



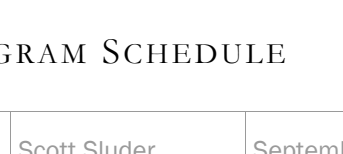
THE PIPELINE

LETTER FROM THE CHAIR

TENI BUTLER

Spring is in the air! It's a time when we all try to revamp our New Years' resolutions that were difficult to keep through the long, cold, and rainy winter months. Every year I resolve to become a more informed human, and I simultaneously struggle to sort through the myriad content that is available in today's world at the click of a mouse, the swipe of a finger, the vocal request to Alexa or Siri. Being a highly informed citizen of the world can be as daunting a task as your book list, magazine article pile, podcast bank, and daily rundown news sources continue to grow and multiply. Finding a source you trust for general world and national news may be challenging, but finding the information you need to remain an informed chemical engineering professional doesn't have to be! AIChE, both locally and globally, works hard to bring relevant and helpful information to

our membership and to inform the initiatives that effect chemical engineers and chemical engineering industries. Whether that is bringing you [insights from notable industry professionals in video](#) and [podcast interview series](#), designing local programming and courses with relevant topics (see additional info below!), or keeping you up to date on the latest technological advancements through [publications like CEP](#), AIChE at both the local and global level is a highly relevant contributor to your informed career success. [Refresh your memory on other benefits](#) of being a member of AIChE and considering [joining or renewing now](#) to help expand your knowledge.



PROGRAMS

2018 - 2019 PROGRAM SCHEDULE

| | | |
|---|---------------------------------|--------------|
| Getting Beyond Gasoline | Scott Sluder | September 19 |
| Thermal Oxidizers for Halogens and Acid Gases | Jim Stone (Anguil) | October 24 |
| Kingsport Raw Water Project | Niki Ensor | November 13 |
| Building the First "Steamship" in History | John Laurence Busch | December 5 |
| Driving to Net 0 - How You can Make a Difference | David Hrivnak (ENERG3) | January 15 |
| AIChE - National, Local, Global | Monica Mellinger (AIChE Global) | February 12 |
| Crystallization Techniques | Sam Bardoff (GEA Group) | March 12 |
| Process Safety - Can we really learn from the experience of others? | Pete Lodal (Eastman) | April 9 |
| The Impact of Shale Gas and Oil on the Chemical Industry | Jeff Sirola (Purdue/EMN) | May 14 |

UPCOMING MAY PROGRAM

THE IMPACT OF SHALE GAS AND OIL ON THE CHEMICAL INDUSTRY

Lower alkanes and aromatics are useful as both fuels and chemical raw materials. Occasional supply disruptions constrain availability, but also encourage investigation of alternative feedstocks and chemistries. Recent new technologies to produce unconventional gas and oil sources from tight shale formations significantly increased availability of both methane and condensate, radically altered process economics, resulted in the construction of much new intermediates capacity, and multiplied the ways traditional and alternative chemistries might be exploited. This presentation will outline how natural gas components became useful as chemical feedstocks, how government regulations occasionally led to perturbations in availability and price, and how supply crises led to the development of alternative chemistries, catalysts, and ultimately the exploitation of shale resources. More specifically, will be discussed how excess coproducts, especially condensate, from increasing shale gas and oil production for energy are having significant unexpected impacts on the chemical process industries and opportunities for new process chemistry research.

Jeff Sirola retired in 2011 as a Technology Fellow at Eastman Chemical Company in Kingsport, Tennessee, where he had worked for more than 39 years. Having failed retirement, he held half-time positions for six years as Distinguished Service Professor of Sustainable Energy Systems at Carnegie Mellon University and Professor of Engineering Practice at Purdue University, teaching process design, process synthesis, and industrial chemical technology. Starting in the Fall of 2017, he now teaches full-time at Purdue but maintains a Special Faculty position at CMU. Sirola received a BS in chemical engineering from the University of Utah in 1967 and a PhD in chemical engineering from the University of Wisconsin-Madison in 1970. His areas of interest include chemical process synthesis, computer-aided process systems engineering, design theory and methodology, technology assessment, resource conservation, sustainable development, carbon management, and chemical engineering education. Sirola is a member of the National Academy of Engineering and was the 2005 President of the American Institute of Chemical Engineers.

APRIL PROGRAM SUMMARY

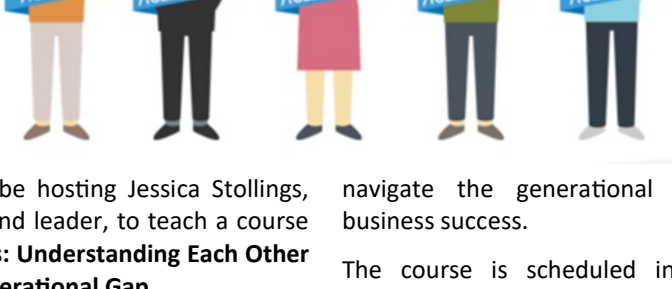
PROCESS SAFETY - CAN WE REALLY LEARN FROM

Pete Lodal presented March's safety-focused program, "Learning from the Mistakes of Others." In the presentation, Pete recapped a safety incident felt 'round the world - or at least one that heavily influenced safety in industry moving forward, the Triangle Shirtwaist Fire of March 25th, 1911. The fire that killed 146 of 500 employees is one of the deadliest in US History. Pete explained the immediate actions taken after the fire to prevent this type of disaster from happening again, actions taken by other industries, including those of Kodak, and the effects of such actions on the safety performance of the

company. Pete reiterated the importance of upholding the highest safety standards, no matter the circumstances, and learning from mistakes to be even safer in the future.

In light of Pete's important presentation, AIChE challenges you to think critically about all that you do at work, at home, while driving, while interacting with others. What accidents or potential accidents have you seen lately? Are there any insights that can be gleaned from them? Have the incidents and learnings been appropriately communicated?

REGENERATIONS SHORT COURSE



The chapter will be hosting Jessica Stollings, speaker, author and leader, to teach a course on **ReGenerations: Understanding Each Other to Bridge the Generational Gap**.

navigate the generational shift to drive business success.

During one of the most significant generational shifts in history, companies are reporting conflict across age and experience. Few have a plan to manage, much less, optimize these dynamics. This creates untapped potential to differentiate your organization. The real question is: how do you combine different perspectives to help better outcomes? ReGenerations will build you

The course is scheduled in Kingsport for Thursday, May 16th 8am-12pm. Eastman employees should use MyLearningLab to register. Non-Eastman employees should use the contact info below to sign up. Course cost is approx. \$400 and Chick fil A Breakfast is included. Spots are limited so sign up soon! The training will provide PDH hours. NewsArticle ByLine

If you have any questions, contact Laura Perez (laura.perezcuevas@eastman.com).

OUTREACH COMMITTEE

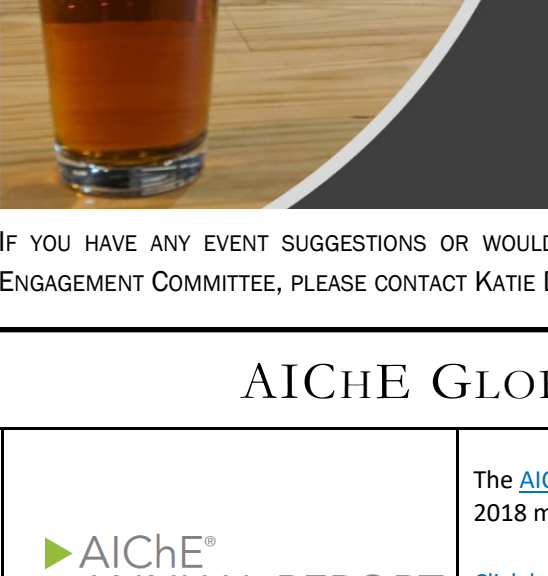
Are you looking for a way to be connected to AIChE? Consider volunteering! AIChE has launched a program called AIChE Engage that helps connect members locally and globally, providing volunteer opportunities, directories, and discussion boards. The volunteer opportunities range from coordinating an event, writing a blog post, and judging a competition. If you are interested in learning more about AIChE Engage, visit engage.aidche.org/home and explore the site. Feel free to email Angelina Ortiz with any questions.



IF YOU HAVE ANY EVENT SUGGESTIONS OR WOULD LIKE TO VOLUNTEER FOR THE OUTREACH COMMITTEE, PLEASE CONTACT ANGELINA ORTIZ AT ANGELINA.ORTIZ@EASTMAN.COM.

PROFESSIONAL ENGAGEMENT COMMITTEE

The PEC Committee will be hosting brewing events for the second quarter! One of our events will feature local homebrewers and their beers. Attendees will be able to sample the beer and ask the brewers about their process (which some may prefer to keep secret). The second event will be a brewery tour of the recently opened Bays Mountain Brewery in Kingsport, TN where you can learn all about the chemical process and controls involved in beer production on a larger scale. We hope you can join us!



AIChE Brewing Events

Homebrew Tasting
235 Wiltshire Dr, Gray
*Friday, May 24th
*4:00 PM

Bays Mountain Brewery Tour
154 Commerce St, Kingsport
Thursday, May 30th
6:00 PM

*Preliminary plan date, subject to change based on brewer availability

IF YOU HAVE ANY EVENT SUGGESTIONS OR WOULD LIKE TO VOLUNTEER FOR THE PROFESSIONAL ENGAGEMENT COMMITTEE, PLEASE CONTACT KATIE DEVIN AT KJDEVIN@EASTMAN.COM.

AICHE GLOBAL NEWS

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| | <p>The AIChE Annual Report for 2018 is now available. 2018 marked the 110th anniversary of AIChE!</p> <p>Click here to learn more about AIChE's strategic plan to continue creating value for members, for the profession, and for society in the future.</p> |
| | <p>Did you know that AIChE has its own podcast? Check it out on SoundCloud, or wherever you get your podcasts!</p> <p>To learn more about the Doing a World of Good® campaign, visit http://www.doingaworldofgood.org/</p> |
| | <p>The Climate Solutions Community was officially established March 31, 2019 under AIChE's Institute for Sustainability (IFS).</p> <p>To learn more, please email Steering Committee Chair Tom Rehm (tom@tomrehm.com)</p> |

IF YOU HAVE SUGGESTIONS FOR GLOBAL AIChE NEWS THAT YOU WOULD LIKE TO SEE FEATURED IN OUR NEWSLETTER, PLEASE EMAIL TENI BUTLER TRBUTLER@EASTMAN.COM.

2019 LOCAL SECTION OFFICERS, DIRECTORS, AND SUPPORT STAFF

| | | |
|---|------------------|--|
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| Short-Course Coordinator and Fundraising Chair | David Scanlan | David.Scanlan@eastman.com |
| Outreach Committee Chair | Angelina Ortiz | Angelina.Ortiz@eastman.com |
| Professional Engagement Committee Chair | Katie Devin | kjdevin@eastman.com |
| Membership Committee Chair | Steve Miller | smmiller@eastman.com |
| Newsletter Editor | Alexandra Kleven | akleven@eastman.com |

LOCAL COMPANY CONTACTS

| | |
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| Domtar | Rhonda Smith rhonda.smith@domtar.com |

VISIT US ONLINE!

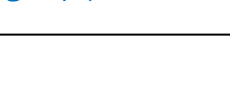
WEBSITE

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All past presentations are available on our website!



AIChE East TN



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