



THE PIPELINE

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Points of Interest:

- June Program Abstract
- Engineers Without Borders Program Recap
- Local Section Leaders Workshop, AICHe Spring Meeting, Houston, TX: update from secretary Braxton Sluder

LETTER FROM THE CHAIR

NOAH McMILLAN



I'd like to highlight a couple of items from this month's Pipeline that represent what makes East Tennessee

see a great local section to be a part of.

First, the ASME local section recently organized the annual Egg Drop competition at Fort Henry Mall. As in year's past, our AICHe local section helped sponsor the event and several local section members participated. This is a great way that we can support one of our

sister societies and have an outreach to the community that promotes engineering education. Thanks to the local section members who were able to participate!

Second, we were fortunate to have Braxton Sluder, our 2013 Treasurer, represent the local section at the Local Section Leaders Workshop (LSLW) during AICHe's Spring Meeting in San Antonio. The LSLW is a good opportunity for Local Section officers to meet and interact with national-level directors and staff members of AICHe. In addition, Braxton also gave a presentation to the workshop

attendees about our local section's recent experience of updating our bylaws to be consistent with the model bylaws of AICHe.

I think we can all feel proud that our local section was well-represented in San Antonio and we continue to have a reputation at the national level as an active and healthy local section.

Finally, you will note that there will be no local section program during the month of May. The next program will be on June 18, so see you there! Have a safe and enjoyable summer!

Classic Corrosion Failures

Gary Whittaker

Eastman Chemical Company

Tuesday, June 18, 2013 11:30AM to 1PM

Eastman B-150 Multimedia Room

(Pizza will be served at 11:30; Program begins at 12:00)

Abstract:

Corrosion is a common fact of life as the gradual destruction of materials, usually metals, by chemical reaction with its environment. It is useful to know the corrosive characteristics of chemicals and the expected behavior of construction materials for the proper design and operation of chemical plants. This presentation will focus on some of the most classic corrosion failures.

About our speaker:

Gary Whittaker is an Engineering Fellow at Eastman Chemical Company. He has 31 years of experience at Eastman. His work has included providing consulting on all aspects of materials of construction, failure analysis, and corrosion. He has received bachelors and masters degrees in materials engineering from Virginia Tech. He is a member of the Materials Technology Institute and the National Association of Corrosion Engineers. Gary is also a private pilot.

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. 30 Pizza @ 11:30 B150

Classic Corrosion Failures

Jun 18 Pizza @ 11:30 B150

April Program Recap: Paul Dow, Asheville Engineers Without Borders

On April 30, AIChE held a joint meeting with ASME and ASCE, and we had the pleasure of hearing from Paul Dow, the Secretary of the Asheville Professional Chapter of Engineers Without Borders-USA.

Paul discussed the mission and principles of Engineers Without Borders-USA and the types of projects that EWB chapters typically pursue. He gave information about the Asheville Professional Chap-

ter, which he helped start in 2008, and their current project in Kenya, where they are helping the Uluthe community install a hand-operated pump to provide access to safe and reliable drinking water. This is part of a five-year water resources project within the Mungao sublocation, a collection of 11 communities and over 8000 people.

Paul also discussed lessons learned from starting a chapter and being involved in an ongoing project, and he provided advice for starting a successful chapter in the Tri-Cities area.

He stressed that despite the name, Engineers Without Borders is not just for engineers. In fact, the projects require people with all kinds of skill sets from fundraising to community organization to accounting. He invited interested people to attend Asheville EWB meetings, which are held on the third Tuesday of each month at the office of Altamont Environmental in Asheville, NC. According to Paul, your level of involvement in EWB is entirely up to you, but no matter how involved you become, you will gain much more from the experience than you contribute.

Top photo: women collecting water from a surface water diversion pond. The water is to be used in the Uluthe community medical clinic.
 Bottom photo: A student operating an "Afridev" pump at the Uluthe School.

"Despite the name, Engineers Without Borders is not just for engineers."



2013 TRI-CITIES ASME EGG DROP—ANOTHER GREAT YEAR

On a beautiful Saturday afternoon, March 23, the 2013 Tri-Cities ASME Egg Drop competition was held at the Kingsport Town Center. This was the 7th year the Tri-Cities Egg Drop was organized by ASME Holston Section and sponsored by local professional organizations and businesses, including the East Tennessee Local Section of AIChE.

Thanks to the efforts of more than 30 volunteers from several sponsoring organizations, this year's event was, again, a huge success! We had 111 first-round drops by participants from numerous local schools, home schools, and other organizations. The largest participation was in the Elementary school division followed closely by Team division. The Grand Prize winner was Kyro Sewall from the Elementary school division. The crowd at the Kingsport Town Center who watched this exciting event easily ex-

ceeded 300 participants, parents, volunteers, and bystanders.

The object of the competition is to protect an egg from a second-story drop while maintaining accuracy, light weight, and minimal number of parts. Each of those factors is used to determine the winner. The device protecting the egg is dropped onto a target and scored for accuracy, then weighed on a scale, and then inspected to make sure there are no visible cracks in the egg.

Of course, the REAL objective of the competition, from our standpoint, is to help young people, educators, and others in our community to be more

aware of engineering as a possible career and to meet some real, live engineers in a casual environment. Competition, fun, free t-shirts, monetary rewards, and big splats – community relations at its best!

Please go to the web-site to see rules and final results for the 2013 competition, and start working on your Egg Drop device for next year! The web site is located at www.asme-eggdrop.org.



The 7th annual Tri-Cities Egg Drop, organized by the Holston section of ASME

Local Section Leaders Workshop

I had the privilege to represent the East Tennessee local section at a workshop for other local section leaders in San Antonio, TX, in April. I came home with a great sense of pride for our local section and the many ways that we are involved maintaining high standards within the profession and reaching out to the community. Our section is really a unique microcosm for the high level of effort given by so many. We really only compare to Midland Michigan and South Texas by my estimation. In the area of Section Governance, I presented Paul Fanning's synopsis of our by-laws revision process and the importance of having a clear, but flexible set of by-laws, much like a good SOP. There was also quite a bit of interest in how we perform our re-

mote, satellite program meetings. We are really blazing a trail in this area among Eastman, NFS, and BAE Systems. I reflected that our section has outstanding, well-attended programming, but I also got several ideas on areas that we might improve. Some ideas that I captured from my notes are below. If you have any questions, please contact me. I would also like to thank BAE Systems for sponsoring my travel.

- "Lofty Purpose" – instead of increasing membership 10%, try to improve the careers of 3 people, membership will follow; tell a story
- Programming – approach higher management to see if needs are being met (invite to speak); have regulators (EPA, OSHA, etc.) present;

small workshops separate from larger programs (different than our short courses); wine/beer chemistry (community festival tie-in); fun nights (trivia, etc.)

- Community Outreach – public seminars (nuclear, co-gen, water purification, global warming debate); HazMat seminars for local first responders
- Awards and Recognition – an area that we lack in the most, all generations respond to, one of the key areas that AIChE can provide value back to members; awards banquet, service awards, funny awards, intrinsic vs. extrinsic recognition

Local Section Membership Statistics

- National members in area: 254

- Local members: 138
- Fellows: 6 (national target is 5%)
- Non-members on roll (active participants): 100
- Total active (member or attended something in past year): 359
- Best Program Attendance: 91, February Safet
- Worst Program Attendance: 6, Joint with ACS (snow forecast that night)
- Half attending generally national members
- Half attending generally take PDH credit
- Half of those taking PDH credit national members

Eastern Tennessee Local
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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
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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](#)

