



September 2021

## Alaska Chapter Newsletter Hot Gas Bypass

### ASHRAE Monthly Meeting Information

**Presentation:**

New EC Titanium integrated motor drive

By: Mark Gmitro

Date:  
Thursday, October 21, 2021

Time:  
12:00 pm

Cost:  
Free

Location:  
GoTo Meeting Online

<https://www.gotomeet.me/ashraek>

Phone:  
1-872-240-3412

Access Code:  
264-465-621

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### President's Message:

Hello ASHRAE Alaska Members,

Happy October!

Equation of the month is, Reynold's Number,  $Re = VL/v$ , where  $V$  = Time averaged velocity in ft/sec,  $L$  is the characteristic length in ft and  $v$  is the kinematic viscosity in  $ft^2/s$ . Why do we need to know Reynolds Number? To determine if the flow is laminar or turbulent. Who is Reynold? Osborne Reynolds (1842-1912) was an Irish born innovator in fluid dynamics. Reynolds studied the conditions in which the fluid flow in pipes transitioned from laminar flow to turbulent flow.

Moving on to October meeting on Thursday Oct 21 at Noon via go to meeting, Our speaker for October is Mark Gmitro with ABB/Baldor Reliance Motors speaking on the Evolution of drive motors in HVAC systems. Mark has more than 30 years experience in product and application engineering particularly in variable speed drives. It is imperative to know how these things operate in 2021. Mark has a Bachelor of Science degree in Electrical and Electronics Engineering from the University of Illinois at Urbana-Champaign.

Nominations are now open for the 2022 Engineer of the year Award (EOTY). Each year, ASHRAE Alaska puts forward a candidate who has the combination of engineering experience, community involvement, and extra-curricular professional service. Please let us know if you think of anyone in industry who would be suitable for the nomination. I also want to encourage all firms to consider submitting an entry for the 2022 Engineering Excellence Awards. If you are a firm or company with engineering staff in Alaska, you are eligible to enter a project you worked on (can be outside of Alaska). The aim for the program is to increase the public's awareness of engineers' contributions to society and recognize firms and projects of distinction.

Thanks for attending the September YEA Bootcamp series. This month's event is on Friday Oct 15<sup>th</sup> at 11:30 am. Our speaker of the month is Tracy McKeon, Senior Mechanical Engineer and leader of the mechanical group at CRW Engineering Group, LLC. Please encourage younger engineers in your firm to attend the YEA Bootcamp series.

Thanks to all the volunteers, members, and pioneers. Enjoy the fall!

Sincerely,

Sam Ratnasigamani,  
President 2021-2022  
Alaska Chapter ASHRAE  
[samr@rsa-ak.com](mailto:samr@rsa-ak.com)



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**Presentation:**  
New EC Titanium integrated motor drive.

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Thursday,  
October 21, 2021

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12:00 pm

**Location:**  
<https://www.gotomeet.me/ashraeak>

**Dial in:** 1-872-240-3412  
**Access Code:** 264-465-621

**Cost:** Free

### New EC Titanium Motor Drive

This month we are pleased to have Mark Gmitro present on “New EC Titanium Motor Drive”

#### Speaker’s Bio:

Mark Gmitro, ABB/Baldor-Reliance Motors



Mark Gmitro is the Global Product Manager for the EC Titanium™ Product for the Variable Speed Motor Business of ABB Motors & Mechanical Inc. In this role he is responsible for the long-term profitable growth of variable speed motors including marketing analyses

and management of product life cycles for new and existing platforms based on market and product requirements. Mark has more than 30 years of experience in product and application engineering, particularly with variable speed drives, PLCs, motors and mechanical power transmission products. Mark has a Bachelor of Science degree in Electrical and Electronics Engineering from University of Illinois at Urbana-Champaign.



## Alaska Chapter Newsletter Hot Gas Bypass

### ASHRAE YEA Training

Tracy McKeon with CRW Engineering Group, LLC will be giving our next presentation in our Chapter's YEA Bootcamp training sessions. Tracy is an outstanding engineer and amazing mentor. This should be a very informative presentation for Young (and not so young) Professionals.

As with the first session, the training will be given both in person at the MOA Permit Services and online via GoToMeeting.

**Time: October 15<sup>th</sup>, 11:30 AM-1:00 PM (Alaska).**

**In-person Training Location:**

Municipality of Anchorage Development (Permit) Services  
Main Training Room  
4700 Elmore Road

\*If you are going to attend in person, please RSVP through the Chapter website at <https://ashraealaska.com/yea-bootcamp/2021/10/15/101521-training> or email Craig Fredeen at [cfredeen@coldeng.com](mailto:cfredeen@coldeng.com) so that we may order an appropriate amount of lunch for in-person attendees.

**The GoToMeeting sign-in link:** <https://global.gotomeeting.com/join/495357373>

**Access Code:** 495-357-373

You can also dial in using your phone at [+1 \(571\) 317-3122](tel:+15713173122)

We had a very successful first presentation completed by Craig Fredeen back in September. We had a great group of both in-person and online attendees (and plenty of food!). The Amazing Maile Guieb has created a separate tab on the Chapter's website for the YEA Bootcamp <https://ashraealaska.com/yea-bootcamp>. This site will host the recordings of all of the YEA presentations as well as have the sign-in and RSVP information for upcoming presentations. Craig's presentation, along with the tools/handouts that were discussed in that presentation, are now available there under the 9.21.21 tab.

We received feedback from Senior Engineers that they too enjoyed the presentation and learned a couple new tricks so the information provided in these presentations are not limited to the Young Professional.

The intent of the YEA Bootcamp series is to share the Best Practices that each of the presenters have learned during their careers. This covers soft skills such as communication with clients and bosses, how to manage projects, how to market yourself and your career, and how to be a heavily sought after professional in a competitive industry. These skills go beyond mechanical engineering so we recommend inviting other design professionals from other engineering disciplines to attend.

If you have any questions, please contact Craig Fredeen at [cfredeen@coldeng.com](mailto:cfredeen@coldeng.com) or call 907-441-1567.

We look forward to providing this valuable information to the next leaders of our industry!

ASHRAE YEA  
**Trivia Night**



**Tuesday, October 26**

**7:00p.m. - 9:00p.m.**

**Williwaw Social @ 609 F Street**

Brush up on all those random facts you keep stashed away for occasions just like this, and let's put our knowledge to the test with the **Geeks Who Drink Pub Quiz!**

Feel free to bring your coworkers or significant others.

Please RSVP to Elena Hartford at [ehartford@mechanicalsales.com](mailto:ehartford@mechanicalsales.com) if you will attend.

Hot Gas Bypass

**Research Promotion:**

**2021-2022 Research Investors, ASHRAE Alaska Chapter**

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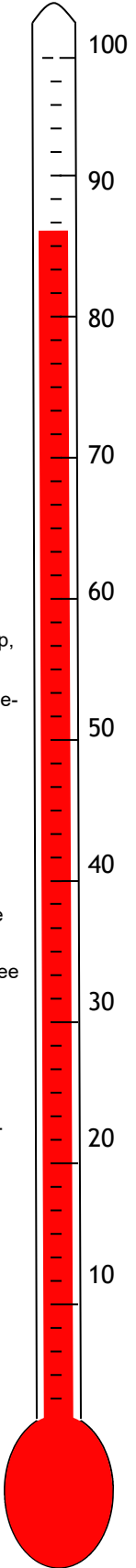
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**Honor Roll Donor**  
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Fellow ASHRAE Members,

**Through your generosity our chapter has currently raised more than \$8,000 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.ashrae.org/RP> and scroll down the page to select the "ONLINE CONTRIBUTION FORM" link.
- You can mail a check made out to "ASHRAE Research" please put "Alaska Chapter" in the memo line and mail to: ASHRAE RP; 180 Technology Parkway; Peachtree Corners, GA 30092.
- You can also donate when you renew your membership on line. After you have made your selections for renewal the next page is for donations 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, please let me know and I will update the page for next month. 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,  
 Cheyenne A. Alabanzas  
 Alaska Chapter Research Promotion Chair, [calabanzas@rsa-ak.com](mailto:calabanzas@rsa-ak.com)





## Chapter Sponsors:

## 2021-2022 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)**

**Chapter Web Sponsor: \_\_\_\_\_ (\$350)**



In the past couple of 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 the 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: \_\_\_\_\_ \$350**

• 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)

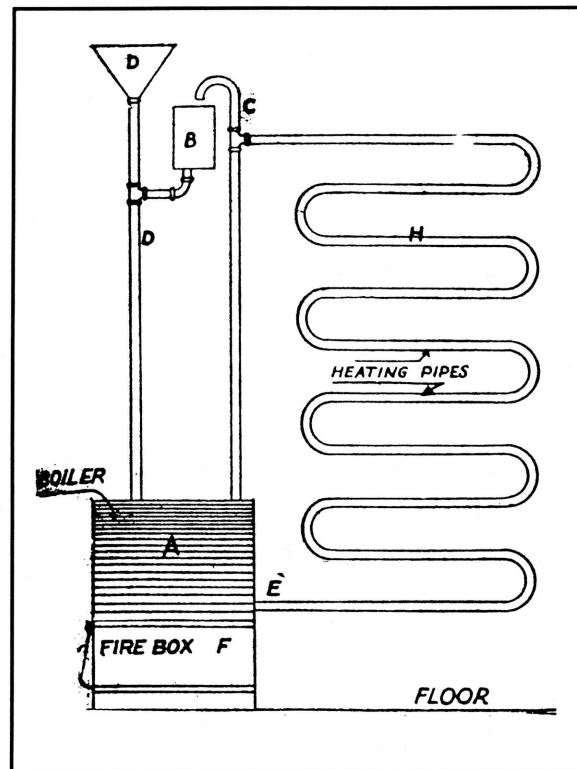
## ASHRAE HISTORY NEWS

By: Jan van den Top P.E.

I am trying to write the next five-year Chapter History. That is for the years 2011-2015. My problem is that the Hot-Gas Bypass issues for September 2014 through May 2015 are missing in my files, Does anyone have a copy of them, or know that we didn't publish any in that period? I remember that we had some quick officer changes during that period. Any information about that period will be greatly appreciated.

ASHRAE National has many Honors and Awards that they present each year. Our Chapter has not been active in this area. In order to nominate someone for such an award he/she must show several years of activity on the regional or national level and/or have authored reports or publications. If anyone is interested to persue and award, I will be glad to assist in the efforts required.

The Alaska Mechanical Contractors Association Inc. presents two Code Seminars on November 18 and 19. The first day is the Plumbing Code and the second the Mechanical and Fuel Gas Code. They are the required 8 hours continuing education for Mechanical Administrators, however anyone interested in a review of the codes is welcome. The charge is \$ 195.00/day, sign-up deadline is October 23 and information will be provided upon request by e-mailing [amca@gci.net](mailto:amca@gci.net).



**Tom Fisher**  
President

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