



January 2024

Alaska Chapter Newsletter Hot Gas Bypass

ASHRAE Monthly Meeting Information

Anchorage Meeting

Presentation:

Guest Presentation from East High First Robotics & ASHRAE Operation and Maintenance Panel

Date & Time:

Thursday, January 18, 2024
17:30 – 19:00

Cost:

Members: \$25
Students: Free

Location:

UAA Engineering and Computation Building (ECB), Room 202
3310 UAA Drive
Anchorage, Alaska

Fairbanks Meeting

Presentation:

No In Person Meeting this Month.

Alaska Chapter Officers and Chairs

Nathan Lang, President
Nathan.Lang@victaulic.com

James Boggs, President-elect/CTTC Member
jboggs@amc-engineers.com

Jesse Wight-Crask, Secretary
Jesse.Wight-Crask@respec.com

Philip Johnson, Treasurer
Phil@airsourcelandaska.com

Evan Denty, BOG Member
emdenty@gmail.com

Sam Ratnasigamani, Student Activities
samr@rsa-ak.com

Garrett Prokosch, Membership Promotion
garrett.prokosch@convergint.com

Tracy McKeon, CTTC Chair
tracy.mckeon@respec.com

Blake Burley, Fairbanks Section President
blake@designalaska.com

Jeff Hurd, Grassroots Gov. Advocacy
Jeff.hurd@awwu.biz

Philip Hayes, Research Promotion/Historian
Philip.Hayes@contractor.conocophillips.com

Alaska ASHRAE Chapter
PO Box 244503
Anchorage, AK 99524

President's Message:

Hello fellow ASHRAE members,

Welcome to 2024! Our monthly meeting will be on January 18th and will start at 5:30 pm at UAA. The main event will be a panel discussion on Operations and Maintenance, and to get us kicked off, there will be a guest presentation from the East High School FIRST robotics team!

The Alaska ASHRAE is turning 50 this year. We are planning a celebration at King Street Brewing on March 21st. Make sure to reserve the date and come help us acknowledge everyone that has contributed to making this chapter a success.

Paperwork for the endowment scholarship has been submitted to National ASHRAE and will be up for approval at the ASHRAE Winter Conference at the end of the month.

Sincerely,

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





Alaska Chapter Newsletter Hot Gas Bypass

Anchorage Meeting:

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Presentation:

Guest Presentation from East High First Robotics

&

ASHRAE
Operation and Maintenance Panel

Date:

Thursday, January 18, 2024

RSVP:

<https://ashraealaska.com/events/2024/1/15/3p5jssqnkvx747qg4qm37ryikbkoim>

Time:

17:30 – 19:00

Location:

UAA Engineering and Computation Building (ECB), Room 202
3310 UAA Drive
Anchorage, Alaska

Cost:

Members: \$25
Students: Free

Parking:

Paid parking is available in the adjacent Engineering Parking Garage.
Please follow all UAA parking guidelines.

Operation and Maintenance Panel

This month's meeting will kick off with a guest presentation from the East High FIRST Robotics team. Immediately following the presentation, there will be a panel and audience discussion about Operation and Maintenance. Several topics will be discussed including Best Practices, where O&M usually fails, and current trends in O&M solutions and design concepts. The meeting is intended to be an open discussion and sharing of knowledge so attendees are encouraged to bring their questions and share their experiences and knowledge.

PDHs are available for this presentation

Panel:

Will Fraser, Statewide Health Facilities Manager for ANTHC;
David Apperson, HVAC Technician with Cool Air Mechanical;
Tracy McKeon, Principal Mechanical Engineer with RESPEC in Anchorage;

Moderator:

Craig Fredeen, Principal Mechanical Engineer with Cold Climate Engineering.

SAVE THE DATE

The 50th Anniversary for the Alaska ASHRAE Chapter is fast approaching please save the date and plan on joining us at the King Street Brewery on March 21, 2024 for a Celebration of 50 years of ASHRAE members in Alaska and their contributions to ASHRAE and its mission of serving humanity by advancing the arts and sciences of heating, ventilation, air conditioning, refrigeration and their allied fields in Alaska and across the globe. In addition to fulfilling ASHRAE's vision of creating a healthy and sustainable built environment for all.

We will be honoring all our past presidents, life members, and all those in our community that have served and support the technical side of ASHRAE by being members of its committees and standards.

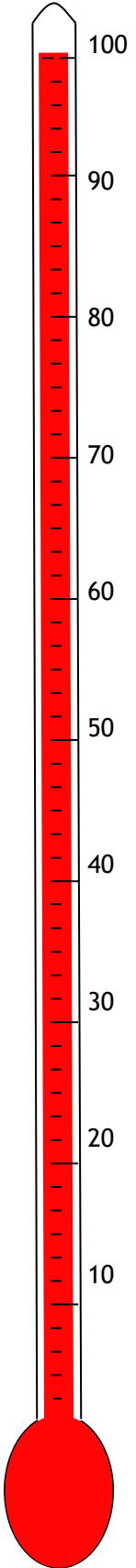
Please reach out to Tracy McKeon at tracy.mckeon@respec.com

If you are currently on an ASHRAE Committee or Group including TC, TRG, MTG, SPC, SSPC, GPS, or SGPC. We want to make sure you are included in our 50th. Anniversary celebration.



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</u></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</p> <p><u>Donor (\$1-\$149)</u></p>



Fellow ASHRAE Members,

Through your generosity our chapter has currently raised \$13,100 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!

It is through the funds generated for RP that all ASHRAE codes, standards and design guides are researched, written and implemented into the built environment where we live and work. Thank you for your generous support, it is only through your donations and involvement that we can continue to advance the knowledge, quality and standards for our built environment.

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

- ASHRAE RP funds are pooled at the society level, then with the entire society’s resource potential the funds are redistributed in order to achieve the highest potential output.
- 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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Forget-Me-Not Chapter Sponsor: (\$2,500)

Chapter Meeting Sponsor: (\$1,000)

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Chapter Web Sponsor: (\$400)



In the past three years, the Alaska Chapter introduced chapter sponsorship levels to help recognize those who have steadfastly supported the Alaska Chapter over the years. 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)

Hi All,

Happy New Year!

We have exciting news coming up regarding the winter conference (please see the attached flier)

Also, we have the E Week student competitions on February 17th 2024 at UAA.

Please tune in for more details.

As of the end of last year, we have 10 student members. Please encourage anyone you know to join as a student member. The cost is \$25 and it is reimbursed by our local chapter!

Thanks for supporting ASHRAE Student Activities.

Sam Ratnasigamani

SA, ASHRAE AK.

samr@rsa-ak.com



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2024 ASHRAE WINTER CONFERENCE

CHICAGO, JAN 20-24 | AHR EXPO, JAN 22-24

STUDENT PROGRAM



#myashrae

Saturday, January 20th

1:00 PM–3:00 PM | STUDENT WELCOME

Marriott Marquis McCormick Place West, W183ab (1)

Hear welcoming remarks from ASHRAE President Ginger Scoggins followed by an awards ceremony and keynote presentation from Benjamin Skelton and Frank Kohout from Cyclone Energy Group. Come learn about 340 On The Park, an eco-friendly residential tower that was the first in Chicago designed to meet the U.S. Green Building Council's certification standard.



Benjamin Skelton P.E., LEED AP, CxA

Benjamin founded Cyclone Energy Group in 2012, after working as a design consulting engineer for ten years, with a vision of making the world more efficient. Over his career, he has helped create some of the most energy efficient and unique buildings in the world. Projects include supertall high-rise buildings, net-positive energy designs, LEED Platinum Certified buildings and an Internationally award winning design for the Walgreens Net Zero Energy Store. In 2015 he was named 40 under 40 by Consulting Specifying Engineer Magazine and he frequently shares lessons learned from his work in seminars and presentations.



Frank Kohout P.E., LEED AP BD+C, BCxA

As Director of Engineering at Cyclone Energy Group, Frank is responsible for leading the projects and initiatives requested by our clients that do not fit into the any of the other core areas of Cyclone's expertise and that typically require innovative approaches and creative solutions.

Prior to joining Cyclone, Frank was with McDonald's Corporation for 16 years where his role was being their mechanical building systems leader. A native of Chicago's suburbs, Frank holds a BS in Mechanical Engineering from Southern Illinois University at Carbondale.

3:15–5:30 PM | PLENARY SESSION

Marriott Marquis McCormick Place, Grand Horizon DEFG (4)

The Plenary will feature a keynote from Chris Turner, a well-known figure in Canada for his expertise on climate change solutions and the global shift towards clean energy. The Plenary Session also features presentations from the Honors and Awards programs, including the First Place winners of the Student Design Competition.

6:30–8:30 PM | WELCOME PARTY

Old Post Office in downtown Chicago (\$75 ticket)

Students are encouraged to attend.



2024 ASHRAE WINTER CONFERENCE

CHICAGO, JAN 20-24 | AHR EXPO, JAN 22-24



Sunday, January 21st

8:00 AM–3:30 PM | STUDENT PROGRAM

Marriott Marquis McCormick Place West, W183ab (1)

8:00–9:00am

Technical Talk #1: Psychrometrics Deconstructed 101

Presented by Dan Hahne



Dan Hahne has a BFA degree from University College London and an MFA from Boston University. He has been in the HVAC industry for 38 years, beginning his career as an estimator for the Norman S. Wright Co. SW in 1985 before transitioning into outside sales. In 2000, Dan joined Air Specialty Products as an outside salesman. In 2008 he assumed the role of engineering sales and became ASP's proponent and educator for high-performance HVAC system. In 2016, he took a position with Varitec Solutions, Arizona, in the capacity of Director of High-Performance HVAC Solutions and educator for sustainable HVAC system concepts, products, and applications. In 2020, and the advent of the COVID pandemic, he became a regional advocate and resource for applying HVAC products and design strategies to enhance indoor air quality (IAQ) and to create healthier more risk free environments.

9:00–10:00am

Basics of Building Control System Engineering

Presented by TC1.4's Jim Coogan and Michelle Shadpour



Jim Coogan, P.E., is a Principal in product development at Siemens Smart Infrastructure. In 40 years designing controls for mechanical systems, he has contributed to products ranging from room controllers to Internet-based interfaces. Jim has chaired several ASHRAE committees. Publications include technical papers on room pressurization and laboratory ventilation. Jim earned his SB in mechanical engineering at MIT.



Michelle Shadpour, CPD is a Senior Design Engineer at SC Engineers with over seven years of engineering experience primarily in the pharmaceutical and healthcare sectors. A graduate of the University of Southern California, Michelle's expertise includes engineering assessments, design, construction, and project management. Michelle has been recognized industry wide as one of the leading engineers of the future being named DiscoverE's "2017 New Face of Engineering", Plumbing Engineers 2018 "Top 10 in Their 20s", and Engineered Systems' 2020 "20 to Watch: Women in HVAC". As the chair of the ASHRAE TC 1.4 YEA committee, she has extensive expertise in building automation systems and the sequence of operation for HVAC systems for high-tech facilities. Michelle also serves as the President Elect of ASHRAE San Diego Chapter..

10:00–11:00am

K-12/STEM Group Activity

11:00am–12:00pm

Technical Talk #3: Process and Workflow for Mechanical Design

Presented by Niss Feiner



Niss Feiner C.E.T, CHD has been in the HVAC and Plumbing industry since 2006 in both the contracting and engineering sectors. A firm believer in continuous education, Niss attained status as a Certified Engineering Technologist with the Ontario Association of Certified Engineering Technicians and Technologists and became the first in Canada to hold ASHRAE's Certified HVAC Designer (CHD) designation. As the owner of Delta-T Designs Inc, Niss provides innovative mechanical solutions for single family dwellings, multi-unit residential buildings and a variety of commercial occupancies. He is also a professor in the HVAC Technology Program at George Brown College in Toronto, Ontario. As an avid ASHRAE volunteer, Niss sits on the Board of Governors for the Toronto ASHRAE Chapter, was Chair of the ASHRAE Society Historical Committee, sits on the ASHRAE Society Communications Committee, TC 5.10, Kitchen Ventilation, TC 2.2, Plant and Animal Environment, and as a subject matter expert, has contributed to ASHRAE's CHD Certification Study Guide.

12:00 – 12:30 pm Lunch

Continued on next page...

Sunday, January 21st continued...

12:30 – 2:00 pm

Career Panel: Learn about what jobs may await with a career related to ASHRAE! This is an open forum for you to ask questions to professionals spanning multiple industry sectors. Q&A Session with Devin Abellon, Ghina Annan and Stet Sanborn.



1:30 – 3:30 pm

Poster session and Mixer with winners of the Design Competition and recipients of ASHRAE's Undergraduate Program Equipment Grants. Mix and mingle with (YEA) Young Engineers in ASHRAE members while competing in a poker run activity. Prizes will be available along with free food & drinks.

1:00-3:00PM AND 3:00-5:00PM | STUDENT TOUR (\$25 TICKET)

340 On The Park

Built in 2007 and earning the first Silver LEED certification for a residential building in the state of Illinois, this building is 672 feet tall and sixty-five stories. Originally connected to local district cooling it was one of the first properties in the Midwest to disconnect from district cooling and build its own premium chiller plant that included (2) 500 ton water-cooled screw chillers in a series-counter-flow configuration, for which it won a local Illinois ASHRAE Excellence in Engineering Award in 2016. In addition it is also host to a tank-less cascade domestic hot water system that is one of the biggest tank-less applications in the world that creates a combined capacity of four million BTUs.



Monday, January 22nd

10:00 AM–12:00 PM STUDENT ROUNDTABLE

Marriott Marquis McCormick Place West, W182 (1)

Student branch officers are selected to participate in this two-hour session to provide ASHRAE leaders with feedback and guidance on student activities.

10:00 AM–12:00 PM | STUDENT BRANCH ADVISOR ROUNDTABLE

Marriott Marquis McCormick Place West, W177 (1)

Student Branch Advisors are invited to discuss student activities with Regional Student Activities Chairs.

12:00PM–3:00 PM AHR EXPO CAREER PANEL & TOUR

Registration required! Come have lunch with some manufacturers from the AHR Show and learn about their work, followed by a guided tour of the tradeshow floor. This event is put on by the ASHRAE Student Activities Committee and AHR.



RECOMMENDED TECHNICAL SESSIONS

Sunday, January 21

8:00 AM–9:00 AM

Panel 1: Are Variable Refrigerant Flow (VRF) Systems Viable In An A2L World?

Monday, January 22

8:30 AM–9:30 AM

Seminar 23: Speed Seminar: Load Calculations in 50 Minutes!

9:00 AM–10:30 AM

Seminar 20: Best Practices of a Mentor-Mentee Relationship

3:15 PM–4:45 PM

Debate 1: College of Fellows Debate: Using AI is Cheating!

Tuesday, January 23

8:00 AM–9:30 AM

Seminar 33: Defining and Creating Buildings That Truly Perform at 'Net Zero'



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