



THE PIPELINE

LETTER FROM THE CHAIR

TENI BUTLER

As we move further into 2019, I want to take some space and share with you our targets for the year. We have [excellent leadership](#) who are prepared to take on the challenge of synthesizing the diverse needs of our membership into meaningful programs, events, and development opportunities.

We have plans to provide 9 programs – 2 very successful ones have already occurred – headed and coordinated by our Programs Committee; 4 social/networking events through our Professional Engagement Committee that will promote connections among members and transfer of knowledge; 4 community/STEAM outreach events planned and hosted by our Outreach Committee (one complete); 2 professional development events brought to you again by the Professional Engagement Committee; and 2 short courses from our Fundraising

Committee (one technical development one professional development).

I hope that you will be considering joining us for these exciting opportunities and taking advantage of the enrichment that our dedicated volunteer board's planning can bring to both your personal and your professional lives. If you are interested in joining any of these committees and shaping the events that proceed from them, please reach out to any of your [local section officers](#) to get more information on the activities and responsibilities of our 5 great Local Section Committees. I would also like to remind everyone that the majority of our past presentations are available on our [local section website](#), along with older additions of The Pipeline. [Please take a moment to join or re-new your global and local section membership today!](#)



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
Title TBD	Jeff Sirola (Purdue/EMN)	May 14

UPCOMING MARCH PROGRAM

CRYSTALLIZATION TECHNIQUES

GEA's business area "Solutions" specializes in the design and development of process solutions for the dairy, brewery, food, pharmaceutical, and chemical industries. GEA is recognized as a world leader within liquid processing, concentration (membrane systems, evaporation, and crystallization), industrial drying, powder processing and handling, emission control, solid dosage processing, and aseptic packaging. The Chemical Solutions Group located in Columbia, Maryland handles inquiries for process systems installation in the United States and Canada. GEA's process technology center (PTC) for crystallization is located in Europe, working primarily with Kestner and Messo technologies. The PTC staff collaborates with the process engineering team in Columbia, Maryland to handle inquiries and to provide basic engineering

during contract execution. Crystallization technologies offered by GEA include solution crystallization, melt crystallization and freeze concentration.

Samuel (Sam) Bardoff is a Senior Process Engineer with GEA's Chemical Solutions Group, working out of the organization's Columbia, Maryland location. He holds a Bachelor's Degree in Chemical Engineering from the University of Maryland, and has a patent for generating clean steam. Sam has extensive experience (more than 35 years) with vapor recompression technologies for evaporators, distillation systems, plus crystallizers, and has been focused on crystallization detailed process engineering for the last 7 years. His recent projects include crystallization of: lithium hydroxide, lithium sulfate, sodium chloride, and potassium chloride.

FEBRUARY PROGRAM SUMMARY

AICHE - NATIONAL, LOCAL, GLOBAL

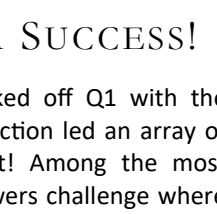
Monica Mellinger, the Senior Membership Associate from AICHE Global, gave a presentation that covered the benefits of becoming (or staying!) a member of AICHE. These benefits include online networks of professionals, professional development – members get 6 webinar credits to AICHE Academy, and many other services. Monica also discussed AICHE's new vision: to provide value as the global leader of the Chemical Engineering profession, the lifetime center for

professional and personal growth and security of chemical engineers, and the foremost catalyst in applying ChE expertise in meeting societal needs. She highlighted that while AICHE has traditionally stood for the American Institute of Chemical Engineers, AICHE has a much broader impact, with members and services all around the world. For more information about AICHE and its services, please visit the [website](#).

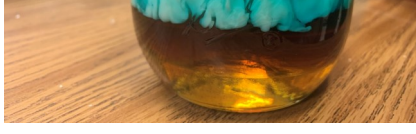
OUTREACH COMMITTEE

UPCOMING EVENT - ASME EGG DROP

In support of ASME, we are looking for volunteers and participants for the 13th annual Tri-Cities ASME Egg Drop competition on Saturday March 2nd at the Toy F. Reid Eastman Employee Center! The Egg Drop competition fosters a hands-on approach to science and math while promoting the profession of engineering. Email Angelina.Ortiz@eastman.com if you are interested or have questions.



VOLUNTEER STATE SCIENCE BOWL WAS A SUCCESS!



The AICHE Outreach Committee kicked off Q1 with the Volunteer State Science Bowl. Our section led an array of STEM activities – eight to be exact! Among the most popular activities was the density towers challenge where students hypothesized about how liquids would stack relative to the other liquids available; we encouraged students to follow the scientific method in their testing. There was a selection of seven liquids for students to test in mason jars. The activity was not only engaging to the students' desires to learn about density, surface tension, and mixing, but the activity also inspired a competitive spirit amongst various groups to construct a tower with the most layers.

The second most popular activity was, you guessed it (maybe), Oobleck! If you are unfamiliar with Oobleck, it is a mixture of cornstarch and water. We had about a gallon of Oobleck prepared for students in a bucket; students explored the world of non-Newtonian fluids by immersing their hands in the cornstarch-water mixture. To inspire some critical thinking, Outreach volunteers asked students to consider why the Oobleck behaved the way it did. This led to some discussion about force on a fundamental level.

Overall the event was a success and could not have been possible without the volunteers! We had excellent representation of chemical engineers across East TN in our AICHE Outreach activity room. There were employees from ORNL, BAE, NFS, and Eastman.



IF YOU HAVE ANY SUGGESTIONS OF EVENTS FOR THE OUTREACH COMMITTEE, OR IF YOU KNOW OF VOLUNTEER OPPORTUNITIES FOR OUTREACH, PLEASE CONTACT ANGELINA ORTIZ AT ANGELINA.ORTIZ@EASTMAN.COM.

PROFESSIONAL ENGAGEMENT COMMITTEE

The PE Committee is hosting a bowling night at Warpath Lanes in Kingsport on Wednesday, March 6th from 6-8 PM! The cost is \$8 per person. Families are welcome. Food and drinks are available for purchase at the bowling alley. Please RSVP to the meeting notice sent last week if interested in attending.

The PE committee is also looking for nominations for a [career panel](#) in the coming months. If you have suggestions for panel members, please contact Katie Devin (kjdevin@eastman.com).



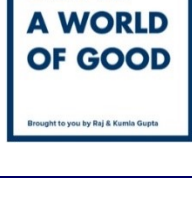
IF YOU HAVE ANY SUGGESTIONS OF EVENTS FOR THE PROFESSIONAL ENGAGEMENT COMMITTEE, OR IF YOU KNOW OF VOLUNTEER OPPORTUNITIES FOR THE PEC, PLEASE CONTACT KATIE DEVIN AT KJDEVIN@EASTMAN.COM.

AICHE GLOBAL NEWS



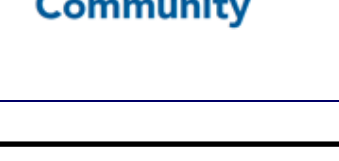
Did you take the survey? To get access to the results, [join or renew your membership today!](#)

Results will be published in the June edition of CEP.



Did you know that AICHE has its own podcast? Check it out on [SoundCloud](#), or wherever you get your podcasts.

To learn more about the Doing a World of Good® campaign, visit <http://www.doingaworldofgood.org/>



AICHE is launching this new technical community on March 31st.

If you are interested in joining or learning more, please email founding member and South Texas Section Chair Tom Rehm (tom@tomrehm.com)

2019 LOCAL SECTION OFFICERS, DIRECTORS, AND SUPPORT STAFF

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All past presentations are available on our website!

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