



THE PIPELINE

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Points of Interest:

- Shale Gas talk in March
- Membership verification

LETTER FROM THE CHAIR

NOAH McMILLAN



One of the strengths of our East Tennessee local section is the quality of our local section programming. I hope that you look forward to our local section meetings each month as a chance to re-connect with some colleagues that you might not see on a daily basis, eat some pizza, and learn a little more about a topic of interest.

Not surprisingly, these meetings can only be planned and executed due to the work of

some dedicated Program Committee members. Starting last April, these folks began debating and discussing a variety of programming topics, tours, and events. It took several sessions over lunch to narrow more than 50 different ideas into about eight feasible programs. And of course, that was just the beginning of the work because it was still necessary to contact speakers, select a meeting date, reserve meeting rooms, and order pizza. Your fellow local section members who have done all this work are listed below:

Joe Bays Lauren Johnson
Steve Bellner Laci Kemp

Jason Carter Braxton Sluder
Daniel Crandall Amy Paris
John Franjione Glenn Shoaf

If you have a chance, please take the time to thank our Program Committee for their hard work!

While we still have a few more programs to complete for this year, planning for *next* year's programs will soon begin. Lane Daley, our local section vice chair, is in the process of forming a new program committee. This is a fantastic way for you to serve the local section. If you would like to be part of the Program Committee, please contact Lane at adaley@eastman.com.

LOCAL SECTION NOTES

ASME is looking for volunteers for their annual community Egg Drop on Saturday, March 23 from 1-3pm at the Kingsport Town Center (formerly Fort Henry Mall). Please call or email Wendy Lick if you are interested in helping, and include the following information: name, T-shirt size, email, phone number, and job preference. The jobs are as follows: registration, egg pick up, drop zone leader, drop zone judge, drop zone clean-up, egg device/weigh station, egg inspectors, data entry, set-up, crowd control, and data runner. There will be a training session provided on Friday, March 22. Training will also be offered right before the event on Saturday. Check out the Egg Drop website at www.asme-eggdrop.org for more information.

Wendy Lick, (423) 229-5504, wlick@eastman.com

Local section treasurer Esmeralda Luna-Ramos is featured on the E-week website. Follow the link to see Esmeralda's snapshot.

<http://www.eweek.org/Site/Engineers/newfaces2013/index.shtml>

The 2013 AIChE Spring Meeting and 9th Global Congress on Process Safety will be held in San Antonio, TX April 28-May 2. More information can be found at the website below.

<http://www.aiche.org/conferences/aiche-spring-meeting-and-global-congress-on-process-safety/2013>

Update your membership profile online and pay your local section dues soon. We want to continue to serve the chemical engineering profession, and your dues are critical for this purpose.

PROGRAM NOTES

2012-13 Program Schedule

What Was ChemE Like in the 60s?

Joint meeting with ACS

Mark Kaszniak, Chemical Safety Board

Impact of Shale Gas on the Chemical Industry, Ray Ratheal

Engineers Without Borders

Dec. 5 Pizza @11:30, B150

Jan 24 Dinner @ EMN Lodge

Feb 6 Pizza @ 11:30 B150

Mar 19 Pizza @ 11:30 B150

Apr. TBD

FEBRUARY PROGRAM RECAP: MARK KASZNIAK, U.S. CHEMICAL SAFETY BOARD

On February 6, Mark Kaszniak from the Chemical Safety Board gave a presentation on the dangers of flammable dust fires and explosions. Nearly one hundred AIChE members were in attendance for the meeting.

Mr. Kaszniak discussed several incidents at the Hoeganaes facility in Gallatin, TN. The facility experienced three incidents over the course of five months that resulted in five fatalities and three serious injuries. Two of the incidents involved flash fires resulting from iron dust accumulation due to poor house-keeping. The iron dust was exposed to an ignition source during maintenance activities.

The third incident involved a hydrogen explosion with a secondary flash fire from the iron dust.

The CSB has issued a Combustible Dust Study in which were identified 281 dust fires and explosions between 1981 and 2005 resulting in 119 fatalities and 718 injuries. As a result of this study, the CSB has recommended that OSHA promulgate a General Industry Combustible Dust Regulation to help prevent further incidents of this nature. To date,

no final rule has been published but an advance notice of rulemaking was issued in 2009.



East Tennessee local section secretary Braxton Sluder and over 100 other AIChE members listen as Mark Kaszniak begins his talk on flammable dust fires and explosions.

There were 281 dust fires and explosion between 1981 and 2005 resulting in 119 fatalities and 718 injuries.

JANUARY PROGRAM RECAP: JOINT MEETING WITH ACS

January's program allowed us to network with our friends from NETS-ACS for a warm night at the Eastman Lodge. Yanina and Giovanni Colberg from NASA's Wise DEVELOP Program shared about the program's student opportunities in the community and unique satellite-based environmental research. The NASA DEVELOP program in Wise, VA, offers paid internships for high school, college, and graduate students. They reach out to high schools sharing design, review, and build processes through model rocketry.

The DEVELOP program's research uses NASA satellites to compare air plume data from two regional coal plants. AEP's Clinch River plant is a traditional coal-fired plant built in 1957. Dominion's Virginia City plant, built in 2012, makes use of "clean-coal" technologies, such as reduced water consumption (1/100 reduction), a circulating fluidized bed (better combustion), limestone (control SO_x emissions), and the ability to burn fly ash gob and up to 20% biomass. Satellite monitoring can be used to model emission dispersion, accu-

rately measuring PM, NO_x, carbon emissions, aerosol, O₂, and vegetation growth. Current challenges include the close proximity of the two plants studied, complex terrain, and gathering *in situ* emission measurements. This research may be used in the future to build better models and even plan future plant site locations.

MEMBERSHIP REMINDERS

Local section membership

If you are renewing your AIChE membership, **please** make sure that you are recorded as a member of the East Tennessee local section and that you are paying local section dues. 100% of the local section dues paid by our members are returned directly to the East Tennessee local section. These dues are used to support our monthly programming and to promote the chemical engineering profession in our local schools and community.

Verifying that you are a local section member is easy: 1) Go to the login page at aiche.org [here](#). 2) Enter your username and password. 3) In "My Profile" look for the "Membership" heading. You should be listed as an active member of the East Tennessee Local Section (similar to the picture below).

If your membership is not listed appropriately, call AIChE Customer Service at 1-800-242-4363 or email customerservice@aiche.org.

Senior membership

Also, if you are currently a member of AIChE and have several years of work experience, you may be eligible to become a Senior Member. Senior Members have the privilege of holding office, voting on amendments to the Constitution, nominating and voting for officers and directors. Being a Senior Member is a prerequisite for becoming an AIChE Fellow. A member may, after regular application and election, become a Senior Member. A Senior Member who has satisfied the Fellow Bylaw requirements and has demonstrated significant accomplishments in, and contributions to, the profession may

be nominated for consideration to be elected Fellow. Detailed requirements for Senior membership can be found on AIChE's website (search for "senior membership") and by clicking [here](#).

Lifetime membership

Current members can become lifetime members of AIChE. To qualify, a member needs to have held a bachelor's degree for at least twenty years. However, lifetime membership cannot be obtained online. The interested member needs to either call AIChE Customer Service at 1-800-242-4363 or email customerservice@aiche.org

Verify your membership status www.aiche.org.

Membership

Original Join Date: January 1, 2003

Years Member: 9

Active Memberships:

- AIChE Senior Member
- East Tennessee Local Section

▪ Catalysis and Reaction Engineering Division

MARCH PROGRAM ANNOUNCEMENT:

RAY RATHEAL

DIRECTOR OF FEEDSTOCK & ENERGY PROCUREMENT AND ENERGY & CLIMATE CHANGE POLICY, EASTMAN CHEMICAL COMPANY

WEDNESDAY, MARCH 19, 2013: 11:30AM-1:00PM

PIZZA SERVED AT 11:30AM, PROGRAM BEGINS AT NOON

Abstract

What is shale gas and what does it mean to me? This presentation will explain what shale gas is and why it is changing the economy of the US. It will also explain how shale gas production impacts the business of chemistry, and consider global impacts of shale gas development.

About Our Speaker

Ray began his Eastman career at the Longview, Texas, site and is currently located at the Kingsport, TN site. He has held management positions in the areas of Operations, Capital Projects, Supply Chain and Procurement. Ray has been in his current position as Director of Feedstock & Energy Procurement and Energy & Climate Change

Policy since 2002. He received his B.S. degree in Chemical Engineering from the University of Arizona and completed the Executive Development Program at Texas A&M. Ray serves on several trade association committees, including the American Chemistry Council Energy Committee and the Industrial Energy Consumers of America (Chairman).



Ray Rantheal

Eastern Tennessee Local
Section

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



2013 Local Section Officers, Directors, & Support Staff

Chair:	Noah McMillan	229-8114
Chair-Elect and Program Committee Chair:	Lane Daley	229-3064
Secretary:	Braxton Sluder	578-6225
Treasurer:	Esmeralda Luna-Ramos	229-8501
Directors:	Paul Fanning	229-8500
	Mark Harrison	229-6952
	David Hitch	229-5398
	Tim Nolen	229-8287
Local Section Webmaster:	Mark Shelton	229-4753
Short-Course Coordinator:	Joe Parker	229-3850
Professional Development Coordinator:	Braxton Sluder	578-6225
Corporate Relations Coordinator:	Jordan Keith	229-6218
AICHE Pipeline Newsletter Editor:	Lane Daley	229-3064
ETEAC Representative:		

2013 Local Company Contacts

Eastman Chemical Company	Noah McMillan 423-229-8114, nmcmillan@eastman.com
BAE Systems, Ordnance Systems Inc.	Braxton Sluder, 423-578-6225, braxton.sluder@baesystems.com
Nuclear Fuel Services Inc., a subsidiary of The Babcock & Wilcox Company	Tracy Coates tjcoates@nuclearfuelservices.com
Domtar	Rhonda Smith, Process Control Engineer 423-392-2797, Rhonda.Smith@domtar.com

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](#)

