

THE REGON DIFFUSER

NOVEMBER
2025

THE OFFICIAL NEWSLETTER OF THE ASHRAE OREGON CHAPTER SINCE 1946



President's Address

Hello ASHRAE Oregon!

Happy November! We're in full fall swing – so grab your mug and mittens and cozy up for your monthly newsletter.

October was another month full of great chapter events! We were proud to participate in Sustainable Buildings Week, partnering with local AEC organizations to amplify the ongoing conversation around decarbonization in the built environment.

Our October technical session featured Rachel Wrublik, Associate at PAE, presenting **"Whole Life Carbon: Integrating Operational, Fugitive, and Embodied Emissions."** Rachel shared actionable insights on reducing the carbon impact of MEP systems, reminding us that thoughtful design today shapes sustainable outcomes for decades to come. Thank you to Rachel and to all our members who attended – it was a packed house!

Meanwhile, our YEA and Student Activities Committees teamed up to host an OSU Tailgate before the game against Wake Forest – an awesome turnout and a great time had by all (unless you stayed for the game after..). But, hey! They're still ranked #2 in the Pac 12! Thanks to support from our sponsors, we were able to host members of the OSU ASHRAE Student Chapter for free. They're an inspiring group of future engineers actively looking for industry speakers to present to their membership – please reach out if you'd like to support their efforts. Looking ahead, November brings more hands-on opportunities to learn and connect:

- **Technical Meeting:** An interactive, workshop-style session where we'll roll up our sleeves and write control sequences together. More details coming soon!
- **Research Promotion Clay Shooting Event:** Back for its second year, with proceeds benefiting ASHRAE Research at the Society level. You'll find all the details inside – this is one you won't want to miss.

And since you've made it this far into the newsletter, here's a little sneak peek into December – just between us: we're planning a CFD Workshop, a Timberlab facilities tour and happy hour, and the return of our Ugly Sweater Party with our industry partners. Consider this your early insider tip to block your calendar now. Finally, a heartfelt thank-you to our ASHRAE Oregon volunteers who have already made this Society Year one to remember. We're lucky to have such a talented and dedicated group working to create meaningful, engaging events for our members. Thank you all for showing up, participating, and helping ASHRAE Oregon continue to thrive.

Upcoming Events / Dates:

November 5, 2025: ASHRAE Oregon Board of Governors Meeting. PAE Living Building/Hybrid. 4:30pm - 6:00pm.

November 7, 2025: ASHRAE Oregon Clay Shooting Competition

November 13, 2025: ASHRAE Cascades Section Technical Meeting: **"High Mass Radiant Heating and Cooling,"** presented by Devin Abellon, Pac West Sales. Waypoint Hotel, Bend, Oregon. 11:45am - 1:00pm.

November 20, 2025: ASHRAE Oregon Chapter Meeting: **"Breaking Down the Sequence of Operations: A Collaborative Controls Workshop."** Presented by ?. StormBreaker Brewing. 4:30pm-8:00pm.

Madeline Giovagnoli

Madeline Giovagnoli
ASHRAE Oregon Chapter President



Chapter may not act for Society

 ASHRAE Oregon Chapter

2025-26 ASHRAE OREGON LEADERSHIP

Chapter President: Madeline Giovagnoli
Vice President/President-Elect: Cassie Kuwahara
Treasurer: Ryan Pinckard
Secretary: Ryan Pinckard
Board of Governors: Victoria Ericksen, Elsa Harder, Zach Harrison, Devin Abellon

Membership Promotion Chair: Victoria Ericksen
Government Affairs Chair: Athena Edison-Lahm
Research Promotion Chair: Elsa Harder
Student Activities: Brett Daniels / Zach Harrison
CTTC Chair: Eileen Jensen / Victoria Ericksen
YEA Chair: Logan Moldenhauer
DEI Chair: Hamed Shahrokhian
WIA Chair: Madeline Giovagnoli

Honors and Awards: Eileen Jensen
Programs: Cassie Kuwahara
Special Events Chair: Rosie Welch
Golf Tournament: Cassie Kuwahara / Rosie Welch
Social Media Chair: Jordan Ficca
Reception Chair: Mac Cunningham
Sustainability: Tyler Klarkowski
Historian: Kevin Marple
Newsletter Chair: Devin Abellon

Cascades Section President: Thomas Kelly
Cascades Section Vice President/ President Elect: Kyle Swenson
Cascades Section Secretary: Jack-Ryan Hilton
Cascades Section Treasurer: Eric Tabert

JOIN THE FUN AND VOLUNTEER!

ASHRAE is a volunteer organization comprised of volunteer members serving the local chapter, region and Society. Our chapter cannot continue to thrive without our volunteers. Volunteering at the local chapter level is a tremendously rewarding way to give back to our industry and is a great way to network with the professionals in our local market. It also provides a wonderful opportunity to develop leadership and organizational skills! Some members may be hesitant to volunteer because they don't feel they have the time, but there are a lot of positions that only require a minimal number of hours per month.

If you are interested in learning about opportunities to get involved in this dynamic chapter, please reach out to **Madeline Giovagnoli** at: madeline.giovagnoli@pae-engineers.com.

Here are just a few examples of the different chapter committees you can be a part of:

- **Young Engineers in ASHRAE (YEA) Committee:** Be part of the team that plans social and educational events for young professionals. Bowling? Happy Hours? Trivia? Hiking? PE Exam prep? What other events can we plan?
- **Student Activities:** Volunteer to help plan events to help introduce STEM to K-12 and college students! Help promote scholarship opportunities. This is great committee to jump into (especially for parents who have school-aged children).
- **Research Promotion:** Help raise funds through campaigns and events (golf and more!) to support ASHRAE's research efforts!
- **Membership Promotion:** Join the committee that recruits and manages members for our local chapter!!
- **Newsletter:** Do you have an eye for graphic design? Be part of the 2nd oldest publication in ASHRAE: The Oregon Diffuser!!
- **Willamette Section:** Are you a member in the Eugene/Springfield area who wants to get involved, but doesn't want to drive up to the Portland Metro area everytime there is an event? Let's start planning meetings and events for the local community!

2025-26 CALENDAR

Please note that dates/events are subject to change. Calendar will be updated throughout the year.
Please check the chapter website for details and sign up information.

ASHRAE Oregon

November 5, 2025: ASHRAE Oregon Board of Governors Meeting. Hybrid. 4:30pm – 6:00pm.

November 7, 2025: ASHRAE Oregon Clay Shooting Competition.

November 13, 2025: ASHRAE Cascades Section Technical Meeting: **“Radiant Heating and Cooling System Design,”** presented by Devin Abellon, PacWest Sales. Waypoint Hotel, Bend, Oregon. 11:30am – 1:00pm.

December 2025: ASHRAE Cascades Section: Winter Social with AIA Bend.

December 4, 2025: ASHRAE Oregon Tour: TimberLab. 1601 NE Columbia Blvd, Portland, Oregon. 4:00pm.

December 10, 2025: ASHRAE Oregon Board of Governors Meeting. Hybrid. 4:30pm – 6:00pm.

December 18, 2025: ASHRAE Oregon Technical Meeting: **“Harnessing Airflow Modeling: Practical Applications of CFD in HVAC and Natural Ventilation Design.”** Embassy Suites Portland Downtown. 11:30am–3:30pm.

January 14, 2026: ASHRAE Oregon Board of Governors Meeting. Hybrid. 4:30pm – 6:00pm.

January 22, 2025: Joint ASHRAE/ASPE Technical Meeting. **“Heat Pump Water Heating.”**

February 11, 2026: ASHRAE Oregon Board of Governors Meeting. Hybrid. 4:30pm – 6:00pm.

February 19, 2025: ASHRAE Oregon Technical Meeting. **“Sustainable Systems: Finding Your Solution.”**

March 11, 2026: ASHRAE Oregon Board of Governors Meeting. Hybrid. 4:30pm – 6:00pm.

March: ASHRAE Oregon Technical Event: SMACNA/ASHRAE Joint Event and Lab Tour.

April 8, 2026: ASHRAE Oregon Board of Governors Meeting. Hybrid. 4:30pm – 6:00pm.

April 23, 2026: ASHRAE Oregon Technical Meeting: **“Applied Psychrometrics”**

May 13, 2026: ASHRAE Oregon Board of Governors Meeting. Hybrid. 4:30pm – 6:00pm.

May 21, 2026: ASHRAE Oregon Technical Meeting: **Past Presidents Night**

June 10, 2026: ASHRAE Oregon Board of Governors Meeting. Hybrid. 4:30pm – 6:00pm.

June 18, 2026: ASHRAE Oregon Technical Meeting: **“Our Story This Year! ASHRAE Oregon Fiscal Year Recap.”**

ASHRAE Society

November 7-8, 2025: YEA Leadership Weekend. Seattle, Washington.

November 3, 2025: Registration opens for 2026 Women in ASHRAE Leadership Symposium.

November 11, 2025: Fall Board of Directors Meeting. Remote.

December 1, 2025: Deadline for ASHRAE Distinguished Lecturer applications.

December 1, 2025: Deadline for ASHRAE Scholarships.

December 1, 2025: Deadline for award nominations: Louise and Bill Holladay Distinguished Fellow Award, Andrew T Boggs Service Award, Eunice Foote Decarbonization Award, Distinguished 50-year Member Award, Distinguished 75-year member Award, Exceptional Service Award, Distinguished Service Award.

December 8-11, 2025: 2025 Buildings XVI Conference. Cleawater Beach, Florida.

January 31-February 4, 2026: 2026 **ASHRAE Winter Conference.** Caesar’s Palace, Las Vegas, Nevada. Register now!

February 2-4, 2026: 2026 AHR Expo. Las Vegas Convention Center, Las Vegas, Nevada.

February 13, 2026: Nominations close for 2026-27 Board-Appointed Committee positions.

April 13-14, 2026: 2026 Women in ASHRAE Leadership Symposium. Los Angeles, California. Registration opens November 3, 2025.

June 27-July 1, 2026: 2026 ASHRAE Annual Conference. Austin, Texas.

ASPE Portland

November 12, 2025: ASPE AYP Karaoke Harvest Fest. The Hallway. 20 NW 3rd Ave, Portland, Oregon. 6:00pm – 8:00pm.

November 19, 2025: ASPE Tech Session: Thanksgiving Dinner with Presentation on **“Communication and Understanding Individual Behavior Styles”** presented by Anna Gibson. MaryHill Winery – Vancouver’s New Waterfront. 801 Waterfront Way, STE 105, Vancouver, Washington. 5:30pm – 8:00pm.



Did we miss something? If you have an event you’d like added to the calendar, please email dabellon@pwsigroup.com

NOVEMBER PROGRAM



Breaking Down the Sequence of Operation: A Collaborative Controls Workshop

Presented By:



Rosie Welch
Account Manager | Controls
Trane

November 20, 2025

**Location: Dinner Meeting at
StormBreaker Brewing**

November Chapter Meeting

November 20, 2025

Breaking Down the Sequence of Operations: A Collaborative Controls Workshop

This interactive session explores example Sequences of Operations for different systems to deepen understanding and improve clarity in controls documentation. Working in small groups, participants will highlight questions, inconsistencies, or opportunities for refinement. A full-group discussion will follow to align on standards, expectations, and lessons learned for future projects.

Location: StormBreaker Brewing, 832 N Beech St, Portland, OR 97227

Date and time: Thursday, November 20, 2025 4:30 PM - 8:00 PM

Meeting Agenda:

4:30PM - Registration Opens

5:30 PM - Dinner and drinks are served

6:00 PM - Presentation Starts

7:00 - 8:00 PM - Mingle and Wrap up

Registration

Price: \$45.00

Dinner and Free Drink included

Drink Ticket Sponsor

Price: \$100.00

Helps cover beverages during the meeting. Your company will be acknowledged with signage at the bar and a thank-you during opening announcements. Optional opportunity to provide branded drink tickets or small giveaways.

RESEARCH PROMOTION

Research Promotion



Elsa Harder
Research Promotion Chair

GOAL: \$24,500



Invest in ASHRAE Research!

The Oregon Chapter has a goal to raise \$24,500 during Society Year 25-26. We need your help. Our primary fundraising events are our golf tournament and clay shoot, but we also rely on individual and corporate donations. Scan the QR code above to learn more. Thank you!

2025 ASHRAE RP Sporting Clay Shootout - November 7th!!

Hello Oregon Chapter! It's time to register for the 2025 RP Sporting Clay Shootout! Please join us and help reach our fundraising goal for ASHRAE Research. Your support makes a huge difference!

Where:

Mid-Valley Clays
6181 Concomly Road NE
Gervais, OR 97026

When:

10:00AM: Registration, coffee and donuts

10:30AM - 12:30PM: Warm-up; (2) Level 1 Trainers will be available fro Q&A

11:30AM - 12:30PM Lunch

1:00PM - 3:30PM: Main Event! 15 teams, shotgun start, 100 clay "birds" per shooter

4:00PM - Awards and Raffle Drawings

Notes: Lunch provided by a food truck located near registration area.

Non-alcoholic beverage stations around the course.

Gold Sponsorship - \$3,500 (1 left)

Our premier sponsorship! Includes (3) five-some teams (15 shooters total), event sponsorship recognition, PPE for each shooter, company logo on competition signage, website, and newsletter.

Silver Sponsorship - \$2,500 SOLD OUT

Includes (2) five-some teams (10 shooters total), event sponsorship recognition, PPE for each shooter, company logo on competition signage, website, and newsletter.

Bronze Sponsorship - \$1,500 (2 left)

Includes (1) five-some teams (5 shooters), event sponsorship recognition, PPE for each shooter, company logo on competition signage, website, and newsletter.

Photographer Sponsorship - \$2,000 (1 left)

Includes (1) five-some teams (5 shooters), event sponsorship recognition, PPE for each shooter, and photography sponsorship recognition. Includes signage and company logo on each team photo.

Lunch Sponsorship - \$2,000 (1 left)

Includes (1) five-some teams (5 shooters), event sponsorship recognition, PPE for each shooter, and lunch sponsorship recognition. Includes signage at food truck.

Event Sponsorship - \$500 (No team)

Includes company name and logo on competition signage, website, and newsletter. This is a perfect sponsorship for those unable to attend the event who still want to support ASHRAE Research!

Individual Shooter - \$250 (No five-some or team included)

Includes PPE.



RESEARCH PROMOTION EVENT: CLAY SHOOTING COMPETITION

ASHRAE Oregon Chapter



RESEARCH PROMOTION PRESENTS

CLAY SHOOTING COMPETITION

Ready,
Aim,
Fire!

FRIDAY, NOVEMBER 7

- **Proceeds benefit ASHRAE Research!**
- **Prizes for Top Shooters!**
- **Food & Drinks Available**

SPONSORSHIP OPPORTUNITIES AVAILABLE!



Think you've got the best shot?

Scan the QR Code for Registration Information

RESEARCH PROMOTION EVENT: CLAY SHOOTING COMPETITION

ASHRAE Oregon Chapter

THANK YOU

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JB
JOHNSON BARROW

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CASCADES SECTION



November Technical Meeting

November 13, 2025

11:45am - 1:00pm

Waypoint Hotel, Bend

1415 NE 3rd St, Bend, OR

“High Mass Radiant Heating and Cooling Systems Design”

As more and more jurisdictions and building owners are requiring higher levels of LEED certification for their projects, design teams are looking beyond traditional HVAC solutions to provide the energy efficiency needed to maximize LEED points while maintaining occupant comfort and safety. In-slab radiant heating systems have enjoyed popularity both here in the United States and abroad for years. Now, with the availability of improved control systems and better understanding within the design and construction community, the same concept can be applied to radiant cooling as an energy-efficient and cost-effective solution.

- This program will cover the following topics:
- Radiant Cooling Heat Transfer Fundamentals
- Radiant Cooling Performance/Capacity
- Typical Construction Methods
- Case Studies

Attendees will gain an understanding of how in-slab radiant cooling systems can be used as part of an energy-efficient design solution to maximize energy efficiency, and see examples of how this has been accomplished on projects both here in the United States and abroad.

About the Speaker:

ASHRAE Distinguished Lecturer Devin Abellon, P.E. is the Director of Engineered Solutions at Pac West Sales. He has over 30 years of experience in the HVAC and plumbing industries with a focus on high performance and sustainable building design and construction. He holds a Bachelor of Science degree in Mechanical Engineering from the University of California at Santa Barbara and is a registered professional engineer in California and Arizona. He has been an active member of ASHRAE at the chapter, regional and society levels and currently serves as an ASHRAE Society Vice President, Chair of Technology Council and Vice Chair of the Board of Directors DEI Advisory Subcommittee.

Meeting Agenda:

11:45 AM: Doors Open, Networking, Lunch

12:00 PM: Presentation and Q&A

1:00 PM: Meeting Adjourns

DECEMBER TECHNICAL TOUR

Technical Tour: TimberLab

December 4th, 2025
4:00pm

A promotional poster for the ASHRAE Oregon tour of TimberLab. The background is a scenic view of a forest with evergreen trees and mountains under a blue sky with white clouds. The text is in a mix of green and white colors. A QR code is prominently displayed in the center, and a dark green button at the bottom contains the text 'Register Now Limited Space Available'.

Join ASHRAE Oregon
on a Tour of
TimberLab

1601 NE Columbia Blvd
Portland, OR 97211

December 4, 2025 @ 4PM

Register Now
Limited Space Available

Get an inside look at how mass timber innovation, prefabrication, and digital construction are reshaping the built environment. The tour will begin with an overview of Timberlab's services and capabilities, followed by a guided walkthrough of their state-of-the-art production floor.

After the tour, continue the conversation at Breakside Brewery - DEKUM for a happy hour.

Timberlab Fabrication Facility - 1601 NE Columbia Blvd, Portland, OR 97211

Thursday, December 4, 2025

4:00 PM (tour begins promptly)

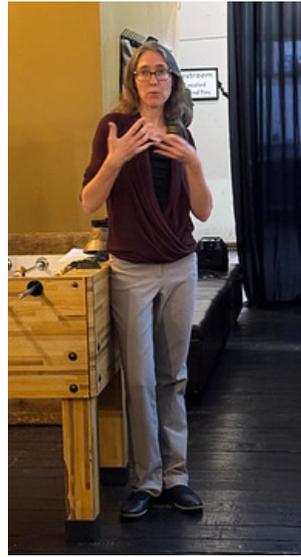
Limited to 35 attendees

Happy Hour: 820 NE Dekum St, Portland, OR 97211

OCTOBER MEETING RECAP

Whole Life Carbon: Integrating Operational, Fugitive, and Embodied Emissions October 8, 2025

Chapter members came together at StormBreaker Brewing for an engaging session on Whole Life Carbon, presented by **Rachel Wrublik** from PAE. This session explored whole life carbon through a systems-thinking lens, moving from ecosystem-level to building lifecycle phases. Attendees learned about gaps in current lifecycle assessment (LCA) frameworks and the challenges of capturing full carbon impacts, particularly for MEP systems. The session highlighted key emission categories and strategies to integrate operational, refrigerant, and embodied emissions into a comprehensive whole life carbon approach.



YEA / STUDENT ACTIVITIES OREGON STATE TAILGATE

On October 11th Student Activities and YEA hosted our first student tailgate at Oregon State University. Students and membership alike braved the rain to enjoy some breakfast sandwiches and drinks, while creating new connections with each other. During the tailgate, we got to talk to students about roles in the HVAC industry, as well as some of their long-term career goals. After the tailgate, the members headed down to Reser Stadium for the game, where unfortunately the Beavers could not prevail. Overall, everyone had great time, and we look forward to hosting more events to help connect our student members with our professional members!



COMMITTEE REPORTS

Student Activities



Zach Harrison
SA Chair



Brett Daniels
SA Chair

Student Presentation Interest Form

Hello! This form is for anyone who would be interested in presenting to our ASHRAE Student Branches. This would be for the University level groups. We appreciate your time and please reach out to orashraestudents@gmail.com for any questions you have.

https://docs.google.com/forms/d/e/1FAIpQLSenHRSFWkMrPK8dQN7a1YB6Mozi8vfZmwj5leh_su_EbYqhRGg/viewform



DEI

Diversity, Equity and Inclusion



Hamed Shahrokhian
DEI Chair



Madeline Giovagnoli
Women in ASHRAE



2026 Women in ASHRAE Leadership Symposium

Omni Los Angeles | Los Angeles, CA

April 13-14, 2026

SAVE THE DATE!

Registration opens on November 3rd. After a sold-out debut, the Women in ASHRAE Leadership Symposium returns—bigger, bolder, and more empowering than ever! Join us for two full days of connection, inspiration, and leadership growth with women from across the HVACR industry—from students and early-career professionals to seasoned veterans. This isn't just for engineers—it's for every woman making an impact on the built environment. Whether you're here to build your network, develop your leadership skills, or cheer on the next generation through the Young Women in ASHRAE EmpowerHERment Award competition—YOU BELONG HERE!

Membership Promotion



Victoria Ericksen
Membership Promotion Chair

Welcome New Members!!

We'd like to welcome five new members who joined this past month!

Joshua Ortega
Ryan Goehring
Ashley Claire Osborne
Anna Lee
Jason DuBose



COMMITTEE REPORTS

Chapter Technology Transfer Committee (CTTC)



Eileen Jensen
CTTC Chair



Victoria Ericksen
CTTC Co-Chair

CTTC - ASHRAE Technology Awards

If you have recently worked on a project that was considered innovative and has been proven through actual operating data, please consider submitting it for an ASHRAE Technology Award! The ASHRAE Technology Awards recognize outstanding achievements by members who have successfully applied innovative building design in the areas of occupant comfort, indoor air quality and energy conservation. Winners are recognized by their peers as being innovative and capable of achieving a high level of competence.

Each year the Society may present awards in six categories (subcategories in parentheses):

- Commercial Buildings (New, Existing, Existing Building Commissioning)
- Institutional Buildings (New, Existing, Existing Building Commissioning)
- Health Care Facilities (New, Existing, Existing Building Commissioning)
- Industrial Facilities or Processes (New, Existing, Existing Building Commissioning)
- Public Assembly (New, Existing, Existing Building Commissioning)
- Residential.

It all starts at the chapter level. This year the deadline for chapter applications is **Tuesday, March 17th, 2026**. All current members of ASHRAE are eligible to submit. Entrants must have had a significant role in the design or development of the project. Performance must be verifiable through at least one year of operating data. The short form application that is required can be found here: [tech-award-application_fillable_2025.pdf](#) For the chapter level, only pages 1 and 2 of the form need to be completed. The form also contains information on what needs to be included in a brief narrative (4 pages max) and schematic describing the project. For more information go to:

<https://www.ashrae.org/membership/honors-and-awards/technology-awards-program>



Tech Award Application

Benefits of Winning a Technology Award



Recognized by peers as being innovative and capable of achieving a high level of competence



Recognition on ASHRAE's website



Winning projects are highlighted in the ASHRAE Journal and High Performing Buildings Magazine



Opportunity to bring additional recognition and prestige to buildings with innovative design



First place awards and the Engineering Award of Excellence are honored at the Plenary Session of the Society's Winter Meeting

COMMITTEE REPORTS

Government Affairs



Athena Edison-Lahm
GAC Chair



Geoff Jenks
Region XI
GAC RVC



Scan this QR Code to send a message to your elected representatives

Happy Birthday!



Happy Birthday Eileen!!

Ask Congress to Defend the Energy Codes Workforce

On September 30, the Department of Energy formally announced the termination of 321 grants, totaling roughly \$7.5 billion, that were primarily intended to support energy projects. Shortly after, a second list of proposed cuts leaked. On this list, and slated for elimination, is a \$2.8 million **“Resilient and Efficient Codes Implementation”** (RECI) grant ASHRAE secured to **develop and deliver free trainings and workforce development courses in New Jersey, Oregon, and Michigan** over a three-year period.

This federal investment in our state is designed to grow the energy workforce, develop a pipeline of experts capable of training American workers on building codes and standards, and ensure officials are well equipped to implement energy codes including ASHRAE Standard 90.1, Energy Standard for Sites and Buildings Except Low-Rise Residential Buildings.

Congress has multiple avenues to defend this federal investment in your state and promote a more resilient and efficient built environment.

Ask Congress to protect this investment!

Click on the QR code on the left and hit the “Send message” button to send a pre-written email to your elected officials in the House and Senate asking them to defend the grant.

Thank you!!

November Birthdays

Robert W Gulick
Thomas E McClung
Gary L Montgomery
William F Raleigh
Lewis E Seagraves
Raymond S Herndon
Jay F Culbertson, Jr
Sharon M Watt
Farid Yamin
N Eileen Jensen, PE
Richard A Gordon
James H Sackinger
Kevin A Duell, PE

Philip W Walker
Steve Van Riessen
David Arthur Sellers
Stacy M Hansen
David C Thomsen
Takako Baker, PE
Andrew J Lasse, PE
Jesse Swanson
Tony Lewellen
Greg Collins
Anthony E. Vazquez
Brian D Francis
Ariel Levy
Steven E Dacus

Maya A Drake
Chrissi Antonopoulos
John F Thies
Jacob A Jones
Douglas Behrend
Michael Swanson
Zack Bradcovich
Katie N Taylor
Nina Khare
Benjamin Dantoni
Donald C Jahne
Adam T Lund
Ross Ruecker

SAVE THE DATE: DECEMBER PROGRAM



Harnessing Airflow Modeling:

Practical Applications of CFD in HVAC and Natural Ventilation

Presented By:



Dr. George Lei
President | Fluid Dynamics
Solutions, Inc.

December 18, 2025 | 11:30am - 3:30pm

Location: Embassy Suites Portland Downtown
319 SW Pine St, Portland, OR 97204

December Chapter Meeting

December 18, 2025

Harnessing Airflow Modeling: Practical Applications of CFD in HVAC and Natural Ventilation Design

This workshop will illustrate and teach attendees how Computational Fluid Dynamics (CFD), or so called airflow modeling, is applied to effectively solve HVAC/Natural Ventilation design problems. In augmenting common HVAC design methods, CFD provides an effective tool in predicting and examining the airflow/air quality in a more detailed and precise scale. Over the past few years, the significant progress in computer technology has made CFD more and more practical and affordable in the HVAC design field. This workshop will introduce CFD principles and illustrate some recent projects of the CFD applications in the field of HVAC systems and Natural Ventilation designs.

Location: Embassy Suites Downtown Portland

Date and time: Thursday, December 18, 2025, 11:30AM - 3:30PM

Meeting Agenda:

11:30AM - Registration Opens/Lunch Buffet Opens

12:00Noon - 1:00PM - Presentation Begins - CFD Concept/Theory & Application - This presentation primarily focuses on HVAC applications, including real project examples of cleanrooms, high rise buildings, schools, industrial buildings, and medical examination rooms.

1:00PM - 1:15PM - Break

1:15 - 2:15PM - How a commercial CFD program is configured and how to run it. Demonstration of a popular CFD program Fluent. From project statement to startup, turn on the solution engine, output and conduct analysis.

2:15 - 2:30PM - Break

2:30 - 3:30PM - Q&A & Specific Project Questions

This meeting will have multiple options, depending on if you are staying for just the first presentation or the whole workshop.

SOCIAL MEDIA



FOLLOW US
ON OUR SOCIAL NETWORKS



AND DON'T FORGET TO TAG US!
#MYASHRAE

SOCIETY NEWS



AHR VEGAS FEB 2-4 2026

Join Us in Las Vegas!

Registration is Now Open!

Register today for the 2026 ASHRAE Winter Conference and AHR Expo taking place Jan. 31-Feb 4 in Las Vegas.



Immerse yourself in a world of HVAC&R with 100+ technical sessions and 1700+ exhibitors at the AHR Expo.

Join ASHRAE in Las Vegas—where bright ideas can shape the future in the city that never sleeps!

REGISTER NOW!

>> Check out the [registration page](#) to see what's available for in-person and on-demand registration options.