



## 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  
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## October 2012 Meeting

Date: Thursday, October 25, 2012  
Cost: \$20.00  
Location: Rothchild Catering and Conference Center, 8807 Kingston Pike, Knoxville TN

5:30 pm AIChE Executive Committee Meeting (All members welcome)  
6:00 pm Dinner – From menu  
7:00 pm Program – Tom Irwin, Program Manager, Tennessee Valley Authority  
Commercial and Industrial Distributor Delivery – **TVA's Energy Right Solutions Program**

Abstract – A review of all of TVA's energy efficiency programs offered under the Energy Right Solutions Program will be presented. Details of this program can be found at: [TVA Energy Right Solutions](#).

TVA's Energy Right Solutions offers a variety of programs to help home, business and industrial customers save energy and money. Helping our customers use energy wisely and efficiently is the right thing to do. In today's global economy, helping businesses remain efficient is vitally important. Increased efficiency helps keep costs lower for everyone and helps to ensure that existing jobs remain here in our area. It also makes our area more competitive for future plant expansions and even more jobs. Add these benefits to the avoided cost of additional power plant capacity and it becomes clear that TVA's Energy Right Solutions Program is a win-win for all parties concerned.

Bio – Tom Irwin is the Program Manager for TVA's Commercial and Industrial Energy Efficiency and Demand Response efforts here in east Tennessee. His work involves the promotion and implementation of energy efficiency and demand response programs in the commercial and industrial sectors of northeast Tennessee from Bristol, VA to the north and Lenoir City and Harriman to the south.

**Please make your reservations by noon, October 23, by contacting**  
Linda Puckett, [puckettlf@ornl.gov](mailto:puckettlf@ornl.gov), (865)574-6147 or  
Rita Gray, [rgray22@utk.edu](mailto:rgray22@utk.edu), (865)974-5356

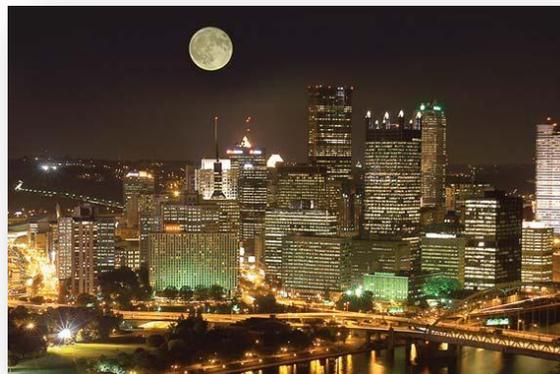
***The Section will subsidize up to 15 students,  
including graduate students***

## 2012 AIChE Annual Meeting

October 28 - November 2, 2012

**David L. Lawrence Convention Center, Pittsburgh, PA**

The AIChE Annual Meeting is the premier educational forum for chemical engineers interested in innovation and professional growth. This year's convention includes the following sessions:



Session Number	Session Name
01	<a href="#">Engineering Sciences and Fundamentals</a>
02	<a href="#">Separations Division</a>
03	<a href="#">Particle Technology Forum</a>
04	<a href="#">Education Division</a>
05	<a href="#">Management Division</a>
06	<a href="#">North American Mixing Forum</a>
07	<a href="#">Energy and Transport Processes</a>
08	<a href="#">Materials Engineering and Sciences Division</a>
09	<a href="#">Environmental Division</a>
10	<a href="#">Computing and Systems Technology Division</a>
11	<a href="#">Safety and Health Division</a>
12	<a href="#">Process Development Division</a>
14	<a href="#">Nuclear Engineering Division - See also T4: 2012 International Congress on Energy</a>
15	<a href="#">Food, Pharmaceutical &amp; Bioengineering Division - See also T1: Comprehensive Quality by Design in Pharmaceutical Development and Manufacture</a>
16	<a href="#">Fuels and Petrochemicals Division</a>
17	<a href="#">Forest and Plant Bioproducts Division - See also T4: 2012 International Congress on Energy</a>
18	<a href="#">Liaison Functions</a>
20	<a href="#">Catalysis and Reaction Engineering Division</a>
21	<a href="#">Computational Molecular Science and Engineering Forum</a>
22	<a href="#">Nanoscale Science and Engineering Forum</a>
23	<a href="#">Sustainable Engineering Forum</a>
24	<a href="#">Chemical Engineering &amp; the Law Forum</a>
T2	<a href="#">Topical 2: Global Nuclear and Solar Energy in the 21st Century (Now a part of T4: 2012 International Congress on Energy)</a>
T3	<a href="#">Topical 3: 2012 Annual Meeting of the American Electrophoresis Society (AES)</a>
T4	<a href="#">2012 International Congress on Energy (ICE)</a>
T5	<a href="#">Topical 5: Nanomaterials for Energy Applications</a>
T6	<a href="#">Topical 6: Lignocellulosics: Biorefineries and Sustainable Energy (Now a part of T4: 2012 International Congress on Energy)</a>
T7	<a href="#">Topical 7: Biomedical Applications of Chemical Engineering</a>
T8	<a href="#">Topical 8: Hydrogen Production and Storage (Now a part of T4: 2012 International Congress on Energy)</a>
T9	<a href="#">Topical 9: Sensors</a>
TA	<a href="#">Topical A: Systems Biology</a>
TB	<a href="#">Topical B: 2nd Annual World Congress on Sustainable Engineering</a>
TC	<a href="#">Topical C: Environmental Aspects, Applications, and Implications of Nanomaterials and Nanotechnology</a>
TD	<a href="#">Topical D: Accelerating Fossil Energy Technology Development Through Integrated Computation and Experimentation</a>
TG	<a href="#">Topical G: Innovations of Green Process Engineering for Sustainable Energy and Environment</a>
TI	<a href="#">Topical I: Comprehensive Quality by Design in Pharmaceutical Development and Manufacture</a>
TK	<a href="#">Topical K: Sustaining Water for Future Generations</a>

## Starting Salaries 2010-2011

The University of Tennessee Career Services organization posts salary information for a number of disciplines at <http://career.utk.edu/pdf/Salary%20Survey%202010-2011.pdf>. Information on job offers accepted immediately following graduation is compiled from employing organizations and graduates. The salary information for Bachelor's degrees is given in Table 1. Limited additional information on Masters Degrees is also available from UT's web site.

(Source: UT Career Services web site, <http://career.utk.edu/pdf/Salary%20Survey%202010-2011.pdf>)

**Table 1. Salaries accepted by 2010-2011 graduates.**

<i>BACHELORS</i> College/Major	#	High	Low	Mean 2010-2011	Mean 2009-2010	Mean 2008-2009	Mean 2007-2008	Mean 2006-2007
<b>AGRICULTURE</b>	16	76000	17000	34965	35333	33341	31830	30961
Agri Economics & Bus.	3	31500	17000	23447	NA	17680	NA	30552
Food & Ag Business	4	76000	17000	45933	NA	42000	NA	NA
Plant Sciences	3	35000	24000	28000	33500	NA	NA	NA
<b>ARCHITECTURE</b>	10	46000	19760	36622	27480	35833	39543	39118
Architecture	8	46000	24960	38808	27480	35833	40842	39118
<b>ARTS &amp; SCIENCES</b>	31	55000	14000	26765	30357	33087	36398	34055
Biological Sciences	3	46000	15080	35693	NA	NA	NA	NA
Mathematics	3	30000	14000	22033	NA	NA	NA	NA
Political Science	4	24000	15000	17650	33666	26585	36500	30298
Psychology	6	30000	18000	23420	27884	26850	29648	25297
Sociology	3	30000	18000	25167	NA	38500	NA	NA
<b>BUSINESS</b>	211	75000	18600	43742	43184	43861	43069	38783
Accounting	36	58240	30000	43959	42400	49159	44162	41404
Enterprise Management	4	40000	20800	31450	54000*	42444	42833	NA
Finance	24	75000	20000	45933	40117	43732	41706	42296
Human Resource Dev. & Mgmt	6	50000	24000	37767	34900	32186	27000	35250
Logistics & Transportation Management	84	67000	24960	48225	48755	49788	47564	45006
Management	19	60000	20000	36358	39696	46214	36500	38000
Marketing	30	70000	20800	40859	38987	34180	37775	36925
<b>COMMUNICATIONS</b>	15	43000	15392	26202	29686	33942	32060	31598
Communication Studies	4	42000	18000	30750	30142	33666	32473	35000
Journalism	6	33000	18000	24167	25476	24000	32366	31640
Public Relations	3	43000	24000	31000	30875	38000	31750	25400
<b>ENGINEERING</b>	<b>96</b>	<b>96000</b>	<b>18000</b>	<b>56225</b>	<b>56715</b>	<b>55608</b>	<b>53855</b>	<b>54067</b>
<b>Aerospace</b>	4	70000	18000	51562	57393	44833	57250	50300
<b>Biomedical</b>	4	96000	33000	61625	NA	43900	NA	NA
<b>Chemical</b>	<b>11</b>	<b>89000</b>	<b>26500</b>	<b>64604</b>	<b>67504</b>	<b>58346</b>	<b>65894</b>	<b>63416</b>
<b>Civil</b>	13	90000	21600	49831	45658	55423	47445	44325
<b>Computer Engineering</b>	6	69200	41600	53800	NA	48630	55000	56833
<b>Computer Science</b>	4	68000	30000	50500	NA	48630	55000	56833
<b>Electrical</b>	13	68000	50000	59512	56106	60500	55027	51760
<b>Industrial</b>	10	68000	21000	57538	55642	54273	52100	55000
<b>Mechanical</b>	26	96000	20000	56209	57787	55069	59017	56836
<b>Nuclear</b>	3	64200	50000	56067	59100	59021	57171	NA
<b>ED, HEALTH &amp; HUMAN SCI</b>	21	44000	15000	32323	31662	28753	35142	38642
Hotel, Restaurant, & Tourism	8	42000	15600	30998	31280	19760	31160	NA
Retail & Consumer Sciences	4	42000	38850	40613	40000	35542	38936	38642
Sport Management	4	38000	15000	29500	29604	35000	26804	NA

## Activities Calendar

Date	Time	Topic	Speaker	Location
Oct 25	6:00 PM	TVA's Energy Right Solutions Program	Tom Irwin - TVA	Rothchild's, Knoxville TN
Oct 28-Nov 2		2012 AIChE Annual Meeting		Pittsburg, Convention Center
Nov 15	6:00 PM	TBD	TBD	Rothchild's, Knoxville TN
Dec 6	6:00 PM	Cumberland Gap Caves	Stuart Daw – ORNL	Rothchild's, Knoxville TN
Jan 17	6:00 PM	Dandelion Roots to Rubber Pilot Plant for Ohio State University	David Pitts – Process Engineering Associates	TBD
Feb 21	6:00 PM	Exploding Stars and Atom Smashers, or Fukushima Cleanup (Joint with ANS)	Michael Smith or others	TBD
Mar 21	6:00 PM	Materials Topic – TBD (Joint with ASM)	TBD	TBD
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:

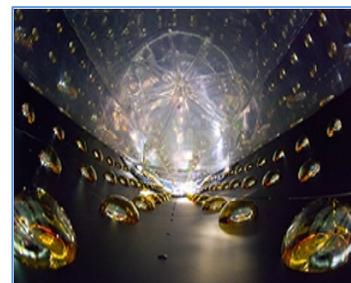
**\$80** full-page advertisement

**\$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!



Daya Bay Neutrino Experiment  
(Image courtesy of DOE Digital Photo Archive,  
<http://www.doedigitalarchive.doe.gov/enter.cfm>)

## Officers

<b>Chair:</b>	Jarrold Clark	259-6552	<a href="mailto:jarrod.clark@merrick.com">jarrod.clark@merrick.com</a>
<b>Chair-Elect:</b>	Abhijit Tarafder	974-0735	<a href="mailto:abhijit.tarafder@ion.chem.utk.edu">abhijit.tarafder@ion.chem.utk.edu</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>	Michael Aident	694-7333	<a href="mailto:Michael.Aident@shawgrp.com">Michael.Aident@shawgrp.com</a>
<b>Term ends 2012</b>	Michael Hollander	300-5645	<a href="mailto:enviroms@att.net">enviroms@att.net</a>
<b>Term ends 2012</b>	Sharon Robinson	574-6779	<a href="mailto:robinsonsm@ornl.gov">robinsonsm@ornl.gov</a>
<b>Term ends 2014</b>	Thomas Busmann	453-3538	<a href="mailto:tbusmann@focusenv.com">tbusmann@focusenv.com</a>
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<b>Website</b>			<a href="http://www.ornl.gov/aiche">http://www.ornl.gov/aiche</a>

*"It is never too late to be what you might have been."*

Mary Anne Evans  
(Pen name: George Evans)  
1819-1880  
English novelist

## Knoxville - Oak Ridge Section

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We're on the Web!

See us at:

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### About Our Organization... AIChE's New IdeaConnection

AIChE is pleased to offer a new member-only benefit called IdeaConnection. Both professionals and students are invited to participate.

IdeaConnection.com is all about innovation and creative solutions – solutions to R&D problems and solutions to problems that will benefit the Common Good. Companies have problems solved by select groups of great minds that work collaboratively in IdeaConnection's virtual ThinkSpace®. [Would your company like to participate?](#)

#### **AIChE Members— Helping the World Innovate**

Earn Money Solving Problems, Participating in Rallies, Sourcing Technologies, Doing Research.

Solve Problems for Pay and Enjoyment

Solve problems for enjoyment, and the potential to earn thousands of dollars for accepted solutions. Work on your own or as part of a problem solving team.

**Idea Rally™** – Participate in Idea Rallies to meet and work with your peers, discussing ideas in an intense, focused time capsule. Prizes for best ideas and participation up to \$10,000.

**Sourcing Technologies -** You can earn significant money by finding companies with particular manufacturing abilities, technologies, or patents. Register as a Problem Solver to receive invitations to source. \$2,000 per accepted lead.

**Research** – If you are interested in doing research, make sure to check off the "Research" checkbox in the categories listed on the sign up form. You will then be sent offers

to do research work.

**Invitation to Solve Problems as part of an Online Team** – Registered Problem Solvers are invited by email to solve problems. Once you agree to work on a problem, you are given the details of the challenge, and are introduced to your team members. It's a great opportunity to augment your income by working part-time in your spare time, or as a freelancer. And you can accept only the projects that interest you.

Learn more about each of the above IdeaConnection opportunities checking out the new IdeaConnection page on the national AIChE website.

(Source: <http://www.aiche.org/resources/member-services/ideaconnection> )

