

### DECEMBER 12, 2007 Meeting Joint Meeting with the Joseph Priestley Society at the Chemical Heritage Foundation

All AICHE members are invited to attend the December Joseph Priestly Society Meeting. The Speaker is Andrew Signore, President/CEO of IPS.

The talk covers: "Navigating Turbulent Waters in the Pharmaceutical Industry: Opportunities for Owners, Service Providers, and Professional Careers."

The meeting will begin at 10:30 a.m. with a Chemical Consultants Networking Event and Reception, followed by lunch at 12:15 p.m. Signore will take the podium at 1:00 p.m.

Andrew Signore is cofounder and CEO of Integrated Project Services (IPS). He has held engineering positions at SmithKline (now GlaxoSmithKline), Pfizer, and Merck. Signore earned his BSChE from Manhattan College and a MBA from Pace University. He is a registered professional engineer in Pennsylvania, New York, Ohio, New Jersey, Delaware and North Carolina. Signore was inaugural president of Design Build Institute of America's Delaware Valley Chapter and is a charter holder of a DBIA designation. Signore is also past president of the New Jersey Chapter of Project Management Institute (PMI). In addition, Signore is past national chairman of the International Society for Pharmaceutical Engineering (ISPE), past president of ISPE Delaware Valley Chapter, and a frequent course leader. Signore has earned Certified Pharmaceutical Industry Professional (CPIP) status from ISPE and has received ISPE's Distinguished Achievement Award for his many professional contributions to the Society.



*The Chemical Heritage Foundation is dedicated to preserving and promoting the progress of science.*

**Meeting Date:** Wed., Dec. 12th, starting at 10:30 a.m.

**Location:** The Chemical Heritage Foundation, 315 Chestnut Street, Philadelphia, PA 19106-2702.

**RSVP :** There is no charge for this meeting. Reduced-rate parking is available at the Bourse garage on 4th Street between Market and Chestnut and at the Ritz garage on 2nd Street between Chestnut and Walnut. Pick up a parking voucher at the CHF registration desk.

**Registration Required: Deadline -** Monday, 10 December 2007, Noon. To RSVP, send an e-mail to [eventregistrations@chemheritage.org](mailto:eventregistrations@chemheritage.org) or log onto [www.chemheritage.org](http://www.chemheritage.org) and click "Events & Activities," or call 215-873-8208; or contact Bob Kenworthy, Affiliate Consultant, 215-873-8292, Fax: 215-629-5392. [bkenworthy@chemheritage.org](mailto:bkenworthy@chemheritage.org)

### DVS AICHE 2008 CEO Lecture Series

Save January 22, 2008 for our 11<sup>th</sup> Annual CEO Lecture at the Union League of Philadelphia.

This year our speaker is Dr. Dianne Dorland, Dean of Engineering at Rowan University.

Dr. Dorland is a PhD Chemical Engineer, a licensed Professional Engineer, is Past President of the AICHE and was recently elected the Delaware Valley Engineer of the Year.

Her industrial experience includes working at DuPont, Union Carbide and METC. Her work included multi component liquid/vapor equilibrium, nylon intermediates, quality control, scale up, and monitoring of NPDES.

She has won numerous awards and recognition on national levels. She is recognized for her work on mercury abatement and with the Department of Energy where her specialty was in-situ coal gasification.

Most recently, she was selected as the 2008 ConocoPhillips Lecturer.

Dr. Dorland is an inspiration and role model for young engineering students and you will want to attend this meeting.

## Tech Tips

Install a new filter, reactor or temperature control module in an existing plant. Sounds easy enough doesn't it? Prepare some P&IDs, prepare an equipment arrangement drawing and some piping plans and elevations. Throw in a few electrical single lines, elementary wiring diagrams and instrument loop sheets and your ready to go. Can it really be this easy? Well, in my experience it is not. In most projects there are a multitude of tiny and what may seem insignificant details that someone needs to work out. But, what are these details? Who should work them out? And when do they need to be finalized?

The discharge valve on an existing reactor needs to be operated by the control system of a new filter you are installing? This valve is already being controlled by another control system not connected to the filter's control system? Who has responsibility for designing the interfaces and interactions required to get this valve to operate with two control systems. Can you add a note to an instrument location plan telling the contractor to pick up the interconnecting wiring and leave it at that or is something more meaty required? What is the likelihood that it will work as you desire if this is the extent of design effort you implement as the customer or design engineer? It is my experience that a thorough evaluation and understanding of the user requirements needs to be developed and a design solution created by the customer and/or design engineer or the discharge valve will not operate as desired or required. Defining the control of one such valve is usually only the tip of the iceberg when it comes to minute project implementation issues that must be uncovered and appropriately resolved. For example, how will the filter stack be removed from the filter? How will the bottom cone of the filter be safely removed to allow removal of the filter stack? How much height is required to adequately operate and maintain the filter? What fluid velocity is required to ensure that solids will not settle out upon entering the filter?

Each process system will have various key operating, control, quality and maintenance criteria that will dictate the relative success of the system. The prudent design team will seek to identify all of the relevant criteria for success and address them during the preliminary or detailed design stages of a project so that they are incorporated in the construction effort and thus the future success of the process system will be ensured.

It is one thing to let the experts design a specialized package such as a water pre-treatment skid or a vacuum pump skid but when it comes to process systems within an operating plant it is my contention that the plant customer(s) needs to drive the design. The plant customer(s) need to be not only involved in developing the minutest details of a project, they also need to consider and document such details early on in the project. If these details are not defined and resolved early in the project then you may end up trying to start-up a filter with an inoperable valve and this won't make anyone happy.



**CHEMICAL ENGINEERING**  
Evening Master's Degree Program  
**Spring 2008 course offerings in  
Chemical Engineering**

**BioPharmaceutical Design and Development**

**Monday, 6:30 – 9 PM**

**Charles A. Clerecuzio, VP BioPharmaceuticals Industrial & Infrastructure, AMEC**

**Engineering Quality Control**

**Tuesday 6:30 – 9 PM**

**Z. O. Gephardt, Rowan University Professor**

<http://www.rowan.edu/graduateschool/> - information on the graduate school

<http://engineering.rowan.edu> – more information on Rowan Chemical Engineering

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**2007 – 2008 AIChE- DVS Event Schedule**

January: CEO dinner  
 February: Winery Tour/TBA  
 March: Pharma Tour/TBA  
 April: Student Awards  
 May: Plant Tour/TBA  
 June: Second Annual Golf Outing

**CHEMICAL CONSULTANTS NETWORK**

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

**January 9, 2008 Meeting**

Visit our web page at  
[www.chemconsultants.org](http://www.chemconsultants.org)

**Date & Time:** Wednesday, January 9 at the Cynwyd Club, Bala Cynwyd, PA; Networking, 5:30 PM; Dinner, 6:30 PM; Talk and Business Session, 7:30 PM

**Speaker Topic:**

**The Chemical Consultant & The IRS:  
 Be Careful Outside Your Element!  
 James H. Kennedy, CPA**

Mr. Kennedy will discuss tips on where and how to focus for deductions, effective use of applicable retirement planning, how to limit your risk of governmental audit, and how to increase the integrity of your return.

He is a co-founding partner of GreenbergKennedy, LLP, a CPA firm with New Jersey offices in Mt. Laurel.

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 voicemail if necessary). Fee, including food and beverages (wine, beer & sodas), is \$35. Early Bird discount price is \$25 if reserved by Thursday January 3. Late reservations and walk-ins subject to availability. No-shows will be invoiced. Please advise of any special food requirements.

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<b>inside...</b>	<b>Dec. Meeting Info</b>	<b>page 1</b>	<b>Tech Tips</b>	<b>page 2</b>
	<b>CEO Lecture Series</b>	<b>page 1</b>	<b>Executive Officers List</b>	<b>page 3</b>