



American Institute of Chemical Engineers Knoxville-Oak Ridge Section

For additional information see our Web site at: <http://www.ornl.gov/sci/aiche/>
Or contact: Linda Puckett, puckettlf@ornl.gov, (865)574-6984 or
Susan Seymour, Seymour@utk.edu, (865)974-2421

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November 2008 Meeting – Joint with ASEM

Date: Thursday, November 13, 2008
Cost: \$20
Location: Rothchild Catering & Conference Center, 8007 Kingston Pike, 690-0103

Menu: Buffet including lemon pepper chicken, salad, side dishes, bread, and dessert.

5:30 pm Executive Committee Meeting (All members welcome)
6:00 pm Dinner
7:00 pm Program – Ms. Kristen Baksa and Ms. Jill Hudson, Farragut High School,
Mining Intellectual Gold: Revolutionary, Not Evolutionary, Changes in Education

Abstract - As the growing need for future scientists and engineers became apparent, Farragut High School staff recognized the need to enhance student interest in science and engineering careers and expose students to real-life science beyond the classroom. FHS, in partnership with the University of Tennessee, Oak Ridge National Laboratory, and the Knoxville Zoo, has established a program to provide students research-based field experiences, opportunities to attend professional engineering and science meetings, participate in science and engineering competitions, and attend lectures by recognized scientists and engineers. The benefits to students, teachers, mentors, and the community are many, and student participation in the program has more than doubled during the last three years. This program can serve as a model for other Knox County Schools, but more industry partners will be necessary.

Bio – Ms. Kristen Baksa has been teaching chemistry at Farragut High School for 6 years and administering the Farragut High School Science Academy research program for 3 years. She has a BS in Medical Technology from Michigan State and a Masters of Public Health in Occupational/Environmental Safety and Health from UT. She worked as an industrial hygienist for 17 years prior to getting her teaching license.

Ms. Jill Hudson is the head of the Technology Engineering Education program at Farragut High School. Courses currently offered at Farragut include: Innovations and Inventions, Engineering Processes, Technological Systems, and Problems and Solutions in Technology. The state program framework will be changing next year to include more specific integration of STEM programs as well as college-level dual enrollment/credit courses. Ms. Hudson is currently collaborating with PSTCC on a dual enrollment plan. Ms. Hudson has been a teacher for 25 years, including 13 years in Knox County. She received a B.S. in Industrial Arts Education from UT-Knoxville, and a Masters in Vocational/Technical Education from MTSU. She is currently in the process of renovating and reorganizing shop areas of the FHS Career and Technical building in order to better accommodate an engineering/research lab, and a materials and processes lab.

Please make your reservations by noon, **November 12**, by contacting

Linda Puckett, puckettlf@ornl.gov, (865)574-6984 or
Susan Seymour, Seymour@utk.edu, (865)974-2421

***The Section will subsidize up to 15 students,
including graduate students***



"The shortest and surest way to live with honor in the world, is to be in reality what we would appear to be; all human virtues increase and strengthen themselves by the practice and experience of them."

*Socrates,
Greek philosopher,
469?-399 B.C.*

Nominations for 2009 Local Section Officers and Directors

Nominations for Local Section Officers and Directors are being solicited for the December election.

The following offices are elected each year:

Chair-Elect,
Secretary,
Treasurer, and
Two Directors.

The Chair-Elect acts on behalf of the Chair during his/her absence and automatically becomes the Chair at the end of the current Chair's term.

Secretary and Treasurer serve for one year. The Secretary maintains a record of the proceedings of the Section. The Treasurer is charged with the collection and disbursement of funds as

authorized by the Executive Committee. The Treasurer shall keep adequate records and present financial reports at the request of the Chair or the Executive Committee.

Directors serve for a two-year term and are members of the Executive Committee. The Directors duties are assigned by the Chair and typically include planning and organizing meetings.

If you are willing to serve your local section, please give your name to one of the current section officers.

Elections are in December and the terms begin in January 2009.

The University of Tennessee - History

Founded in 1794 as Blount College, the first nonsectarian college west of the Appalachians, The University of Tennessee today is the state's largest university and Land-Grant institution with about 17,000 undergraduates, 7,500 graduate and professional students, and a faculty of 1,600. Bachelor's degrees are offered in over 150 fields, master's degrees in 85, and doctoral degrees in 52.

Although a program entitled "chemical engineering" appeared in the University of Tennessee catalog as early as 1905, true chemical engineering courses were not offered until 1934, first in the

Department of Chemistry and two years later in a separate Department of Chemical Engineering. The first Chemical faculty member was Robert M. Boarts, a Ph.D. graduate of the University of Michigan and student of the legendary W.L. Badger. The Masters program was begun in 1935 and the Ph.D. program in 1949 as the first doctoral program in engineering offered by any institution in Tennessee. The undergraduate program in chemical engineering received its initial accreditation from the Engineers' Council for Professional Development (now known as ABET, the

Accreditation Board for Engineering and Technology) in 1939, making it one of the first four chemical engineering programs in the South to receive accreditation. (Programs at Georgia Tech and Virginia Tech were accredited in 1938, while those at Tennessee and Louisiana State were accredited in 1939). The program has been continuously accredited since that time.

(Excerpt from UTK web site:
<http://www.engr.utk.edu/cbe/pages/about/utk.html>)

VOL4STEM Meeting

An organizational meeting of the Volunteers for Science, Technology, Engineering & Math (Vols4STEM) was held at Hardin Valley Academy on October 30, 2008. Over 100 people attended, including Science, Technology, Engineering and Mathematics (STEM) professionals, teachers, principals, school board members, chamber of commerce representatives, and

owners/managers of local businesses. Vols4STEM is an umbrella organization that seeks to link STEM professionals and businesses with teachers to increase student's interest in STEM fields. One of the main goals is to create an interactive website that can help link STEM volunteers with local teachers. Some of the potential "needs" that were identified by teachers include speakers on technical topics, email "pen pals" for students,

workshops or other in-service opportunities for teachers, help with science clubs and other extra-curricular activities, field trips, and judges for science fairs. If you are willing to volunteer, please sign up at www.vols4stem.org.



"Everything comes to him who hustles while he waits."

*Thomas A. Edison,
American Inventor,
1847-1931*

New Job Posting

A new job posting for an entry level Chemical Engineer was posted on the Knoxville-Oak Ridge Local Section Area Jobs site (<http://www.ornl.gov/sci/aiche/jobs.html>).

Process Engineering Associates, LLC in Oak Ridge, Tennessee is currently seeking one individual for the position of Associate Process Safety Engineer (entry level).

Job responsibilities will include making one week trips with one of our veteran meeting facilitators, followed by 2-3 weeks of work in our Oak Ridge office creating a report. Travel requirements may be up to 50% during peak periods. During the on-site visit to our clients, responsibilities are to act as a scribe during the meeting and input key items,

conclusions, notes, etc. into an electronic table via a laptop computer. The meetings are called Process Hazard Analyses (PHAs) and are sometimes also referred to as Hazard and Operability reviews (HAZOPs). Duties may also include assisting in the performance of Process Safety Management (PSM) Compliance Audits, assisting clients in developing portions of their PSM programs, and providing other PSM-related services. Clients are primarily in the petroleum refining and commercial chemical production markets.

Qualifications
Minimum requirements include a B.S. in chemical engineering. Some level of plant operations experience is preferred but not required.

Location
Employment will be based

out of the Oak Ridge, TN office but the job will require travel, primarily within the U.S.

Compensation
Pay rate will be based on qualifications and experience.

About Process Engineering Associates, LLC
Process Engineering Associates, LLC is a world class specialty engineering company focused solely on applied chemical engineering. Refer to www.processengr.com for additional information.

Contact
Qualified applicants should send resumes via email to info@processengr.com

Activities Calendar

Date	Time	Topic	Speaker	Location
Nov 13	6:00 PM	Mining Intellectual Gold: Revolutionary, Not Evolutionary, Changes in Education – Joint with ASEM	Kristen Baksa and Jill Hudson	Rothchild Catering & Conference Center, 8007 Kingston Pike
Nov 16-21		2008 AIChE Annual Meeting		Philadelphia, PA
Dec 9	6:00 PM	ORNL Boiler Project	TBD	Calhoun's, Turkey Creek
Jan 13	6:00 PM	TBD	TBD	Calhoun's, Turkey Creek
Feb	6:00 PM	Fuel Cycle Status - Joint with ANS	TBD	TBD
Mar 10	6:00 PM	Biodiesel Production - Nu-Energie	TBD	Calhoun's, Turkey Creek
Apr	6:00 PM	Student Awards	TBD	The University of TN
May	6:00 PM	Kimberly-Clark Plant Tour	TBD	TBD

Sponsoring Opportunities

We continue to accept advertising in the newsletter in order to provide funds to support student participation in the meetings.

Rates per newsletter are:

\$80 full-page advertisement

\$45 half-page advertisement

\$25 quarter-page advertisement

The section will also continue to accept individual or corporate sponsors to provide student meals at Section meetings. The sponsor

will be recognized at the meeting and in the Newsletter.

The cost to sponsor one meeting is **\$200**. It's a great way to encourage students to attend the local meetings and become future members in the Institute!



Reality is merely an illusion, albeit a very persistent one.

*Albert Einstein,
German Physicist,
1879-1955*

Officers

Chair:	Michael Hollander	300-5645	enviroms@att.net
Chair-Elect:	TBD		
Secretary:	David DePaoli	574-6817	depaolidw@ornl.gov
Treasurer:	Paul Taylor	574-1965	taylorpa@ornl.gov
Directors:	Mark Swientoniewski	574-1150	swientoniemd@bechteljacobs.org
Term ends 2008	Steve McCoy	220-4730	steven.mccoy@ttnus.com
Term ends 2008	Ed Alperin	694-7335	Ed.alperin@shawgrp.com
Term ends 2009	Stuart Daw	946-1341	dawcs@ornl.gov
Term ends 2009	Tom Busmann	694-7517	tbusmann@focusenv.com
Membership:	Paul Taylor	574-1965	taylorpa@ornl.gov
Newsletter:	Linda Puckett	574-6984	puckettlf@ornl.gov
Webmaster:	Ben Lewis	574-4091	lewisbejr@ornl.gov
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We're on the Web!

See us at:

<http://www.ornl.gov/sci/aiche/>

About Our Organization...AICHE Global

In today's global economy, chemical engineers need access to information and support no matter where they live and work. With members in 92 countries, AICHE provides a global network of professionals with the support and technical information they need.

The national AICHE website has been updated to provide access to Arabic, Chinese, French, German, Japanese, Korean, Portuguese, and Spanish speaking members. The new AICHE Global website (<http://www.aiche.org/aicheglobal/>) provides links to other chemical engineering societies around the world

along with major international research groups, global programs for students, departments of Chemical Engineering at universities in the US and around the globe, plus sources of information on trends in the global chemical industry. You can also connect with colleagues working on the key challenges of our times through the Institute for Sustainability, the Society for Biological Engineering and the AICHE Energy Initiative.

To better serve our increasingly global professional engineering community, AICHE delivers a wide range of on-line resources including the

AICHE eLibrary, on-line discussion forums, an on-line membership directory, global Sections in many countries and more. What's more, your dues (links to International dues PDF) as a global member could be lower depending upon where you live.

(Excerpt from <http://www.aiche.org/aicheglobal/>)

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