



November 2019

Alaska Chapter Newsletter Hot Gas Bypass

ASHRAE Monthly Meeting Information

ANCHORAGE:

2019 Trade show, Conference and Chapter Meeting
Date: Friday, Nov 22, 2019
Time: 8:30 Am to 7:30 Pm
Location: BP Energy Center
900 E Benson Blvd, Anchorage, AK
Phone: 907-743-4270

Please RSVP at <https://ashraealaska.com/events/2019/11/22/trade-show-nov-chapter-meeting>

FAIRBANKS:

Presentation: ASHRAE 55 standard
Date: Thursday, Nov 21, 2019
Time: 12:00 Pm
Location: Design Alaska
601 College Road
Fairbanks, AK 99701

Please RSVP to Blake at Blake@designalaska.com

Please see Page 2 and 3 for details on meeting, conference and costs, Pages 4,5,6 for Trade Show Agenda and page 10 for YEA event!

Alaska Chapter Officers and Chairs

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tmckeon@crweng.com

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Alaska ASHRAE Chapter
PO Box 244503
Anchorage, AK 99524

President's Message:

Hello Alaska ASHRAE Members!

Hope everyone had a fun and exciting Halloween! We had an excellent turnout for our lunch meeting and tour at the Wells Fargo Ice Plant at the University of Alaska! Thank you for all the feedback on the website regarding ideas for improvement of future meetings and tours. Please continue to provide feedback it is one way we can make sure we provide the meetings, topics, and know what we did right, and what we can do better when setting up future events! Lessons learned are just as important to our organization as they are on the job!

We can't wait for members and non-members alike to join us at the ASHRAE HVAC Conference and Trade Show happening on November 22, 2019 at the BP Energy Center. So far we have had a great response to this event. This will be an excellent opportunity to catch up on any missing PDHs before the end of the year and to check out all the new products and innovations available from local contractors and vendors. Training classes will cover a range of topics from legionella, steam, boilers, to name a few. We will even have another ASHRAE Distinguished Lecturer, Gordon Sharp, presenting on "Slashing Commercial and Lab Building Energy Use and Improving IEQ". We already have numerous vendors already signed up to join us for the Trade Show including: ATS Alaska, Columbia Hydronics, Proctor Sales, Trane, Siemens Industry, Victaulic, Stinebaugh & Company, LONG Building Technologies, Meridian, JP Sheldon, and Mechanical Sales.

Check out our website for more information on the Trade Show and Conference. We hope to see you there! Sign up now on our website at: <https://ashraealaska.com/events/2019/11/22/trade-show-nov-chapter-meeting>. Space is limited in our training room so sign up soon! Can't stay all day? No worries, drop by and see the vendors at the Trade Show any time throughout the day when you do have a moment!

I would also like to take a moment to thank all our members who paid their Alaska Local Chapter dues when they renewed their ASHRAE National Society Membership. We work hard as your ASHRAE Board of Governors to keep costs down and as such we have the lowest chapter dues in the Nation. Just 3 years ago more than 35% of our membership did not pay chapter dues that is down to less than 10%. By paying chapter dues you have allowed us to bring more resources to our local ASHRAE membership like seminars, trade shows, and more up to date meeting programs so thank you for your support!

The only way we continue this success is through generous sponsors and volunteers so please get involved! If you have any questions or concerns, please feel free to email or call me!

Sincerely,

Tracy McKeon, P.E.
President, Alaska Chapter ASHRAE
tmckeon@crweng.com





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November Meetings:

FAIRBANKS Meeting:

Presentation:

ASHRAE 55 Standard

Presented By:

Keith McKay and Christian Taber from Big Ass Fans

Date:

Thursday,
November 21, 2019

Time:

12:00 pm: Check-in and Lunch

Location:

Design Alaska
601 College Rd
Fairbanks, AK 99701

RSVP:

Please RSVP to Blake Burley at:

Blake@designalaska.com

ANCHORAGE Meeting:

Presentation:

Making Buildings Smarter to Maintain Their Energy Efficiency Entitlement

Date:

Friday,
February 22, 2019

Time:

5:30 pm: Check-in & Dinner
6:00 pm: Presentation

Location:

BP Energy Center
900 E. Benson Blvd,
Anchorage, AK

Cost:

Dinner: \$15 (or Free if you Paid for Trade Show/Conference)
Students: Free

RSVP:

Please RSVP at:
<https://ashraealaska.com/events/2019/11/22/trade-show-nov-chapter-meeting>

Making Buildings Smarter to Maintain Their Energy Efficiency Entitlement

This month ASHRAE Distinguished Lecturer Gordon Sharp will be in Anchorage to present at our Conference/Trade Show and presenting at our monthly meeting.

Mr. Sharp is the chairman of Aircuity, Inc. and has over 25 years of wide-ranging entrepreneurial experience and more than 25 U.S. patents in the fields of energy efficiency and laboratory controls. As founder, former president and CEO of Phoenix Controls, he led the development of this world leader in laboratory airflow controls that was acquired by Honeywell in 1998. The technologies invented by Mr. Sharp at Phoenix Controls are today saving over \$1.5 billion annually in energy use. In 2000, Mr. Sharp founded Aircuity, which was spun out of Honeywell and is a smart airside energy efficiency company.

Mr. Sharp is a graduate of MIT with bachelors and masters degrees in electrical engineering. He is Executive Vice President and a member of the board of directors of I2SL (International Institute for Sustainable Laboratories), the nonprofit foundation that operates the Labs21 conference. He is also a member of two important standards on ventilation: the ANSI/AIHA Standard Z9.5 Committee on Laboratory Ventilation and the ASHRAE SSPC 170 Committee on Ventilation of Health Care Facilities. He is also a voting member of ASHRAE technical committee TC9.10: Laboratory Systems and TC9.11: Clean Spaces/Cleanrooms.

Gordon will be discussing the following topic:

How many highly sustainable commercial buildings as well as complex facilities such as laboratories often use sophisticated control systems to increase their energy efficiency. Unfortunately facility maintenance staffs are often overtaxed and don't have time to analyze building system performance. As a result control systems degrade and building energy use typically rises over time. This talk will describe the use of intelligent agent systems to analyze a wide range of real time building data including HVAC system performance and indoor environment data to alert operators to system degradation and problems that cut energy efficiency. Sometimes referred to as real time or monitoring based commissioning, these analytical systems often use dashboards and other very graphical visualization methods. The result is a practical and simpler means to ensure buildings realize their energy efficiency entitlements and provide a healthier indoor environment not just for when the building is opened, but over the full life of the building.

REMINDER: If you were a paid attendee at the Trade Show/Conference it included the cost of the monthly meeting, so Don't forget to join us for dinner and a great presentation!

PARKING: The last page of the Trade Show Agenda includes parking instruction for the BP Energy Center

Thanks to ATS Alaska for generously sponsoring Gordon this month!

2019 HVAC TRADE SHOW & CONFERENCE

November 22, 2019

BP ENERGY CENTER
ANCHORAGE, AK
9:00—5:00 pm



Training will include a presentation by ASHRAE Distinguished Lecturer Gordon Sharp on "Slashing Commercial and Lab Building Energy Use and Improving IEQ"!

Legionella

Ventilation

Pumps

HVAC Controls

This one day only event will include training opportunities through out the day and a Trade Show where Engineers, Contractors and Industry Leaders can find out about the latest products in the HVAC industry.

Steam

Refrigeration

SEE!

Latest products, technologies, and innovations available from local contractors and vendors.

Learn!

1 hour to 45 minute training sessions through out the day and vendor breakout sessions! This is a great opportunity to earn those missing PDHs!

Enjoy!

Lunch is included in the cost of the conference!

REGISTER!

\$50.00 per person

Registration and information on training sessions is available online now at :
<https://ashraealaska.com/events/2019/11/22/trade-show-nov-chapter-meeting>

See next page for Agenda



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**2019 Trade Show & Conference
Agenda**

November 22, 2019

7:45 - 8:30 am	Vendor Booth/Trade Show Set Up	Birch Room
8:00- 8:45 am	Registration	Birch Room
9:00 - 5:00 pm	Vendor Trade Show	Birch Room
8:45 - 9:40 am	Legionella Mitigation in Domestic Water Systems 1.0 PDH Tim Totten The presentation will provide an overview of Legionella in domestic water systems. Topics covered will include Legionella/Legionnaire's Disease, Legionella sources, where Legionella prospers, current guidance from ASHRAE 188, and discussion of multiple risk mitigation strategies (thermal, CuAg, UV, disinfectants, filters, sediment & scale reduction).	Training Room
9:50 -10:10 am	Vendor Breakout Sessions Proctor Sales Meridian Systems	Training Room
10:10-10:20	Break	
10:20 - 12:10 pm	Steam Fundamentals Design 2.0 PDH Paul Campbell This 2 hour presentation will cover such the Fundamentals of Steam, Steam Distribution, Near Boiler Piping Considerations, Trap Operation, Sizing and Troubleshooting, Condensate Return Units, Boiler Feed and DA Tanks, Heat Exchanger and Water Heater Considerations, Pressure Reducing Stations, and Boiler Explosion - What can go wrong?	Training Room
12:10 -12:30 pm	Vendor Breakout Sessions Columbia Hydronics Long Building Technologies	Training Room
12:30 - 1:00 pm	Lunch	Training Room



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1:00 - 2:00 pm	New Approaches to Slash Lab & Commercial Building Energy Use and Improve IEQ	Training Room
	1.0 PDH Gordon Sharp (*ASHRAE DL) In the face of significant energy costs and concerns over global warming, buildings are receiving increasing scrutiny to reduce their carbon footprint and cut their energy expenses. For many buildings outside air is the largest single driver of both energy efficiency and indoor environmental quality. Demand control ventilation has attempted to reduce energy expenses by controlling outside air but the actual results over time have been mixed at best. This talk will discuss and provide case studies of both commercial and laboratory buildings for a more energy efficient and healthier variation on demand control ventilation that uses a new, cost effective, and more accurate sensing approach known as multiplexed sensing.	
2:00 - 2:20 pm	Vendor Breakout Sessions Presenter ATS Alaska Mechanical Sales	Training Room
2:20 - 2:30 pm	Break	
2:30 - 3:30 pm	Development of Condensing Boiler Technologies 1.0 PDH Russell Zabell The agenda for this presentation includes boiler construction, the combustion process, burner design vs efficiency, heat exchanger design vs efficiency and boiler piping arrangement as it relates to condensing boiler technology.	Training Room
3:30 - 3:50 pm	Vendor Breakout Sessions Stinebaugh & Company Siemens	Training Room
3:50 - 4:40 pm	Controls Communication Technology 1.0 PDH Christopher Fouts A discussion of the BACnet communication protocol, with an emphasis on specifications to ensure the needs of the owner are met. This presentation will cover the BACnet communication protocol as standardized by ASHRAE. Topics will include specifying BACnet device profiles, certified devices, BACnet MS/TP versus BACnet/IP, and wired versus wireless communication. The goal is to provide a greater understanding on how to specify a BACnet automation system.	Training Room
4:40- 5:00 pm	Vendor Breakout Session JP Sheldon Trane	Training Room



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5:00 - 5:30 pm	Vendor Booth/Trade Show Tear Down	Birch Room
5:30-7:30 pm	ASHRAE Monthly Meeting	Training Room
5:30-6:00 pm	Check-In/Dinner	Training Room
6:00-6:15 pm	Tech Talk - HVAC Presenter Andrew Lee	
6:15 - 7:15 pm	A Making Buildings Smarter to Maintain their Energy Efficiency Entitlement 1.0 PDH Gordon Sharp (*ASHRAE DL) Many highly sustainable commercial buildings as well as complex facilities such as laboratories often use sophisticated control systems to increase their energy efficiency. Unfortunately facility maintenance staffs are often overtaxed and don't have time to analyze building system performance. As a result control systems degrade and building energy use typically rises over time. This talk will describe the use of intelligent agent systems to analyze a wide range of real time building data including HVAC system performance and indoor environment data to alert operators to system degradation and problems that cut energy efficiency. Sometimes referred to as real time or monitoring based commissioning, these analytical systems often use dashboards and other very graphical visualization methods. The result is a practical and simpler means to ensure buildings realize their energy efficiency entitlements and provide a healthier indoor environment not just for when the building is opened, but over the full life of the building.	Training Room

Research Promotion:

2019-2020 Research Investors, ASHRAE Alaska Chapter

Organizations

\$3,000 & Over

Stinebaugh & Company
Anonymous Donors

\$1,000 & \$2,999

Alaska Mechanical Contractors Association (AMCA)

\$500 - \$999

Brian & Brad
Frontier Supply
Proctor Sales Inc.
Puget Sound ASHRAE Chapter

\$100 - \$499

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Cole Industrial Inc.
Columbia Hydronics
CRW Engineering
DXPE/Alaska Pump & Supply Inc.
JP Sheldon Company
Jernstorm Engineering
LONG Building Technologies
MBA Consulting Engineers Inc.
Mechanical Construction & Consulting Inc.
Mechanical Sales Inc.
Meridian Systems
Norcoast Mechanical Inc.
Roth-Sirianni, LLC.
Scope Permitting and Engineering
Superior Mechanical Service
Victaulic Inc.

Individuals

\$100 & Over

Cheyenne Alabanzas
Mack Bergstedt
Phil Hayes
Jeff Hurd
Ed Kaiser
Kyle Kaiser
Doug LeCren
Tracy McKeon
Doug Murray
Sam Ratnasigamani
Ron Thompson
Nathan Zeigler

Fellow ASHRAE Members,

Through your generosity our chapter has currently raised \$15,378.02 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.

I have often heard the question, "How are my RP donations used?" and "What benefit do RP donations have for Alaska?"

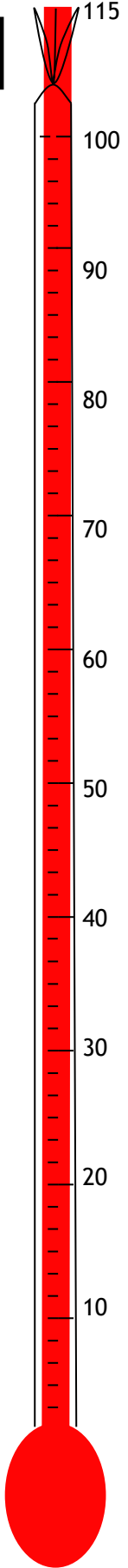
- ASHRAE RP funds are pooled at the society level, then with the entire society's resource potential the funds are redistributed in order to achieve the highest potential output.
- It is through the funds generated for RP that all ASHRAE codes and standards are researched, written and implemented into the built environment that we live in.
- RP funds return to Alaska in various forms such as university research grants, scholarships, and technical committee funding.

If you are interested in donating towards the future of HVAC&R industry standards and practices please follow one of these three donation options:

- Go to <http://www.ashraerp.com> and click on "donate".
- You can mail a check made out to "ASHRAE Research" please put "Alaska Chapter" in the memo line and mail to: ASHRAE Research 1791 Tullie Circle, NE, Atlanta, GA 30329.
- You can donate when you renew your membership on line. After you have made your selections for renewal the next page is for you to donate to ASHRAE funded items. About 3/4 of the way down the page you will see Research Promotion. Click "Add to Cart"

If you have already made a donation, your name should appear at the top of this page, if not, it should appear next month. Please feel free to contact me if your name is not present below and you made a donation or 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,
Nathan Zeigler
Alaska Chapter Research Promotion Chair
Nathan.Zeigler@contractor.conocophillips.com





Alaska Chapter

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Welcome new ASHRAE members! We are off to a good start with an additional five members since August:

Aaron J Morrison
Stephen J Bishop
Austin D Dabbs
John R Van Alstine
Kory Russell Robbins

This brings us to **193 members** strong in the Alaska chapter. Remember it takes everyone to help grow our local chapter, so look around and invite a coworker or friend to attend this month's meeting.

Why You Should Be an ASHRAE Member

It's really quite simple. You can benefit from all of the resources ASHRAE provides as the world's leading organization of HVAC&R and built environment professionals. Consulting engineers, property owners and managers, designers, installers and maintenance and repair professionals all benefit from ASHRAE, including these member benefit highlights:

ASHRAE Handbook — the indispensable, industry-wide resource for all HVAC&R professionals. Each volume is updated every four years. And members can subscribe to ASHRAE Handbook Online for immediate online access to the complete Handbook series.

ASHRAE Journal — this monthly resource is the most trusted publication in HVAC&R engineering.

High Performing Buildings — the quarterly magazine for innovation and measured performance in efficient and sustainable buildings.

ASHRAE Technology Portal

HVAC&R Industry — a weekly news resource keeping ASHRAE members abreast of the latest industry news and information.

Access to more than 300 technical publications.

Access to education, courses and webcasts.

Professional certification

Please feel free to contact me about your membership renewal or associated benefits.

Sincerely,
Gregory Jernstrom
ASHRAE Alaska Chapter Membership Promotion Chair
907.522.1070

Sponsorship Opportunities

There are now various ways to be a sponsor for ASHRAE! Contact samr@rsa-ak.com for more details!

Gold Sponsorship: \$5,000

- (1) Foursome team for annual golf tournament
- (1) Hole sponsorship for golf tournament
- (1) Seat for every chapter meeting
- Announcement of your sponsorship during all meeting introductions and events.
- Logo on website
- Business card advertisement in newsletter (September - May)

RP Donor Level - ASHRAE Associate (\$2500):

- Gold Commemorative Coin & Plaque, Listed in the annual Investor Honor Roll

Forget-Me-Not Chapter Sponsorship: \$2,500

- (1) Range Sponsorship during Annual RP Shoot out
- (1) Hole Sponsorship for the golf tournament
- Announcement of your sponsorship during all meeting introductions and events.
- Logo on website
- Business card advertisement in newsletter (September - May)
- RP Donor Level - Major Donor - Silver (\$1000):

- Silver Commemorative Coin & Plaque, Listed in the annual Investor Honor Roll

Chapter Meeting Sponsor: \$1000 (Limited to 8 Sponsors, 1 per meeting)

- Sponsor's table available with display and literature prior to meeting
- Logo on welcome message during monthly chapter meetings
- Announcement of your sponsorship during the meeting introduction
- Logo on website
- Business card advertisement in newsletter (September - May)
- RP Donor Level - Major Donor - Bronze (\$500):

- Bronze Commemorative Coin & Plaque, Listed in the annual Investor Honor Roll

Web Sponsorship Package: \$350

- Logo on website
- Business card advertisement in newsletter (September - May)
- RP Donor Level - Honor Roll (Individuals only) (\$100):

- Receive blue desktop coin holder, Listed in the annual Investor Honor Roll

Newsletter Sponsorship: \$150

- Business card advertisement in newsletter (September - May)

Upcoming Seminars and Classes

Looking for volunteers for speaking to students and public on Fridays for College of Engineering Professional Seminar Series for Spring 2020. If you are interested,

*Please contact: **Getu Hailu at ghailu@alaska.edu**.
Thank you for supporting UAA!*

Free Parking on Fridays!



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ASHRAE YEA

Learn-to-Curl Holiday Party



Friday, December 20, 2019

5:00 p.m.-9:00p.m.

Anchorage Curling Club
711 E Loop Road, Anchorage, Alaska 99501

\$10 per person

Get to know fellow YEA members, and start the pre-holiday weekend off right!

This event will include curling lessons from the Anchorage Curling Club, Moose's Tooth pizza, and a cash bar.

This is a 21+ event and will be capped at 40 participants.

Please RSVP to **Elena** at ehartford@mechanicalsales.com

Thank you for supporting YEA!



UPCOMING ASHRAE EVENTS AND MEETINGS

(This is a tentative schedule dates and programming is subject to change)
 Like us on Facebook at <https://www.facebook.com/AlaskaASHRAE> and : www.Ashraealaska.com

Date/Event	Description
Thursday, Sept. 12, 2019 Chapter Meeting	Distinguished Lecturer Devin Abellon / Embedded Tube Radiant Systems to Maximize LEED Points
Thursday, Oct 17, 2019 Tour	Ice Plant Tour. Lunch Meeting
Friday, Nov. 22, 2019 Chapter Meeting	@ BP CENTER 5:30 PM-7:30 PM
Friday Nov. 22, 2019 TRADE SHOW/ TRAINING:	@ BP ENERGY CENTER 9:00 AM—5:00 PM
Thursday, Jan. 16, 2020 Chapter Meeting	Trailblazers in Arctic Engineering/ Membership promotion
Thursday, Feb. 20, 2020 Chapter Meeting	@Conoco Phillips Industrial Oil & Gas: Non-Comfort Cooling Applications
Thursday, Mar. 19, 2020 Chapter Meeting	Indoor Agriculture
Thursday, Apr. 16, 2020 Chapter Meeting	Sustainability: Wind, solar, storage, heat recovery
Friday, Apr. 24 RP / Social Event	RP Shootout At Birchwood Range
April 30-May 3, 2020	CRC Conference @ Edmonton AB, CA
Thursday, May 21, 2020 Chapter Meeting	Anchorage Museum Tour & CRC Wrap up



Tom Fisher
President

Email: tomfisher@aaronak.com

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Derek Bradish
Alaska Territory Manager

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