

The North Jersey Section AIChE presents:

*The 2009 Fall Lecture Series:*

## **An Engineering Potpourri**

*Three Tuesday evenings*

**October 13, 2009**

**Stuff You Don't Learn in Engineering School**

*Carl Selinger – Carl Selinger Services*

**October 20, 2009**

**Assuring Highly Potent Active Ingredient Safety:**

**A Systematic Approach to Handling Potent Pharmaceutical Compounds**

*Robert G. Sussman, Ph.D., DABT – SafeBridge Consultants, Inc.*

**October 27, 2009**

**The Application of Lean Six Sigma in New Product Development**

*Beverly Smith – Dept. of Chemical & Biochemical Eng. – Rutgers University*

Networking and Dinner 6:00 PM – 7:30 PM

Lectures 7:30 PM – 8:30 PM

Meetings will be held at:

**Oct 13 – The Russian Hall**

**Oct 20 – The Essex House**

**Oct 27 – The Russian Hall**



Visit us at our website [www.aichenoj.org](http://www.aichenoj.org)

**Session 1:****October 13, 2009****Stuff You Don't Learn in Engineering School - Carl Selinger – Carl Selinger Services**

“Stuff You Don't Learn in Engineering School” helps engineers and emerging project managers learn the non-technical soft skills that are important to be more effective and happier in the real world. These skills include making decisions, setting priorities, running meetings, speaking, writing and listening better, leading teams, dealing with stress and having fun, and understanding themselves and others. This presentation will provide straightforward, practical skills to acquaint all attendees with important non-technical issues, discussing them in plain English and offering many effective actions. Skills learned can be applied directly and immediately to real projects they bring from their desks, important decisions they are confronting, and upcoming meetings they'll be attending / running. Who will benefit most from this presentation?

- Engineers in the early part of their careers, from entry-level through “emerging project managers”;
- Seniors and graduate students in engineering schools;
- Engineers and other professionals who want to assume a greater management role; and
- Managers of engineers to get refreshed on soft skills and be better able to coach their direct reports.

Carl Selinger's forty-year career spans aviation, transportation planning and strategic business planning, mainly during his 31-year career with The Port Authority of NY & NJ. Leaving as Manager, Aviation Business Development, Carl developed business, concessions and technology initiatives to improve services and increase revenues at Kennedy, LaGuardia and Newark Liberty airports, one of the world's largest airport systems. Carl managed programs at the Port Authority that returned over \$20 million in annual revenues, including: airport advertising; prepaid phone-cards; CNN Airport Network; public Internet stations; car rentals; interactive multimedia payphones; developed preconditioned air systems at aircraft gates; managed 5,000 payphones at all PA facilities; marketed PAN AM's \$500 million major aircraft maintenance base at JFK; planned the 30-year-old Express Bus Lane on the I-495 Lincoln Tunnel approach; managed the Manhattan Staggered Work Hours Program; authored the Port Authority's first "Strategic Plan"; and guided the start-up of the Air Brook shuttle between Ridgewood (NJ) and EWR.

Currently an independent consultant helping aviation and transportation organizations with business strategy and applying new technologies; Carl gives professional development seminars – including his unique “Stuff You Don't Learn in Engineering School” – to teach the non-technical soft skills that are important to be effective in the real world. He is a globally-published author whose book and articles appear widely. He has given seminars at many AIChE venues over the years. For additional information please visit

**North Jersey AIChE**

Carl's website at [www.carlselinger.com](http://www.carlselinger.com), or, view a Podcast interview with him on YouTube at: <http://www.youtube.com/watch?v=YCaSM4Gz8jQ>

**Session 2:****October 20, 2009****Assuring Highly Potent Active Ingredient Safety:  
A Systematic Approach to Handling Potent Pharmaceutical Compounds - Robert G. Sussman, Ph.D., DABT – SafeBridge Consultants, Inc.**

(From *Chemistry Today*, May 2004) Drug innovators, collaborators, licensing partners and the myriad of third-parties who handle active pharmaceutical ingredients (API's), need to take notice when low doses (i.e.; < 10 milligrams) of the API's they are handling can cause pharmacological or toxic effects in patients, or if doses less than 1 mg/kg/day in laboratory animals may be potentially mutagenic, teratogenic, carcinogenic, or are reproductive or developmental toxicants. These “red flags” identify a “potent compound” which requires containment, controls, programs and practices to minimize worker and environmental exposure. Management systems need to be developed that go beyond traditional approaches to safe handling of “typical” chemicals.

This presentation will introduce a systematic approach that if implemented, will assist a pharmaceutical or fine chemical company in evaluating its ability to develop the necessary management systems that address the peculiar hazards associated with these potent compounds and meet current industry practices in the health and safety aspects of potent pharmaceutical manufacture and R&D.

Dr. Sussman is currently Managing Principal, Eastern Operations for SafeBridge Consultants, Inc. He has over 20 years experience in the pharmaceutical industry where he worked in various capacities in corporate occupational toxicology groups culminating as a Director of Occupational Toxicology in Pfizer's Corporate Environmental Health and Safety Department. His group was responsible for evaluating the toxicity of pharmaceutical products, their intermediates and other chemicals handled in research facilities and providing hazard communication information to all research facilities worldwide. Bob is a Diplomate of the American Board of Toxicology. He is a past member and chair of the AIHA's WEEL Committee, is a founding member of the Occupational Toxicology Roundtable and serves on that organization's steering committee. He has had an adjunct appointment at the NYU Medical Center where he gives several lectures each year on regulatory toxicology, risk assessment, and industrial hygiene aspects of the pharmaceutical industry.

**Session 3:****October 27, 2009****Year 2009 Fall Lecture Series**

**The Application of Lean Six Sigma in New Product Development** - Beverly Smith – Dept. of Chemical & Biochemical Eng. – Rutgers University

The chemical manufacturing industry is experiencing a shift from the development and manufacture of bulk commodity chemicals to the design and manufacture of specialty high value-added chemical products. This emerging industry reality implies greater challenge to achieving the desired product quality while keeping cost at a minimum.

*Six Sigma* is a proven methodology that consistently delivers positive business results through the disciplined use of facts, data and statistical analysis. The application of *Lean* tools and *Lean* principles allows organizations to conduct business faster, with less cost and with greater efficiency. Six Sigma tools and methodologies improve product and service quality by reducing variation and by reducing the number of product defects. Combining and adapting the Lean Six Sigma methodologies has led to dramatic improvement in business performance and bottom line profitability. This knowledge based management strategy integrates effective tools and a structured methodology to accomplish business objectives. This presentation will highlight the application of Lean Six Sigma tools and methodology to optimize the new product development process – resulting in reduction in time-to-market and improved product quality.

Beverly Smith is President / CEO of Vector International and a certified Six Sigma Master Black Belt (MBB). Prior to launching Vector International, Beverly served as Leader for Six Sigma & New Product Development for Honeywell International's Specialty Materials business. She also served as the Six Sigma Leader and a member of the leadership team for the Specialty Materials Electronics Chemical business based in Chandler, Arizona. In the capacity of Six Sigma Leader and New Product Development Leader, Beverly had responsibilities for training and implementation of Six Sigma and Product development processes across multiple business units.

Prior to joining Honeywell International, Beverly worked for Avery Dennison Corporation - a world leader in the manufacturing of pressure sensitive adhesive materials. During her tenure at Avery Dennison, Beverly led global scientific research and development efforts in the areas of silicone and emulsion technology while living and working in The Netherlands, Europe. In 1998 she was also certified as Six Sigma Black Belt, Lean expert and Design for Six Sigma expert.

Beverly holds an advanced degree in Chemical Engineering and is conducting research studies in the area of product design of consumer-based chemical products at Rutgers University.

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# REGISTRATION FORM

## Year 2009 Fall Lecture Series

Name \_\_\_\_\_

Title \_\_\_\_\_

Company \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_

State and Zip \_\_\_\_\_

Phone \_\_\_\_\_

FAX \_\_\_\_\_

E-mail \_\_\_\_\_

Please indicate what session(s) you plan to attend:

1 \_\_\_\_\_ 2 \_\_\_\_\_ 3 \_\_\_\_\_ All sessions \_\_\_\_\_

### REGISTRATION FEES:

#### Entire Series:

AICHe Member	\$ 95.00
AICHe Member (Retired, Unemployed)	\$ 75.00
Non-AICHe Members	\$100.00
Full-time Students w/ currently valid ID	FREE

#### Single Sessions:

Employed (all)	\$ 35.00
Retired, Unemployed (all)	\$ 25.00
Full-time Students w/ currently valid ID	FREE

Corporate / University Sponsor	\$500.00
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**Includes light dinner each evening**

#### Make Checks Payable To:

*North Jersey Section AICHe*

#### Please Mail Registrations\* and Checks To:

Peter Sibilski, P.E., CEM, FAICHe  
Pharmetic Manufacturing Co., LLC  
650 Jernee Mill Road  
Sayreville, NJ 08872  
Tel: 732-254-1901 Ext 140  
Fax: 732-254-4423  
e-mail: [psibilski@mail.alzointernational.com](mailto:psibilski@mail.alzointernational.com)

\* In order to allow us to be properly prepared we request that anyone who is attending under a Corporate or University sponsorship send in a completed registration form. Simply note on the form that a corporate sponsor paid the registration and the sponsor's name.

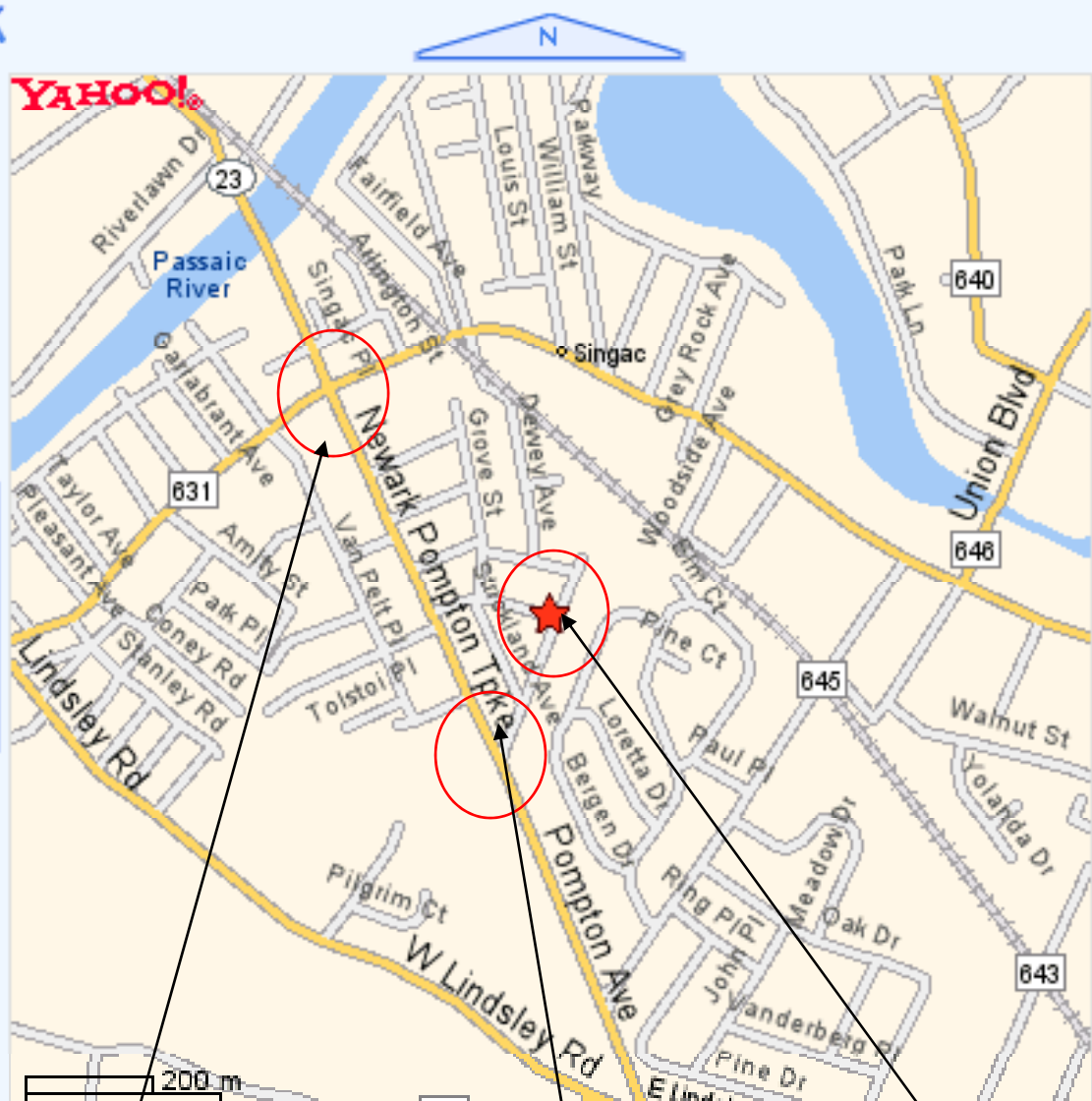
**The Fall Lecture Series** is presented annually by: North Jersey Section, American Institute of Chemical Engineers.

Each Lecture in the series will be followed by a brief Q&A and discussion period.

### CORPORATE / UNIVERSITY SPONSORSHIP

The corporate / university sponsorship allows the sponsoring company or university to send an unlimited number of employees, faculty members, and/or students to the Fall Lecture Series at a cost to the company or university of \$500.00. To become a corporate sponsor, please contact:

Peter Sibilski 732-254-1901  
[Psibilski@mail.ALZOinternational.com](mailto:Psibilski@mail.ALZOinternational.com)



Four Corners

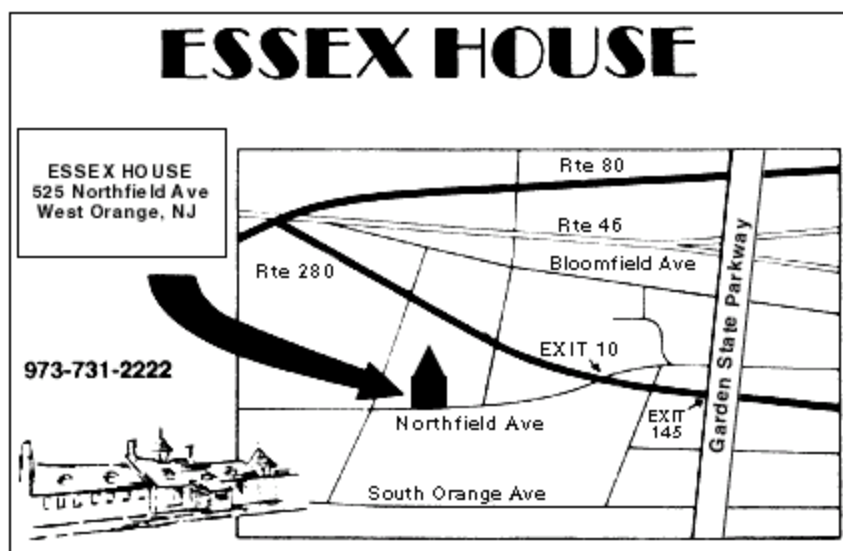
7-Eleven

Russian Hall

**Directions:** The Russian Hall is located in Little Falls, on the corner of Woodhull Ave and Bradford Ave, off of Pompton Avenue (Route 23), and approximately 1 mile south of the Willowbrook Shopping Mall in Wayne, NJ.

## ✿ Directions ✿

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### 1920's ESSEX HOUSE

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A unique restaurant nestled between first and second mountain in beautiful West Orange, New Jersey. Authentic decor and an unhurried atmosphere promotes comfortable feelings; the service and cuisine are all that could be desired.

#### Easy Directions to the 1920's Essex House

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**FROM:** Holland Tunnel follow Rts 1 and 9 approx 2 miles. Follow the signs to Harrison, Kearny. In Harrison take Rt 280 West to Exit 10. Turn left on Northfield to Essex House (525 Northfield Ave.).

**FROM:** Lincoln Tunnel and George Washington Bridge take NJ Turnpike south to Exit 15W. Get on Rt 280 West and proceed as above.

**FROM:** Morristown take Rt 280 East to Exit 7 (Pleasant Valley Way, West Orange), left to Northfield, then left again to Essex House.

**FROM:** South Jersey take NJ Turnpike North to Exit 15W or Garden State Parkway to Exit 145, then Rt 280 West as above.