



April 2024

Alaska Chapter Newsletter Hot Gas Bypass

ASHRAE Monthly Meeting Information

[Anchorage Meeting](#)

Presentation:

ASHRAE Tech Hour—
Building Decarbonization (Electrification)
for Hydronic Systems

Date & Time:

Thursday
April 18, 2024

Cost:

Members: Fee
Students: Free

Location:

Webinar

[Outside of Anchorage? No Problem!
Join us online!](#)

Alaska Chapter Officers and Chairs

[Nathan Lang](#), President
Nathan.Lang@victaulic.com

[James Boggs](#), President-elect/CTTC Member
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[Jesse Wight-Crask](#), Secretary
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Alaska ASHRAE Chapter
PO Box 244503
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President's Message:

Hello fellow ASHRAE members,

The 50th anniversary celebration was a success. It was good seeing all the past presidents and talk about the history of our chapter and what we can do to continue to have a strong chapter moving forward.

That being said, we are always looking for new blood. You don't have to jump into chairing a committee but could instead start as a committee member to learn the ropes, get involved, and see what ASHRAE is all about. For young engineers, this is also an excellent opportunity to network and meet people who have been working in the industry.

I am going to be sending out an election ballot soon for our 2024/2025 Board of Governors. This year we have made a change to the order of how you progress through the chairs. The first seat held will be secretary instead of treasurer. Our thought is for the first year, when you are still getting your feet under you, you will be taking meeting minutes, instead of being in charge of the chapter money.

Don't forget to find a team and sign up for the RP shootout on May 31st.

Sincerely,

Nathan Lang
ASHRAE Alaska President 2023-2024
Alaska Chapter ASHRAE
nathan.lang@victaulic.com



April AK Chapter Meeting:

Meeting Presentation:

ASHRAE Tech Hour—
Building Decarbonization
(Electrification) for Hydronic
Systems

Date:

Thursday
April 18, 2024

RSVP:

[https://ashraealaska.com/events?
view=calendar&month=04-2024](https://ashraealaska.com/events?view=calendar&month=04-2024)

Time:

12:00 – 13:00

Cost:

Free

Location:

No in-person meeting this month.
Please join us online for this
months meeting on April 18, 2024.

Link:

<https://meet.goto.com/366454045>

Dial in using your phone.

Access Code: 366-454-045

United States: +1 (224) 501-3412

ASHRAE Tech Hour Building Decarbonization (Electrification) for Hydronic Systems

Many people have been educated on what decarbonization is, as well as its goals. This presentation delves into how hydronic systems using heat recovery chillers, heat pumps and chiller/heaters can be designed, piped, optimized and controlled in order to provide heat efficiently. Also covered are the impact of hot water and outdoor air temperatures, methods to simplify system design and operation, the importance of ensuring building operators and facility managers can operate the systems as intended. The goal is to reduce environmental emissions and make the system as simple as possible, but not simpler



*PDHs are available for this presentation
through ASHRAE 365*



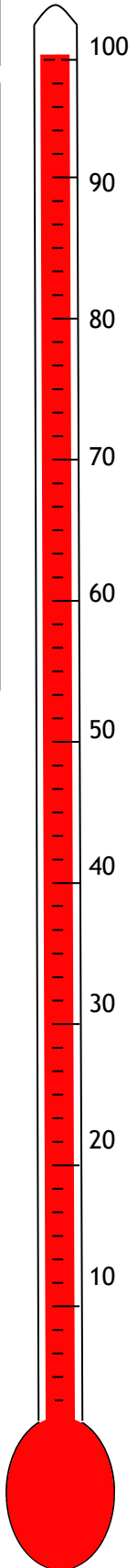
Presenter: Mick Schwedler, PE, FASHRAE, LEED AP BD+C: Mick has been active in the development and support of HVAC systems for Trane since 1982. As an applications engineer his areas of expertise include system optimization (in which he holds patents), chilled water and geothermal heat pump system design, and electrification of heating in hydronic systems. He has provided technical systems education to tens of thousands of engineers

through Trane's Engineers Newsletter Live series, and ASHRAE webcasts. Mick has also given in-person and virtual technical seminars throughout the world, and published many articles within the industry. Prior to his work with Trane, Mick received his MSME from the University of Wisconsin Solar Energy Laboratory and BSME from Northwestern University.

Mick served as 2021-2022 ASHRAE President. He is an ASHRAE Fellow, recipient of ASHRAE's Exceptional Service, Distinguished Service, and Standards Achievement Awards, and was Chair of SSPC 90.1-2010. Mick also chaired the Advanced Energy Design Guide Steering Committee and was on project committees for the 50% Hospital and Office Buildings AEDGs. Mick chaired the USGBC LEED Technical Committee, served on the LEED Steering Committee and is a past member of several USGBC technical and education groups. In addition, he authored portions of the original ASHRAE Green Building Guide, and served on technical groups for the New Buildings Institute.

Research Promotion:

2023-2024 Research Investors, ASHRAE Alaska Chapter	
<p><u>Organizations</u></p> <p><u>Major Donor- ASHRAE Associate (\$5,000 - \$9,999)</u> Alaska Mechanical Contractors Association</p> <p><u>Major Donor- ASHRAE Associate (\$2,500 - \$4,999)</u> Stinebaugh & Company</p> <p><u>Major Donor - Silver (\$1,000 - \$2,499)</u></p> <p><u>Major Donor - Bronze (\$500 - \$999)</u> Design Alaska</p>	<p><u>Chapter Recognized Donor (\$150 - \$499)</u> Air Source Alaska Alaska Integrated Services Coffman Convergint Cole Industrial Frontier Supply Johnson Controls Inc. JP Sheldon Keller Supply Long Building Technologies Mechanical Sales Mechanical Solutions Norcoast Mechanical Inc. Proctor Sales Puget Sound Pipe RSA Engineering Roth Sirianni Siemens Stinebaugh Superior Plumbing</p>
	<p><u>Individuals</u></p> <p><u>Major Donor (\$250 - \$2,499)</u></p> <p><u>Honor Roll Donor (\$150 - \$249)</u> Doug Lecren Gregory Jernstrom Philip Hayes Jeff Hurd Nathan Zeigler</p> <p><u>Donor (\$1-\$149)</u></p>



Fellow ASHRAE Members,

Through your generosity our chapter has currently raised \$13,600 for ASHRAE RP so far this year! Keep it up, your generous contributions will pay back in countless ways to our local and broader industry as a whole!

Great news, the Alaska Board of Governors has decided to move forward for a Alaska Chapter Scholarship Fund, this fund will be managed through ASHRAE National and pay back \$1,500 scholarship each year indefinitely! We have typically managed the scholarship locally with UAA and have to build funds every year, now students can apply online through ASHREA and we get to choose the recipient at the local level once it is fully funded. This will also allow you to donate directly to the ASHRAE Alaska Scholarship fund through the ASHRAE.org website.

“How are my RP donations used?” & “What benefit do RP donations have for Alaska?”

- It is through the funds generated for RP that ASHRAE codes and standards are researched, written and implemented into the built environment that we live in.
- RP funds return to Alaska in various forms such as research grants, scholarships, and technical committee funding.

If you are interested in donating to ASHRAE RP please follow one of these three donation options:

- Visit <http://www.ashrae.org/RP> and scroll down the page to select the “**ONLINE CONTRIBUTION FORM**” link.
- Mail a check to “ASHRAE Research” with “Alaska Chapter” written in the memo line and mail to: ASHRAE RP; 180 Technology Parkway; Peachtree Corners, GA 30092.
- Designate a RP donation amount when you renew your membership.

If you have already made a donation of \$150 or more, your name should appear at the top of this page. If you do not see your name, please let me know and I will ensure that your donation is recorded properly. Please feel free to contact me with any questions about ASHRAE Research Promotion; the ASHRAE Foundation; or the ASHRAE Learning Center.

Thank you very much for all of your support and dedication to your local ASHRAE Chapter.

Sincerely,
Philip Hayes
Alaska Chapter Research Promotion Chair
Philip.hayes.2@outlook.com



Chapter Sponsors:

2023-2024 ASHRAE Alaska Chapter Sponsors

Gold Chapter Sponsor: (\$5,000)

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Chapter Meeting Sponsor: (\$1,000)

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Chapter Web Sponsor: (\$400)


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Included with these sponsorship levels are various 'chapter benefits' as a way of thanking and honoring the generosity of our loyal supporters. Portions of the sponsorships are utilized to help fund the Alaska Chapter operations as well as donated to ASHRAE Research Promotion in the sponsor's name. Below is a list of the sponsorship levels along with the 'chapter benefits' for each level of donation.

Corporate Donations:

Corporate donations to the Alaska ASHRAE Chapter are recognized in five tiers:

• **Gold Sponsorship: \$5,000 & Above**

• (1) Foursome team for annual golf tournament • (1) Hole sponsorship for golf tournament • (1) Seat for every chapter meeting -OR- (1) Range Sponsorship during Annual RP Shoot out • Announcement of your sponsorship during all meeting introductions and events. • Logo on website • Business card advertisement in newsletter (September – May) • Job postings on the ASHRAE Alaska website and on the newsletter. RP Donor Level - ASHRAE Associate: (Gold Commemorative Coin & Plaque, Listed in the annual Investor Honor Roll)

• **Forget-Me-Not Chapter Sponsorship: \$2,500 - \$4,999**

• (1) Range Sponsorship during Annual RP Shoot out • (1) Hole Sponsorship during Annual Golf Tournament • Announcement of your sponsorship during all meeting introductions and events. • Logo on website • Business card advertisement in newsletter (September – May) Job postings on the ASHRAE Alaska website and up to (2) on the newsletter. RP Donor Level - Major Donor – Silver: (Silver Commemorative Coin & Plaque, Listed in the annual Investor Honor Roll)

• **Chapter Meeting Sponsor: \$1,000**

• Sponsor's table available with display and literature prior to meeting (A website link and a hole or range sponsorship will be made available as an alternative for a virtual meeting sponsorship) • Logo on welcome message during monthly chapter meetings • Announcement of your sponsorship during one meeting introduction • Logo on website • Business card advertisement in newsletter (September – May) • RP Donor Level - Major Donor – Bronze: (Bronze Commemorative Coin & Plaque, Listed in the annual Investor Honor Roll)

• **Web Sponsorship Package: \$400**

• Logo on website • Business card advertisement in newsletter (September – May) • RP Donor Level – Honor Roll (Individuals only): (Receive blue desktop coin holder, Listed in the annual Investor Honor Roll)

• **Newsletter Sponsorship: \$150**

• Business card advertisement in newsletter (September – May)

For more information on corporate donations and the benefits please visit the "shop" section of our website at <https://ashraealaska.com/>.

Hi all, Happy April!

Yea more winter! (Just kidding)

On the student activities front, I talked to Mr. Wade Roach at Dimond High. As you all know, Dimond high has an engineering program preparing high schoolers interested in engineering. He mentioned they are actively looking for teachers to lead this program for the next year since he is retiring this year. So, if you know anyone that is interested in teaching, please apply so this program may continue.

Some of the students win scholarships and later come in to our workforce and help Alaska Economy.

View more on their website:

[Engineering / Engineering \(asdk12.org\)](http://Engineering/Engineering(asdk12.org))

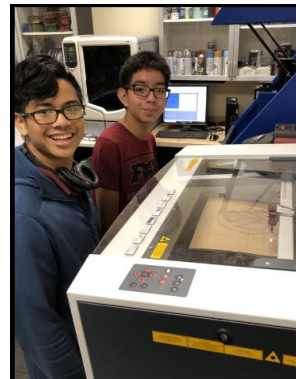
We are at 13 student members in our local student chapter. Student membership is only \$25 and completely reimbursed by the local chapter. We also have the student scholarship available to local Alaskan students in relevant fields of study.

Thanks for supporting Student Activities.

Sam Ratnasigamani
SA, ASHRAE AK.
samr@rsa-ak.com

"The four years I spent working through the PLTW program have proved invaluable to me. As an engineering student, having learned the foundational concepts beforehand is a distinct advantage in my classes. I've also found my experience with projects and the design process to be relevant as I move forward with my research and my senior capstone project. My experience has made me more prepared for college and for going into the workforce."

Cara Frischkorn, DHS c/o 2017



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