



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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January 2008 Meeting

Date: Thursday, January 17, 2008
Cost: \$15
Location: Mandarin House (694-0350) – 8111 Gleason Drive, Knoxville TN – Located near Downtown West, south of Regal Cinema

Menu: Buffet

5:30 pm Executive Committee Meeting (All members welcome)
6:00 pm Dinner
7:00 pm Program – Gregory M. Wenndt, Dupont-Tate & Lyle, **Producing 1,3 propane diol from Corn**

Abstract – DuPont-Tate & Lyle Bio-Products is a joint venture of DuPont and Tate & Lyle producing 1,3 propane diol from corn. As technology complexity grows, a well connected technical community becomes a necessity. Topics covered in the presentation includes the product we make, the wide range of applications in the marketplace, our process, general comments about the biotechnology and what it means for chemical engineers, and a Q&A period. This will be an interactive presentation with samples.

Bio – Gregory Wenndt is the Vice President of Operations of DuPont and Tate & Lyle Bio-Products. He has a B.S. Chemical Engineering from the University of Illinois in 1983 and has worked for Tate and Lyle for 24 years. Tate & Lyle is a global supplier of products made from renewable ingredients. Mr. Wenndt has worked in the sweetener plants, ethanol plant, food, industrial starch plants and research departments. He has held a variety of positions within engineering, quality control, and operations management and In 2001, headed up research efforts to develop a commercial process for 1,3 propane-diol from a biological route.

Please make your reservations as soon as possible, but no later than January 16, by contacting

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

The Section will subsidize up to 15 students.

Nominations for 2008 Local Section Officers and Directors Extended



"Ability is nothing without opportunity."

Napoleon Bonaparte

Ben Lewis is chairing the Knoxville-Oak Ridge section Nomination Committee and is looking for individuals to run for office for the Section for 2008.

Per the By-Laws, the following offices are elected each year: Chair-Elect, Secretary, Treasurer, and two Directors. The Chair-Elect is a three-year commitment. Directors serve for a two-year term. Secretary and Treasurer serve for one year.

Elections usually occur in December with the term beginning in January 2008; however, we have extended the nomination period to

continue the search for a qualified Chair-Elect candidate. The election for the Secretary, Treasurer, and two Directors will be held in January. Please see the ballot on page 3.

If you know of someone who would be willing to serve as the 2008 Chair-Elect, please contact Ben Lewis or one of the current section officers.

Job Postings

A new job posting was added to the local section's Area Jobs page, <http://www.ornl.gov/sci/aiche/jobs.htm>, on December 14, 2007. In addition a second posting was received on January 11, 2008; just in time for this edition of the newsletter.

The Area Jobs page includes several listings. Other job opportunity information is also available through the external links on our home page (<http://www.ornl.gov/sci/aiche/>) for the Oak Ridge DOE sites (Oak Ridge National Laboratory and the Y-12 National Security Complex).

The most recent listing on our Area Jobs page is summarized below:

1. Technical Manager in the Greater Bowling Green, Kentucky area. Excellent salary, bonus, relocation if necessary, and benefits plus growth. Ray Penley/RP Recruits, Charlotte NC, (704)793-1901, e-mail: penley@tcdi.net
2. Engineer for Hazen and Sawyer in the Lexington, KY/Cincinnati, OH area. Minimum 5 yr experience in planning, design and

construction of water resource projects required. Must be, or have the ability to be, a licensed Professional Engineer in Kentucky and Ohio. Contact John Steinmetz at (859)219-0631, e-mail: jsteinmetz@hazenan.com.

For more information on these and other opportunities, please see the local section web site.

Ballot — Knoxville-Oak Ridge AIChE Officers for 2008

Chair – Michael Hollander (Automatic succession)

Chair-Elect – We are still looking for a volunteer. If you are interested in running, please contact Ben Lewis (574-4091) or any local section officer for information.

Secretary (Select one)

David DePaoli
 Write in _____

Treasurer (Select one)

Paul Taylor
 Write in _____

Director (Select two)

Stuart Daw
 Tom Busmann
 Write in _____

Please bring ballots to January meeting, or send by email to: Linda Puckett at puckettlf@ornl.gov or by postal mail to:

Knoxville-Oak Ridge Section, AIChE
c/o Linda Puckett,
Oak Ridge National Laboratory,
P. O. Box 2008-6181,
Oak Ridge, TN 37831-6181

Thomas G. Busmann, P.E. received a B.S., Chemical Engineering, University of Idaho, Moscow, Idaho in 1980 and is a Principal in Focus Environmental, Inc., Knoxville, Tennessee, where he serves as the Manager of Process Engineering. As a member of AIChE since college, Tom has served the local section as director and Chair. Tom currently serves as Treasurer for the local A&WMA chapter. Tom's goal for the Knoxville / Oak Ridge Section is to increase participation by chemical engineers in the area and work to provide local students with opportunities to learn about chemical engineering. Tom has spent his 28 year career in consulting, serving numerous clients with the design, supply and operation of equipment, and technologies for the safe and economical management, treatment, and disposal of hazardous waste. His experience includes process design of numerous unit operations for compliance with Clean Air Act (CAA) and Resource Conservation and Recovery Act (RCRA) regulations. Recently, Tom has been assisting life science clients in compliance activities with FDA requirements.

C. Stuart Daw (P.E.), a native of Florida, received his B.S. in Chemical Engineering from the University of Florida and his M.S. and Ph.D. degrees in Chemical Engineering from the University of Tennessee. He is currently a Distinguished R&D Staff Member in the Engineering Science and Technology Division of the Oak Ridge National Laboratory (ORNL) and an adjunct faculty member in both Chemical and Mechanical Engineering at the University of Tennessee. He has worked at ORNL since 1979, primarily in combustion, waste treatment, emissions control, and applications of chaos theory. Prior to that time he was employed by DuPont where he specialized in chemical reactor modeling and process development. Dr. Daw has over 130 publications on combustion, multi-phase transport phenomena, chemical reactor modeling, catalysis, and nonlinear dynamics. Dr. Daw is a member of the American Institute of Chemical Engineers and the Combustion Institute, the ORNL representative to the American Flame Research Committee, and a former member of the Board of Advisors of the Central States Section of the Combustion Institute. He currently is a co-leader of the DOE Crosscut Lean Exhaust Emissions Reduction Simulation (CLEERS) activity of the DOE Diesel Crosscut Team.

David DePaoli is the group leader of the Separations and Materials Research group of the Nuclear Science and Technology Division at Oak Ridge National Laboratory. The group conducts fundamental and applied research aimed at applying chemical engineering principles to topics of national interest, including efficient chemical processing, advanced energy technologies, high-performance computing, and nanotechnology. David received a BS in chemical engineering from the University of Michigan, and a Ph.D in chemical engineering from the University of Tennessee. He has previously held several officer positions in the Knoxville-Oak Ridge local section and was a director of the Separations Division of AIChE from 2002 through 2007.

Paul Taylor is a senior development engineer in the Nuclear Science and Technology Division at Oak Ridge National Laboratory. He has been the membership chairman of the local section for many years, and has previously served as Chair, Treasurer, and Director. Paul is a registered professional engineer, and is a member of the National Society of Professional Engineers and the Water Environment Federation in addition to AIChE.

2008 ALL ENGINEER'S BANQUET

The 57th Annual National Engineers Week is February 17-23, 2008. It will be highlighted with the East Tennessee All Engineers Week Banquet on Tuesday, February 19th. The banquet will be held at the Knoxville Convention Center in downtown Knoxville with special guest speaker Coach Bruce Pearl. The Tennessee Society of Professional Engineers will host the event with participation by engineering organizations such as: TSITE, IEEE, ASCE, ASME, ASHRAE, AICHE, AFE, IIE, ASQ, SWE and ANE.

Coach Pearl is the head basketball coach at the University of Tennessee, where he has been since 2005. In two seasons at Tennessee, Pearl has led the Vols to an average of 23 wins per year, an SEC Eastern Division title and a pair of NCAA Tournament appearances. His 46 wins in his first two seasons are five more victories than any other UT coach. Pearl has achieved this success while playing in what is regarded as the toughest basketball league in the nation — the Southeastern Conference. Pearl's 22 SEC wins over the last two years is second only to two-time national champion Florida's 23 league wins during that time. Only one school in the SEC has a winning record against the Vols since Pearl's arrival. Pearl received National Coach of the Year in 2006 from The Sporting News, Basketball Times and CBS Sportsline.com.

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, companies may contribute by the purchase of tables (10 persons) and half tables (5 persons). This option includes banquet tickets plus 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. New this year, the Commitment Sponsor package includes a table for 10, a photo with the coach and a personalized autographed basketball for \$1,250.

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

Please mail the attached form with your contribution before February 8, 2008 to:

Mr. Gabriel Bolas
Knoxville Utilities Board – EO39
PO Box 59017
Knoxville, Tennessee 37950-9017

Make checks payable to the "Tennessee Society of Professional Engineers – East Tennessee 2008 All Engineers Banquet."

Thank you for your continued support and I hope to see you at the banquet.

Sincerely,

Mark McKinney, P.E.
Banquet Committee
TSPE-Knoxville Chapter



**ENGINEERS
WEEK 2008**
February 17-23

2008 ALL ENGINEER'S BANQUET REGISTRATION FORM

“Engineers Make a World of Difference”

-----FINAL DEADLINE FEB 8th, 2008-----

Place: Knoxville Convention Center, Downtown Knoxville
 Date: Tuesday, February 19th, 2008
 Time: 6:00 p.m. Social Hour with Slideshow
 7:00 p.m. Program and Dinner
 Speaker: Bruce Pearl, UT Head Basketball Coach
 Menu: Buffet

SIGNUP: Name: _____ Company: _____

Organization (ASCE, IEEE, etc.): _____ Contact No.: _____

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

Reservation	<input type="checkbox"/> Individual Reservation	\$35
	<input type="checkbox"/> Student Reservation	\$20
Table Sponsors	<input type="checkbox"/> Commitment (includes meal for 10 + more)	\$1,250
	<input type="checkbox"/> Table Sponsor (includes meal for 10)	\$1,000
	<input type="checkbox"/> Half-Table Sponsor (includes meal for 5)	\$550
Event Sponsors	<input type="checkbox"/> Speaker (maximum of four Speaker Sponsors)	\$2,000 min.
	<input type="checkbox"/> Gold	\$700
	<input type="checkbox"/> Silver	\$500
	<input type="checkbox"/> Bronze	\$300
Additional Items	<input type="checkbox"/> Additional Tables	\$350
	<input type="checkbox"/> Autographed Basketball	\$200
		Total: _____

Names of Attendees: _____

This is important so that everyone can have a nametag. Use 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 Gabriel Bolas, Sponsorship Chairman (558-2100) for further information. Complete this section only if you would like to be a sponsor and have not already signed up. 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. Gabriel Bolas P.E.
Knoxville Utilities Board – EO39
PO Box 59017
Knoxville, TN 37950-9017

Make checks payable to the “Tennessee Society of Professional Engineers – East Tennessee 2008 All Engineers Banquet.”

CONTACTS: Mark McKinney (228-8129) for further information.



2008 ALL ENGINEERS' BANQUET SPONSORSHIP INFORMATION

Send your sponsorship form and check by February 8, 2008 to

Gabriel Bolas
Knoxville Utilities Board – EO39
PO Box 59017
Knoxville, TN 37950-9017
(865) 588-2100

Sponsorship & Price	Recognition & Included Items
Speaker Sponsor \$2000 (min.)	Company Sign on Podium Participation in Slide Show* Recognition During the Program Firm Listed in Program Two tickets at Speaker's Table Personalized Autographed Basketball by Coach Pearl
Commitment Sponsor \$1250	Banquet Meal for 10 Table Placard, Participation in Slide Show* Firm Shown on Display Board, Listed in Program Picture with Coach Pearl and a Personalized Ball
Whole Table Sponsor \$1000	Banquet Meal for 10 Table Placard, Participation in Slide Show* Firm Shown on Display Board, Listed in Program
Half Table Sponsor \$550	Banquet Meal for 5 Table Placard Firm Shown on Display Board, Listed in Program
Gold Event Sponsor \$700	Participation in Slide Show* Firm Shown on Display Board Listed in Program
Silver Event Sponsor \$500	Firm Shown on Display Board Listed in Program
Bronze Event Sponsor \$300	Listed in Program
Additional Table \$350	If you need additional seating beyond the meals included in the sponsorship package.
Signed Ball \$200	Include an autographed basketball from Coach Pearl as part of your sponsorship package.

*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.

Activities Calendar

Date	Time	Topic	Speaker	Location
Jan 17	6:00 PM	Producing 1,3 propane diol from Corn	Gregory M. Wenndt, DuPont-Tate & Lyle	Mandarin House – 8111 Gleason Drive, Knoxville TN
Feb 5	6:00 PM	ITER – Joint meeting with ANS	ITER representative	Calhoun’s on the River
Mar 13 or 25	6:00 PM	U.T. Biodiesel car	TBD	TBD
Apr 6-10		2008 AICHe Spring National Meeting		New Orleans, LA
Apr 22 or 24	6:00 PM	Student Awards	TBD	TBD
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!



“The pessimist sees difficulty in every opportunity. The optimist sees the opportunity in every difficulty.”

Winston Churchill

Officers

Chair:	Michael Hollander	574-1150	enviroms@att.net
Chair-Elect:			
Secretary:	Doug Hayes	974-7991	dhayes1@utk.edu
Treasurer:	Paul Taylor	574-1965	taylorpa@ornl.gov
Directors:	Mark Swientoniewski	574-1150	swientonimd@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 2007	Stuart Daw	946-1341	dawcs@ornl.gov
Term ends 2007	Charles Forsberg	574-6783	forsbergcw@ornl.gov
Membership:	Paul Taylor	574-1965	taylorpa@ornl.gov
Newsletter:	Linda Puckett	574-6984	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

Knoxville - Oak Ridge Section

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Bldg. 4500N, Room B14
Oak Ridge, TN 37830-6243

Phone: 574-6984

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 Foundation

The AIChE Foundation is not a separately incorporated entity but is an activity of AIChE. The AIChE Foundation raises funds to support projects and activities that further the Institute's mission. Through the generosity of AIChE members and our partners in industry, the AIChE Foundation facilitates the development and implementation of new and enriched programs for members and the public.

Funds raised by the

AIChE Foundation have supported initiatives to interest children in chemical engineering and increase public awareness of the contributions chemical engineers make to the quality of life. Ongoing programs administered by the AIChE Foundation include scholarships and support of activities for students, women, and minority chemical engineers.

In order to continue these vital efforts and to assist the AIChE to embark upon

new initiatives, please consider supporting the AIChE Foundation with your tax-deductible (as allowed by law) donation.

(Excerpt from the National AIChE web site
<http://www.aiche.org/About/Foundation/index.aspx>)

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

