



American Institute of Chemical Engineers Knoxville-Oak Ridge Section

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For additional information see our Web site at: <http://www.ornl.gov/sci/aiche/>

Or contact: Linda Puckett, puckettlf@ornl.gov, (865)574-6147 or

Rita Gray, rgray22@utk.edu, (865)974-5356

January 2013 Meeting (Joint with SWE)

Date: Thursday, January 17, 2013

Cost: \$20

Location: Rothchild Catering and Conference Center, 8807 Kingston Pike, Knoxville TN

Menu: Menu items

5:30 pm Executive Committee Meeting (All members welcome)

6:00 pm Dinner

7:00 pm Program – Dr. Kevin Hoyt, Director of the Forest Resources AgResearch and Education Center and Dr. William Brown, Dean for Research & Director of the Tennessee Agricultural Experiment Station, ***Planned Study of Hydraulic Fracturing in Tennessee***

Abstract – The University of Tennessee (UT) is making plans to lease land in its research forest in Morgan and Scott counties to oil and gas exploration companies, in order to study the effects of hydraulic fracturing (fracking) in Tennessee. The Cumberland Forest, established in 1947, is the largest field research unit in the UT Forest Resources AgResearch and Education Center, encompassing 8,000 acres of Cumberland Mountain forest land in Morgan and Scott counties. This forest facilitates several large- and small-scale forest and wildlife management research projects, as well as ecological demonstration projects. The Cumberland Forest is also the site of some of the earliest strip mine reclamation research in Tennessee. UT plans to award a contract, through a bidding process, early next year to lease land to a company for oil and gas exploration and production. Royalties from any production would be used by UT to finance research into how fracking affects surrounding wildlife, geology, and air and water quality.

Bio – Dr. Kevin Hoyt is the Director of the Forest Resources AgResearch and Education Center and Dr. William Brown is the Dean for Research & Director of the Tennessee Agricultural Experiment Station.

Please make your reservations by noon, January 16, by contacting

Linda Puckett, puckettlf@ornl.gov, (865)574-6147 or

Rita Gray, rgray22@utk.edu, (865)974-5356

The Section will subsidize up to 15 students, including graduate students

Judges Needed for SASEF

The Southern Appalachian Science and Engineering Fair (SASEF) will be held on April 1-4, 2013 at the UT Thompson Boling Arena. The Knoxville-Oak Ridge Section provides two \$50 prizes for the best chemical engineering related projects; one in the Senior Division and one in the Junior Division. If you would like to help judge projects for these prizes, please contact Paul Taylor (taylorpa@ornl.gov, 574-1965). More information about judging, and an online application form, are at <http://www.sasef.com/judges.html>.

SASEF is the premier science competition for students in middle and high school in East Tennessee, and has promoted teaching the scientific method in science, engineering, and math since 1952. The fair is sponsored by the University of Tennessee and many local companies and agencies. There are two divisions of competition - Junior Division for middle school students' grades 6 - 8, and Senior Division for high school students' grades 9 - 12. SASEF is an official, affiliated regional fair of the [International Science and Engineering Fair](#), and the top two Senior Division students win an expense paid trip to compete in ISEF.

Local Section Election Results

The ballots have been counted and the results of the Local Section election sanctioned. Of the voting member, a total of 33 ballots were cast to elect the following local section officers and directors for 2013:

- Chair: Jarrod Clark
(Continuing as Chair)
- Chair Elect: Bonnie LaPierre
- Secretary: David DePaoli
- Treasurer: Paul Taylor
- New Directors 2013-2015:
Michael Aident, Stuart Daw, and Chris McBride

Continuing Directors 2011-2013: Thomas Busmann and Kyle Mack

Please congratulate our newly elected officers and directors and continue to support the local section by participating in section activities.

Every vote counts, so please don't forget to exercise your right to vote whenever the opportunity arises.



December Meeting Recap - Marks on the Wall: An Exploration of the Cultural History of Cumberland Gap Cave

At the December 6th meeting of the Knoxville-Oak Ridge Section of AIChE, Dr. Stuart Daw, Corporate Fellow at Oak Ridge National Laboratory gave a presentation about the Cumberland Gap Cave in which he described the work of the Cave Research Foundation (CRF) at the Cumberland Gap National Historic Park. Stuart shared numerous graphics and photographs of cultural artifact being discovered in the caves. He also provided information on National Park Service tours of the area.

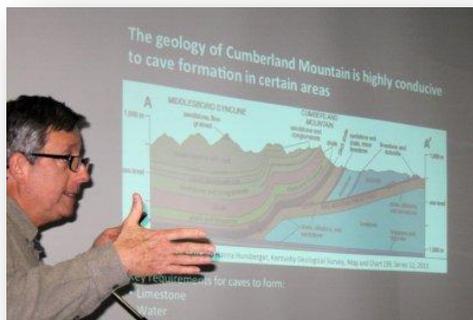


Fig. 1. Stuart Daw presents Cumberland Gap Cave program to AIChE members and guests on Dec 6, 2012.



Fig. 2. Stuart Daw [center] with Cave Exploration visitor [left] and Cave Exploration associate [right] after Dec 6 AIChE Program

Activities Calendar

Date	Time	Topic	Speaker	Location
Jan 17	6:00 PM	Planned Study of Hydraulic Fracturing in Tennessee (Joint with SWE)	Dr. Kevin Hoyt and Dr. William Brown, UT	Rothchild's, Knoxville TN
Feb 21	6:00 PM	Formation of Heavy Elements in Stellar Explosions (Joint with ANS)	Michael Smith - ORNL	Rothchild's, Knoxville TN
Mar 21	6:00 PM	Carbon Fiber Technology Facility (Joint with ASM)	Lee McGetrick - ORNL	Rothchild's, Knoxville TN
Apr 18	6:00 PM	Manufacturing Demonstration Facility / FIRST Robotics Competition	TBD	TBD
May 16	6:00 PM	Current Research Related To McClung Museum	TBD	McClung Museum

Sponsoring Opportunities

We continue to accept advertising in the newsletter in order to provide funds to support student participation in the meetings.

Rates per newsletter are:

\$80 full-page advertisement

\$45 half-page advertisement

\$25 quarter-page advertisement

The section will also continue to accept individual or corporate sponsors to provide student meals at section meetings. The sponsor will be recognized at the meeting and in the Newsletter.

The cost to sponsor one meeting is **\$200**. It's a great way to encourage students to attend the local meetings and become future members in the Institute!



(LBNL Scientist cultures soil bacteria for fuel production - Source: DOE Digital photo archive at: <http://www.doe.digitalarchive.doe.gov/>)

Officers

Chair:	Jarrold Clark	259-6552	jarrod.clark@merrick.com
Chair-Elect:	Bonnie LaPierre	241-6521	lapierrebl@y12.doe.gov
Secretary:	David DePaoli	574-6817	depaolidw@ornl.gov
Treasurer:	Paul Taylor	574-1965	taylorpa@ornl.gov
Directors:	Michael Aident	694-7333	Michael.Aident@shawgrp.com
Term ends 2012	Stuart Daw	946-1341	dawcs@ornl.gov
Term ends 2012	Chris McBride	271-7776	cemcbride@focusenv.com
Term ends 2014	Thomas Busmann	453-3538	tbusmann@focusenv.com
Term ends 2014	Kyle Mack	(423)747-7947	kylematthewmack@gmail.com
Membership:	Paul Taylor	574-1965	taylorpa@ornl.gov
Newsletter:	Linda Puckett	574-6147	puckettlf@ornl.gov
Webmaster:	Ben Lewis	574-4091	lewisbejr@ornl.gov
E-mail:			aiche-chat@chem.engr.utk.edu
Website			http://www.ornl.gov/aiche

“Do you know the difference between education and experience? Education is when you read the fine print; experience is what you get when you don't.”

Pete Seeger
Musician, political activist, and author

**Knoxville - Oak Ridge
Section**

P.O. Box 2008
Bldg. 4500N, Room B12
Oak Ridge, TN 37830-6243

Phone: 574-1965
Fax: 574-6872

E-Mail: [aiche-
chat@chem.engr.utk.edu](mailto:aiche-chat@chem.engr.utk.edu)



We're on the Web!

See us at:

<http://www.ornl.gov/sci/aiche/>

Editor: B. Lewis

About Our Organization – UPS Discounts

AIChE members receive substantial discounts on overnight shipping with UPS, the world's largest package distribution company. Members can save up to 26% off shipping. Plus 10% on business services like copying, binding, laminating, packaging, and mailbox services at The UPS Store. All this with the peace of mind that comes from using the carrier that delivers more packages on time than anyone.

Members can enroll online (www.savewithups.com/aiche) or obtain additional information by calling (800)325-7000.

Once enrolled, using UPS is simple. Packages can be

processed from the shipping tab after logging into UPS Shipping Web page and dropped off at any one of their 61,000 drop off points, including The UPS Store®. Scheduling a pick-up has never been easier.

To arrange for a pick-up, call (800) PICK-UPS or visit UPS online at [UPS Schedule Pickup](#).

Always know where your package is by using UPS Quantum View Notify (SM). With this time-saving service you can receive notifications when packages are picked up, when they are delivered and when there are exceptions. Exception notifications let you know when and why a package

may not meet its original scheduled delivery date, and will provide you with a rescheduled date of delivery. These services and more are available to AIChE members.

(Source: AIChE web site <http://www.aiche.org/resources/member-services/ups-discounts>)

**P.O. BOX 2008
BLDG. 4500N, ROOM B12
OAK RIDGE, TN 37830-6243**

