

October 26, 2006

Exelon Nuclear Plant Tour – Limerick Township, PA

Chair's Chat

Reaching the Right Audience

By Scott Smith, P.E.

In May, Exelon's Limerick facility made headlines with a visit from President Bush, promoting the need to build more nuclear power plants to increase energy output without increasing greenhouse gases. AICHE members are fortunate to have an opportunity to tour this world-class facility. Thanks to Bob Weingard of Exelon for organizing the tour. This event is limited to the first 30 AICHE members that register.

The Limerick nuclear power plant, employing 800, is located on a 600-acre site in Limerick Township, Montgomery County. The facility is owned and operated by PECO, which is now a part of Exelon Corporation. The plant can produce power to support the electricity needs of two million American homes.

Power at the facility is generated by two General Electrical boiling water reactor (BWR) units, cooled by natural draft cooling towers. Unit 1 began commercial operation in 1986, followed by Unit 2 in 1990. Each of the units is capable of providing nearly 1,200 net megawatts of energy. Cooling water is supplied by the Schuylkill River located next to the power plant.

Enjoy a buffet dinner and networking after the tour at Cutillo's Restaurant. If you are unable to join us for the tour, you can still register for the dinner. Simply indicate "dinner only" on the online registration form.



Limerick nuclear power plant provides nearly 1,200 net megawatts of energy.

Meeting Date: October 26, 2006

Tour Location: (direction on Page2)
Limerick Generating Station
3146 Sanatoga Road
Pottstown, PA 19464

Dinner Location:
Cutillo's Restaurant
2688 East High Street
Sanatoga, PA 19464

Times:
3:00 – Tour
6:15 – Cocktails & Networking
7:00 – Dinner

Ticket Price:
\$20 Members & \$10 Students

RSVP:
On-line at <http://www.iche-philadelphia.org/events/events.html>
Or with Scott Smith, P.E.
scott@envirosureinc.com or (610) 696-8980

Is your company looking for a qualified chemical engineer? Receiving resumes with relevant experience can be a challenge. Advertising positions in Monster.com or the *Philadelphia Inquirer* can result in resumes, but few candidates that fit your needs.

Luckily for your company, you are an AICHE member in the active Delaware Valley Section (DVS). Advertising an opening in our newsletter could not be easier. Thanks to the diligent efforts of Doug Kriebel and Robert Bubeck of Kriebel Engineered Equipment, our newsletter reaches over 1,000 chemical engineers and our student chapters (Rowan, University of Pennsylvania, Villanova, Drexel, and Widener). By reaching the right audience, you are more likely to find the best candidate. Job seekers can also feature their contact information free in our newsletter.

Whether you are a job seeker or representative of a company in need of chemical engineers, reach out to our Professional Development Chair, Mark DeLuca, PE at 215-752-1619 or engineer@del-engineering.com. Mark has done an excellent job connecting our membership to job opportunities.

Now that you have landed your dream job through AICHE, it is time to promote your new employer. Start with an advertisement in our newsletter and link on our website. Then, let others know about your chemical engineering experiences during our plant tours and

(Continued on page 2)

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

Flexible pricing starting as low as \$150!

October Tour Location:

Limerick Generating Station
3146 Sanatoga Road
Pottstown, PA 19464

- 1) Take Route 422 East or West and exit at the Sanatoga exit ramp.
- 2) Turn left at the end of the ramp (use caution, cross traffic can be heavy).
- 3) Proceed straight to stop sign (about 1 mile). This is the plant entrance.
- 4) Go straight into the plant entrance and park in the Employee/Visitor Parking area (fourth right-hand turn).
- 5) We will be initially meeting in the Limerick Learning Center located near the flag pole.

Chair's Chat

(Continued from page 1)

speaker events, which routinely sellout. Finish the 2006-2007 DVS year by treating your clients to a round of golf at AIChE's First Annual Golf Outing on June 8, 2007 at the Downingtown Country Club. You can register at any point on our website www.aiche-philadelphia.org.

Regardless of your advertising goal, David Lee, PhD, PE, our Advertising Coordinator, will find the solution. Contact David at 610-878-6939 or david.lee@arkemagroup.com to discuss options available to our membership.

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CHEMICAL CONSULTANTS NETWORK

November 8, 2006 Meeting

Visit our web page at www.chemconsultants.org

Date & Time: Wednesday, November 8, 2006 at the Cynwyd Club, Bala Cynwyd, PA; Networking, 5:30 PM; Dinner, 6:30 PM; Talk and Business Session, 7:30 PM.

Speaker Topic:

Nanotechnology Aspects of Biosensing and Bio-reactions in the Gas Phase

Dave deLesdernier

Abstract: With the recent outbreak of *E. coli* contaminated foods and the continuing threat of bioterrorism, detection of minute levels of pathogens is the subject of numerous research activities. Current USDA protocols take 8+ hours to detect *E. coli* in beef samples. Antibody coated piezoelectric mass sensors capable of detecting a single cell can reduce this detection time to less than 15 minutes. David deLesdernier will present the nano-scale aspects of liquid and gas phase biochemical reactions with emphasis on immunosensors for pathogen detection. An extension of the technical discussion will include the commercialization pathways for university research.

Biography:

David deLesdernier: In addition to running his consulting business, Dernier Technologies Inc., David is currently pursuing his PhD in Chemical & Biological Engineering at Drexel University. His research is focused on gas phase antibody – antigen reactions as related to the detection of pathogens. His research extends his technical expertise in air sampling and particle technology.

Reservation: To make or cancel a dinner reservation, e-mail CCNReservations@aol.com or call the ACS office at 215-382-1589 (leave message on voicemail if necessary). Fee, including food and beverages, is \$35. Early Bird discount price is \$25 if reserved by the Thursday, November 2. Late reservations and walk-ins subject to availability. No-shows will be invoiced. Please advise of any special dietary requirements.

Member News

Guy J. Arno P.E. 55, of Newtonville MA died suddenly on Thursday September 14, 2006 at the Newton Wellesley Hospital in Newton. Guy graduated from New Jersey's Baskin Ridge High School in 1969, received his BA and BS in Chemical Engineering and Economics from Tufts in 1974, and his MBA from Northeastern University. Guy worked for Raytheon / Badger Engineers in the 1980's and was a Chemical Engineer at BioMetrics in Waltham MA for the past eight years. He was a member of the American Institute of Chemical Engineers and a colleague / friend to several members here in Greater Philadelphia.



CHEMICAL ENGINEERING
Evening Master's Degree
Program
Spring 2007 course offerings
in Chemical Engineering

BioPharmaceutical Design and Development

Monday, 6:30 – 9 PM

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

Petroleum Refining Troubleshooting –

Tuesday 6:30 – 9 PM

J. Van Kirk, Refining Engineering Consultant

Engineering Quality Control

Thursday 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

LIMERICK GENERATING STATION

Part of the Exelon Nuclear Fleet

Generation:

- **Number of units:** 2
- **Total site net generation:** 2,345
- **2005 net generation (megawatt-hours):** 18,910,473
- **2005 capacity factor:** 93.8 percent
- **Customers served:** Limerick produces enough power to serve more than two million homes in southeastern PA, NJ and MD.

Type and manufacturer of reactor:

- Boiling Water Reactor - General Electric

Site Features:

- **Site size:** Approximately 600 acres
- **Location:** Located in Montgomery County, PA on the eastern shore of the Schuylkill River, two miles southeast of Pottstown, PA, and 21 miles northwest of Philadelphia, PA.

Ownership: Exelon Nuclear -100 percent

Construction:

- **Plant builder:** Bechtel Power Corporation
- **When construction began:** June 1974
- **Dates units entered commercial service:** Unit 1 - February 1, 1986 Unit 2 - January 8, 1990
- **Operating License:** Unit 1 is licensed to operate until 2024 and Unit 2 until 2029.

Community Impact

- **Number of employees** Approximately 700
- **Annual payroll** Approximately \$60 million
- **Plant Taxes** Approximately \$20 million including property taxes as well as federal, state and local income tax.
- **Community Support** Limerick Generating Station and its employees give generously to the local community through a variety of charitable activities, sponsorships and contributions.

In past years, these efforts included more than \$250,000 to the following local charities:

- March of Dimes – Walk America
- American Cancer Society – Relay for Life
- Limerick Township - Community Days
- American Heart Association
- Linfield Fire Company
- Sanatoga Fire Company
- Limerick Township Police Department
- Pottstown Training & Rehabilitation Center
- United Way of Pottstown & Upper Perkiomen Valley
- Thanksgiving Food Drive – Pottstown Cluster of Churches
- Boy Scout Holiday Food Drive
- Perkiomen Watershed Conservancy
- Schuylkill River Heritage Area
- Douglassville Youth Baseball Association
- Limerick Fire Company
- Ridge Fire Company
- Pottstown Police Department
- Pottstown YWCA
- Quarterly Blood Drives –Miller Keystone

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2006 – 2007 AIChE- DVS Event Schedule

The First Annual AIChE DVS Golf Outing has been scheduled for June 8, 2007 at the Downingtown Country Club. To encourage all levels of play, each foursome will use the best ball. The cost of this event includes golf cart, use of the locker room, draught beer, prizes, and dinner at the Milltown Grill, right on the course. We will limit the event to the first 100 golfers. Register for the golf outing and our other events for the upcoming year at <http://www.aiche-philadelphia.org/events/events.html>.

September 28, 2006
 Plant Tour: AstraZeneca – Wilmington, DE
 Cost: \$20/\$10

October 26, 2006
 Plant Tour: Exelon's Limerick Nuclear Plant – Sanatoga, PA
 Cost: \$20/\$10

November 2006
 Symposium: Alternative Energy
 Cost: \$20/\$10

January 2007
 CEO Lecture: The Union League – Philadelphia
 Cost: \$50

February 22, 2007
 Plant Tour: Candy Factory (Valentine's Day Theme)
 Cost: \$20/\$10

March 2007
 Plant Tour: Paper Manufacturer
 Cost: \$20/\$10

April 19, 2007
 Student Awards
 Rowan University – Glassboro, NJ
 Cost: \$20/\$10

June 8, 2006
 First Annual AIChE DVS Golf Outing
 Downingtown Country Club
 Downingtown, PA
 Cost: \$100

We welcome your participation at our monthly program planning meetings, starting at 6 p.m. on the first Wednesday of each month, at Villanova. Contact Scott Smith, P.E. at 610.696.8980 for more information.

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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.

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

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