

### Oktoberfest!

Thursday, October 22, 2009  
**Victory Brewing Company**

**J**oin us on Thursday, October 22, at 5 PM, for our premier fall social event, Oktoberfest '09! In what is becoming an annual tradition, the Delaware Valley Section once again returns to Victory Brewing Company, manufacturer of highly acclaimed, award winning beer. Take this opportunity to network with members of the Wilmington Section, which joins us as a co-host of this year's event. This event continues to be highly popular... Don't delay; reserve your spot, now! Register at [www.aiche-philadelphia.org](http://www.aiche-philadelphia.org)

Based on positive feedback from past participants, this event features:

- The always fresh and entertaining tour of the brewing process
- Networking opportunities
- Socializing
- Casual, relaxed atmosphere
- Open buffet of tasty food

Insanely delicious beer

Victory is, first and foremost, a state-of-the-art brewing plant. It is unlike most trendy brew pubs and micro-breweries, whose very limited manufacturing capability is secondary to the restaurant and bar operation. Victory's brewery produced over 42,000 barrels of beer in 2008 (with a capacity nearly double that). Their highly desirable, award-winning beers are marketed in at least 23

*(Continued on page 6)*



*Victory is, first and foremost, a state-of-the-art brewing plant.*

**Date:** Thurs., October 22, at 5 PM  
 Starting with tour, followed by complimentary beer tasting, buffet, social (cash bar)  
 Space is limited... register early!  
 (Register before Mon., Oct 19)

**Cost:** \$30 per member of Delaware Valley or Wilmington Sections  
 \$35 per non-member or guest (all are welcome!)  
 \$15 per student or those between employment

**Participants MUST BE 21 or older.**

**Location:** Victory Brewing Company,  
 420 Acorn Lane,  
 Downingtown, PA 19335  
 610-873-0881 [www.victorybeer.com](http://www.victorybeer.com)

For questions, please contact Karl Saydlowski at  
[Saydlowski@computer.org](mailto:Saydlowski@computer.org)  
 or 484-341-1034.

Find additional information and register at "Events" link on [www.aiche-philadelphia.org](http://www.aiche-philadelphia.org)

### Chairman's Chat

Delivering Value to Our Members

By Karl Saydlowski

**W**elcome back! Your board has been busy at work, building on last year's successes (THANKS, Zenaida!), and striving to assemble another year of great programming. I think you will find the topics to be timely and appealing. We've just kicked-off the year with two student outreach events, resume and interviewing workshops at Penn and Villanova.

Thanks for being a member of your local section! Your \$15 annual commitment helps fund student awards, membership activities, networking opportunities, tours, meetings, and communications tools (such as this newsletter and our website, [www.aiche-philadelphia.org](http://www.aiche-philadelphia.org)). Local section membership entitles you to a discount on event registration fees.

If you are not a local section member, please consider specifying the Delaware Valley Local Section (LS-002) on your dues renewal form, or pay us directly through our website.

This year, we are focused on delivering value to our members and have adopted it as our primary theme. We kick off our membership events with two great networking opportunities. Join us on Oct. 22 for our Oktoberfest '09 social, which includes an entertaining tour of Victory Brewing Company. On Nov. 13th, we're offering a rare look at biotechnology

*(Continued on page 6)*

### USDA Biotech Tour and DVS Networking Social on Nov. 13th

**D**id you know that the U.S. Department of Agriculture has a cutting edge research center right here in suburban Philadelphia? Located in the Wyndmoor-Glenside area, the Eastern Regional Research Center is part of the USDA's Agricultural Research Service. The center was recognized in 2007 as a [National Historic Chemical Landmark](#) and was visited this summer by USDA Secretary Tom Vilsack.

Now, the AIChE Delaware Valley Section has been invited for a rare tour of this renowned research center on **Friday, November 13**. The scientists and engineers at the facility perform pioneering research in sustainable bio-energy, food safety, and health-promoting foods. We'll focus on their biotechnology research and will see the center's pilot plants and fermentation lab. Tour topics include: Supercritical CO<sub>2</sub> Pasteurization; Fast Pyrolysis of Biomass; Innovations in Dairy Research; Biodiesel from Natural Oil; and Fermentation.

After the tour, we'll meet up at Brittingham's Irish Pub & Restaurant in nearby Lafayette Hill for an AIChE-DVS happy-hour and networking social, including a buffet dinner. The tour starts at 3 p.m., followed by social and dinner. Even if you can't make the tour, why not join us after work for food, drink, and socializing?

The tour is limited to 25, so sign up now! Don't miss your chance to see an inside look at the research done by the USDA! There are no limits on who can attend the networking social/dinner.

#### Date: November 13, 2009

Tour: USDA Eastern Regional Research Center, 600 East Mermaid Lane, Wyndmoor, PA 19038 <http://www.ars.usda.gov/naa/errc>

Time: 3:00 p.m.

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### Advertise with DVS

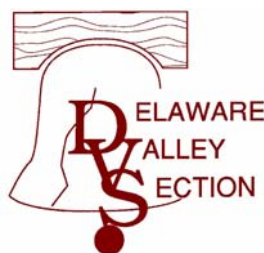
Advertise your products and services to more than 1000 chemical engineers in the Delaware Valley!

Your ad in AIChE-DVS newsletters

+

Your company name and one-click link to your company's homepage from the front page of [www.aiche-philadelphia.org](http://www.aiche-philadelphia.org)

Flexible pricing available!



### From the Editor:

**H**ello fellow AIChE members. You will notice there is a new look to the newsletter. We are publishing three times a year instead of monthly during the active year. This will allow more funds for programming. We are stepping up our email and web site communication to better serve our members and are asking for your input regarding how we are doing.

Mark your calendars for April 6<sup>th</sup> our CEO dinner, featuring Ellen Kullman, President and CEO of DuPont.

## Speed to Market or Speed Kills

By Eric Sipe - CDI Life Sciences - Project Engineer/Project Manager

**A**lmost every project I have worked on has been behind schedule from day one. The corporation has developed a new product that needs to get to market before the competition's product. A customer wants more product than current capacity allows, therefore process improvements need to be developed and implemented in a hurry. An existing processing unit exposes products to the realistic possibility of being contaminated. These are just some of the scenarios that can provide an impetus to complete a highly technical project in a hurry. But is a rush to get a new plant or process in place truly an advantage or is it a curse. Does speed to market help or does this speed kill?

Every project needs momentum to carry it from conception through to successful completion. But how much momentum? When should one press hard on the project gas pedal and when does one need to ease off the gas pedal of the project machine?

Every project starts with excitement about a new idea; a desired improvement, a new manufacturing approach, a cost saving measure, and a concept for implementing it. Usually the idea is unique and crude like newly mined ore. The idea needs to be processed to refine it into a workable concept for a new process, system or manufacturing plant. But, once the idea is refined into its final form it must be turned into tangible assets that perform as desired. Refining the original idea into a successful workable solution can take a significant amount of time. Additionally, turning the workable solution into tangible assets that perform as desired usually take a long period of time. If either of these project steps are done too fast; without considering all needs and ramifications, then a project may be destined to severe troubles or even failure down the road. These activities must be kept moving at a good pace in order to keep excitement and momentum on your side, but they can't be rushed through without mentally evaluating the pluses and minuses of various approaches and choices.

Once a sound concept of tangible assets is developed it is now time to do the hard work of defining all of the details necessary to bring the tangible assets to life. The characteristics of the process equipment must be defined. The necessary support utilities and facility must be defined. The required flow rates, temperatures, pressures and other process parameters must be worked out. Further, the way the process and equipment will operate and proceed will need to be defined and codified. The operating approach and sequences will then need to be turned into control algorithms and Standard Operating Procedures. But wait a minute. Are we going too fast? What about the safety considerations and controls that will need to be enacted? What about the environmental concerns that need to be identified, resolved and registered with the proper authorities? Are we still going too fast? Do we need to take the foot off of the gas pedal or are we seeing and avoiding these obstacles as we are travelling down the project highway? Again, we need to maintain momentum to get to the end of this road because of cost and schedule demands, but at what point does the rush to the finish start damaging the vehicle that is transporting us. At what point does the rush to speed imperil the product at the end of our planned journey? Are we going to get to our destination and find that we didn't account for a means to accomplish a vital activity?

For me the bottom line is pay me now or play me later. If adequate time isn't spent along the project highway to properly evaluate all short term and long term issues then the project may get detoured off the straight and narrow way (if there is such a thing in the complex and dynamic world we live in) or even driven over an embankment to a premature demise. So, the next time you are involved in a project, monitor the speed of your implementation schedule. Time certainly does mean money, but rushing things can cost you even more, it may cost you large sums of money at the end of the project to correct earlier oversights. It may also cost you satisfaction with the final operability of the installed assets and/or the quality of the project's intended aims.

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## Volunteer Opportunities

**H**ave you considered becoming a little more involved in the Section? It's a good chance to meet new people, share your talents, and pick up some fun experiences. Here are a few easy ways to contribute:

**Co-Chair an event:** Pair up with an experienced member to plan an upcoming membership meeting. It's a low pressure way to build project management and networking skills outside of work ...and it can be fun and rewarding.

**Help organize a Young Engineer's activity:** Similar to the co-chair opportunity above, but specifically geared toward organizing an event (social, happy hour in the city, etc.) targeted for young engineers

**Do you Twitter? Are you on Facebook?** Think the DVS can benefit from social networking tools? If so, we could really use your help. Why not help us navigate the technology and show us how to effectively use it?

**Co-Liaison to the Engineers Club of Philadelphia:** Learn from our seasoned pro, Bill Celenza, as you begin to share the responsibility of representing our section and keeping us informed of Engineers' Club activities, particularly Engineering Week events.

If you want to get more involved, or if you're interested in any of these opportunities, please contact Karl Saydlowski at [dvs.karl@gmail.com](mailto:dvs.karl@gmail.com) or 484-341-1034.

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## CHEMICAL CONSULTANTS NETWORK

### NOVEMBER 5, 2009 MEETING

## JOINT MEETING WITH THE JOSEPH PRIESTLEY SOCIETY AT THE CHEMICAL HERITAGE FOUNDATION

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

Visit the CHF web page at [www.chemheritage.org](http://www.chemheritage.org)

**Date & Time:** Thursday, November 5, 2009. The meeting will begin at 10:00 a.m. with a Chemical Consultants Networking Event and Reception, followed by lunch at 12:15 p.m. Speaker Gregg Zank will take the podium at 1:00 p.m. The meeting will adjourn at 2:00 p.m.

**Speaker:**

**GREGG ZANK**

*Chief Technology Officer  
Dow Corning*

**Location:** The Chemical Heritage Foundation, 315 Chestnut Street, Philadelphia, PA 19106-2702. Please note this is not CCN's normal location.

**Reservation:** There is a \$25 charge for this meeting. **Registration Is Required:** Log onto [www.chemheritage.org](http://www.chemheritage.org) and click "Events & Activities," or send an e-mail to [eventregistrations@chemheritage.org](mailto:eventregistrations@chemheritage.org), 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).

Reduced-rate parking is available at the Bourse garage on 4th Street between Market and Chestnut, and is based on availability. Pick up a parking voucher at the CHF registration desk.


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Delaware Valley Section of AIChE - Brian Snyder, Board Member

**A**s a member, you may be sitting at home or at work wondering what good your professional organization is doing with your dues money lately. Well during our monthly planning meetings, we have been organizing various events for our local chemical engineering community. These events include resume writing and interviewing workshops for graduating college students, and for students as well as colleagues in and between work places we are coordinating local plant tours and social events allowing people to learn a few extra things while networking. Your AIChE chapter is also keeping up with the times by expanding with new Facebook and Twitter accounts to allow members and wannabe members to follow along and shape future events by providing helpful comments.


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## DVS Membership

**M**ost AIChE members renew their AIChE annual membership in the fourth quarter, which means you will be receiving your renewal notice soon. We would like to encourage you to CHECK THE B  X to renew your membership in the local Delaware Valley Section. In these trying economic times, your local section offers your best opportunity to network with colleagues in a relaxed environment and at a low price with minimum travel. The DVS is one of the largest and most active local AIChE sections in the country. Planned events include local plant tours, the annual CEO lecture, the student awards, student resume/interview workshops and many others. A complete list of events planned for this year is in this newsletter and posted on our website (<http://www.iche-philadelphia.org/>). DVS section members receive a discount on each monthly event and students/recent graduates receive a special low rate. Don't miss out. Membership in the local section is critical to the continued success of our section and is a key networking tool for your career.

To help everyone remember to join the DVS section, last year we launched the "CHECK THE B  X" campaign. CHECK THE B  X on your Membership Dues Invoice to ensure you sign up as a member of the DVS section. On the online form (available at [www.iche.org](http://www.iche.org) under the "Join AIChE" tab you need to fill in "DVS- Delaware Valley \$15," in Section 5B. If you have recently moved, you will need to CHECK THE B  X for DVS (not your previous section) to be a member of this section. Your dues support section programming and the student awards to recognize the outstanding members of chemical engineering's next generation.

This year, several members struggling economically have expressed a desire to join the DVS without joining the AIChE National. We have made it easier than ever to choose this option by using the \$15 DVS only membership PayPal icon on our website (<http://www.iche-philadelphia.org/>). You will be able to enjoy all of the privileges of membership in the DVS.

So CHECK THE B  X on the national membership form or select the DVS membership only option on our website to enjoy the privileges of membership. Thank you for participating in the Delaware Valley Section of AIChE and I look forward to seeing you at DVS events.

Ken Ford, DVS-AIChE Treasurer

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## USDA Biotech Tour and DVS Networking Social on November 13th

*(Continued from page 2)*

Social & Dinner: Brittingham's Irish Pub & Restaurant, 640 East Germantown Pike, Lafayette Hill, PA 19444  
<http://www.brittinghams.com/>

Time: 5:00 p.m.

Register at the "Events" tab at [www.iche-philadelphia.org](http://www.iche-philadelphia.org)

Tour registrations close once the first 25 registrations are received.

Social/Dinner registrations close on Friday, Nov. 6. See website for updates.

### Dinner Cost:

Delaware Valley Section Members: \$30

Non-Members & Guests: \$35

Students & Unemployed Members: \$15

### Tour Information:

At the research center, look for visitor parking along the front semicircular driveway. Tour guests will be required to present picture ID and are advised to bring safety glasses.

### More About USDA Research Center in Wyndmoor, PA

The USDA's Wyndmoor research center's focus includes Dairy Processing and Products; Crop Conversion Science and Engineering; Food Safety Intervention Technologies; Fats, Oils and Animal-Coproducts; Microbial Food Safety; and Microbial Biophysics and Residue Chemistry and Core Technologies. Among the center's many accomplishments is the development of Process Simulation (Cost Engineering) for Biofuels Processes.

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## Oktoberfest!

*(Continued from page 1)*

states and are known around the world. Just in the last month, their Prima Pils was named one of eight great pilsners of the world (by Gourmet Magazine) and one of the world's best bottled beers ("best to drink with a burger" by Imbibe Magazine).

We've watched their facility expand (toured their new brew house, met in their new beer hall of the renovated restaurant). There's always something new to check out, be it a state-of-the-art Austrian growler-filler or a centrifuge (new this year).

Another highlight... Our Victory hosts are always informative and entertaining. Who can forget last year when our animated host, Matt, busted open a bottle of Golden Monkey with a machete? More beer ended up on him than in the "Drunken Mussels" recipe he was demonstrating!

If you haven't been, come see what everyone is talking about. Bring a friend, co-worker, or spouse. Plan to beat the traffic by arriving early. Even if you can't make the (optional, but recommended) tour, please join us for the complimentary beer tasting, food, and socializing that follows.

## Joseph Priestley Society

**J**oseph Priestley Society Meeting:

Joseph Acker, "In the Cross-Hairs: What Washington Has Planned for the Chemical Industry"

Date: 8 October 2009

Time: 11:30 a.m. to 2:00 p.m.

Location:  
Chemical Heritage Foundation  
315 Chestnut Street  
Philadelphia, PA 19106

Meetings of the Joseph Priestley Society are by invitation only and are held the second Thursday of each month from September through April. There is \$25 charge to attend. Reduced-rate parking is available at the Bourse Garage on 4th Street between Market and Chestnut Streets and at the Ritz Garage on 2nd Street between Chestnut and Walnut Streets.

To RSVP send an e-mail to [eventregistrations@chemheritage.org](mailto:eventregistrations@chemheritage.org), log onto [www.chemheritage.org](http://www.chemheritage.org) and click "Events & Activities," or call Bob Kenworthy at 215-873-8292.

## Chair's Chat

*(Continued from page 1)*

research at the USDA Eastern Research Center, followed by a networking social and dinner at Brittingham's Irish Pub. New this year (for these first two events), we not only offer a 50% registration discount for students but also for members who are currently unemployed and seeking work.

We have many other activities in the works. In January, we plan to offer a financial planning seminar. We'd like to host a young engineers' event. We are also considering creating a grass-roots, locally-driven continuing education program.

Please feel free to contact me ([dvs.karl@gmail.com](mailto:dvs.karl@gmail.com) or 484-341-1034) with your ideas, feedback, or suggestions. We could always use more help. Please see the article on volunteer opportunities for more information.

We will continue to update you through our website, [www.aiche-philadelphia.org](http://www.aiche-philadelphia.org), by e-mail, and through our newsletter. In an effort to contain costs and not increase local dues, we plan to consolidate our mailed newsletters into fall, winter, and spring editions.

Take advantage of your membership and participate in one of our activities! We look forward to seeing you!  
Karl Saydlowski

### Get a refund! Register early!

Did you know that you can get a refund for an event you have to cancel? Per DVS policy, when you cancel your registration BEFORE the registration deadline, we will refund your full registration fee, without penalty. When you pay with Paypal, we simply reverse the charge. The full amount is immediately credited to the credit card or bank account you initially used to register. So, why not register early for an event? Not only does it get on your calendar, but it holds a spot for you... important when there's a registration limit. Don't miss out on a great event... register early!

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**Section Board of Directors**

|                  |                 |
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|                         |  |
|-------------------------|--|
| <b>Database Manager</b> | Jeremy Isaacs<br>Email: jisaacs@rohmmaas.com |
|-------------------------|--|

**2009 – 2010 AIChE- DVS Event Schedule**

Sep 30, 2009:

Student Resume Workshop, University of Pennsylvania

Oct 7, 2009:

Student Interview Workshop, Villanova University

Oct 22, 2009:

Oktoberfest / Victory Brewing Co Tour, Downton, PA

Nov 13, 2009:

USDA Biotechnology Tour, Wyndmoor, PA / Networking Social at Brittingham's, Lafayette Hill, PA

Jan 2010:

Financial / Retirement Planning Seminar

Feb 2010:

Engineer's Week Events, Philadelphia

Apr 6, 2010:

CEO Lecture, Ellen Kullman DuPont, Union League, Philadelphia

Apr 2010: Student Awards Banquet

May 2010: Plant Tour, TBD

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**AIChE Newsletter**  
**Delaware Valley Section**  
Jeremy Isaacs,  
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Mail address corrections to Data Base Manager at above address .

Our Files are continually updated with your input and membership information from AIChE Headquarters.

AIChE Headquarters: AIChExpress  
telephone: 800-AIChEme; e-mail: xpress@aiche.org

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