



American Institute of Chemical Engineers Knoxville-Oak Ridge Section

For additional information about the Knoxville-Oak Ridge Section of AIChE see our Web site at: <http://www.ornl.gov/sci/aiche/>

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January 2017 Meeting

Date: Thursday, January 19, 2017
 Location: Rothchild Catering and Conference Center, 8807 Kingston Pike, Knoxville TN
 Cost: \$20 (Cash or Check at the door - **NOTE:** There is no cost for the program or PDH Certificate)
 5:00 pm Executive Committee Meeting (All members welcome)
 5:30 pm Social/Networking
 6:00 pm Dinner – Menu
 7:00 pm Program – Nick McClung, Manager of the Risk and Quality Assurance Department for TVA's Civil Projects and Coal Combustion Product, **Quality Assurance of Tennessee Valley Authority Landfills**

Abstract – The Kingston Ash Spill experience in 2008 transformed the management of Coal Combustion Products (CCPs) at the Tennessee Valley Authority (TVA). Since 2008, TVA has been in the process of reducing the risk associated with CCP ponds and landfills by converting wet storage of CCPs to dry storage, integrating state of the art instrumentation and monitoring tools and developing state of the art Quality Assurance (QA) practices for landfill management of CCPs. In 2012, TVA began the process of evaluating industry practices in landfill management of CCPs and general earthwork of dams. A pilot project began to evaluate the geotechnical characteristics of CCPs and the differences in standard QA processes of CCPs and earthen materials. TVA also began the development of a robust, cost efficient and automated process to monitor entire areas of landfills to insure the total volume was qualified versus the standard practice of spot checking. The pilot study resulted in a coupled design of engineering specifications for compacted CCPs and an automated field verification system using roller compactors known as intelligent compaction. The intelligent compaction system is calibrated with eight standard quality assurance field tests to insure engineering specifications are consistently represented in roller compacted maps. Once calibration is complete, the maps become the evaluation method for operators and engineers to validate the compaction of CCPs. CCPs often change based on coal blends, plant processes and time of placement and therefore the calibration process builds on these changes over time resulting in a database of maps that can be used when these conditions change. The Validated Intelligent Compaction Monitoring system allows TVA to monitor 100% of the volume of the landfills and insure these facilities pose as little risk to the environment as possible. This system is state of the art and practice and should revolutionize the manner in which CCP landfills are monitored throughout the power industry.

Bio – See page 2

Please make your reservations before noon, January 18, by contacting Paul Taylor, taylorpa@ornl.gov, (865)574-1965 or Amber Tipton, atipto11@utk.edu, 974-6458

See page 2 for an alternate electronic registration option using EventBrite

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

January 2017 Meeting (continued)

Bio - Nick McClung currently manages the Risk and Quality Assurance department for TVA Civil Projects and Coal Combustion Product (CCP) Management in Chattanooga. He previously was a TVA Program Manager for Dam Safety Technical Services and a Geotechnical Engineer at ARCADIS. He is a registered professional engineer and a graduate of The University of Tennessee at Chattanooga with a Bachelor of Science in Civil Engineering. He is described as a professional geotechnical engineer that is passionate about dams, levees and coal combustion impoundments and landfills.

Alternate Registration and Payment Option for Local Section Meeting Attendees

The Knoxville-Oak Ridge Section of AIChE is providing an alternate registration and payment option to cover the costs of meals, speakers, and student attendees at our monthly meeting. Attendees now have the option to pay by credit card using an online payment system at the following web-address:

<https://www.eventbrite.com/e/quality-assurance-of-tvas-landfills-tickets-31061100588>

If you use this service, the cost for the meeting will be \$22.09. If you do not want to use this web-based payment option, you may continue to pay \$20 at the door by cash or check.

Paul Taylor Recognized by Shining Star Award at National Meeting

Long-time Local Section Officer and current Treasurer for the Knoxville-Oak Ridge Section of AIChE, Paul Taylor, was awarded the Shining Star award at the 2016 National AIChE Meeting in San Francisco. The Shining Star award recognizes outstanding volunteerism at the local section level and is for volunteers that show:

- Dedication and personal commitment to AIChE and the Local Section
- Willingness to take on a daunting task
- Eagerness to set an example for others
- Willingness to step up and help the section when it needed it the most
- A long history of service to the section
- Infusion of new ideas / energy into the section



Paul Taylor receiving Shining Star Award from Past AIChE President, Gregory Stephanopoulos

2017 Knoxville-Oak Ridge AIChE Section Election Results

The votes have been counted and the election results for the 2017 Knoxville-Oak Ridge Section have been sanctioned. A total of 13 votes were cast to elect the following officers:

Chair Elect: Kyle Mack
 Secretary: David DePaoli
 Treasurer: Paul Taylor
 Director: Kaara Patton
 Director: Lindsey Stinson

We have two directors that have not previously served on board - please welcome, Kaara Patton and Lindsey Stinson. Also, please extend your appreciation to Stuart Daw and Bamin Khomami for their service as past directors.

UT Student Poster Presentation at January Meeting

University of Tennessee Chemical and Biomolecular Engineering PhD student, Baker Martin, will present a poster on his research, titled: **Hydrogen Production from a Sortase Mediated Fusion of Photosystem I and Hydrogenase**, at the January meeting of the Knoxville-Oak Ridge Section of AIChE. You are invited to either come at 5:30 p.m. or stay after the regular meeting to talk with Baker about his work.

Abstract – Climate and uncertain long-term availability issues associated with fossil fuels have motivated research to find alternative fuels that minimize these problems. Molecular hydrogen is one such source of fuel and is an energy carrier that can be produced by splitting water while harvesting energy from the sun. Using Photosystem I from the cyanobacterium *Synechocystis* sp. PCC 6803 and a Ni-Fe hydrogenase from the heterotrophic soil bacterium *R. eutropha*, we hope to develop a system for producing hydrogen from light in a sustainable and carbon-free manner. For production to occur, the two proteins must be in close proximity to each other and appropriately oriented; this work proposes a sortase mediated ligation method for attaching the two proteins that has proven successful in similar applications¹. Computer simulation will be used to screen the most likely candidate fusion products in silico. The most promising fusions will be constructed by modifying the two proteins to allow for the sortase coupling reaction. Upon completion of the fusion of the proteins, assays will be performed for hydrogenase activity and light dependent hydrogen production.



Baker Martin

References

1. Le, R. K., et al. (2015). "Sortase-Mediated Ligation of PsaE-Modified Photosystem I from *Synechocystis* sp. PCC 6803 to a Conductive Surface for Enhanced Photocurrent Production on a Gold Electrode." *Langmuir* **31**(3): 1180-1188.

Bio – Baker Martin is a Ph.D. student in the Department of Chemical and Biomolecular Engineering at The University of Tennessee, Knoxville working with Dr. Paul Frymier. His research focus is in sustainable, renewable energy and works on producing molecular hydrogen using protein-protein fusions. He holds a B.S. in Chemical Engineering from Virginia Tech and is from Bristol, Virginia.

AIChE Announces New Award for Young Professionals

The AIChE recently announced a new award for 2017 that is specifically aimed at outstanding young professionals under the age of 35. This award seeks to identify and recognize the outstanding achievements and contributions of some of the best and brightest young chemical engineers in our field. The *35 Under 35 Awards* will honor the top 35 chemical engineers under 35 (who are AIChE members). AIChE is currently soliciting nominations. You can find more information about this award at: <http://www.aiche.org/community/awards/aiches-35-under-35-award>.

The nomination form is straightforward and only requires 1 additional letter of recommendation. The winner will get to attend an Awards reception at the Annual 2017 meeting, receive a cash prize (meant to offset travel costs to Annual in case they don't have company funding), and be part of a *Chemical Engineering Progress* write up. The deadline for nominations is January 31, 2017.

Nominees will be critiqued on their involvement within AIChE throughout their career, their excellence shown in a specific



award category, their professional activities outside of work relating to the award category, and their potential for future growth within AIChE and their career field.


I would encourage anyone who works with any young professional who meet the requirements (AIChE member, and born after 1983) to consider nominating them for this award.



VOLUNTEER'S CORNER

Engineers making a difference in our community

Date	Event
Anytime	Junior Achievement <ul style="list-style-type: none"> Interested in teaching Math or Science to a Middle/High Schooler? Check out the Junior Achievement site at: www.jaeasttennessee.com.
Anytime	AICHE Young Professionals Committee We sponsor a competition for our collegiate student chapters, the Global Undergraduate Student Video Competition . This competition requires chapters to create a video about a relevant chemical engineering subject that will be shown to high school students to teach them about that topic, and ultimately encourage them to study chemical engineering.
Anytime	AICHE Academy AICHE Academy can deliver chemical engineering educational resources to help Chemical Engineering professionals connect, learn, and solve pressing challenges. Visit www.aiche.org/academy and see what AICHE Academy has to offer. <div style="text-align: center;">  </div>
Anytime	AICHE K-OR section needs help with: <ul style="list-style-type: none"> Social Media Committee – The local section desires to establish a presence on various social media outlets, such as: Facebook™, Twitter™, LinkedIn™, and YouTube™. Young Professionals Committee – The local section desires to establish a Young Professional's Group to increase participation and interactions with young chemical engineers within the East Tennessee region. Monthly Newsletter - Submit an Article, Editor-At-Large AICHE K-OR Webmaster
Anytime	Engineer's Without Borders – http://www.ewb-usa.org
Anytime	<div style="text-align: center;">  </div> <p>Why did you choose to be a tnAchieves mentor? I truly believe the Tennessee Promise is a game changer for our state. Working with students who until now did not believe college was a possibility for them is amazing. This program is changing lives and improving our state. I am proud to be a small part of that effort.</p>

	<p>If you have not yet registered to mentor with the Class of 2017 and would like to do so please visit https://tnachieves.org/mentors/apply/ to do so today!</p>
January	
February 17-18, 2017	<p>Tennessee Science Bowl See http://www.orau.gov/sciencebowl/volunteers/index.html for details.</p> 
February 18, 2017	<p>Boy Scouts Merit Badge College Roane State Community College - Merit Badge College</p> <ul style="list-style-type: none"> • Help teach the chemistry merit badge • Contact Paul Taylor or Mark Swientoniewski if you can help
February 19-25, 2017	<p>Engineer's Week – DiscoverE.org As part of Engineer's Week, Consolidated Nuclear Security, LLC, (Y-12) is soliciting volunteers to conduct visits to local schools in the February 20-24 and beyond timeframe. For more information on this service opportunity contact: Kristin Waldschlager Community and Education Outreach Communications & Public Affairs waldschlagkj@y12.doe.gov (865) 574-8934 Office (865) 363-0633 Cell</p>
March	<p>Chem-E-Car Competition AIChE's annual Chem-E-Car Competition® engages college students in designing and constructing a car powered by a chemical energy source, that will safely carry a specified load over a given distance and stop.</p>
March 9, 2017	<p>Tate's School of Discovery Science Fair Judges are needed for 3rd, 4th, and 5th grade participants. Time: 8:00 AM - 2:00 PM Location: Tate's School of Discovery</p>
March 24 - 25 2017	<p>Volunteer judges needed for FIRST Robotics TNFIRST (For Inspiration and Recognition of Science and Technology in Tennessee) is seeking volunteers to serve as judges at the TNFIRST Robotics regional competition March 24-25.</p> <p>During the competition, high school student participants build and program industrial-sized robots to play a difficult field game against like-minded competitors. Both technical and non-technical judges are needed since categories judged include business and sportsmanship as well as engineering and other technical fields. Volunteer judges must commit to attending from 7 a.m.-5 p.m. on both March 24 and March 25 at the Thompson-Boling Arena in</p>

	<p>downtown Knoxville. To volunteer or for more information, contact Patti Jones (PJK) at 241-8073.</p> <p>FIRST is a 501 (c) (3) not-for-profit public charity founded in 1989 to design accessible, innovative programs that motivate young people to pursue education and career opportunities in science, technology, engineering and math, while building self-confidence, knowledge and life skills. TNFIRST's website is here.</p>
March 27-30, 2017	<p>Southern Appalachian Science & Engineering Fair (SASEF) UTK Thompson Boling Arena To register as a judge: http://sasef.com/. Select "Judges" and then "Register Online."</p>
March 31, 2017 – April 1, 2017	<p>AIChE UT Student Chapter is hosting a regional conference 2017 Southern Student Regional Conference March 31 - April 1, 2017 University of Tennessee, Knoxville Conference Highlights include Regional Chem-E-Car Competition, Regional ChemE Jeopardy Competition and Regional Student Paper and Poster Competitions. Conference Chairs: Mary McBride and Melanie Lindsey (aiche_src17@utk.edu) Advisor: Eric Boder (boder@utk.edu)</p>
April 3, 2017	<p>Regional Elementary Science Fair Judges are needed for 3rd, 4th, and 5th grade participants from regional private schools. Time: 9:30 AM - 5:00 PM Location: Knoxville Christian Center</p>
May	
June	<p>Volkswagen-Sponsored Camp Introduces Students to UT, Engineering With the Volkswagen-sponsored Engineering VOLunteers for Tenth Graders, or eVOL10, now under way at the University of Tennessee, Knoxville, College of Engineering, students in high school and middle school are getting a chance to take a deeper look into future possibilities in science, technology, engineering and mathematics, or STEM.</p>
July	<p>AIChE K-OR Planning Meeting for the upcoming academic year needs ideas and help planning speakers and arranging meeting locations.</p>
August	
September	
October	
November	
December	



2017 TSPE STEM Banquet

The 2017 Tennessee Society for Professional Engineers (TSPE) Science, Technology, Engineering and Mathematics (STEM) banquet will be here soon. This year the TSPE is giving away over \$10,000 in scholarships and grants to high schools and college students and is soliciting your help to continue to support our local students and teachers by sponsoring and attending the banquet. Registration information, sponsorship letter, and sponsorship levels are given below. The TSPE STEM banquet will be held at the Knoxville Marriot on February 21, 2017.



Fellow Professional:

You are invited to join us on Tuesday, February 21, 2017 for a celebration of STEM educators, engineers, and their impact on society. In conjunction with Engineer's Week, the Knoxville Chapter of the Tennessee Society of Professional Engineers (TSPE) is hosting a banquet to raise funds to support our local STEM educators. Proceeds from the banquet will be used to help fund the Grants for Engineering, Arithmetic, and Science (GEArS) Education Program, and our college scholarship program. The GEArS Education Program is designed to provide small grants for schools or teachers promote STEM education. Due to your generosity we will be able to continue awarding college scholarships for the second year in a row.

The banquet will be held at the Knoxville Marriott on Hill Avenue. Our guest speaker is Samuel C. Weaver serves as President of Proton Power, Inc., a renewable energy company producing hydrogen on demand from cellulose for use as heat, power generation, hydrogen production or liquid fuel production. For the last 40 years Sam has been a serial entrepreneur founding and running over a dozen companies primarily in the advanced materials and energy fields. Sam has 14 patents, was made a Fellow of ASTM when he received their Award of Merit, received entrepreneurial awards from the governors of Missouri and Tennessee, awarded an honorary Professional Degree from University of Missouri-Rolla and inducted into the Academy for the UMR School of Mines. Sam has served as President, Rotary Club of Knoxville and a member of 2011 Leadership Knoxville. Sam has a B.S. in Metallurgical Engineering from University of Missouri-Rolla and M.S. and PhD in Metallurgical Engineering from University of Tennessee.

For this year's event, there are three categories of sponsorship:

- 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. Another option for table sponsorship is to sponsor a charitable table. If you have involvement with a local school or organization that you would like to see involved in Engineer's Week, this would be a great opportunity to introduce them to engineers. Please contact Sharon Deane if you would like to sponsor a charitable table.

Please mail the attached form with your contribution before February 17, 2017 to:

Mrs. Sharon Deane, P.E.
Vaughn and Melton
1909 Ailor Ave
Knoxville, TN 37921
(865) 264-0851

Make checks payable to the "Tennessee Society of Professional Engineers", and list the banquet on the memo line.

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

Sincerely,

A handwritten signature in black ink that reads 'Sharon Deane'.

Sharon Deane
Banquet Chair, TSPE-Knoxville Chapter

2017 TSPE BANQUET REGISTRATION FORM

-----FINAL DEADLINE FEB 17th, 2017-----

Place: Knoxville Marriott on Hill Avenue

Date: Tuesday, February 21st, 2017

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

Speaker: Samuel C. Weaver, President of Proton Power, Inc.

Menu: Chicken Florentine, roasted red potatoes, green beans, salad, rolls, dessert*
*dietary restrictions can be accommodated, contact Sharon Deane for details

SIGN UP: Name: _____ Company: _____

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

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

Reservation	<input type="checkbox"/> Individual Reservation	\$50
	<input type="checkbox"/> Student Reservation	\$25
Event Sponsors	<input type="checkbox"/> Speaker (max. of four Speaker Sponsors)	\$2,000 min.
	<input type="checkbox"/> Platinum	\$1,200
	<input type="checkbox"/> Gold	\$800
	<input type="checkbox"/> Silver	\$600
Additional Items	<input type="checkbox"/> Additional Tables	\$500
	<input type="checkbox"/> Charitable Table (See letter for details)	\$400

Total: _____

Names of Attendees: _____

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

All proceeds go to fund the Grants for Engineering, Arithmetic, and Science Program and the Knoxville TSPE scholarship fund. All sponsors will be recognized at the banquet. Call Sharon Deane (865-558-2693) 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:

Mrs. Sharon Deane, P.E.
Vaughn and Melton
1909 Ailor Ave
Knoxville, TN 37921
(865) 264-0851
Email: ssdeane@vaughnmelton.com

Make checks payable to the "Tennessee Society of Professional Engineers", include the banquet in the memo line.

2017 TSPE BANQUET SPONSORSHIP INFORMATION

Send your sponsorship form and check by February 17, 2017 to:

Mrs. Sharon Deane, P.E.
 Vaughn and Melton
 1909 Ailor Ave
 Knoxville, TN 37921
 (865) 264-0851
 Email: ssdeane@vaughnmelton.com

Sponsorship & Price	Recognition & Included Items
<p>Speaker Sponsor \$2,000 (min.)</p>	<p><u>Two tickets at Speaker's Table</u> Company Sign on Podium Participation in Slide Show* Recognition During the Program Listed in Program</p>
<p>Platinum Event Sponsor \$1,200</p>	<p>Banquet <u>Meal for 10</u> Participation in Slide Show* Shown on Display Board, Listed in Program</p>
<p>Gold Event Sponsor \$800</p>	<p>Banquet <u>Meal for 5</u> Participation in Slide Show* Shown on Display Board Listed in Program</p>
<p>Silver Event Sponsor \$600</p>	<p>Banquet <u>Meal for 2</u> Shown on Display Board Listed in Program</p>
<p>Table Sponsor/Additional Table \$500</p>	<p>Sponsorship of a table (10 meals), or if you need additional seating beyond the meals included in other sponsorship packages.</p>
<p>Charitable Table \$400</p>	<p>If you would like to sponsor a table for a group of people (teachers from a particular school, Boy/Girl Scout Troop), please contact Sharon Deane. Organizations sponsoring charitable tables will be recognized during the evening.</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>	

Activities Calendar

Date	Time	Topic	Speaker	Location
Jan 19	6:00 PM	Quality Assurance of TVA Landfills	Nick McClung	Rothchild's, Knoxville TN
Feb 21	6:00 PM	Joint meeting with ANS – Tennessee (element 117) Discovery	Jim Roberto, ORNL	Calhoun's, Oak Ridge TN
Mar 23	6:00 PM	Joint meeting with UT Student Chapter – Unit Operations Lab Tour	TBD	UT – Dougherty
Mar 26-30		2017 Spring Meeting and 13th Global Congress on Process Safety		Henry Gonzalez Convention Center, San Antonio, TX
Apr 18	6:00 PM	A Peripatetic Life – The Life of an Engineer	Emory Ford, Emeritus Director of MTI	Rothchild's, Knoxville TN
Apr 20		UT Department of Chemical & Biomolecular Engineering Awards Banquet		TBD
May 16	6:00 PM	Finances	Jim Brogan, Brogan Financial	Rothchild's, Knoxville TN
Oct 29 – Nov 3		2017 AICHe Annual Meeting		Minneapolis Hilton and Convention Center, Minneapolis, MN

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!



Plug-in hybrid vehicle – BMW i8 - courtesy of the DOE Photo Archive at:
<https://www.energy.gov/eere/photos/electric-vehicles>

Officers

Chair:	Jae-Soon Choi	946-1368	choijs@ornl.gov
Chair-Elect:	Kyle Mack	(423)747-7947	kylematthewmack@gmail.com
Secretary:	David DePaoli	574-6817	depaolidw@ornl.gov
Treasurer:	Paul Taylor	574-1965	taylorpa@ornl.gov
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Term 2016-2017	Sharon Robinson	574-6779	robinsonsm@ornl.gov
Term 2017-2018	Kaara Patton	241-6128	kaara.patton@cns.doe.gov
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"The truth of the matter is that you always know the right thing to do. The hard part is doing it."

H. Norman Schwarzkopf
 US Army General, Stormin' Norman
 (1934-2012)

Knoxville - Oak Ridge Section

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We're on the Web!

See us at:

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

Editor: B. Lewis

About Our Organization...Member Discounts

AIChE offers its members a wide array of services and resources—information, career, professional connections, education, recognition, savings, and personal benefits. Some of the member benefits are as follows:

Member Insurance Solutions

AIChE offers members portable insurance plans you can take with you when you change jobs or careers. See information on health plans, life insurance, disability insurance, professional liability, auto, home, tenant insurance, pet insurance, and more.

AIChE Emergency Assistance Plus (EA+) Program

Coordinate care, travel and more during unexpected emergencies while away from home.

Office Depot

AIChE has partnered with Office Depot to bring you a FREE national discount program. Save up to 80% off preferred products!

AZIGO Shopping Mall

Azigo is an online shopping mall where AIChE members can earn lots of cash back for shopping at your favorite stores. Receive cash back from stores such as Kohl's, Target, Nordstrom,

Zappos, 1-800 Flowers, and Sephora.

Travel Benefits

AIChE is proud to offer new member-only travel benefits from Wyndham, Red Roof Inn, and Cruises Only. Plus car rental discounts from Hertz and Avis.

UPS Discounts

AIChE members receive substantial discounts on overnight shipping with UPS, the world's largest package distribution company. Save up to 26% off shipping.

LifeLine Screening [New Benefit]

Affordable Lifeline Screening Discounts for AIChE members

Healthy Paws Pet Insurance

Healthy Paws Pet Insurance covers your pet from head to paw—for a lifetime. The pet insurance plan pays your actual veterinary bill and covers injuries, illnesses, emergencies, genetic conditions and much more.

(Excerpt from AIChE website:

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

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OAK RIDGE, TN 37830-6243