



September 2019

Alaska Chapter Newsletter Hot Gas Bypass

ASHRAE Monthly Meeting Information

ANCHORAGE:
Presentation: Embedded Tube Radiant Systems to Maximize LEED Points
Date: Thursday, Sep 12, 2019
Time: 5:30pm: Check-in
6:00 pm: Dinner
Location: CRW Engineering Group

Please RSVP to Craig Rohwer at:
CROhwer@Trane.com or Cheyenne Alabanzas at
calabanzas@rsa-ak.com by noon on Wed Sep 11th.

Please see Page 2 for details on exact addresses and costs.

Alaska Chapter Officers and Chairs

Tracy McKeon, President
tmckeon@crweng.com

Cheyenne Alabanzas, President-Elect
calabanzas@rsa-ak.com

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Blake Burley, Fairbanks Section President
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Jeff Hurd, Grassroots Gov. Advocacy
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Greg Jernstrom, Membership Promotion
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Craig Rohwer, CTTC Chair
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Nathan Zeigler, Research Promotion
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Jan Van Den Top, Historian
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Maile Guieb, Webmaster,
Electronics Communications Chair
mguieb@stinebaugh.com

Alaska ASHRAE Chapter
PO Box 244503
Anchorage, AK 99524

President's Message:

Welcome Alaska ASHRAE Members!

We are off to another successful year! Our chapter was recognized at the Chapter Regional Conference (CRC) by receiving a Full Circle Award, the Presidential Award of Excellence, and the McDougall Kilometer Person Award. Not many chapters can say that they won this award while HOSTING the CRC!

We need to acknowledge and send a huge thank you and Congratulations to Ron Thompson and all the CRC Committee members who made this year's "CRC at Sea" a huge success! Their efforts were recognized by all the Chapters in attendance and applauded as the most fun and well done CRC!

If you haven't already, mark your calendars for our first meeting of the year please do so! Thursday, September 12th we have a great presentation in store for you, ASHRAE Distinguished Lecturer, Devin Abellon, P.E. will be presenting on Embedded Tube Radiant Systems to Maximize LEED points.

We are excited to launch our programs for this coming year. Our CTTC committee has worked actively to reach out to our ASHRAE community in an effort to provide programs in which you want to participate. For those who joined in our annual Golf Tournament this August, a printed 2019/2020 program schedule was included in your goodie bag. If you missed the golf tournament this year, not to worry, our schedule is published in this newsletter and we will have a limited copies available at the meetings. Don't forget our schedule of events can always be found online at our website: <https://ashraealaska.com/>

In addition to our monthly meetings, annual golf tournament, and the RP Shootout. ASHRAE will be hosting a HVAC Conference and Trade Show November 22, 2019 at the BP Energy Center. 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.

As always please remember, our chapter works as a volunteer organization. It is through the generous donations of our local industry and individual sponsors in the form of financial, service and volunteer commitments that we are able to develop our programs and bring these opportunities to our professional community. I'd would genuinely like thank all those who have stepped forward to made commitments and continue to donate to our chapter including our first Gold Level Sponsor, Stinebaugh & Company!

The only way we continue this success is through generous sponsors and volunteers so please get involved! I am looking forward to working for you and the chapter over the next year as your President. If you have any questions or concerns, please feel free to email or call me! Welcome all to the 2019-2020 ASHRAE year!

Sincerely,

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





Alaska Chapter

Alaska Chapter Newsletter
Hot Gas Bypass

Anchorage September Meeting:

Presentation:
Embedded Tube Radiant
Systems to Maximize
LEED Points

Date:
Thursday,
September 12th, 2019

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

Location:
CRW Engineering
3940 Arctic Blvd
1st Floor S. Bldg
Anchorage, AK

Cost:
Members: \$25

RSVP:
Please RSVP to
Craig Rohwer at
CRohwer@Trane.com
or
Cheyenne Alabanzas
calabanzas@rsa-ak.com
By noon on Wednesday
September 11th

This month we are excited to introduce one of ASHRAE’s Distinguished Lecturers Mr. Devin A. Abellon.

Devin Abellon, P.E. is the Business Development Manager for Engineering Services at Uponor North America. He has 25 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 is an active member of both ASPE and ASHRAE, and serves as the ASHRAE Region X Nominating Member, Programs Subcommittee Chair for ASHRAE TC 6.5 and as an ASHRAE Distinguished Lecturer. He is also a member of ASHRAE’s Conferences and Expositions Committee.



Devin will be discussing the following topic:

Embedded Tube Radiant Systems to Maximize LEED Points :

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 and Atmosphere credits for LEED certification, and see examples of how this has been accomplished on projects both here in the United States and abroad.

We hope to see you there!



Alaska Chapter

Alaska Chapter Newsletter Hot Gas Bypass

HISTORICAL INTERVIEW – Brian Miller

1. Where were you born and raised?

I was born in Seattle, Washington on March 2, 1958. Raised for 5 years in Seattle, then moved 25 miles SE to Maple Valley, WA. I went to Tahoma School District for 1st through 12th grade.



2. What fostered your interest in engineering?

My father was a telephone tech. He started literally in the mail room and worked his way up through becoming an installer, then went into management. I had an interest in electronics at an early age. Even had my own phone network from (Brian at work -1990- Note: No computer) our house to my tree house. When I was around 12 years old, my dad arranged with an instructor that he was taking an electronics course from through the phone company to bring the course material home to me so that I could take the classes at the same time. I would read the material and take the tests and the instructor would review and grade them. The material covered basic electricity through transistors.

3. What college did you attend and what degrees did you pursue?

I attended Green River Community College for one year immediately after High School in 1976, taking electronics and business management courses. I then decided to get my education while working so began working as an apprentice electrician, continuing with night school at Green River, Renton Vocational Technical Institute and the University of Washington. I advanced from first year to second year apprenticeship school due to the electronics courses I had taken through my father's training school. I moved from doing electrical work to controls work in 1982, and took a semester course put on by ASHRAE on the Fundamentals of HVAC to gain an understanding of the mechanical systems I was running control wire for. I continued taking night courses in electronics and business topics for the next 8 years, though I never put it all together to get a degree of any sort.

4. Where did you first work and what other companies did you work for?

I started as a laborer for my step-dad doing residential and commercial construction. I worked at DJ Electric in Renton, Washington as an electrician from 1977 through 1982. I worked for Alerton Technologies in Redmond, Washington from 1982 through 1984 as a technician. I moved to Alaska in 1984 working for Control Contractors, Inc. as a project coordinator and technician. In 1986 I was appointed Branch Manager for Control Contractors. In 2010 Control Contractors was sold and I took on a position as Chief Technology Officer for CCI Automated Technologies. In 2016 I was appointed Vice President and General Manager for LONG Building Technologies, who acquired CCI automated Technologies in 2014. Basically, I have been with the same company for 34 years now.

5. Did you start out in HVAC?

I started in electrical installation as referenced above. I moved into HVAC as a technician / installer for Alerton Technologies, which at the time was a spin-off of Control Contractors, Inc. Al Lucas, the owner of CCI and the AL of Alerton, moved me to Alaska in 1984.

6. Were you instrumental in starting the local ASHRAE Chapter? How did it happen?

I was not instrumental in starting the Alaska ASHRAE chapter. I got involved through Dick Armstrong. He urged me to join and then immediately got me involved on the chairs as Treasurer when I joined in 1990. I skipped a year half way through as vice president. I remember because the VP had already lined up the speakers, I had to follow-up and get them there for the remaining meetings. We were meeting in the old Northern Lights Inn that was just torn down last year.

When I was going through the chairs, the Presidential Award of Excellence, PAOE, was a big focus – everyone was focused on doing the things needing done to get points. People are naturally goal driven, so having activities identified to be done to have your chapter recognized also made for an active and effective chapter – the process works.



(Brad Sordahl, James Harrison, President Elect, Tracy Hannigan, DCR and Brian at the First CRC at sea)

Brad Sordahl and I created the PAK Committee (Points Are King) in the mid 2000's for our chapter that was designed to help the chapter do the things it needed to do to be successful. The Alaska chapter had a series of years where we received not only the PAOE patch for our flag, we also received additional honors, Star if you met PAR in all categories. I see the chapter is again focusing on doing the things needed to be effective and successful, (without the PAK Committee).

7. Were you also active in the Society's technical or other committees?

I have not been on any regional committees, just chapter committees.

8. Any memorable jobs you were associated with? Tell a bit about some.

There have been numerous construction projects in Alaska that I have been involved with. A couple of note for me are the following.

In 1984 when I first moved to Alaska I spent most of my time in Juneau overseeing the installation of an Energy Management Control System for the Juneau School District. I spent 9 months getting systems installed in 10 schools.

In 2001 through 2004, I was involved in the Concourse C Expansion at Anchorage International Airport. This project required lots of up front technical assistance with the design, and was one of the first, and the largest open protocol systems installed in the State, using Lonworks technology.

9. Any memorable people you knew professionally, either locally or in the society? Tell a bit about some.

9. Any memorable people you knew professionally, either locally or in the society? Tell a bit about some.

I met Dick Armstrong in ASHRAE and on projects that he had designed. He was influential in getting me started in Alaska and involved with ASHRAE. I assisted him in design work for the controls for the Antarctica South Pole Station he was involved with.

I can't go without mentioning our Chapter Research Promotion Chair, Bob Heym, as a memorable person in ASHRAE. Bob helped drive for research funds and he led by example in donating both time and money.

10. Any high points that stand out with relation to you and ASH RAE?

I enjoyed going to the CRC's and hosting them. 1992 Alaska hosted CRC at Captain Cook Hotel. I was president that year. I recall being nervous about having to speak in front of the group at the conference.

In 2006 we hosted the CRC at Sea, which was a very memorable event.



11. Note any significant changes over the life of your career which have affected the business.

In the building controls market, the biggest change has been the evolution from Pneumatic to Electric to Direct Digital Controls just during the course of my career in the controls industry. Along with this has been the migration toward open protocol systems, which ASHRAE helped to develop with BACnet Standard 135. This has significantly changed the business in providing a competitive platform for controls providers. The original open protocol was 20 PSI main air pressure. Any manufacturer could put their pneumatic receiver controller in a panel with another manufacturer and use the same air supply to perform control functions and interoperate with each other. Today we have the BACnet protocol, which allows differing manufacturer's controllers to communicate over the same wires to do the same.



(Early DDC Front End)

Changes I have seen that have affected business is the way projects go to market. It used to be a complete set of plans and specifications were developed by an architect and his engineering team. These documents were the put out for bid. Today, many projects are put out for bid with 35% documents and at times only a concept design. It is a new environment for both the design engineering professionals and contractors.

12. Would you suggest young people to consider a career in engineering?

If a person wants to design HVAC systems for buildings as a mechanical engineer, it really helps to have experience with building the systems. An internship with a mechanical contracting firm is highly recommended. Especially a job where on the job field work is involved so one can see how the systems go together in real life. This helps tremendously when doing engineering work; understanding what is involved with the installation of that design.

13. Any changes you would like to see in your profession?

My profession today is more of a managerial role. I really enjoy getting out into the field to troubleshoot and make things work. That's more of a role change than profession change, just an aspect of the profession that is enjoyable.

14. Any other words of wisdom about our field of engineering?

As for my field of engineering, if a person is interested in designing building automation control systems, education and experience on the electrical side are recommended. There are some schools that specialize in controls engineering in the country that for the most part guarantee landing a job in that field. This is a very specialized field with a great need of talent.

15. Any other comments about the ASHRAE Society?

ASHRAE is important to our industry in its focus on designing healthy, comfortable and efficient building environments. The organization is great to be involved with, at all levels of one's career. It is an opportunity to meet others in the same field, gain knowledge of new technologies and products from the monthly meeting technical presentations, and learn leadership skills by getting involved with the committees and chairs in the chapter. There are numerous benefits to membership of the national organization. I have attended a number of the annual AHR shows. These are a great resource for learning about new technologies and products, as well as further your knowledge through the technical seminars presented.



Research Promotion:

2019-2020 Research Investors, ASHRAE Alaska Chapter

<u>Organizations</u>		
<p><u>\$5000 & Over</u> Stinebaugh & Company</p>	<p>Long Controls MBA Engineers Inc. RSA Engineering Inc.</p>	
<p><u>\$150—\$499</u> AMC Engineers Cole Industrial Inc. Columbia Hydronics Coffman Engineers CRW Engineering Jernstorm Engineering</p>		

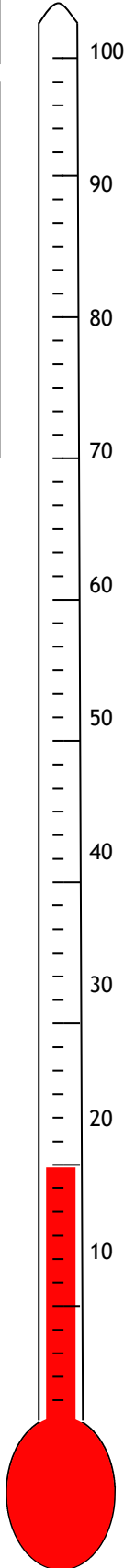
Fellow ASHRAE Members,

ASHRAE Research is essential to updates that are made to the Society's standards and guidelines, which provide uniform methods of testing for rating purposes. The standards and guidelines suggest safe practices for design and installation and provide other information which guides the industry. Every dollar that is donated goes to ASHRAE Research, 100%! 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



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 Events

See Page 9 for more details!

Website Updates:

Check us out at <https://ashraealaska.com/>



Find us on
Facebook

ASHRAE Alaska Chapter is now on Facebook!
For updates through the Summer follow us at:
<https://www.facebook.com/AlaskaASHRAE/>



UPCOMING EVENTS AND MEETINGS

(This is a tentative schedule dates and programing 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 Chapter Meeting	Trailblazers in Arctic Design Engineering / Member Recognition Night
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	Ice Plant Tour WFSC UAA Student Promotion Lunch Meeting
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 re- covery
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



Turnagain Elementary Parent Teacher Association

3500 W Northern Lights Blvd., Anchorage, Alaska 99517

Phone: 907-742-7200

Fax: 907-742-7207

Ryan Snow President

TurnagainPTA@gmail.com

To Whom It May Concern:

Turnagain Elementary is having a STEAM EXPO on October 05, 2019. This is to celebrate Science, Technology, Engineering, Art and Math. Our theme this year is *Discoveries Through Time*. We are expecting between 200 to 300 students to filter through our building between 12:00 to 3:00 p.m. We are trying to solicit items for prizes, and cash donations for this event and other after school activities.

Items we need are items like Glow Sticks, bubbles, ticktacktoe, and/or plastic stencils, rulers, pencil and party favors, that we can use as give-away prizes. We will also need 300 black or orange plain paper party bags to put the prizes into. We need up to 300 individual pieces of any items you are willing to donate with your company name on it which we can include in the bags. In addition, we will accept any cash donations. Please make checks payable to Turnagain PTA. We would like to have you as one of our sponsors.

Thanking you in advance for any donations. For more information or receipts, please contact Mr. Snow at the above e-mail. The PTA nonprofit EIN number is 92-0060325. Please consider donating these items for our cause.

Sincerely,

Mrs. Eastham
PTA -- STEAM EXPO Committee Chairman
eastham_laura@asdk12.org
6th grade Teacher

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Derek Bradish
Alaska Territory Manager

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