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# AIChE® The Pipeline

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**Volume 18 Issue 2**

*A. Shaikh, M. Kettner, Co-Editors*

**February 2011**

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## **NEWSLETTER OF THE EAST TENNESSEE SECTION OF AIChE**

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**Local section website**

<http://www.tnengineering.net/AICHE/>

**Local section mailing address**

PO Box 7448 Kingsport, TN 37664-7448

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## **Upcoming February Program**

“Process Heat Transfer 101- The Practical and Theoretical Basics”

**Tuesday, February 22<sup>nd</sup>, 11:30am to 1pm in the B150 Multimedia Room.**

### **Abstract**

Understanding basic heat transfer concepts is key to safe plant operation, and can also reduce plant operating and maintenance costs. Join Brad Killen as he discusses basic heat transfer theory, heat exchanger design, condensers, reboilers, fouling and troubleshooting.

### **About Our Speaker**



Brad Killen is a Principal Chemical Engineer in Process Engineering. He serves as Eastman's Corporate Heat Transfer Specialist. He graduated with a BS from Tennessee Technological University in 1993 and has worked primarily in Process Engineering for 17 years specializing in heat exchanger design, rating, and troubleshooting. He is Eastman's Representative to Heat Transfer Research Institute (HTRI) which is a member funded Research consortia that performs research and develops heat transfer rating software.

# Recap of January Program

*Tracey Gentry*

Dealing with Difficult People  
Presented by Joanne Ward



On January 20, Joanne Ward, instructor and coach in Eastman's Learning and Performance Improvement Department, gave a presentation on "Dealing with Difficult People". One insight with regards to dealing with difficult people is knowing that your mindset determines your response. Look at conflict as an opportunity rather than a hazard or obstacle. Know your natural response. Pause before acting and remember that difficult people make you think backwards. Though you cannot change the personality of a difficult person, you can change their behavior by changing the way you react to them. Joanne highlighted four pitfalls to avoid when dealing with a difficult person and five steps to stopping difficult behavior.

## Four Pitfalls to Avoid in Dealing with Difficult People

1. Do not excuse their behavior
2. Do not ignore their behavior
3. Do not believe you can change their personality (but know you can change their behavior by the way you react to them).
4. Do not cooperate with the difficult person such that negative behavior is rewarded

## Five Steps to Stopping Difficult Behavior

1. Must stand up ( "I am here to be taken seriously")
2. Talk straight (7% words/38% tone/55% body language)
3. Listen to them
4. Avoid "Triangling"
5. Move to problem solving. Remember to choose words that indicate that you do not want to continue the battle by using "I" statements. For example: "When you \_\_\_\_, I feel \_\_\_\_\_. As a result \_\_\_\_\_."

## Letter from the Chair

*Patrice Riesenberg*

We are in the home stretch of our program year themed “Enhancing Professional Excellence”. See the many exciting details below! Thank you once again for all of our volunteer speakers and staff that are working hard to help the local AIChE Section.

Program	Speaker	Date
Heat Transfer Basics	Brad Killen, Eastman	Feb 22, 2011
Distillation 4 Hour Seminar	Dan Summers, Sulzer Chemtech	Mar 08, 2011
Common safety issues	Pete Lodol, Eastman	Mar 2011
Global Perspectives	Greg W. Nelson, Eastman	Apr 2011
A Fun (but Educational) History of Chemistry joint meeting with ACS celebrating the International Year of Chemistry	Dr. Al Hazari, UTK Professor of Chemistry	May 2011

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## Upcoming March Program

### Distillation Seminar

East TN AIChE is sponsoring a four hour Distillation Seminar on March 8, 2011 in the B150 Multimedia Room by Dan Summers of Sulzer Chemtech. 4 PDH credits will be offered for the morning seminar. There will also potentially be an open forum for advanced topics afterwards. The seminar is open to 70 people. Because of this, it will be offered to AIChE members on a first-come-first-served basis starting 2/9. Then starting on 2/16, it will be offered to non-members. Please RSVP to Patrice Riesenberg responsibly, and let Patrice know if your plans change. Also, to folks outside of Eastman, while this seminar is too long to offer teleconferencing, we will get visitor passes and escorts to bring you inside to attend the seminar. Thank you!

### BIOGRAPHY

Daniel R. Summers, P.E.

Dan Summers is the Tray Technology Manager for Sulzer Chemtech, USA at their Tulsa, Oklahoma facility. He has been involved with Separations ever since he graduated with a Bachelors degree in Chemical Engineering from the University at Buffalo in 1977. He has also worked for Union Carbide, Praxair, UOP, Stone & Webster and Nutter Engineering. He has been involved in the design, operation, and troubleshooting of all forms of tower internals in the hydrocarbon, ethanol, specialty chemical, refining, air separation, and natural gas industries. He has authored over 45 papers on the topic of Distillation and is the holder of one US Patent (for a Modified Bubble Cap Tray). He has been a member of AIChE his entire career, he is a registered professional engineer and is the chair of FRI's Design Practices Committee.

Sulzer Distillation Seminar  
Kingsport, TN  
*Tuesday March 8, 2011*

07:45 am	Arrival / Light Snacks
08:15 am	Distillation 101
09:00 am	Basic Tray Training
09:45 am	Basic Packing and Distributor Training
10:30 am	Break
10:45 am	Myths about High Capacity Trays
11:15 am	Low Liquid Load Design Techniques
11:45 am	How to Properly Evaluate & Document Tower Performance
12:15 pm	Q&A Follow-up
12:30 pm	Finish and Lunch
1:00 pm – 4:00 pm	Open Forum for Discussion

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## Company Contact list update

*Rich Berg*

Our company contact list is already bearing fruit. In December, our BAE company contact (and current AIChE Treasurer) Braxton Sluder worked with officers at Eastman to establish a remote link to Pete Lodol's safety program. Congratulations to the new BAE engineers who are now "plugged in" to our programs!

If your non-Eastman company has chemical engineers on staff, please consider being a company contact. As the "focal point" for AIChE at your business, you could assist us in disseminating current, targeted information within your company as well as to other chemical engineers in the NE Tennessee/SW Virginia region. These duties could include:

- 1) Informing us about new engineers at your company so that we can make sure they are included in our electronic distribution list
- 2) Encouraging chemical engineers at your company to participate in our Local Section meetings (typically lunch time seminars), either in person or via a remote link
- 3) Hosting/coordinating a tour or other AIChE event at your place of employment

The expected time commitment for this is pretty minimal, but it can be as involved as you wish to make it, and you would be providing a valuable service to our Local Section. If you would like to volunteer to be a company contact, or you would like more information about becoming a company contact, please feel free to contact Rich Berg (423-229-7393, [rberg@eastman.com](mailto:rberg@eastman.com)).

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## Information from National AIChE

*Steve Miller*

### **AIChE** [Pay Your Dues](#)

Renew your yearly membership for 2011.



### [Save the Date: 2011 Spring Meeting & 7th Global Congress on Process Safety](#)

Don't miss the premier technical conference for Chemical Engineers working in industry, March 13-17 in Chicago, IL. Program highlights include invited featured speakers, the 7th Global Congress on Process Safety, the 23rd Ethylene Producers Conference, the 11th Natural Gas Utilization Conference, the 14th Topical Conference on Refinery Processing and much more.



### [Salary Survey](#)

The CEP 2011 Chemical Engineering Employment Survey is now being conducted. If you receive an invitation, please participate. Your responses help provide the most accurate picture of trends in chemical engineering employment. Look for the results in CEP in June.

### **SmartBrief** [Sign up for AIChE SmartBrief](#)

Your weekly guide to news and information for Chemical Engineers. Every Tuesday, AIChE SmartBrief delivers news and technical information selected especially for chemical engineers. This FREE e-newsletter is available simply by clicking on the link above and completing the subscription form.

## CONFERENCES



### **OTC's Arctic Technology Conference (ATC)**

Houston, TX, February 7-9, 2011

<http://arctictechnologyconference.org/>.



### **AIChE Spring Meeting**

Chicago, IL, March 13-17, 2011

<http://www.aiche.org/Conferences/SpringMeeting/index.aspx>



### **7<sup>th</sup> Global Congress on Process Safety**

Chicago, IL, March 13-16, 2011

<http://www.aiche.org/Conferences/Specialty/GCPS.aspx>

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## Continuing Education – Professional Development Hours Available



Eastman Employees Only: Are you a professional engineer seeking to meet state continuing education requirements for professional development hours (PDH's)? If so, please visit this website for a list of potentially eligible courses and more information: [Continuing Education for Professionals](#)

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## Calendar of upcoming events



Several great programs are planned for the upcoming programming year. Topics include:

- Heat Transfer Basics, Brad Killen, February 22, 2011
- Distillation Seminar, Dan Summers (Sulzer Chemtech), March 8, 2011
- Common Safety Issues, Pete Lodal, March 2011
- AIChE Spring Meeting, March 13-17, 2011, Chicago, IL
- Globalization and Eastman, Greg W. Nelson, April 2011

## Keep Up With the Local Section Online

Up-to-date information about the East Tennessee Section of the American Institute of Chemical Engineers can be found [on our website \(www.tnengineering.net/AICHE\)](http://www.tnengineering.net/AICHE). The website includes the Local Section Bylaws, List of Officers from 1945 to present, and an archive of Pipeline Newsletters - to mention only a few aspects of the information covered. Photos from past events can be found, along with contact information for the Local Board. Review the site occasionally and keep up with the local section!

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### 2011 Local Section Officers, Directors, & Support Staff

<b>Chair:</b>	Patrice Riesenber	229-8980
<b>Chair-Elect and Program Committee Chair:</b>	Stephen Miller	224-7350
<b>Secretary:</b>	Rebecca Glaspie	229-6144
<b>Treasurer:</b>	Braxton Sluder	578-6225
<b>Directors:</b>	Mark Harrison	229-6952
	Jennifer Mize	224-7018
	Lauren Moyer	229-2208
	Tim Nolen	229-8287
<b>Local Section Webmaster:</b>	Mark Shelton	229-4753
<b>Short-Course Coordinator:</b>	Joe Parker	229-3850
<b>Professional Development Coordinator:</b>	Ashfaq Shaikh/Mark Kettner	229-8840
<b>AIChE Pipeline Newsletter Co-Editors:</b>	Joey Watson	229-6486
<b>ETEAC Representative:</b>		

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### 2011 Local Company Contacts

<b>Eastman Chemical Company</b>	Patrice Riesenber, P.E. 423-229-8980, <a href="mailto:patrice@eastman.com">patrice@eastman.com</a>
<b>BAE Systems, Ordnance Systems Inc.</b>	Braxton Sluder, Process Chemical Engineer Acids Manufacturing 423-578-6225, <a href="mailto:braxton.sluder@baesystems.com">braxton.sluder@baesystems.com</a>
<b>Nuclear Fuel Services Inc., a subsidiary of The Babcock &amp; Wilcox Company</b>	Natalie Robertson 423-743-2526, <a href="mailto:nsrobertson@nuclearfuelservices.com">nsrobertson@nuclearfuelservices.com</a>
<b>Domtar</b>	Rhonda Smith, Process Control Engineer 423-392-2797, <a href="mailto:Rhonda.Smith@domtar.com">Rhonda.Smith@domtar.com</a>

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