

American Institute of Chemical Engineers Knoxville-Oak Ridge Section

For additional information, see our Facebook page: <https://www.facebook.com/AICHEKnoxOR/>.

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December 2022 Meeting – Plant Tour (Spouse/Significant Others Welcome)

Date: Thursday, December 8, 2022
Location: Standard Aero, 1029 Ross Dr., Maryville, TN 37801

(See Page 4 for a Location Map and Directions)

Attending the Tour is Free. **Please use Eventbrite to register.**

IMPORTANT: Eventbrite tour registration deadline is **December 1, 2022 and you must send your full name (first, middle, last) and local address to: [Mark Swintoniewski](mailto:Mark.Swintoniewski@standardaero.com) in order to provide a U.S. Person background check according to International Trafficking in Arms Regulations (ITAR).**

Pursuant to the ITAR and the EAR, a U.S. Person includes the following:

- Any individual who is granted U.S. citizenship; or
- Any individual who is granted U.S. permanent residence ("Green Card" holder); or
- Any individual who is granted status as a "protected person" under 8 U.S.C. § 1324b(a)(3) Protected individuals under 8 U.S.C. § 1324b(a)(3) include, among other classes of immigrants, refugees and asylees.

5:30 pm Program – Standard Aero Tour, safety shoes and safety glasses will not be required.

7:00 pm Travel to Waterfront Bar & Grill for Dinner, 404 Greenbelt Dr, Maryville, TN 37804

(See Page 4 for a Waterfront Bar & Grill Map and Directions)

7:15 pm Dinner – Pay for your own meal (Please use Eventbrite in advance so that we may reserve enough table space. **There is no charge for the program or PDH Certificate**)

8:00 pm Executive Committee Meeting, at dinner location, (All members welcome)

Standard Aero Tour

(See page 2 for the continuation about the program)

Please make your reservations by noon Thursday December 1.

Register through Eventbrite (see page 2)

Contact Paul Taylor, (865) 898-5724,
or Karin Grindall, (865) 974-5356
if you need help with making an Eventbrite reservation.
Please use Eventbrite so that we may know that you will be attending.

Student attendance is encouraged.

December 2022 Meeting (continued)

Abstract – (Continued)



Image Source and Credit: [StandardAero](https://www.standardaero.com)

StandardAero started in 1911 as Standard Machine Works in Winnipeg, Canada and has grown to become the largest independent Maintenance, Repair, and Operations (MRO) in the world. We service a huge range of aviation, marine, and power generation products in civil and military applications at locations worldwide. The Maryville facility started life in 1995 as Alliance Engines servicing Honeywell turbine engines and auxiliary power units (APU's). StandardAero purchased Alliance Engines in 1997 and introduced the Rolls-Royce AE product line. Maryville has serviced over 5000 AE3007 turbofan engines from ERJ-145 and Cessna Citation X jets, 450 AE1107C turboshaft engines from the V-22 Osprey, 120 AE2100D3 turboprop engines from the C-130J Hercules, and over 6000 APU's from Pratt & Whitney, Honeywell, Hamilton Sundstrand, and SAFRAN. The Maryville facility is about 160,000 sqft with about 250 employees in 2 buildings.

Please see Page 3 for a continuation of the Speaker's Biography.

Eventbrite Registration and Payment Options

Please make your reservations by noon Thursday December 1.

You are encouraged to use Eventbrite to register for our monthly section meetings. We would like to have a meeting room big enough to seat everyone. We can send a PDH Certificate to your email address. Eventbrite is easy to use and requires no subscription or installation of software. You can select the type of participation you are planning.

The Standard Aero Tour is at no charge. There is no charge for the PDH Certificate.

Dinner will be at the Waterfront Bar & Grill, 404 Greenbelt Dr., Maryville, TN 37804. Dinner is pay for your own meal (Please use Eventbrite in advance so that we may reserve enough table space).

(See Page 4 for a Waterfront Bar & Grill Map and Directions)

The link to register for the December meeting: <https://www.eventbrite.com/e/standard-aero-tour-tickets-471930385487>

Options for registration are:

- | | |
|--|------|
| • Standard Aero Tour | FREE |
| • Dinner at Waterfront Bar & Grill (Pay for your own meal) | FREE |
| • Professional Development Hour (PDH) Certificate | FREE |

If you have any questions or suggestions on the use of Eventbrite, please contact Kyle Mack at (423) 747-7947 or kylematthewmack@gmail.com.

December 2022 Meeting (continued)

Tour Guide and Speaker Biography – Patrick Jennings, StandardAero



Image Source and Credit: Patrick Jennings

Patrick has a BSME and MSME from Tennessee Tech. Patrick has worked in the auto industry for about 7 years as a steering system design engineer. He has helped design products for Chrysler, GM, Nissan, Kia, Hyundai, and Ferrari. He has spent a brief time designing industrial product before landing at StandardAero. Patrick was a Repair Development Engineer for about 13 years which involves setting up a wide variety of component repair processes. In 2020 Patrick moved to the role of Service Engineer where he is responsible for the AE2100D3 engine product line.



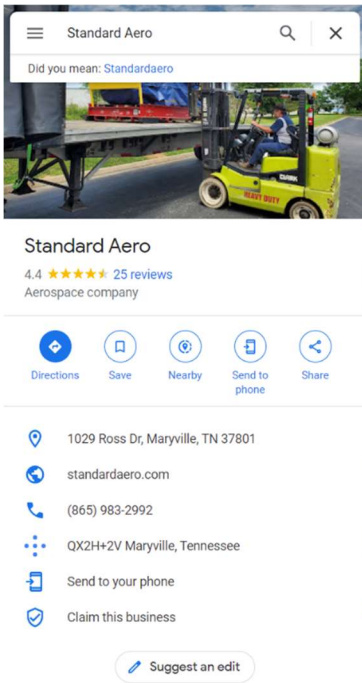
Image Source and Credit: [StandardAero](#)

Student Poster Presentation at the December 2022 Meeting

There is no UT student poster presentation for the December meeting.


Location for the December 2022 Meeting

Standard Aero Tour, 1029 Ross Dr., Maryville, TN 37801



Standard Aero

Did you mean: Standardaero



Standard Aero

4.4 ★★★★★ 25 reviews
Aerospace company

Directions Save Nearby Send to phone Share

1029 Ross Dr, Maryville, TN 37801

standardaero.com

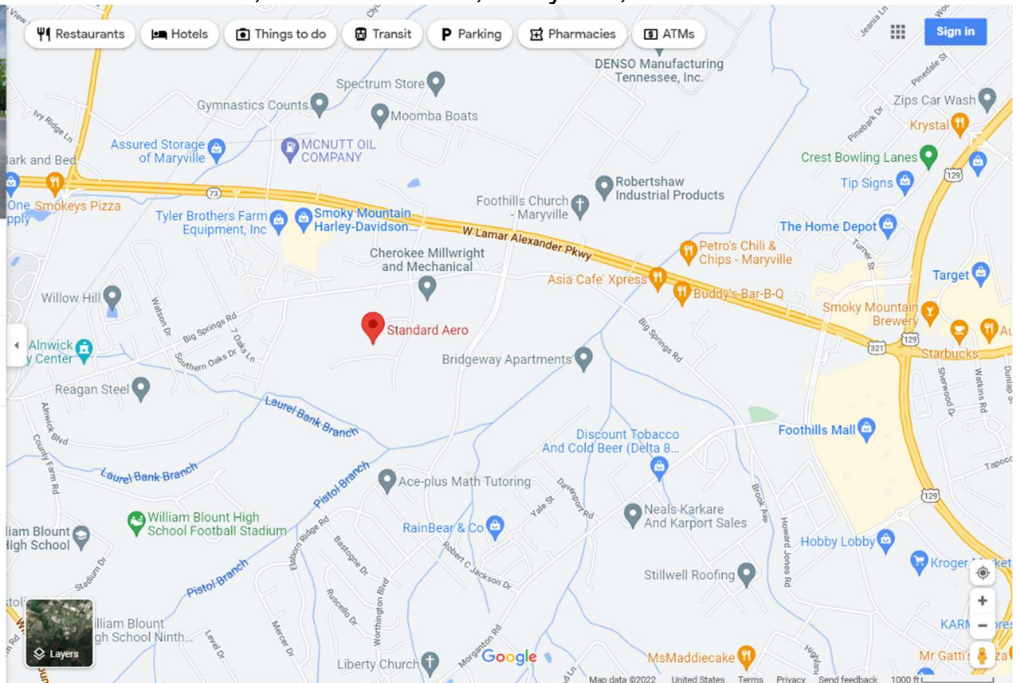
(865) 983-2992

QX2H+2V Maryville, Tennessee

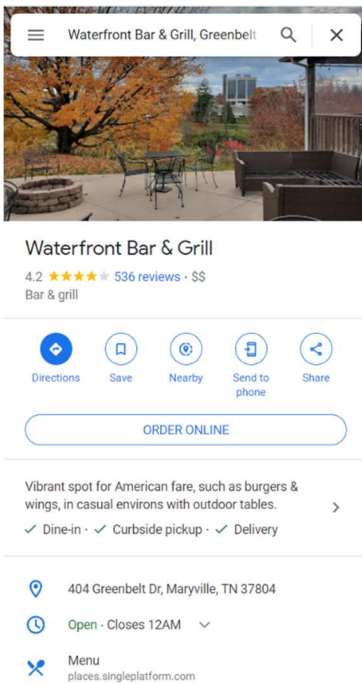
Send to your phone

Claim this business

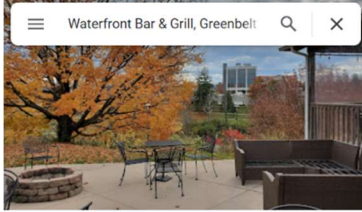
Suggest an edit



Waterfront Bar & Grill for Dinner, 404 Greenbelt Dr., Maryville, TN 37804



Waterfront Bar & Grill, Greenbelt



Waterfront Bar & Grill

4.2 ★★★★★ 536 reviews · \$\$
Bar & grill

Directions Save Nearby Send to phone Share

ORDER ONLINE

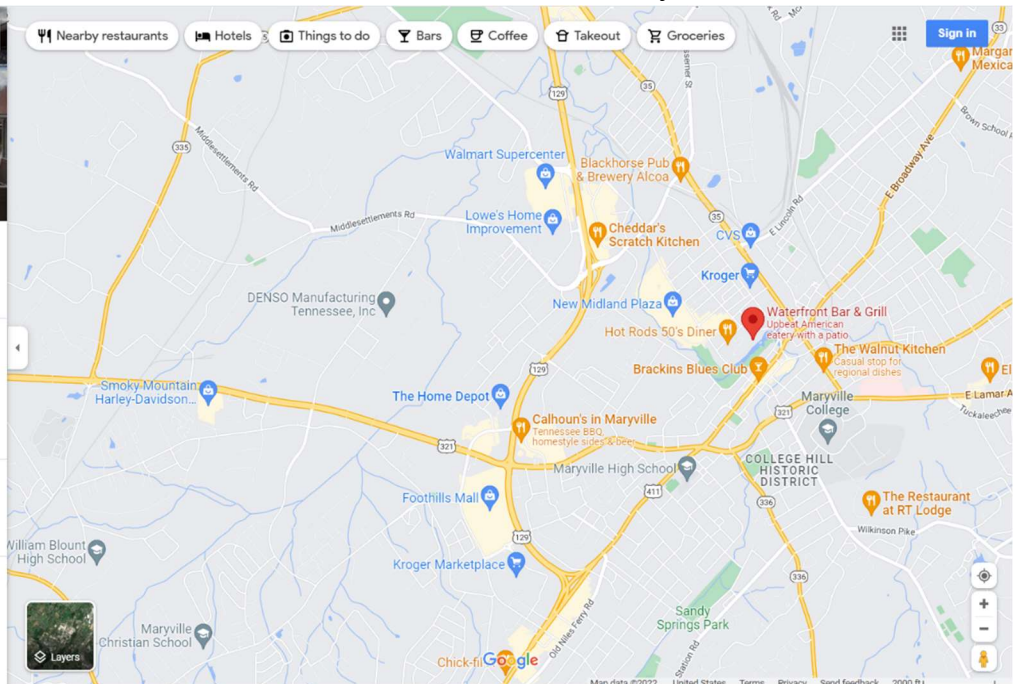
Vibrant spot for American fare, such as burgers & wings, in casual environs with outdoor tables.

✓ Dine-in · ✓ Curbside pickup · ✓ Delivery

404 Greenbelt Dr, Maryville, TN 37804

Open · Closes 12AM

Menu
places.singleplatform.com



AIChE Knoxville – Oak Ridge Local Section 2023 Officer Elections

The AIChE KOR will hold 2023 Officers' elections in December. Look for your ballot in your email coming soon!



Image Source and Credit: [aiche.org](https://www.aiche.org)



Image Source and Credit: [umc.org](https://www.umc.org)

American Chemical Society East Tennessee Local Section

The American Chemical Society East Tennessee Local Section has opportunities for professional technical presentations including the S. C. Lind Lecture Series.

Please visit their website for more information.

[American Chemical Society East Tennessee Local Section](#)



Image Source and Credit: American Chemical Society East Tennessee Local Section

Tennessee Society of Professional Engineers, Knoxville Chapter

The Tennessee Society of Professional Engineers, Knoxville Chapter holds monthly meetings with a variety of speakers.

The next TSPE Knoxville chapter meeting is on Wednesday, December 28, 2022, 11:30am – 1:00pm, Bearden Banquet Hall, 5806 Kingston Pike, Knoxville, TN 37919, USA, Speaker: TBD.

The TSPE Knoxville website to learn the December 28, 2022 meeting speaker is:

<https://sites.google.com/site/knoxtspe/>

A link to the next meeting can be requested by emailing knoxtspe@gmail.com

TSPE Knoxville offers PDH certificates for meeting attendance at a cost of \$10 for nonmembers.







Image Source and Credit: Tennessee Society of Professional Engineers, Knoxville Chapter



VOLUNTEERS' CORNER

Engineers making a difference in our community

Date	Event
Anytime	Junior Achievement Interested in teaching Math or Science to a Middle/High Schooler? Visit the Junior Achievement site at: http://www.jaeasttennessee.org/ .
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.
Anytime	Engineer's Without Borders – http://www.ewb-usa.org
Anytime 	AIChE K-OR section needs help with: <ul style="list-style-type: none"> • Social Media Committee – The local section desires to improve our 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
Anytime 	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. If you have not yet registered to mentor with the Class of 2021 and would like to do so, please visit https://tnachieves.org/mentors/requirements/ to do so today!
Anytime 	Founded in 1992, Habitat for Humanity of Anderson County is an ecumenical ministry that builds simple, decent and affordable houses with participating families; working with diverse individuals, organizations, and faith communities to serve others. http://www.hfhac.org


<p>Anytime</p> 	<p>National Council of Examiners for Engineering and Surveying needs reviewers for PE Chemical Handbook</p> <p>The NCEES (National Council of Examiners for Engineering and Surveying) has requested that practicing engineers assist in reviewing the PE Chemical Handbook for possible errors and omissions. In January 2017, NCEES published a draft of the PE Chemical Handbook to provide reference information for engineers taking the Chemical Principles and Practice of Engineering (PE) Exam. NCEES is an organization that develops and administers the examinations for Professional Engineering licensure. When the professional license exam is converted to a computer-based test in the near future, the handbook will be the only reference available to the examinees and will be loaded online. The handbook may be downloaded by both practicing engineers to use as a reference and by prospective examinees as a study guide. To enroll in the review process and obtain a copy of the draft handbook, you may connect to the following AIChE website: http://www.aiche.org/resources/careers/professional-engineering-licensure/pe-handbook-provide-input. The AIChE website will provide directions for connecting to the NCEES site. If you have any questions, please contact Joe Cramer: josec@aiche.org.</p>
<p>January</p>	
<p>February 18, 2023</p>	<p>2022 Boy Scouts Merit Badge College, Roane State Community College. See https://www.roanestate.edu/?6724-Merit-Badge-College-MBC for information. Contact Paul Taylor (865-898-5724, paultaylorornl@gmail.com) if you are interested in helping with the Chemistry merit badge.</p>
<p>February 2023</p>	<p>The 2023 Tennessee Science Bowl The Tennessee Science Bowl (TSB) has grown to be the largest Department of Energy high school regional science bowl in the nation! http://www.orau.gov/sciencebowl/</p>
<p>March 2023</p>	<p>TN FIRST Robotics, See firstinspires.org/robotics/frc</p>
<p>March 28-30, 2023</p>	<p>The 2023 Southern Appalachian Science and Engineering Fair, SASEF. See https://sasef.utk.edu/ for information. Contact Paul Taylor (865-898-5724, paultaylorornl@gmail.com) if you are interested in helping with the AIChE special award judging.</p>
<p>May</p>	
<p>June</p>	
<p>July</p>	<p>Volkswagen-Sponsored Camp Introduces Students to UT, Engineering VOLunteers for Tenth Graders</p>
<p>August</p>	<p>AIChE KOR Planning Meeting for the upcoming academic year needs ideas and help planning speakers and arranging meeting locations. All members are welcome to participate and provide ideas.</p>
<p>September</p>	
<p>October 14-23, 2022</p>	<p>The Tennessee STEAM (Science, Technology, Engineering, Art, and Math) Festival is held in October at events across the state. A complete listing of activities and locations is available at https://www.tnsteam.org/all-events.</p>
<p>November</p>	
<p>December</p>	

Image Source Credits are the Associated Websites Listed in VOLUNTEERS' CORNER

Do you know of other volunteer opportunities for section members? Please pass the information on to any section officer so it may be communicated in the next newsletter.



Image Source and Credit: https://lakeharriet.mpls.k12.mn.us/volunteers_needed_8

Mark your calendar with dates for this year's meetings!

Date	Time	Topic	Speaker	Location
Dec 8	5:30 PM	Standard Aero Tour	Patrick Jennings, Standard Aero	1029 Ross Dr, Maryville, TN 37801
Jan 19, 2023	5:00 PM	Process Engineering at Y-12	Heather Pridemore, Consolidated Nuclear Security	Famous Dave's
Feb 16	5:00 PM	Joint Meeting with ANS	TBD	TBD
Mar 12 - 16		2023 AIChE Spring Meeting and 19th Global Congress on Process Safety		Hilton of the Americas, George R. Brown Convention Center
Mar 23	TBD	TVA Plant Tour	TBD	TBD
Apr 6	TBD	TBD	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!

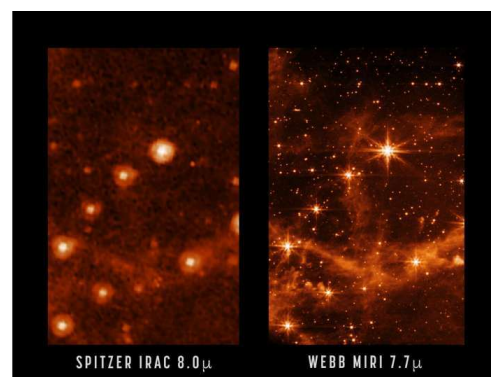


Image Source and Credit: phys.org

Officers

Chair:	Kyle Mack	(423) 747-7947	kylematthewmack@gmail.com
Chair-Elect:	Kaara Patton	(865) 574-1642	pattonkk@ornl.gov
Secretary:	Tara Davis	(865) 574-0429	walkerta1@ornl.gov
Treasurer:	Paul Taylor	(865) 898-5724	paultaylorornl@gmail.com
Directors:			
Term 2022	Max Mortensen	(901) 849-6142	maximuski90@gmail.com
Term 2022-2023	Mark Swientoniewski	(865) 574-1150	mswientoniewski@stratag.org
Term 2022-2023	Nathan Bryant	(423) 557-7308	nbryant3@vols.utk.edu
Term 2022	Mary Krempasky	(717) 418 0112	mskrepasky@gmail.com
Term 2022	Lindsey Stinson	(865) 574-0803	Lindsey.StinsonIII@pxy12.doe.gov
Membership:	Paul Taylor	(865) 898-5724	paultaylorornl@gmail.com
Newsletter Ed.	Mark Swientoniewski	(865) 574-1150	mswientoniewski@stratag.org
E-mail:	aiche-chat@chem.engr.utk.edu		
Website	https://www.aiche.org/community/sites/local-sections/knoxville-oak-ridge		

"The devil has put a penalty on all things we enjoy in life. Either we suffer in health, or we suffer in soul, or we get fat."

Albert Einstein

**Knoxville - Oak Ridge
Section**

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Phone: (865) 898-5724

E-Mail: [aiche-
chat@chem.engr.utk.edu](mailto:aiche-chat@chem.engr.utk.edu)



We're on the Web!

See us at:

<https://www.aiche.org/community/sites/local-sections/knoxville-oak-ridge>

**Editor: Mark
Swientoniewski, PE**

***About Our Organization...
2023 AIChE Spring Meeting and 19th Global Congress
on Process Safety***

March 12, 2023, to March 16, 2023

[Hilton of the Americas, George R. Brown Convention Center](#)

The AIChE Spring Meeting and Global Congress on Process Safety is the year's key technical conference for practicing chemical and process safety engineers, covering the industry's critical needs more broadly and deeply than any other conference.

(Source: American Institute of Chemical Engineers <https://www.aiche.org/conferences/aiche-spring-meeting-and-global-congress-on-process-safety/2023>)



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