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## September 2024 Newsletter

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## **President's Message**

Greetings ASHRAE Puget Sound Members!

I hope this message finds you well!

While our Chapter has been in recess during the summer, we are getting things ready for the year ahead. I would like to thank all our volunteers for their passion and dedication in ensuring that we had a successful year behind us.

Some key highlights from the past year included more in-person meetings and site tours, as well as Puget Sound ASHRAE Scholarships that were awarded to students for demonstrating a keen interest and passion for our industry. Our Golf Field Day enabled our Chapter to raise almost \$11,000 for ASHRAE Research and Promotion. A big thank you to all our sponsors for their continued support towards our Chapter!

Looking into the year ahead, we will be kicking off our first Chapter meeting next month with a presentation around the topic of building decarbonization and upcoming code requirements for emissions reduction. The presentation will review both current and emerging methods for eliminating GHG emissions - a topic we hope you will find valuable. Please be on the lookout for registration links as they become available.

Taking a broader perspective for the year ahead, we will aim to provide value to you, our members, by bringing in engaging speakers and organizing site tours that will offer you significant benefits. Please reach out to me or other ASHRAE volunteers if there is a topic of interest you'd like to hear more about.

Please also stay tuned for more announcements, specifically tailored for younger professionals and students in our industry, to help maximize learning and networking opportunities.

Thank you for supporting our Chapter. I hope you have had an opportunity to enjoy the summer with family and friends, and we look forward to welcoming you back next month!

Best Regards,

Siddharth Premkumar

ASHRAE Puget Sound Chapter President

## **September Chapter Meeting**

# **Building Decarbonization: Upcoming Code Requirements for Emissions Reduction**

September 18th, 2024 12:00 pm – 1:00 pm PST

Renaissance Hotel - The Fig and the Judge

515 Madison St, Seattle, WA 98104



Reducing or eliminating greenhouse gas (GHG) emissions from building operations is emerging as an important goal for architects and engineers in the design of new buildings and major renovations. Many cities are adopting building performance standards (BPS) and other programs to address GHG emissions in existing buildings. This presentation reviews both current and emerging methods and procedures for estimating GHG emissions for direct use of fossil fuels, electricity use and non-conventional forms of energy like district energy, hydrogen and biomass. Electrification is being accepted as the most viable path for eliminating GHG emissions but, as the electric grid becomes cleaner and incorporates more renewable energy, when we use electricity becomes more important than how much we use. The presentation concludes with a summary of how requirements for GHG emissions are being incorporated into codes and standards.

**Tickets:**

Professional: \$40 (Use Coupon Code **Member2425** for \$5 off)

Student: Free

**Register Now!**



**Charles Eley, P.E., AIA, BEMP, CEM, Member ASHRAE, LEED® AP**

Charles Eley is an architect, mechanical engineer and author with 40 years' experience in energy efficient and sustainable design. His latest book is *Clean Electricity, A practical guide to zero-carbon buildings*. Previously, he wrote *Design Professionals Guide to Zero Net Energy Buildings* (Island Press 2016). During his career, Mr. Eley has made significant contributions to the California energy standards, ASHRAE Standard 90.1, and energy codes in six other countries. He has also developed a number of important technical manuals and publications; served as the founding executive director of the Collaborative for High Performance Schools; developed a number of energy analysis software applications; and has served as energy consultant for a number of landmark green buildings. Mr. Eley currently writes, provides specialized consulting to nonprofits, and teaches classes on building energy efficiency and green technologies.

# Georgetown Steam Plant Science Fair - Volunteers needed

Calling all Puget Sound Chapter members!

We're looking for at least six (6) volunteers to help us table a booth at the Georgetown Steam Plant Science Fair on **Sunday, September 22, 2024, 12-6pm**. There will be science projects, vendors, food, and more!

We are planning to take 2-hour shifts (12-2pm, 2-4pm, 4-6pm). Please indicate in the survey which time slot(s) you are available.

For questions and more information, please contact Emily Osurman ([eosurman@aeieng.com](mailto:eosurman@aeieng.com)) or Michelle Fouard ([mfouard@aeieng.com](mailto:mfouard@aeieng.com)). Hope to see you there!

Register

## ACE Mentor Program



*ACE students tour a building under construction in the U District, checking out the mechanical systems on the roof. ACE is a great way to introduce students to careers in the building industry, including mechanical engineering.*

*Photo courtesy the ACE program.*

Register

### **ACE Needs Mechanical Engineers!**

By Angela Gottula ([SeattleWA@acementor.org](mailto:SeattleWA@acementor.org))

The ACE Mentor Program of Washington is recruiting Puget Sound area mechanical engineers to serve as mentors for the 2024-2025 program. If you are not familiar with ACE, it is an after-school extracurricular program that pairs students interested in A/E/C fields with professional mentors who guide them through a design challenge for the built environment. About 400 students from 75+ area high schools participate every year, many of whom go on to college to study A/E/C careers and even come back and mentor with ACE as adults.

Mentors undergo a background check, participate in training and orientation, and join with many other mentors to create a full "design team" to guide students.

In terms of commitment, mentors can anticipate volunteering at 15 two-hour sessions with students that run from November to May. Mentors introduce the students to mechanical engineering and then guide them through the mechanical design on a mock project. Projects in the past have included an aquarium, fire station, or historic preservation library.

Here are what some local mentors are saying about their experience:

- "Mentoring with ACE is always fun, especially when watching how quickly all the students recognize concepts. I personally enjoy showing students that mechanical engineering is more than just robotics, as well as showing them how much thought, coordination, and effort goes into every construction project. I highly encourage any mechanical engineer who wants to give back to the community and the future of our industry to volunteer." Spenser Petherick, P2S, Inc., Seattle
- "I'm truly inspired by the understanding high school students show on complex HVAC topics. As a mentor, I have found it professionally fulfilling to break down the concepts

into digestible pieces and teach the next generation about a field that often goes unnoticed. I would encourage any mechanical engineer to consider volunteering with the program.” Michelle Fouard, AEI, Seattle

There are 70+ affiliates around the country, and the Washington affiliate has student teams in Seattle, Bellevue, and Tacoma. There has been interest in ACE teams in Bellingham, Spokane, TriCities, and the peninsula, and any potential mentors who are interested in helping establish ACE in these geographic areas are welcome to mentor with the virtual ACE team for a year to get an understanding of the program.

To register for ACE, please visit [app.acementor.org](http://app.acementor.org), or to find out more email the ACE executive director at [SeattleWA@acementor.org](mailto:SeattleWA@acementor.org). Please share the opportunity with your colleagues and your firms! Applications are being accepted for all of September, and ACE hopes to have the mentor teams assembled by mid-October. Mechanical engineers are needed!

## Our New Website is Live!

We're thrilled to announce the launch of our redesigned ASHRAE Puget Sound website! It's now easier to navigate, packed with new features, and loaded with resources.

Check it out today and explore our updated website! <https://pugetsoundashrae.org/>

ASHRAE Puget Sound is always looking for new volunteers for our various committees. If you are interested in joining a committee, or becoming chair of a currently vacant committee, please reach out to us at [info@pugetsoundashrae.org](mailto:info@pugetsoundashrae.org)

## ASHRAE Puget Sound Chapter Website

Our website is an excellent resource for HVAC&R engineers in the Puget Sound region. Visit [pugetsoundashrae.org](http://pugetsoundashrae.org) or check out these useful links:

### **Punch List**

Past event recordings, news and society updates.

### **Events Calendar**

Chapter meetings, as well as other relevant HVAC&R events

### **Job Postings**

If you are looking for a job, or looking for somewhere to post a job listing, this is the place for you!

### **Sponsorship Opportunities**

Is your business or employer interested in sponsoring ASHRAE Puget Sound? This is a great way to give back to our HVAC&R community! Your sponsorship supports our programs, and student scholarships! <https://pugetsoundashrae.org/sponsorship-2024/>

Thanks to Our Sponsors!



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