



## 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](mailto:puckettlf@ornl.gov), (865)574-6984 or  
Betty Frazier, [bfrazier@utk.edu](mailto:bfrazier@utk.edu), (865)974-2421

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## May 2008 Meeting

Date: Thursday, May 29, 2008

Cost: \$15

Location: Calhoun's Bearden Hill – 6515 Kingston Pike, Knoxville TN (673-3377)

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

6:00 pm Dinner – Pork barbeque, fried catfish, or grilled lemon chicken and soft drinks, tea or coffee

7:00 pm Program – Robert Hawsey - *Energy Efficiency: the First Fuel in the Race for a Clean and Secure Energy Future*

Abstract - The Energy Efficiency and Renewable Energy (EERE) Program at ORNL develops sustainable energy technologies to create a cleaner environment, a stronger economy, and a more secure future for our nation. The Program is committed to expanding energy resource options and to improving efficiency in every element of energy production and use.

Bio - Robert A. (Bob) Hawsey is the director of the Energy Efficiency and Renewable Energy Program at the U.S. Department of Energy's (DOE) Oak Ridge National Laboratory (ORNL) in Tennessee. He is responsible for leading, coordinating and implementing ORNL's research and development portfolio of projects conducted for the DOE's Office of Energy Efficiency and Renewable Energy and the Office of Electricity Delivery and Energy Reliability. The diverse R&D portfolio includes FreedomCAR and Vehicle Technologies; Industrial and Building Technologies; Hydrogen, Fuel Cells and Infrastructure Technologies; Solar, Wind and Hydropower; Biomass; Federal Energy Management; and Weatherization and Intergovernmental Programs; Distributed Energy; High-Temperature Superconductivity for Electric Power Systems; Transmission Reliability; Power Electronics, Sensors and Controls for High-Voltage Applications; Electric Grid Modeling and Visualization; and Electricity Storage. He holds a B.S.-Ed. degree in Physics-Mathematics from Indiana University of Pennsylvania and an M.S. in Engineering Physics from University of Virginia.

***Please make your reservations as soon as possible, but no later than noon on May 29, by contacting***

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

***The Section will subsidize up to 15 students***

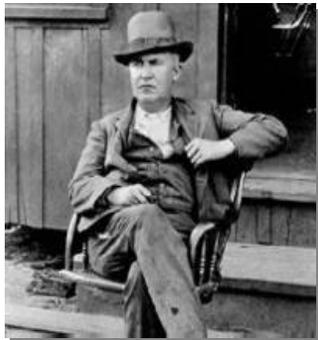
## U.T. Students Present at April meeting

The April meeting featured presentations by two groups of U.T. students.

The first presentation was about the ChemE car, which won first place at the Southern Regional Student AIChE Conference. Team members were Nickyla Alliove, Bradley Harris, Kristen Dobrodziej, and Jared Johnson, and the faculty advisor was Paul Frymier. The car was powered by electricity from on-board capacitors, which were charged by a hydrogen fuel cell. A reaction between magnesium and hydrochloric acid supplied the hydrogen to run the fuel cell.

The second presentation was about an evaluation of 3-methylphenanthrene's potential use as a heat transfer fluid. Brent Barnes, Brian Long, and Ian Morris performed a difficult calculation of various thermophysical constants for the chemical. Their faculty advisors were William V. Steele and David J. Keffer.

In a close vote by the audience, the ChemE car team was voted the best project.



Thomas Alva Edison sitting at the door of the ore-milling plant in New Jersey circa 1895  
Photo from <http://inventors.about.com/library/inventors/bledisonfailures.htm>

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*"That which we  
persist in doing  
becomes easier for  
us to do. Not that the  
nature of the thing  
itself has changed but  
our power to do it is  
increased."*

*Ralph Waldo  
Emerson  
1803-1882*

*U.S. poet and  
essayist*

## Activities Calendar

Date	Time	Topic	Speaker	Location
29 May	5:30 PM	Energy Efficiency: the First Fuel in the Race for a Clean and Secure Energy Future	Robert Hawsey	Calhoun's Bearden Hill – 6515 Kingston Pike, Knoxville TN
August	TBD	2008 Local Section Planning Meeting		TBD
16-21 November		AIChE 2008 Annual Meeting		Philadelphia, PA

## 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!



Martin Luther King, Jr.  
Photo from: <http://www.cdcan.us/>

## 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.

*"The ultimate measure of a man is not where he stands in moments of comfort and convenience, but where he stands at times of challenge and controversy."*

*Martin Luther King, Jr.  
1929-1968*

## Officers

<b>Chair:</b>	Michael Hollander	300-5645	<a href="mailto:enviroms@att.net">enviroms@att.net</a>
<b>Chair-Elect:</b>	TBD		
<b>Secretary:</b>	David DePaoli	574-6817	<a href="mailto:depaolidw@ornl.gov">depaolidw@ornl.gov</a>
<b>Treasurer:</b>	Paul Taylor	574-1965	<a href="mailto:taylorpa@ornl.gov">taylorpa@ornl.gov</a>
<b>Directors:</b>	Mark Swientoniewski	574-1150	<a href="mailto:swientoniemd@bechteljacobs.org">swientoniemd@bechteljacobs.org</a>
<b>Term ends 2008</b>	Steve McCoy	220-4730	<a href="mailto:steven.mccoy@ttnus.com">steven.mccoy@ttnus.com</a>
<b>Term ends 2008</b>	Ed Alperin	694-7335	<a href="mailto:Ed.alperin@shawgrp.com">Ed.alperin@shawgrp.com</a>
<b>Term ends 2009</b>	Stuart Daw	946-1341	<a href="mailto:dawcs@ornl.gov">dawcs@ornl.gov</a>
<b>Term ends 2009</b>	Tom Busmann	694-7517	<a href="mailto:tbusmann@focusenv.com">tbusmann@focusenv.com</a>
<b>Membership:</b>	Paul Taylor	574-1965	<a href="mailto:taylorpa@ornl.gov">taylorpa@ornl.gov</a>
<b>Newsletter:</b>	Linda Puckett	574-6984	<a href="mailto:puckettlf@ornl.gov">puckettlf@ornl.gov</a>
<b>Webmaster:</b>	Ben Lewis	574-4091	<a href="mailto:lewisbejr@ornl.gov">lewisbejr@ornl.gov</a>
<b>E-mail:</b>			<a href="mailto:aiche-chat@chem.engr.utk.edu">aiche-chat@chem.engr.utk.edu</a>
<b>Website</b>			<a href="http://www.ornl.gov/aiche">http://www.ornl.gov/aiche</a>

*Clergyman and civil rights leader*

## Knoxville - Oak Ridge Section

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We're on the Web!

See us at:

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

## About Our Organization – New Member Benefit, TekScouts

Leverage your knowledge and join AIChE's new Open Innovation Network where companies post R&D challenges and offer success fees to engineers who can resolve their development concerns. Free registration to AIChE members through September 2008. Register with TekScout today.

Hundreds of companies around the world are looking for people with chemical engineering expertise to assist with their internal product development? If you are looking for an intellectual challenge combined with a financial reward then you should become a TekExpert.

Once you register you will be notified of new opportunities in your field of expertise. Then all you

need to do is respond to the opportunity, and if the company accepts your proposal, you could earn thousands for your efforts.

**Between now through September 2008, you can join with a one year subscription for FREE.** After your first year, if you choose to continue your subscription, you'll pay a special AIChE rate of \$50 (US) per year. The rate for scientists who are not members will be \$100 (US) per year.

Register today to be notified of opportunities in your area of expertise, and start earning valuable success fees!

(Excerpt from AIChE web site at: <http://www.tekscout.com/aiche.aspx>)

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