

THE PIPELINE

Letter From the Chair: Lane Daley

Volume 20, Issue 13
November 2014

Dear readers, it has been a wonderful year for AIChE in East Tennessee, but it is time for this year's officers to step down and let new candidates take our place. At this time, it seems appropriate to recognize all of the wonderful things our local section has accomplished this year. Here are the East Tennessee AIChE top ten in 2014:

- Spiffy, new website (check it out [here!](#))
- Reinstate the YP group
- Start the outreach committee
- Diverse program schedule with speakers from outside of Eastman
- Adopted new banners
- Continue to financially support local STEM field programs and events
- Gain a new satellite location at TempurSealy
- First, annual new hire welcome and information dinner
- Hosted a successful short course on TRIZ Problem Solving
- First recipient of the Founder's Award (to be announced!)

Thank you to all of our officers, committee members, and participants for making this year a success! If you are an AIChE member, please keep an eye on your inbox and **remember to vote** in your next officer group so we have continued success!



Newsletter Spotlight

PE Review Course Announcement

YP Program Recap

October Program Announcement

Professional Engineering Exam Review Course

the middle of April, and at the end of October. In the past, the East Tennessee Section of AIChE has offered a review course for those planning to sit for the exam. The winter months seem to be more conducive to studying for the exam, so the course has traditionally been offered in February and March. Many who do not plan to sit for the exam until October also attend the class, however, in order to refresh their memories about the topics they will be reviewing.

If you are interested in attending this course, please contact Joe Parker at 423-229-3850 (e-mail jparker@eastman.com) so we can determine if there is sufficient interest to hold the course next year.

The class would meet one night a week for six weeks; each week, a different subject would be reviewed. The subjects that would be covered by the course are:

Mass and Energy Balances

Thermodynamics

Fluid Mechanics

Heat Transfer

Mass Transfer

Reaction Kinetics

Each session would last two to three hours. The course would begin around the first week in February 2015.

The cost of the course is \$15 for members, \$75 for non-members. If you are not a member, a local section officer will be happy to [sponsor you](#) for \$59 membership. Contact Lane Daley at 423-276-9061 or adaley@eastman.com for more information about becoming a member of AIChE.

EVEN IF YOU ALREADY HOLD AN ENGINEERING LICENSE, YOU MAY WISH TO ATTEND THIS COURSE! The State of Tennessee requires each licensed engineer to obtain 24 Professional Development Hours (PDHs) over a two-year period in order to retain his or her engineering license. The East Tennessee Section of AIChE will award PDHs according to the number of class hours attended. Students who attend all sessions of the course will receive 15 PDHs, more than enough to satisfy the requirement for one year.

Young Professional Group Program Recap: The Career Advancement Ladder, Mark Cox, Eastman Chemical Company



During this year, the Young Professionals Committee has been offering different events to promote networking between young chemical engineers and experienced chemical engineers, in order to build the bridge between college and professional life. For the October program, we took it to the next level, having Eastman's Senior Vice President and Chief Manufacturing and Engineering Officer, Mark Cox, to expand over the "Career Advancement Ladder" topic. With a well-mixed audience of young and experience professionals, Mark was able to discuss the key aspects of "Life Transitions", and its associated and unavoidable "Change". It was clearly agreed that with the right Life Balance and Tactics of

Mark Cox, Senior
Vice President and
Chief Manufacturing
& Engineering
Officer, Eastman
Chemical Company

**“October” AIChE Program: Catalyst Bed Selection
Gary Gildert, Johnson Matthey, Inc.
Tuesday, November 4, 2014, 11:30am-1:00pm
Eastman B-150 Auditorium**

Abstract:

Catalysts are essential in oil refining and in the production of petrochemicals. In a typical refinery, each crude oil fraction passes through two to six different catalyst beds in the transformation to gasoline, diesel, or petrochemical feedstock. At least one of these catalyst beds contains hydrogenation catalyst. Additional catalyst is required to convert hydrocarbon feedstocks to refined petrochemicals. Specifying the right catalyst bed can mean the difference between years of profitable, trouble-free operation and continuously dealing with “issues” and “opportunities for improvement.”

This program outlines the eight basic steps in specifying a hydrogenation catalyst: performance specification, process configuration, catalyst selection, mass balance, heat balance, calculating catalyst volume, selecting the reactor diameter, and estimating life.

About the Speaker:

Gary R. Gildert has worked in the hydrocarbon processing industry for over 30 years in plant operations, capital projects, R&D, sales, technical support, and entrepreneurship. He is an internationally recognized expert in hydro treating with an impressive record of patents, publications, and international presentations. Gary joined Johnson Matthey in 2008 and is the Senior Principal Process Engineer with the Chemical Catalyst group in Process Technologies where he provides application support for customers and assists in new product development. Gary is the Past Chair of the South Texas Section of the American Institute of Chemical Engineers.

NON-EASTMAN EMPLOYEES, PLEASE CONTACT TIM NOLEN
(TNOLEN@EASTMAN.COM) TO ARRANGE FOR A VISITOR'S PASS.

Eastern Tennessee Local Section

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**2014 Local Section Officers, Directors, and
Support Staff**

Chair	Lane Daley	276-9061
Chair-Elect and Program Committee Chair	Braxton Sluder	782-6570

We're on the Web!

AIChE



Secretary	Daniel Crandall	229-2979
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Corporate Relations Coordinator	Braxton Sluder	782-6570
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