

December Newsletter

Chicago Section

www.aiche-chicago.org

December 2011



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**Celebrate the holiday season with lo-
cal Young Professional ChemEs!**

Date: Thursday, December 8th, 6pm

**Location: The Stadium Sports Club, 769 Holiday Lane,
Des Plaines, IL**

Food and drinks will be individually billed.

<http://www.stadiumsportsclub.com/>

HAPPY HOLIDAYS

&

HAPPY NEW YEAR

Best wishes for the holiday season and a

Happy New Year

**Thank you for helping us to improve the Chicago
Section monthly meetings**

Chair's Corner

We all have different reasons for joining organizations. Certainly many of us consider how membership will help us. In my early years as an AIChE member, I made sure I voted for activist directors who reflected my views. A few years ago when we were looking to increase membership, I put together a list of reasons to join the section and the national organization. Some people jump from one organization to the next just because their needs are not being met.

Lost in all this, however, is the other side of the coin. Somewhere in my career, I realized that giving is also an important component of joining a group. When the student outreach committee was activated, I jumped at the chance to help. Although I had done some work as an alumni recruiter for my college alma mater, I had not had the opportunity to discuss chemical engineering in-depth with students. This program gave me the chance.

Whenever you come to one of our meetings or another event, you probably did not think about how it was produced. In one way that is good, because it means volunteers are doing their jobs well. Often anonymous, they have signed on because they believe that giving is better than receiving.

Organizations rise or fall based on their volunteers. Often we take for granted how smoothly they function. Of course, it is the often unseen people behind the scenes who make this happen. Even the best organizations have holes to fill. Those who are willing to give of themselves can make a difference.

In the Chicago Section, a few committees still lack chairs. Members are also needed to support the chairs in carrying out the work of the committees. Those of you who may have a particular interest are welcome to contact me about it. Your effort will make our section even better.



One group of volunteers deserves special mention at this time – those who helped with the recent technical conference. Their efforts made things run smoothly and successfully for one of our signature events.

By Steve Schade

High School Program at 2011 AIChE Midwest Regional Conference

During the AIChE Midwest Regional Conference, the AIChE Chicago Outreach Committee hosted the Annual High School Outreach program. This event is held to educate Chicagoland high school students about what real engineers do and the numerous opportunities available with a Chemical engineering degree. The event was held on both Thursday and Friday of the conference and welcomed more than 200 students combined. Students came from all over including District 211, District 214, Lane Tech, UIC College Prep, Niles North, Universal School, Ogden International, and Trio Upward Bound.



The students started off the program with a presentation from the well known Chemical Engineering Astronaut, Dr. Albert Sacco. Al spoke about his background of Chemical Engineering and about his amazing adventures in space. The program then switched gears and tested the students about their knowledge of engineering careers with the game, "What Type of Engineer Am I?". After the challenging game, a panel of five current chemical engineers spoke about their different experiences in their Chemical Engineering education and career paths. The students were astonished about the different directions that a Chemical Engineering degree can lead. After the panel discussion, the students had the chance to ask even more questions to the professionals. Each professional had lunch with the students and answered more detailed questions. The day wrapped up with a great tour of the UIC campus and presentations for engineering student organizations.

This program could not have been so successful without the event hosts: Rick Isherwood, Alan Zagoria, Meagan Lewis, UIC, and AIChE.

NOMINATIONS REQUESTED FOR THE ERNEST W. THIELE AWARD

The Ernest W. Thiele award is sponsored by BP and recognizes the outstanding contributions to our profession by a Midwest region chemical engineer. This award was established by the AIChE Chicago Section and is presented annually to a Midwest region AIChE member. This internationally recognized award consists of an engraved plaque and \$1000 honorarium presented at our sectional meeting.

Nomination forms and additional information can be obtained from the Thiele Committee Chair.

Completed nominations are due to the committee chair no later than **March 01, 2012**.

One of the highest honors a distinguished chemical engineer can receive is our Chicago Section Thiele award. Please consider nominating a deserving engineer for this prestigious award.

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Highlights of 2011 AIChE Midwest Conference









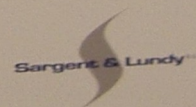
AICHE Midwest Regional Conference
UIC - Chicago, IL
November 10-11, 2011



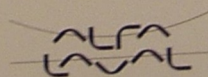
ExxonMobil

Ambitech

middough



UIC Women in Science
and Engineering
CENTER FOR RESEARCH ON WOMEN AND GENDER



CCC **NALCO**

Remembering Dr. Bernard Lee

Bernard Shing-Shu "Bernie" Lee

Lee, Bernard Shing-Shu "Bernie"



75 of Sun Lakes, AZ passed away peacefully on November 7, 2010 after a year-long, courageous battle with lung cancer. Born in Nanking, China in 1934, Bernard grew up in China and, at age 14, came with his family to America in 1949. He graduated from Culpeper County High School in Culpeper, Virginia in 1952, and entered University of Virginia for 2 years before transferring to Polytechnic Institute of Brooklyn in 1954. He received his bachelor's of chemical engineering degree in 1956 from Brooklyn Poly, and continued with his graduate studies. He received his doctorate in chemical engineering from Poly in 1960, having conducted his thesis research at Argonne National Laboratory in IL on the kinetics of particle growth in a fluidized calciner. Bernard began his professional career at Arthur D. Little, Inc in Cambridge, MA from

1960-1965, working on a variety of experimental and pilot plant projects, using fluidized bed reactor technology, for sponsors in the metallurgical and chemical industry. In 1965, he joined Institute of Gas Technology in Chicago, IL and remained with IGT for 34 years until he retired at age 65 at the end of 1999. IGT was an independent not-for-profit contract research and education organization, with a strong emphasis on technology development in fossil fuel conversion and natural gas utilization. Bernard began as Supervisor, Gasification Research, responsible for the HYGAS process development project to convert coal to substitute natural gas, sponsored by Office of Coal Research in Department of the Interior and American Gas Association. As the synthetic fuels program expanded, particularly after the first oil crisis in the 1970s, HYGAS and other conversion processes, U-GAS, Steam-Iron, PEATGAS, HYCRUDE, were developed and scaled up to round-the-clock pilot plant operations. He devoted most of his time at the pilot plant and became an authority in the gasification field. He took on increasing responsibilities, being promoted to Manager, then Director of Process Research, and Vice President of Process Research. In 1977, he was named Executive Vice President, and in 1978 became President of IGT, a position he held for 21 years until his retirement. He served as director of Peerless Mfg. Co, National Fuel Gas Company, and NUI Corp, and on the advisory board of Center for Applied Energy Research. He also served as Advisor to Petronas in Malaysia, and Shanghai Gas Design Institute in China. Bernard met his wife, Pauline Pan, when she was a student at University of Chicago and he was at Argonne for his thesis research. He followed her to Cambridge while she completed her doctorate in biochemistry at Harvard. They were married in Cambridge in 1963. The Lees moved to Sun Lakes, AZ in 2002 and have been active in many community service organizations. Bernard particularly enjoyed singing in the choir of the Sun Lakes United Methodist Church. Beside his wife, Pauline, Bernard is survived by his sister Katherine Chen and three daughters, Karen Wang, Lesley Purnell, and Tania Osmond who each have 3 children, for a total of 9 grandchildren. A service to celebrate his life will be held at Sun Lakes United Methodist Church on December 11. In lieu of flowers, donations can be made to the [American Cancer Society](#).

Calendar of Events

[A New Paradigm in Transformational Energy Research](#)

European Crystal Banquet Center
Chicago, IL
January 19, 2012

[Carbon Management Technology Conference](#)

Caribe Royale Hotel & Convention Center
Orlando, Florida
February 7-9, 2012

[Sustainability in \(Bio\)Pharmaceuticals](#)

Sheraton Old San Juan
San Juan, PR
February 19-22, 2012

[Spring Meeting and 8th Global Congress on Process Safety](#)

Houston Hilton and George Brown Convention Center
Houston, TX
April 1-5, 2012

[3rd International Conference in Stem Cell Engineering](#)

Sheraton Seattle
Seattle, WA
April 29 - May 2, 2012

[2012 Annual Safety in Ammonia Plants And Related Facilities Symposium](#)

Hyatt Regency Chicago
Chicago, IL
September 9-13, 2012

[2012 Annual Meeting](#)

Pittsburgh Convention Center
Pittsburgh, PA
October 28 - November 2, 2012

Save the Date

**Thursday January 19th,
2012**

Joint meeting with ACS Chicago Section



Speaker: Dr. Eric Toone

**Deputy Director of Technology for
Advanced Research Projects
Agency—Energy (ARPA-E)**

**“A New Paradigm in
Transformational Energy Research”**

European Crystal Banquet Center

519 W Algonquin Rd, Arlington Heights, IL 60005

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We are on the web
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We want you for AIChE-Chicago!

We need your help!

How many opportunities can you find to learn project management, delegation and leadership skills for free? Becoming an officer in the Chicago Section of AIChE is such an opportunity. While you're learning new skills, your local network grows. Just about all of us are either undergoing a career change, contemplating a career change, or are wondering if our career will be changed for us. Volunteering with AIChE is a way to add skills and accomplishments to your resume.

aichechicago@gmail.com

http://www.aiche-chicago.org/Section_Info/Volunteer.html

Submitting Articles to AIChE Newsletter

We welcome email submissions for our monthly newsletter. Commercial announcements are subject to the fee schedule below. News stories, editorials, technical or career related non-commercial contributions are always welcome with no charge. We consider job postings, announcements of for-fee training courses, expositions, conferences as commercial. Categorization of announcements is at the sole discretion of the Chicago AIChE Board of Directors. Chicago AIChE may publicize activities of interest to our members by cooperating professional societies and other non-profits without charge.

Please submit your material to aichechicago@gmail.com with "newsletter article" as a subject line.

AICHE Publicity Committee Fees	Academic (non-AICHE)		Company		Recruiters	
	Per Month	Per Year	Per Month	Per Year	Per Month	Per Year
Advertisements (3X3)	100	450	150	675	N/A	N/A
Half-Page (~7"x 4.5")	280	1260	420	1890	N/A	N/A
Job Posting (Size?)	50	225	100	450	250	N/A
Special Sizing	Contact Publicity Committee aichechicago@gmail.com					

For the purchase of a year ad, customers have the option of changing ads/jobs month to month.

Student and AIChE Member Related Postings are Free.

