, 2004 Chemical Heritage Foundation

**P**lease join your fellow AIChE-DVS members for a special event at the Chemical Heritage Foundation. The Foundation has generously opened their doors for an exclusive tour and presentation. The Chemical Heritage Foundation (CHF) serves the community of the chemical and molecular sciences, and the wider public, by treasuring the past, educating the present, and inspiring the future. Join us to learn more about their programs, museum collection, and mission. Visit [www.chemheritage.org](http://www.chemheritage.org) for an overview.

Chemical Heritage Foundation at 315 Chestnut Street in Philadelphia. The Foundation is located on Chestnut between 3rd and 4th streets across from Independence Park. Due to the limited availability of parking at CHF, please use the Bourse Garage located on 4th Street between Market and Chestnut Streets. CHF flat rate for the Bourse Garage is \$6 via parking validation at the Foundation.



*CHF origins are traced to a group of scientists and industrialists in 1980 who founded a national history center devoted to the chemical and molecular sciences and industries.*

**Meeting Date:**  
November 9th, 2004

**Location:**  
Chemical Heritage Foundation  
315 Chestnut Street in Philadelphia

**Time:**  
6pm - 8pm

**Price:**  
\$20 for Tour and Presentation with Hors D'oeuvres and Wine.

Please join us after the event at one of the excellent restaurants nearby.

**RSVP:** Register online at [www.aiche-philadelphia.org/events/events.html](http://www.aiche-philadelphia.org/events/events.html) or contact Steven Wood at one of the following:  
(609) 243-7908  
[steven\\_wood@ml.com](mailto:steven_wood@ml.com).

### Chemical Engineer Helps Students Understand Chemical Process Safety

By David Salas

**A**n established chemical engineer, Peter J. Joyce, feels that engineering companies, large and small, have an obligation to help students develop by exposing them to real world technical problems and issues. Our Philadelphia Chemical Engineering community feels the same way and, we will soon present an educational conference aimed at students and professional for Chemical Process Safety. The date is Thursday Dec 2nd from 11:20 am to 8:45pm at Widener University. Peter J. Joyce, one of the extraordinary speakers scheduled, will conduct the student workshop on HAZOP. Drawing on his over 24 plus years of experience, Peter will talk about how companies, such as Value Recover, Inc., identify, evaluate and mitigate safety hazards and technical problems.



Peter received a B.S. in Chemical Engineering from Northeastern University, an M.S. in Chemical Engineering from the University of California at Berkeley, and an MBA from Columbia University. Currently, Peter is the President of Value Recovery, Inc. a chemical research company focused on finding ways of using Phase Transfer Catalysis (PTC), recovering byproducts and

*(Continued on page 2)*

## CHEMICAL CONSULTANTS NETWORK

**November 10, 2004, Meeting**

Visit our web page at

[www.chemconsultants.org](http://www.chemconsultants.org)

### Date & Time:

Wednesday, November 10, 2004 at the Cynwyd Club, Bala Cynwyd, PA; Mixer, 5:30 PM; Dinner, 6:30 PM; Talk and Business Session, 7:30 PM.

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Jean Parr, Program Director, ACS  
Member Insurance Program

This presentation will describe a variety of flexible, affordable insurance plans and other non-technical ACS benefits, and will spotlight the Professional Liability Plan.

ACS staff will also describe a broad range of ACS member benefits and insurance plans—such as Term Life, Disability Income, Hospital Indemnity, Accidental Death & Dismemberment, Auto & Homeowners, Supplemental Health, and Supplemental Retirement plans.

### Reservation:

To make or cancel a dinner reservation, e-mail [CCNReservations@aol.com](mailto:CCNReservations@aol.com) or call the ACS office at 215-382-1589 (leave message on voice-mail if necessary). Fee, including food and beverages, is \$25 provided reservations are made before 6 PM Friday, November 5<sup>th</sup>. No-shows will be invoiced. No reservation is required for talk only; however, we ask that you please register so that we can notify you of any change in plans.

## Chemical Engineer Helps Students

*(Continued from page 1)*

eliminating the effects of reactive hazardous waste. In just under 5 years, he has raised over \$1.9 million in state and federal research funds to develop the technology and has used some of these awards to build a custom wet laboratory in Southern New Jersey.

Peter is an experienced engineering manager. He worked for Johnson Matthey for 7 years and Hercules for 11 years. He has installed or managed the installation of over 200 capital projects in the \$100K to \$1 million range. His expertise is in the installation of new technology in manufacturing plants and he has completed numerous projects such as batch process conversion to a continuous process, process instrumentation and control, flavor and fragrance fine distillations and extractions, and in the recovery and purification of precious metals. For Johnson Matthey he was responsible for a complete overhaul of their precious metal refinery and wastewater treatment plant which contributed to that plant's ROI increasing from 0 to 50% through the mid 90's.

Value Recovery has been recently informed by the US Patent Office of the acceptance of their broad based patent in the use of Phase Transfer Catalysts and several others prospective patents are in the pipeline. The company has also done significant research on the removal of methyl bromide and other alkyl halides from vent gas streams and is working with the fumigation industry on using this technology to protect the ozone layer. In addition, Peter has also done projects with students from Widener University, Rowan University and Iowa State University.

For more information about our conference and booking reservation check-out our conference website <http://quantum.soe.widener.edu:281/ps1.htm>

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**Joint meeting of the  
AIChE-Delaware Valley/Philadelphia  
Section and the  
Department of Chemical Engineering  
Widener University**

**Date:** December 2, 2004  
**Time:** 11:30 AM – 9:00 PM

**Location:** University Center &  
Academic Center North Main Campus  
Widener University Chester, PA

**Program & List of Speakers**

1. 11:30 AM Registration, University Center Atrium
2. Complimentary Lunch, Cafeteria, University Center
3. Student Workshop – Hazop, University Center. [**Peter Joyce**, President, Phase Transfer Catalysis and Product Recovery]
4. Welcome and Review of the Afternoon Agenda [**Prof. G. J. Maffia**, Chairman, Department of Chemical Engineering]
5. Welcome from the University Administration [**Dr. Jo Allen**, Senior Vice President and Provost]
6. Historical Perspective  
  
*What happened at Bhopal?  
How did the Chemical Industry and Federal Government react?*  
  
*The debut of Process Safety Management as a regulatory engineering work practice.*  
  
[**Mike Hazzan**, Accutech Risk Management]
7. Process Safety Management  
  
*PSM is the Response to Bhopal –  
What is Process Safety Management?*

**Process Safety Conference**

On the eve of the 20<sup>th</sup> anniversary of the tragedy in Bhopal, India



[**Louis Henderson**, Engineering Manager (PQ Corp.) and Adjunct Professor, Department of Chemical Engineering, Widener University]

8. Growing up in India After Bhopal

*A Young Person's Perspective About Growing Up in India and Becoming a Chemical Engineer*

[**Ms. Sharmila Rao**, Graduate Student, Department of Chemical Engineering, Widener University]

9. Coffee Break

10. Ethical Responsibility

*Implications for the Chem Eng Curriculum*

[**Prof. Gennaro Maffia**, Chairman, Department of Chemical Engineering, Widener University]

11. Philosophical Perspective

[**Prof. David Ward**, Philosophy, Widener University]

12. Chemical Eng. Design Part 1

*Simulating Safe Designs*

[**Joseph McMullen**, Simulation Sciences]

13. Chemical Eng. Design Part 2

*Chemical Accident Prevention Plan*

[**Alfred Baginski**, Environmental Protection Agency]

14. Chemical Eng. Design Part 3

*Inherently Safer Design*

[**Gregory Keesport**, Rohm & Haas, representing AIChE's CCPS, Center for Chemical Process Safety]

15. Community Interaction with the Chemical Industry

*Can Bhopal happen here? Are we safe? Has the engineering community answered all the community questions satisfactorily?*

[**PA State Rep. Thaddeus Kirkland** and **PA State Rep. Thomas Gannon**]

16. Responsible Care – Management of Change

*American Chemical Council – Owners of Responsible Care*

[**Dorothy Kellogg**, American Chemical Council]

17. Afternoon Wrap-up

18. Student Poster Contest Judging and Viewing, University Center Atrium

19. 5:30 PM Social Hour with Cash Bar, Late Registration, Heintz Dining Room

20. Announcement of Poster Winners, ACN Amphitheater

21. Musical Composition

**John Vanore** & the Widener Band, ACN Amphitheater

22. 6:45 PM Dinner, Heintz Dining Room

23. Summary of the Day. Introduction of Speaker

24. Keynote Address: DVS AIChE CEO Lecture Series

*Chemical Company Management Perspective on Chemical Process Safety*

[**James Porter**, Vice President, Engineering and EH&S DuPont Company]

## Professional Development - By Mark DeLuca

**N**one of the job seekers found jobs this month. Two people joined the list bringing the total number to twenty-seven.

Ajit Ghorpades, the Delaware Valley Section Chairman, suggested we do situation wanted ads. Nine out of twenty-seven responded and sent in a 25 word ad. Scanning the ads you will see that everyone has at least a BS degree in Chemical Engineering. There are PhDs, PEs and MBAs here. These are bright people who work hard, take their career seriously, and have held important positions. Globalization, mergers, and changing markets have put them back on the job market. In my case, I do contract work and have just completed a project.

The Eighteen people that did not send in their ad concern me. Some are living in the past when being a Chemical Engineer meant that you were actively recruited by competing firms and you stayed at one company until the temptation of a higher offer stole you away to the next. Those days are gone. Today, companies have a global workforce to draw from. Besides being good at engineering, self-marketing has to be one of the skills necessary to be a Chemical Engineer.

Some consider self-marketing to be tacky, not something an engineer should do. I contend marketing yourself need not be some shallow activity like a fast talking salesman in a plaid suit. For engineers, marketing means knowing who would benefit by what you do and letting those people know you can do it. Three thousand peers get this newsletter. A situation wanted ad lets them know what you have to offer. Another way engineers can market themselves is to write articles for trade publications. The people that are have a need for what you know are the ones that are interested enough to read the article. The reader gets some tips that may help them solve a problem they are

working on, and they also find out you exist and are available to help them further. It is win-win for everyone concerned.

Let's see what success comes from the situation wanted ads. As Director of Professional Development, my goal is to have every section member working with the skills they need to offer great value to their employers. Keep me apprized of your professional development needs.

Until Next Month . . .

Process Engineer & Technologist , process optimization, thermodynamics, simulation ASPEN PLUS, separation , kinetics, specialty chemicals, API, basic chemicals, surfactants. Gilbert Bittman 609-750-0925

P.E. seeks env. position. Exp in haz. & solid waste mgmt, toxicity evaluations, remedial & Superfund project mgmt, Phase I/II investigations, & property condition surveys. Call A. Kaufman 610.527.8634.

Recently graduated Ph.D. Chemical Engineer seeking process or product development position. Experienced with pilot plant operation, process modeling, optimization. More info at home.att.net/~t.j.english or (717)442-8270.

Process engineer with design/development project experience in biotech/ pharmaceutical, chemical, and petroleum industries seeks process, pilot plant, or consulting position. Call John Barry, [856] 468-3493.

PE with 20 years in process equipment and chemical manufacturing, now a high school chemistry teacher, seeks summer position. Experience in plastics, printing, ceramics, metals, and safety training. Martin Applebaum 267-808-5994.

Executive with extensive experience in change management, general management, operations, supply chain, production, scheduling, quality assurance, distribution, transportation, safety, chemical engineering, labor, and capital planning. Looking for leadership position."- Larry Whited [weissed@comcast.net]

Process Engineer for FDA regulated industry seeking local validation, process, or pilot plant engineering projects. Experienced in validation, startup, and troubleshooting - Call Mark DeLuca 215-752-1619.

MES design, implementation, and testing professional seeking contract work in the Pharmaceutical industry. Experienced in MES (Honeywell POMS), RDMS, and validation - Call John Scheiter 352-742-1256.

Senior Engineer for Pharmaceutical, BioTech, Chemical industry seeking local validation, equipment, process, or pilot plant engineering position. Experienced in validation, startup, system upgrades, troubleshooting. Call Michael Kent 610-220-5613.

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## Special Event

Join us on January 19, 2005 to hear Andy Signore, PE, who is President and Co-founder of IPS, an Engineering firm providing Consulting, Engineering, Construction Management, Design-Build, Validation, Compliance, Commissioning, and other services. Andy will present his views on the emerging call for "Affordable Innovation" in the pharmaceutical and healthcare markets and how project professionals can help to achieve it through new processes and facilities.

Mr. Signore is a Chemical Engineer, MBA, PE and a dynamic speaker. He is a past national president of ISPE and several other organizations. He founded IPS in 1989 and has grown it to an enterprise employing over 300 professionals.

The dinner meeting is at the Union League of Philadelphia, which is an interesting place to visit on its own.

Cost is only \$50 and guests are welcome. Registration can be made on our website, [www.aiche-philadelphia.org](http://www.aiche-philadelphia.org). Please mark your calendars for the date, as further details will be announced in future newsletters.

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### AIChE Newsletter Delaware Valley Section

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Mail address corrections to Data Base Manager at above address .

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