



American Institute of Chemical Engineers Knoxville-Oak Ridge Section

For additional information see our Web site at: <http://www.ornl.gov/sci/aiche/>
Or contact: Linda Puckett, puckettlf@ornl.gov, (865)574-6984 or
Betty Frazier, bfrazier@utk.edu, (865)974-2421

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April 2008 Meeting

Date: Monday, April 14, 2008
Cost: \$20 Local Section Members, Professional Engineers, Faculty, and Staff Members
\$5 UT Students

Location: Hermitage Room, Carolyn P. Brown Memorial University Center, The University of Tennessee, 1502 West Cumberland Ave., Knoxville, TN, phone (865)-974-3455

Menu: Buffet

5:00 pm Executive Committee Meeting (All members welcome) - Executive Committee Meeting (Room 217)

5:30 pm Program – *UT Department of Chemical & Biomolecular Engineering Senior Designs and Awards*

6:30 pm Dinner

UT Department of Chemical & Biomolecular Engineering students will provide the program for our April 2008 meeting. Two student teams chosen from CBE 411 projects class will present their research or design projects. This is an excellent opportunity to see the types of research young chemical engineers are performing. As in previous years the audience will be given the opportunity to determine the winning presentation. The winners of the competition will be recognized during the banquet.

Area high school chemistry students and their teachers are especially welcome to this meeting, which will provide an opportunity for high school students with interests in chemistry and engineering to learn more about opportunities in chemical engineering.

The local section will pay for up to 15 High School students from the local area.

If you know of someone who would be interested in attending this meeting, please provide their name(s) to us so that we can be sure to invite them.

Please make your reservations by noon on April 9, if possible (reservations can be accepted until noon on April 14), by contacting

Linda Puckett, puckettlf@ornl.gov, (865)574-6984 or
Betty Frazier, bfrazier@utk.edu, (865)974-2421.

Further information on the University Center can be obtained at <http://web.utk.edu/~univctr/>; the Chemical & Biomolecular Engineering Dept at <http://www.engr.utk.edu/cbe>.

A New Century, A New Strategy

As AIChE approaches its 100th anniversary, the Institute's leadership has committed to looking forward even as we celebrate the great successes of the past 100 years.

The Board of Directors commissioned a review of AIChE's long-range strategy in light of significant changes affecting the profession. The chemical enterprise now spans the globe, changing the marketplace for chemical engineers and the work they do. The scope of academic departments has also broadened as product design becomes equal in importance to process design. And, the role of professional societies continues to evolve as engineers rely on other sources for technical information and peer interaction.

Work on this important initiative started in the first quarter of 2007. A white paper has been prepared that discusses goals, issues, and possible solutions. The goals identified to date are:

Strategic Goal #1:
Become a Global Organization of Chemical Engineering Practitioners.

Strategic Goal #2:
Create strong industry and technology groups

supporting the diverse interests of members.

Strategic Goal #3:
Aggressively develop innovative new products and services for members based on web-based technologies.

Strategic Goal #4:
Engage with others to improve the undergraduate curriculum in chemical engineering, and promote life-long learning.

Strategic Goal #5:
Impact societal issues by informing and educating the public and government in complex technical areas.

Supporting Goal A:
Study alternative business models that rely less on membership dues, and commit the Institute to no increase in the level of dues for the next five years.

Supporting Goal B:
Make Membership in AIChE More Inclusive.

Supporting Goal C:
Improve the Operational Effectiveness of AIChE.

Information on each goal and opportunities to comment on them are available at:

www.iche.org/about/presidentscorner/anewcentury.



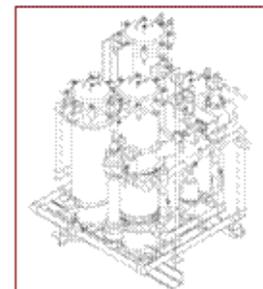
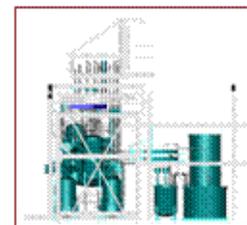
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Knoxville-Oak Ridge Section Presents Two Special Awards at the Southern Appalachian Science and Engineering Fair

The Southern Appalachian Science and Engineering Fair (SASEF) was held on March 31-April 3, 2008 at the UT Thompson Boling Arena, Knoxville, TN.

The SASEF is sponsored annually by The University of Tennessee. The Fair began in 1952 to heighten the interests of area students to science and engineering. The Fair tries to develop an outlet for creative energy and analytical skills in our youth. Students in the Senior Division (grades 9-12) compete for two opportunities to represent the SASEF at the Intel International Science and Engineering Fair. Students in the Junior Division (grades 6-8) compete separately for their own awards. The younger students learn a great deal by being involved in the competition each year. Through their experience

with the fair, they will gain insight that will prove useful in future fairs and future endeavors.

The Oak Ridge/Knoxville Section of the American Institute of Chemical Engineers presents \$50 prizes and certificates to the top project in each division for the applications of chemical engineering principles or practices. This year's Senior Division winner is Katharine Sloop, Oak Ridge High School, and the Junior Division winner is Brandy Hawk, Tellico Plains Junior High School.

The title of the Senior Division winner, Katharine Sloop's project was "*Combined Effects of a Late Freeze and Prolonged Drought.*" Her project analyzed carbon dioxide emissions data to show the magnitude of the impact of the April 2007 late

freeze in East Tennessee combined with the ongoing drought to the growth of the local vegetation.

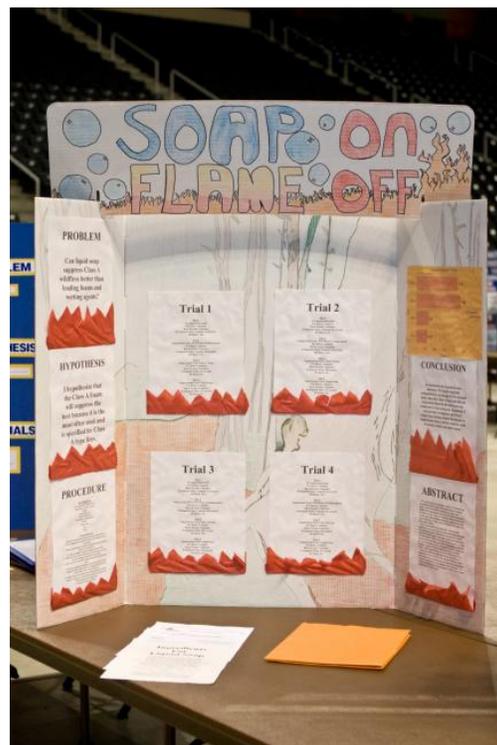
The Junior Division winner, Brandy Hawk's project was "*Soap on Flame Off.*" Her project showed that a commonly available mixture of soap and water was more effective in extinguishing textile fires than some commercially available fire extinguishing agents.

Congratulations to these outstanding students!

Also, please express your appreciation to Doug Hayes and Mark Swientoniewski of the Knoxville-Oak Ridge Section for representing the AIChE as volunteer judges at the SASEF.



Katharine Sloop's project: "*Combined Effects of a Late Freeze and Prolonged Drought.*"
(Photograph courtesy of James Hayden Photography)



Brandy Hawk's project: "*Soap on Flame Off.*"
(Photograph courtesy of James Hayden Photography)

UT Department of Chemical & Biomolecular Engineering Facts

Did you know that the Department of Chemical & Biomolecular Engineering is one of the oldest engineering programs in the South? It was included as an option in Chemistry as early as 1905 and became a separate department in 1936. The Masters program was begun in 1935 and the Ph.D. program in 1949. The University of Tennessee's Ph.D. program was the first doctoral program in engineering offered by any institution in Tennessee, public or private. The undergraduate program in chemical engineering has been continuously accredited since 1939, making it one of the four oldest accredited chemical engineering programs in the South.

The department has a threefold mission to

- provide excellence in chemical engineering education at both the undergraduate and graduate levels,
- provide a strong research program to fortify the educational process and advance engineering knowledge, and
- serve industries in Tennessee and the nation by providing educational opportunities, research services, and technical assistance.

For more information on the chemical engineering department, visit: <http://www.engr.utk.edu/cbe>.

(Excerpt from About Chemical & Biomolecular Engineering at <http://correa.engr.utk.edu:16080/che/pages/about/aboutus.html>)



"When Thomas Edison worked late into the night on the electric light, he had to do it by gas lamp or candle. I'm sure it made the work seem that much more urgent."

George Carlin
American stand-up comedian,
actor, and author

Activities Calendar

Date	Time	Topic	Speaker	Location
Apr 6-10		2008 AIChE Spring National Meeting		New Orleans, LA
Apr 14	5:30 PM	UT Department of Chemical & Biomolecular Engineering Senior Designs and Awards	Two student teams chosen from CBE 411 projects class	Hermitage Room, Carolyn P. Brown Memorial University Center, The University of Tennessee
May 15 or 20	6:00 PM	U.T. Chemical Engineering Dept.	TBD	TBD

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!



Search for Chair-Elect Continues

The search for a new Chair-elect for the local section is continuing.

Please contact one of the section officers if you would be willing to serve as the Chair-elect. The

duties of the officers are described in the bylaws (<http://www.ornl.gov/sci/aiche/bylaws.html>). The Chair-elect's responsibilities primarily include: (1) Serving as Chair at meetings of the

Section when necessary, (2) organizing the annual planning meeting, and (3) succession to chair at the start of the new year.

"Service is what life is all about."

Marian Wright Edelman
American Activist for the Rights of Children

Officers

Chair:	Michael Hollander	300-5645	enviroms@att.net
Chair-Elect:	TBD		
Secretary:	David DePaoli	574-6817	depaolidw@ornl.gov
Treasurer:	Paul Taylor	574-1965	taylorpa@ornl.gov
Directors:	Mark Swientoniewski	574-1150	swientoniemd@bechteljacobs.org
Term ends 2008	Steve McCoy	220-4730	steven.mccoy@ttnus.com
Term ends 2008	Ed Alperin	694-7335	Ed.alperin@shawgrp.com
Term ends 2009	Stuart Daw	946-1341	dawcs@ornl.gov
Term ends 2009	Tom Busmann	694-7517	tbusmann@focusenv.com
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Website			http://www.ornl.gov/aiche

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We're on the Web!

See us at:

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

About Our Organization – Career Management Center

AICHE's CareerEngineer (<http://careerengineer.aiche.org/home/>) is the leading e-recruitment source for chemical engineers in every field, and now it's **new** and better than before. Take advantage of the AICHE CareerEngineer site to:

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Your personal job seeker account will allow you to find jobs, manage your

resumes, and set up job alerts. Get started today

- [Access Your Job Seeker Account](#)
Log into your account to begin managing your job search. Create and manage job alerts and view job offers from Employers.

(Information from the National AICHE web site at: <http://www.aiche.org/CareerResources/index.aspx>)

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