



## 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)574-6147 or  
Susan Seymour, [Seymour@utk.edu](mailto:Seymour@utk.edu), (865)974-2421

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## February 2009 Meeting – Joint with ANS

Date: Tuesday, February 10, 2009  
Cost: \$20  
Location: Buddy's Bearden Banquet Hall (5806 Kingston Pike, 584-1924)  
5:30 pm Executive Committee Meeting (All members welcome)  
6:00 pm Dinner – Pork BBQ or honey pecan chicken, green beans and wild rice, garden salad, cheese cake or pecan pie, drinks and rolls  
7:00 pm Program – Dr. Robert T. Jubin, Oak Ridge National Laboratory, **Advanced Fuel Cycle Initiative Separations Activities**

Abstract – This presentation will highlight recent accomplishments and future focus areas of the Advanced Fuel Cycle Initiative's (AFCI) Separations Campaign. The talk will highlight research and development work being conducted in the Oak Ridge National Laboratory's Coupled End-to-End (CETE) demonstration and other sites across the DOE complex. The CETE demonstration provides an opportunity to couple all of the processing steps required to recycle used nuclear fuel from the shearing operations through dissolution, solvent extraction, and conversion of the recovered materials back into powder and pellets using actual fuel materials. Highlights from recent work will be shown. Solvent extraction equipment development work currently underway at the Idaho National Laboratory will be described. This presentation will also discuss some of the airborne waste management challenges that must be addressed to meet regulatory requirements and the work being done across the DOE complex in this area.

Bio – Dr. Robert T. Jubin is currently the segment lead for Waste Materials and Processing within the Advanced Fuel Cycle Initiative (AFCI) Coupled-End-to-End Demonstration at Oak Ridge National Laboratory. He is responsible for the recovery, conversion, and packaging of the key radionuclide products streams from the demonstration, and is responsible to provide these feed materials to a number of other DOE facilities to support waste form development activities.

He has authored a number of reports and papers in the area of solvent extraction and holds two patents for improvements to centrifugal contactors. Bob received his BS degree in chemical engineering from the University of Akron, an MS in engineering management from the University of Tennessee, and a PhD in chemical engineering from the UT. Bob retired from the U.S. Air Force Reserve, with the rank of Colonel, in 2007.

Please make your reservations by noon, **February 9**, by contacting

Linda Puckett, [puckettlf@ornl.gov](mailto:puckettlf@ornl.gov), (865)574-6147 or  
Susan Seymour, [Seymour@utk.edu](mailto:Seymour@utk.edu), (865)974-2421

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

## 2009 ALL ENGINEER'S BANQUET

The 58<sup>th</sup> Annual National Engineers Week is February 15-21, 2009. It will be highlighted with the East Tennessee All Engineers Week Banquet on Tuesday, February 17<sup>th</sup>. The banquet will be held at the Knoxville Convention Center in downtown Knoxville with special guest speaker Dr. Jerry Punch. The Tennessee Society of Professional Engineers will host the event with participation by engineering organizations such as: TSITE, IEEE, ASCE, ASME, ASHRAE, AICHE, AFE, HE, ASQ, SWE, ANE and ISA.

Dr. Punch is a physician, broadcaster, hero, and father. He spent several years serving as an Emergency Room Doctor before becoming a well-known face in auto racing as an accomplished broadcaster. After eight years of national radio broadcasts, Dr. Punch began working selected motorsports events on "ABC's Wide World of Sports". In 1989, He became a regular member of the Emmy Award winning ABC Sports team providing coverage for the Indianapolis "500". As a television commentator, Dr. Punch is known for his thorough preparation and his broad-based knowledge concerning

most aspects of racing. In addition to his ABC Sports duties, as well as operating his own company, Dr. Punch serves as both play-by-play and pit analyst on ESPN. A full-time member of ESPN's ACE Award-winning broadcast team since 1987, Dr. Punch appears on more than 60 (ESPN) telecasts a year. Not limited to auto racing, Dr. Punch has recently handled play-by-play chores for select college football games on ESPN and ESPN2.

As in the past, we have elected to divide the sponsorships into three categories:

- Speaker Sponsors
- Event Sponsors
- Table Sponsors

Details are described on the attached request form. All sponsors will be recognized for their contribution as part of the banquet. The highest sponsorship is the Speaker Sponsor, which includes a minimum \$2,000 contribution. The Event Sponsorship range is from \$700 for a Gold sponsorship to \$300 for a Bronze. As Table Sponsors, firms may contribute by the purchase of tables (10

persons) and half tables (5 persons). This option includes banquet tickets and recognition as a sponsor. This option is an excellent opportunity to invite your own special guests such as favorite clients and company executives. It also is a good way to reward your employees for their hard work this past year.

This year, proceeds from the banquet will be used to help fund the Grants for Engineering, Arithmetic, and Science (GEArS) Education Program. The GEArS Education Program is designed to provide small grants for schools/teachers to:

- Support the promotion of engineering in the classroom and facilitate learning in the sciences, mathematics, and natural resource education
- Encourage the creation of new/special classroom projects
- Supplement classroom curriculum
- Offer support for programs or

projects for which funding is not otherwise available

- Support and reward creativity and excellence in teaching

If you plan to attend the All Engineering Banquet, all contributions are due before February 6, 2009. See the registration forms on pages 3 and 4 for additional information.

(Excerpt from Engineers Week announcement letter from Mr. Mark McKinney)



**ENGINEERS  
WEEK® 2009**  
FEBRUARY 15-21

2009 ALL ENGINEERS' BANQUET REGISTRATION FORM  
 "Engineers Make a World of Difference"

-----FINAL DEADLINE FEB 6th, 2009-----

Place: Knoxville Convention Center, Downtown Knoxville

Date: Tuesday, February 17<sup>th</sup>, 2009

Time: 6:00 p.m. Social Hour with Slideshow  
 7:00 p.m. Program and Dinner

Speaker: Dr. Jerry Punch

Menu: Buffet

**SIGN UP:** Name: \_\_\_\_\_ Company: \_\_\_\_\_  
 Organization (ASCE, IEEE, etc.): \_\_\_\_\_ Contact No.: \_\_\_\_\_

**TICKETS & SPONORSHIPS** – see attached for more information on sponsor options.

Reservation	_____ Individual Reservation	\$45
	_____ Student Reservation	\$25
Table Sponsors	_____ Table Sponsor (includes meal for 10)	\$1,250
	_____ Half-Table Sponsor (includes meal for 5)	\$700
Event Sponsors	_____ Speaker (maximum of four Speaker Sponsors)	\$2,000 min.
	_____ Gold	\$700
	_____ Silver	\$500
	_____ Bronze	\$300
Additional Items	_____ Additional Tables	\$500
		Total: _____

Names of Attendees: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

This is important so that everyone can have a nametag. Use the back of this page if necessary.

Sponsorships pay banquet costs and are used to subsidize ticket prices. All sponsors will be recognized at the banquet. Call Mark McKinney, Sponsorship Chairman (670-8555) for further information. Sponsor information must be received by the deadline to insure your organization is recognized during the banquet.

**REPLY TO:** Send your reservation and/or sponsorship to:  
**Mr. Mark McKinney, P.E.**  
**Cannon & Cannon, Inc.**  
**8550 Kingston Pike**  
**Knoxville, TN 37919**  
**(865) 670-8555**  
**(865) 670-8866 fax**

Make checks payable to the "Tennessee Society of Professional Engineers – East Tennessee 2009 All Engineers Banquet."

***2009 ALL ENGINEERS' BANQUET SPONSORSHIP INFORMATION***

Send your sponsorship form and check by February 6, 2009 to:

Mark McKinney  
 Cannon & Cannon, Inc.  
 8550 Kingston Pike  
 Knoxville, TN 37919  
 (865) 670-8555

<b>Sponsorship &amp; Price</b>	<b>Recognition &amp; Included Items</b>
<p align="center"><b>Speaker Sponsor \$2000 (min.)</b></p>	<p>Company Sign on Podium                      Participation in Slide Show*                      Recognition During the Program                      Firm Listed in Program                      Two tickets at Speaker's Table</p>
<p align="center"><b>Whole Table Sponsor \$1250</b></p>	<p>Banquet <b><u>Meal for 10</u></b>                      Table Placard, Participation in Slide Show*                      Firm Shown on Display Board, Listed in Program</p>
<p align="center"><b>Half Table Sponsor \$700</b></p>	<p>Banquet <b><u>Meal for 5</u></b>                      Table Placard                      Firm Shown on Display Board, Listed in Program</p>
<p align="center"><b>Gold Event Sponsor \$700</b></p>	<p>Participation in Slide Show*                      Firm Shown on Display Board                      Listed in Program</p>
<p align="center"><b>Silver Event Sponsor \$500</b></p>	<p>Firm Shown on Display Board                      Listed in Program</p>
<p align="center"><b>Bronze Event Sponsor \$300</b></p>	<p>Listed in Program</p>
<p align="center"><b>Additional Table \$500</b></p>	<p>If you need additional seating beyond the meals included in the sponsorship package.</p>
<p>* There will be a continuously running slide show during the social hour and during dinner. The slide show will highlight the represented engineering organizations and sponsors.</p>	

## Order of the Engineer Ceremony

There will be an induction ceremony for the Order of the Engineer 30 minutes prior to the start of the reception for the 2009 All Engineer's Banquet. Information about the Order of the Engineer is available at [www.order-of-the-engineer.org](http://www.order-of-the-engineer.org). The Order of the Engineer was initiated in the US to foster a spirit of pride and responsibility in the engineering profession, to bridge the gap between training and experience, and to present to the public a visible symbol (plain stainless steel ring, worn on small finger of working hand) identifying the engineer.

The ceremony is open to the public. To join the Order of the Engineer, one must either be within two semesters of graduating from an ABET-accredited engineering program, a graduate of an ABET-accredited engineering program, and/or a PE.

The National Society of Professional Engineers (NSPE) formally endorses membership in the Order of the Engineer.

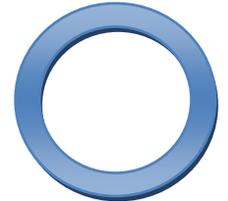
The one-time cost to join is \$10. To participate in the ceremony, one must prepay and register beforehand several weeks beforehand (so rings can

be ordered and shipped and certificates of membership prepared).

If you wish to join the Order of the Engineer on February 17, 2009, send a check for \$10, made out to "Order of the Engineer" to Joe Carson at 10953 Twin Harbour Drive, Knoxville, TN 37934 ([jpcarson@tds.net](mailto:jpcarson@tds.net)).

Letters must be postmarked by January 26, 2009. Include your ring size - go to a jewelry store to have the small finger of your working hand sized. Rings are available in sizes 2-13, in quarter increments.

(Excerpt from email from John Simpson, TSPE Secretary, to Paul Taylor)



*Your worth consists in what you are and not in what you have.*

**Thomas A. Edison,  
American Inventor (1847-1931)**

## Southern Appalachian Science and Engineering Fair

The 57<sup>th</sup> Southern Appalachian Science and Engineering Fair (SASEF) will be April 6-9, 2009 at the UT Thompson Boling Arena, Knoxville, TN.

The Southern Appalachian Science and Engineering Fair is sponsored by the University of Tennessee and Oak Ridge National Laboratory, as well as many local companies and agencies. 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.

If you would like to volunteer to assist with the SASEF, please see their web site at <http://www.sasef.com/>, or for additional information or contact:

Julie Werner, Fair Manager, Southern Appalachian Science and Engineering Fair

2506 EJ Chapman Dr.  
Knoxville, TN 37996-4531  
Phone: (865) 974-5158  
Fax: (865) 974-4514  
Email: [jwerner2@utk.edu](mailto:jwerner2@utk.edu)

(Source: <http://www.sasef.com/>)



## Activities Calendar

Date	Time	Topic	Speaker	Location
Feb 10	6:00 PM	Advanced Fuel Cycle Initiative Activities - Joint with ANS	Bob Jubin	Buddy's Bearden Banquet Hall
Feb 15-21		Engineers Week		
Feb 17		Engineers Week Banquet	Dr. Jerry Punch	Knoxville Convention Center
Mar 10	6:00 PM	Biodiesel Production - Nu-Energie	TBD	Calhoun's, Turkey Creek
April 6-9		SASEF		UT Thompson Boling Arena
April	6:00 PM	Student Awards	TBD	The University of TN
April 26-30		2009 AIChE Spring National Meeting and 5 <sup>th</sup> Global Congress on Process Safety		Tampa, FL
May	6:00 PM	Kimberly-Clark Plant Tour	TBD	TBD
June 12-14		2009 Leadership Development Conference		Augusta, GA
Nov 8-13		Annual Meeting		Gaylord Opryland Hotel, Nashville, TN

## 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

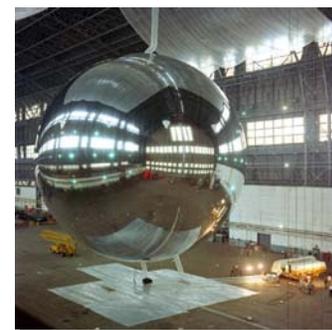
**\$45** half-page advertisement

**\$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!



(Source: NASA web site at <http://www.nasa.gov/multimedia/imagegallery/>)

## Officers

<b>Chair:</b>	Michael Hollander	300-5645	<a href="mailto:enviroms@att.net">enviroms@att.net</a>
<b>Chair-Elect:</b>	Jacob Hutton	560-1706	<a href="mailto:jacob.hutton@power.alstom.com">jacob.hutton@power.alstom.com</a>
<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>	Sharon Robinson	574-6779	<a href="mailto:robinsonsm@ornl.gov">robinsonsm@ornl.gov</a>
<b>Term ends 2010</b>	Mark Swientoniewski	574-1150	<a href="mailto:swientoniemd@bechteljacobs.org">swientoniemd@bechteljacobs.org</a>
<b>Term ends 2010</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	574-6147	<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>

*You can't expect to hit the jackpot if you don't put a few nickels in the machine.*

**Flip Wilson, American comedian, 1933-1998**

## Knoxville - Oak Ridge Section

P.O. Box 2008  
Bldg. 4500N, Room B14  
Oak Ridge, TN 37830-6243

Phone: 574-6147

Fax: 574-6986

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/>

## About Our Organization – AICHE Education and Training

Ongoing education and training are vital to getting ahead and staying ahead. AICHE offers hundreds of accredited continuing education programs, on-site training, e-learning, CD-ROMs, and other learning opportunities such as the following:

### Professional & Technical Training Courses

AICHE, together with ASME, offers [professional and technical training courses](#) taught by industry experts at selected sites around the country. Search on the ASME website for the title or the code of the course (identified in the AICHE Catalog) to get additional information on the course you are interested in. You can also download the [2009 Course Catalog](#).

### Certificates in Training

Enhance your qualifications, learn new skills, round out your repertoire. AICHE offers [Certificates in Training](#) in Security Vulnerability

Analysis and Capital Project Management.

### In-House Training Courses

Save travel time and expense by hosting [In-House Training Courses](#) at your site. AICHE can tailor training to address your company's specific needs.

### Distance Learning

AICHE offers its most popular classroom courses in chemical engineering essentials, distillation, and fluid mixing on CD-ROM for operators, technicians and even non-chemical engineering personnel. [Distance Learning](#) courses illustrate complex theories and concepts through colorful, animated graphics.

### Management and Leadership Training

Develop your management skills in over 200 seminars from the American Management Association. AICHE members receive a discount on all AMA

courses, conferences, and materials. The AMA is ranked among the top 20 Best Executive Education Programs. [Learn more.](#)

### Develop/Teach a Live Short Course

If you are a subject matter expert and have teaching experience, AICHE would like you to join the team. Contact Julie Nye at 212-591-7120 or [nyej@asme.org](mailto:nyej@asme.org). [Download the AICHE Course submission form here](#)

### Develop/Teach an Online Course

If you are a subject matter expert in chemical engineering and want to try this new delivery system, you may create an online course. Contact Julie Nye at 212-591-7120 or [nyej@asme.org](mailto:nyej@asme.org).

(Excerpt from AICHE Web site at: <http://www.aiche.org/CareersEducation/Education/index.aspx>)

P.O. BOX 2008  
BLDG. 4500N, ROOM B14  
OAK RIDGE, TN 37830-6243

