



## American Institute of Chemical Engineers Knoxville-Oak Ridge Section

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For additional information see our Web site at: <http://www.ornl.gov/sci/aiche/>  
Or contact: Linda Puckett, [puckettlf@ornl.gov](mailto:puckettlf@ornl.gov), (865)574-6147 or  
Lori Daniels, [lori.daniels@utk.edu](mailto:lori.daniels@utk.edu), (865)974-2421

## September 2009 Meeting

Date: Thursday, September 17, 2009  
Cost: \$15  
Location: Estilita's, West End Avenue, Farragut TN (northern extension of Concord Road - off Kingston Pike)

Menu: Order from regular menu.

5:30 pm Executive Committee Meeting (All members welcome)  
6:00 pm Dinner  
7:00 pm Program - **Dr. Robert M. "Pete" Counce** "A Teaching Approach for Conceptual Design of Chemical Processes"

**Abstract** - The conceptual design problem for chemical processes is difficult because many alternatives may need to be considered and there is only a small chance that any idea at the conceptual level will result in the design and operation of the process under consideration. Pete will discuss a systematic procedure for teaching conceptual design of chemical processes to undergraduate chemical engineers. The goal is to select the best process flowsheet and estimate optimum design conditions.

**Bio** – Dr. Counce is professor of Chemical Engineering at the University of Tennessee and has done research and development work at the Oak Ridge National Laboratory for over 35 years. He holds B.S, M.S., and Ph.D. degrees. He has authored or co-authored over 100 technical papers and reports. He is a Fellow in the American Institute of Chemical Engineers and is a member of Alpha Chi Sigma.

He is especially active in applying green engineering approaches to design and modification of industrial processes. He teaches Process Design and Green Engineering at UT. He directs "Design Internship in Green Engineering", an honor's process design course focusing on authentic industrial problems. His research typically involves advancing fundamental knowledge while focusing on providing solutions to industrial needs. He has been involved in radiochemical separations throughout his career. He won the Ferris Award for Combined Teaching and Research from UT College of Engineering in 2008. In 2000 he received the Leon and Nancy Cole Superior Teaching Award from the College of Engineering for his work in process design. He is involved in a wide variety of activities in the green engineering area and in industrial separations, including recovery and recycle of various process materials.

Please make your reservations by noon, **September 17**, by contacting

Linda Puckett, [puckettlf@ornl.gov](mailto:puckettlf@ornl.gov), (865)574-6147 or  
Lori Daniels, [lori.daniels@utk.edu](mailto:lori.daniels@utk.edu), (865)974-2421

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

## Activities Calendar

Date	Time	Topic	Speaker	Location
Oct 16	6:00 PM	Hg in coal plant exhaust	TBD	TBD
Nov 8-12		2009 AIChE Annual Meeting		Nashville, TN
Nov 19	6:00 PM	TVA Green Power Program	TBD	TBD
Dec 17	6:00 PM	TBD	TBD	TBD
Jan	6:00 PM	TBD	TBD	TBD
Feb	6:00 PM	Joint with ANS	TBD	TBD
Mar	6:00 PM	TBD	TBD	TBD
Apr	6:00 PM	U.T. Student Awards Night	TBD	TBD
May	6:00 PM	TBD	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!



(Image courtesy of NASA at [http://www.nasa.gov/mission\\_pages/hubble/main/index.html](http://www.nasa.gov/mission_pages/hubble/main/index.html))

“What is a scientist after all?  
It is a curious man looking through a keyhole, the keyhole of nature, trying to know what's going on. “

**Jacques Yves Cousteau,  
French explorer,  
1919-1997**

## Officers

<b>Chair:</b>	Michael Hollander	300-5645	<a href="mailto:enviroms@att.net">enviroms@att.net</a>
<b>Chair-Elect:</b>	Jacob Hutton	560-1706	<a href="mailto:jacob.hutton@power.alstom.com">jacob.hutton@power.alstom.com</a>
<b>Secretary:</b>	David DePaoli	574-6817	<a href="mailto:depaolidw@ornl.gov">depaolidw@ornl.gov</a>
<b>Treasurer:</b>	Paul Taylor	574-1965	<a href="mailto:taylorpa@ornl.gov">taylorpa@ornl.gov</a>
<b>Directors:</b>	Sharon Robinson	574-1150	<a href="mailto:robinsonsm@ornl.gov">robinsonsm@ornl.gov</a>
<b>Term ends 2010</b>	Mark Swientoniewski	220-4730	<a href="mailto:swientoniemd@bechteljacobs.org">swientoniemd@bechteljacobs.org</a>
<b>Term ends 2010</b>	Ed Alperin	694-7335	<a href="mailto:Ed.alperin@shawgrp.com">Ed.alperin@shawgrp.com</a>
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<b>Term ends 2009</b>	Tom Busmann	694-7517	<a href="mailto:tbusmann@focusenv.com">tbusmann@focusenv.com</a>
<b>Membership:</b>	Paul Taylor	574-1965	<a href="mailto:taylorpa@ornl.gov">taylorpa@ornl.gov</a>
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We're on the Web!

See us at:

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

## About Our Organization...Financial Benefits/Professional Services

As an AIChE member, you have many advantages. AIChE offers its members identity protection, UPS, and car rental discounts, insurances plans, and many other financial services. You can learn more about these and your professional support tools by clicking the links below!

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(Excerpt from the National AIChE web site at:  
<http://www.aiche.org/MemberCenter/FinancialBenefits.aspx> )

The local Section provided \$100 to each of two students from the U.T. Chemical and Biomolecular Engineering Department to attend and present posters at the 16th Symposium on Separation Science and Technology for Energy Applications, October 18-22, 2009 in Gatlinburg.

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