



March 2020

## Alaska Chapter Newsletter Hot Gas Bypass

### ASHRAE Monthly Meeting Information

#### ANCHORAGE Meeting:

#### Presentation:

Commercial and Utility Scale Battery Energy Storage Systems (Building and Containerized Solutions)

#### By:

Tony SlatonBarker

#### Date:

Thursday, Mar 19, 2020

#### Time:

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

#### Cost:

Members and Non-Members: \$20  
Students: Free

#### Location:

Coffman Engineers  
518 W8th Ave  
Anchorage, AK

#### RSVP:

Please RSVP to Cheyenne Alabanzas at  
calabanzas@rsa-ak.com

#### Pay online at

<https://ashraealaska.com/shop>

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[tmckeon@crweng.com](mailto:tmckeon@crweng.com)

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[samr@rsa-ak.com](mailto:samr@rsa-ak.com)

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[blake@designalaska.com](mailto:blake@designalaska.com)

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[Jeff.hurd@awwu.biz](mailto:Jeff.hurd@awwu.biz)

Greg Jernstrom, Membership Promotion

[greg@jernstromengineering.com](mailto:greg@jernstromengineering.com)

Mak Kampen, Student Activities

[Matthew.Kampen@conocophillips.com](mailto:Matthew.Kampen@conocophillips.com)

Elena Hartford, YEA

[ehartford@mechanicalsales.com](mailto:ehartford@mechanicalsales.com)

Craig Rohwer, CTTC Chair

[crohwer@trane.com](mailto:crohwer@trane.com)

Nathan Zeigler, Research Promotion

[Nathan.zeigler@contractor.conocophillips.com](mailto:Nathan.zeigler@contractor.conocophillips.com)

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[janvndtop@acsalaska.net](mailto:janvndtop@acsalaska.net)

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[mguieb@stinebaugh.com](mailto:mguieb@stinebaugh.com)

Alaska ASHRAE Chapter

PO Box 244503

Anchorage, AK 99524

### President's Message:

Hello Alaska ASHRAE Members!

Our meeting this month is on March 19<sup>th</sup> the presenter is Tony SlatonBarker with Coffman Engineers. He will be presenting on an alternative energy solution Commercial and Utility Scale Battery Energy Storage Systems (BESS). We have invited the local Chapter of IEEE to join us at this meeting and invite our members to include anyone else that maybe interested in this topic! In addition, we will be having a bit of Historical trivia at the top of the meeting and the potential to win a few prizes exists for knowing something about our ASHRAE history! Remember to brush up and read some of our past HOTGAS Bypass newsletters for your best chance to win!

The time is now to get your team together for the Alaska Chapter Annual ASHRAE RP Shootout! The event is scheduled for Friday April 17<sup>th</sup> from 12:30 to 4:00. Be on the lookout for signup sheets and sponsorship opportunities in the newsletter and on our website and Facebook page!

Also, The ASHRAE Chapter Regional Conference is coming up on April 30-May 2 in Edmonton, Canada. We will have multiple members attending this year and it looks great event. If you are interested in attending this event, please visit: <https://www.ashraenac.org/nacevents/2018/8/29/crc-2020>.

I want to give a quick thank you to all our members who participated in E-Week events. We had a great turnout at the Library for Student Competitions and it was a terrific success.

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](mailto:tmckeon@crweng.com)





Alaska Chapter

Anchorage March Meeting:

Alaska Chapter Newsletter  
Hot Gas Bypass

**ANCHORAGE Meeting:**

**Presentation:**

**Commercial and Utility Scale  
Battery Energy Storage Sys-  
tems (Building and Container-  
ized solutions)**

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March 19th, 2020**

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Students: Free**

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**Coffman Engineers  
519 W 8th Ave  
Anchorage, AK**

**RSVP:**

**Please RSVP to  
Cheyenne Alabanzas at:  
calabanzas@rsa-ak.com**

Pay online at

<https://ashraealaska.com/shop>

**Commercial and Utility Scale  
Battery Energy Storage Systems (BESS)**

This month we're pleased to have Tony SlatonBarker with Coffman Engineers join us in presenting on an alternative energy solution!

Tony is the vice president of energy and sustainability and a principal in our Anchorage office. Tony manages and supports Coffman's renewable and alternative energy projects companywide and oversees a team of alternative energy champions that are located in Coffman offices across the US. Additionally, Tony coordinates with technical leads for various energy engineering requirements for battery storage, combined heat and power (CHP), microgrids, solar, and wind projects. Tony has been with Coffman since 2000 and he has been an advocate for sustainability and alternative energy his entire career.



Tony will be presenting on Energy Storage Systems (ESS) - existing scale and forecast with a focus on Battery Energy Storage Systems (BESS) including Market Forecast, Benefits - Risks / Rewards, Battery types, and Unique Engineering Discipline components including:

Electrical - Inverters  
Thermal Management  
Site Planning  
Fire Protection

This topic is unique and one of the many facets for alternative energy solutions. We look forward to seeing you at the meeting!



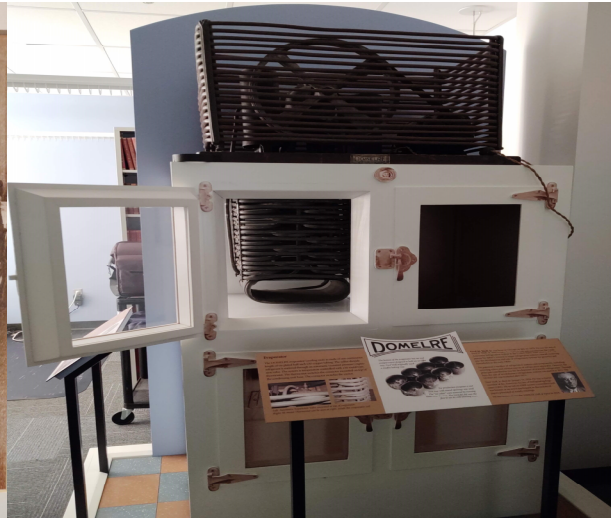
Alaska Chapter

# Alaska Chapter Newsletter Hot Gas Bypass

The following are some photos from my visit at the ASHRAE HQ in Atlanta – Sam

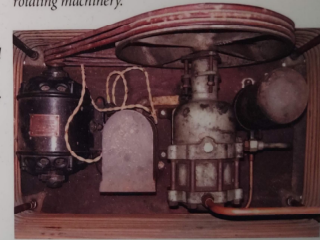


ASHVE 1911 Annual Meeting  
1913 New York City



Type of electrical plug used with DOMELRE unit. Before the 1920's homes did not have electrical outlets. Early electric appliance cords were fitted with a male Edison socket base which could be screwed into a room light socket. A single room light fixture could be modified to accommodate multiple appliance cords by using a "cluster" which was a multi-socket adapter that screwed into the single light socket. Clusters came in different sizes with two to five light sockets.

Top view showing condensing unit construction. One-quarter horsepower repulsion start induction AC motor at left is connected to 12 cylinder compressor at right with three rubber cord belts. Contactor box is between the motor and compressor. Condenser coil is half-inch OD copper tubing surrounding the machinery connected with flare type copper tubing connections to the compressor and receiver tank at right. The condenser coil cage also serves as protection against the rotating machinery.







Alaska Chapter

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Research Promotion:

2019-2020 Research Investors, ASHRAE Alaska Chapter

Organizations

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Anonymous Donors

**\$1,000 - \$2,999**  
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Contractors Association (AMCA)

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

**\$100 - \$499**  
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Phil Hayes  
Jeff Hurd  
Ed Kaiser  
Kyle Kaiser  
Doug LeCren  
Tracy McKeon  
Doug Murray  
Sam Ratnasigamani  
Ron Thompson  
Jan Van Den Top  
Nathan Zeigler

Fellow ASHRAE Members,

**Through your generosity our chapter has currently raised \$17,838.28 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?"

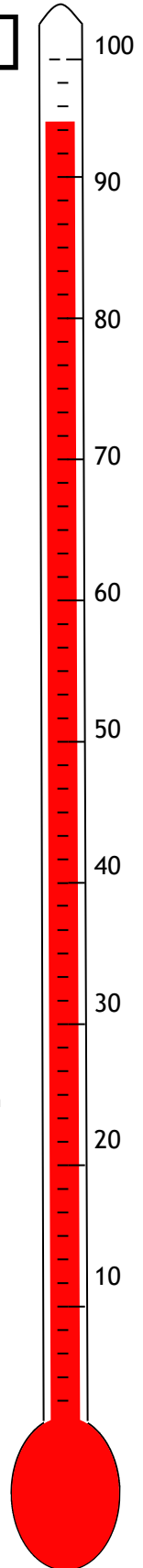
- ASHRAE RP funds are pooled at the society level, then with the entire society's resource potential the funds are redistributed in order to achieve the highest potential output.
- It is through the funds generated for RP that all ASHRAE codes and standards are researched, written and implemented into 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](mailto:Nathan.Zeigler@contractor.conocophillips.com)







**ASHRAE—Alaska Chapter  
Presents:**

**2020 RP SHOOTOUT**

**Date:** April 17, 2017

**Where:** Birchwood Recreation & Shooting Park

**Time:** 12:30 - 4:00 PM

**Event:**

- 1) 5 member teams will be competing in 2 round of skeet and 2 round of Trap
- 2) Each team member will be provided with 4 boxes of ammunition.
- 3) Shotguns rentals are included in the event cost, (or bring your own).
- 4) Lunch, Snacks and drinks will be available.

**Cost:** \$125 per person/\$625 per team

**Benefit:** All proceeds go to ASHRAE Research Promotion

**Shooters:**

- 1) \_\_\_\_\_
- 2) \_\_\_\_\_
- 3) \_\_\_\_\_
- 4) \_\_\_\_\_
- 5) \_\_\_\_\_

**Range Sponsor: \$250**

Company Name for Stand: \_\_\_\_\_

**Shotgun Sponsor: \$250**

Company/Individual Name: \_\_\_\_\_

**Ammunition Sponsor: \$500**

Company/Individual Name: \_\_\_\_\_

**Payment Method (please circle):** On-line  Check

For on-line payments, see the RP Shootout page at: [ashraealaska.com/events](http://ashraealaska.com/events) For check payments, please make payable to: "ASHRAE Alaska Chapter"

**Contact Phone Number:** \_\_\_\_\_

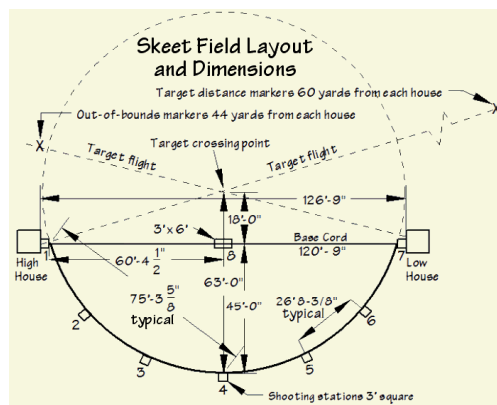
**ASHRAE Research Promotion**

"Big shots are only little shots who keep shooting"  
Christopher Morley

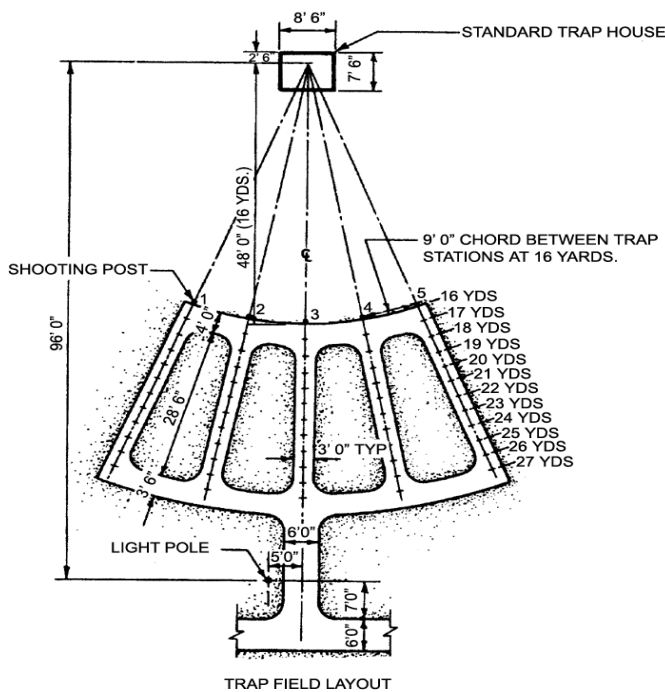
"Aim Small Miss Small"  
Mel Gibson, The Patriot

**Please fill out form and send to:**  
Nathan Zeigler, 2019-2020 RP Chair  
E-mail: [nathan.zeigler@contractor.conocophillips.com](mailto:nathan.zeigler@contractor.conocophillips.com)  
Phone: (907) 263-3135

ASHRAE—Alaska Chapter  
Presents:



Trap Field Layout



ASHRAE Research Promotion

“Big shots are only little shots who keep shooting”  
Christopher Morley

“Aim Small Miss Small”  
Mel Gibson, The Patriot

Please fill out form and send to:  
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Phone: (907) 263-3135



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## ASHRAE YEA **Happy Hour**



**Tuesday, March 24, 2020 at 5:30p.m.**

7920 King St, Anchorage, Alaska 99518

**FREE**

Enjoy some craft beers, buy your own drinks style, and  
get to know your fellow YEA members!

Due to the location, this is a 21+ event.





Alaska Chapter

Alaska Chapter Newsletter  
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## SPONSOR an ASHRAE YEA Event

My goal as the YEA Chair is to offer free or reduced-price events for YEA members each month, so we can get to know one another and build a **stronger ASHRAE and HVAC community for the future.**

Have your name or logo represented on event literature!

Email **Elena Hartford** at [ehartford@mechanicalsales.com](mailto:ehartford@mechanicalsales.com) for more information about upcoming events and to find out how you or your company can make a difference.

## Sponsorship Opportunities

There are now various ways to be a sponsor for ASHRAE! Contact [samr@rsa-ak.com](mailto: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](mailto:ghailu@alaska.edu).  
Thank you for supporting UAA!***

***Free Parking on Fridays!***



## UPCOMING ASHRAE 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](http://www.Ashraealaska.com)

Date/Event	Description
Thursday, Sept. 12, 2019 <b>Chapter Meeting</b>	Distinguished Lecturer Devin Abellon / Embedded Tube Radiant Systems to Maximize LEED Points
Thursday, Oct 17, 2019 <b>Tour</b>	Ice Plant Tour. Lunch Meeting
Friday, Nov. 22, 2019 <b>Chapter Meeting</b>	@ BP CENTER 5:30 PM-7:30 PM
Friday Nov. 22, 2019 <b>TRADE SHOW/ TRAINING:</b>	@ BP ENERGY CENTER 9:00 AM—5:00 PM
Thursday, Jan. 23, 2020 <b>Chapter Meeting</b>	Icons of Alaska HVAC/ Membership promotion
Thursday, Feb. 20, 2020 <b>Chapter Meeting</b>	Conoco Phillips Industrial Oil & Gas: Non-Comfort Cooling Applications
Thursday, Mar. 19, 2020 <b>Chapter Meeting</b>	Commercial and Utility Scale Battery Energy Storage Systems(BEES)
Thursday, Apr. 16, 2020 <b>Chapter Meeting</b>	Sustainability: Wind, solar, storage, heat re- covery
Friday, Apr. 24 <b>RP / Social Event</b>	<b>RP Shootout At Birchwood Range</b>
April 30-May 3, 2020	CRC Conference @ Edmonton AB, CA
Thursday, May 21, 2020 <b>Chapter Meeting</b>	Anchorage Museum Tour & CRC Wrap up





**Tom Fisher**  
President

Email: [tomfisher@aaronak.com](mailto:tomfisher@aaronak.com)

2143 Standard Avenue  
Fairbanks, Alaska 99701  
website: [www.aaronak.com](http://www.aaronak.com)

Phone: 907-452-3463  
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201 East 54th Avenue  
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 Mobile: +1 907 227-2199  
 Fax: +1 907 563-6139  
[jim.mcdonough@siemens.com](mailto:jim.mcdonough@siemens.com)  
[usa.siemens.com](http://usa.siemens.com)

Jim McDonough  
 Account Executive  
 Building Automation



Derek Bradish  
 Alaska Territory Manager

Email: [derek.bradish@victaulic.com](mailto:derek.bradish@victaulic.com) Cell: 907/347-8276