



October 2023

## Alaska Chapter Newsletter Hot Gas Bypass

### ASHRAE Monthly Meeting Information

#### Anchorage Meeting

**Presentation:**  
Student Night &  
ASHRAE Tech Hour—Decarbonizing Healthcare

**Date & Time:**  
Thursday, October 26, 2023  
17:45 – 19:00

**Cost:**  
\$25.00

**Location:**  
UAA Engineering & Industry Building (EIB)  
4th Floor Conference Room  
2900 Spirit Dr, Anchorage, AK 99508

**Parking:**  
Please follow UAA parking guidelines.

#### Fairbanks Meeting

**Presentation:**  
Energy Recovery Ventilation

**Date & Time:**  
Wed, October 18, 2023  
12:00 – 13:00

**Cost:**  
Free

**Location:**  
Sophie Station  
Express Room Lounge  
1717 University Ave S, Fairbanks, AK 99709

### 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  
tmckeon@crweng.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,

Our monthly meeting will be held at UAA on October 26th. Along with the UAA student night, there will be a video presentation on decarbonizing healthcare. Please be sure to sign in at the meeting and check the PHD box if you want to receive PHD credit for the presentation.

Fairbanks will be holding a lunch meeting on October 18th to discuss products and strategies related to Energy Recovery Ventilation.

Reservations have been made at King Street Brewery on March 21st, 2024, for our 50th Chapter Anniversary. If you are interested in helping plan this event, please reach out to me. More hands make light work.

Sincerely,

Nathan Lang  
ASHRAE Alaska President 2023-2024  
Alaska Chapter ASHRAE  
[nathan.lang@victaulic.com](mailto:nathan.lang@victaulic.com)





October 2023

Alaska Chapter Newsletter  
Hot Gas Bypass

### October Anchorage Meeting:

**Anchorage Meeting:**

**Presentation:**

Student Night / ASHRAE Tech Hour—Decarbonizing Healthcare

**Date:**

Thursday, October 26, 2023

**RSVP:**

<https://ashraealaska.com/events/2023/10/26/student-night-ashrae-tech-hour-decarbonizing-healthcare>

**Time:**

17:45 – 19:00

**Location:**

UAA Engineering & Industry Building (EIB)  
4th Floor Conference Room

2900 Spirit Dr  
Anchorage, AK 99508

**Cost:**

\$25

**Parking:**

Please follow all UAA parking guidelines.

### UAA Student Night!

This month we will be at UAA! Students from our ASHRAE Student Branch Chapter and Engineering Programs will be in attendance. This is an opportunity to meet the next generation of professionals and a great opportunity for Students to interact with you as industry professionals. Companies that are actively recruiting should come prepared to talk to students. Students will be encouraged to bring resumes and be ready to network. Come find out more about what our students are learning and let them know what you need them to know to come work for you!



### ASHRAE Tech Hour Decarbonizing Healthcare



Additionally, we will watch a video presentation from ASHRAE on when decarbonizing healthcare is important, and to understand the unique rules and regulations that come along with it. This Tech Hour will review both the ‘why’ and ‘how’ to decarbonize healthcare, what challenges may arise, and what different entities are doing to lead the way

*PDHs are available for this presentation*

**Presenter:** Presented by Walter Vernon, PE, LEED AP, EDAC, FASHE:

Mr. Vernon is the Chief Executive Officer at Mazzetti Inc and has nearly 30 years of experience in the research, planning, and design of healthcare facilities. His contributions to the industry include serving as a founding member of the Built Environment Network, whose intent is to advance knowledge in the healthcare facilities network. In addition, he was one of the Co- Coordinators for the Green Guide for Health Care, served on the board of both Practice Greenhealth and Health Care Without Harm, and wrote the section on hospitals for CalGreen.



He chairs the Electrical Systems Technical Committee for NFPA 99 and co-chaired the ANSI/IEEE White Book: Recommended Practice for Electric Systems in Health Care Facilities. He also chaired the R&D Committee for the Healthcare Guidelines Revision Committee (HGRC), and, in that role in particular, he’s exploring the future of healthcare, and the relationship of buildings to the delivery of that care. He’s also the Vice Chair for ASHRAE 189.3, and a member of The Center for Health Design’s Research Coalition.



October 2023

Alaska Chapter Newsletter  
Hot Gas Bypass

## October Fairbanks Meeting:

### Fairbanks Meeting:

#### Presentation:

Energy Recovery Ventilation

#### Date:

Wednesday, October 18, 2023

#### RSVP:

No RSVP Required

#### Time:

12:00 pm – 1:00 pm

#### Location:

Sophie Station  
Express Room Lounge

1717 University Ave S.  
Fairbanks, AK 99709

#### Cost:

Free

## Energy Recovery Ventilation

If you are going to be in Fairbanks this month please join us for an ASHRAE lunch meeting at Sophie Station on Wednesday, October 18, 2023, where Ken Nelson from Panasonic will be with us to discuss products and strategies related to Energy Recovery Ventilation. Bring some of your own strategies and challenges to discuss with the group. No need to RSVP for this event. Everyone is welcome! See you there.

SAVE THE DATE

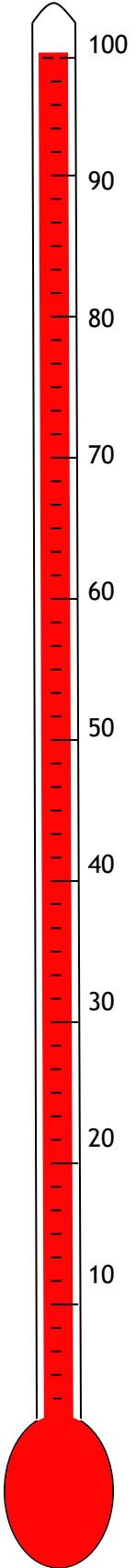
The 50th Anniversary for the Alaska ASHRAE Chapter is fast approaching! Please save the date and plan on joining us at King Street Brewery on March 21, 2024 for a Celebration of 50 years! We will be celebrating our members, their contributions to ASHRAE, ASHRAE's mission of serving humanity—by advancing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

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



Research Promotion:

2023-2024 Research Investors, ASHRAE Alaska Chapter	
<p><b><u>Organizations</u></b></p> <p><b><u>Major Donor- ASHRAE Associate (\$5,000 - \$9,999)</u></b> Alaska Mechanical Contractors Association</p> <p><b><u>Major Donor- ASHRAE Associate (\$2,500 - \$4,999)</u></b> Stinebaugh &amp; Company</p> <p><b><u>Major Donor - Silver (\$1,000 - \$2,499)</u></b></p> <p><b><u>Major Donor - Bronze (\$500 - \$999)</u></b> Design Alaska</p>	<p><b><u>Chapter Recognized Donor (\$150 - \$499)</u></b> Air Source Alaska Alaska Integrated Services Coffman Convergint Cole Industrial Frontier Supply Johnson Controls Inc. JP Sheldon Keller Supply Long Controls Mechanical Sales Mechanical Solutions Norcoast Mechanical Inc. Proctor Sales Puget Sound Pipe RSA Engineering Roth Sirianni Siemens Stinebaugh</p>
	<p><b><u>Individuals</u></b></p> <p><b><u>Major Donor (\$250 - \$2,499)</u></b></p> <p><b><u>Honor Roll Donor (\$150 - \$249)</u></b> Doug Lecren Gregory Jernstrom</p> <p><b><u>Donor (\$1-150)</u></b></p>



Fellow ASHRAE Members,

**Through your generosity our chapter has currently raised \$12,500 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](mailto:Philip.hayes.2@outlook.com)



## Chapter Sponsors:

## 2022-2023 ASHRAE Alaska Chapter Sponsors

**Gold Chapter Sponsor: (\$5,000)**

**STINEBAUGH**  
**& COMPANY**  
 ENGINEERED HVAC SOLUTIONS

**Forget-Me-Not Chapter Sponsor: (\$2,500)**

**Chapter Meeting Sponsor: (\$1,000)**

Design  
Alaska

**Chapter Web Sponsor: (\$400)**

  
**CRW**  
 ENGINEERING GROUP

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)



October 2023

Alaska Chapter Newsletter  
Hot Gas Bypass

Do you not want your teenager to be on the phone all day? Register them for the High School Design Competition!

Please see link below for more information and registration:

Registration Deadline is November 30, 2023

<https://www.ashrae.org/communities/student-zone/competitions/2023-2024-ashrae-high-school-design-competition>

## 2023-2024 ASHRAE High School Design Competition



For Questions Please Call or Email and I will try to get you the answer:

Sam Ratnasigamani  
SA, ASHRAE AK.  
[samr@rsa-ak.com](mailto:samr@rsa-ak.com)

Hot Gas Bypass

**MECHANICAL SALES, INC.**  
ASK ME HOW YOU CAN SAVE YOUR CLIENTS TIME AND MONEY ON YOUR NEXT AIR HANDLER

**E** EFFICIENT  
**V** VERSATILE  
**O** OPTIMAL

**Klimor**

ELENA BALL, CPSC  
OFFICE: 907-562-6940  
MOBILE: 907-202-0395  
EMAIL: EBALL@MECHANICALSALES.COM  
MECHANICALSALES.COM  
1200 EAST 76TH AVE. SUITE 1221

www.LONG.com | (907) 561.3044

**LONG**<sup>®</sup>

Long live your building!

**BUILDING AUTOMATION - SECURITY SYSTEMS  
ACCESS CONTROL & CCTV - HVAC SERVICE - PARTS**

**Victaulic**<sup>®</sup>

Nathan Lang  
Alaska Territory Manager

Email: nathan.lang@victaulic.com Cell: 907-205-9445

**YOUR INTEGRATED SOLUTIONS PARTNER**

COMMUNITY DESIGN SOLUTIONS  
DATA & TECHNOLOGY  
ENERGY | FACILITIES | MINING  
TRANSPORTATION  
WATER & ENVIRONMENT

2700 Gambell St. Ste 500 Anchorage, Alaska 99503  
**907.743.3200 // RESPEC.COM**

The Northwest's Exclusive Cleaver-Brooks® Manufacturers Representative

**Specializing in Boiler**  
Rentals | Repair | Parts | Sales | Service | Training

New & Used Inventory | Rental Equipment | 24/7 Emergency Services  
Factory-Trained Boiler/Burner Technicians | Extensive Parts Inventory

**CLEAVER-BROOKS® CLEARFIRE & OTHER MODELS | CLEAVER-BROOKS® PRO-FIRE  
STACKS | BLOWDOWN EQUIPMENT | WATER HEATERS | CONDENSATE SYSTEMS | ECONOMIZERS**

**CRW ENGINEERING GROUP**

**Mechanical • Electrical • Structural • Geotechnical  
Environmental • Land Surveying • Civil**

Bright People. Powerful Solutions. Building Communities.

Anchorage | Palmer  
(907) 562-3252  
www.crweng.com

**SERVING THE NORTHWEST SINCE 1964**  
WASHINGTON | OREGON | IDAHO | ALASKA

(800) 627-2653 | COLEINDUST.COM

**PSI PROCTOR SALES INC**

**NEIL SANCHEZ**  
Sales Engineer

Office: (907) 562-2608  
Cell: (907) 290-9875

Email: nsanchez@GoPSi.com

9210 Vanguard Drive  
Suite 2  
Anchorage, AK 99507

www.GoPSi.com

**Design Alaska**  
architects.engineers.surveyors

www.designalaska.com

**RSA Engineering**

907-276-0521 • 670 W. Fireweed Lane, Suite 200  
Since 1986, RSA proudly provides mechanical and electrical engineering and consulting services throughout Alaska as well as the Continental US and Antarctica.

**PSI PROCTOR SALES INC**

**MICAELA PETERSEN**  
Sales Representative

Office: (907) 562-2608  
Email: mpetersen@GoPSi.com

9210 Vanguard Drive  
Suite 2  
Anchorage, AK 99507

www.GoPSi.com

**convergent**

**Garrett Prokosch**  
Account Executive

907-885-4250  
After Hours Emergency 907-868-5100  
garrett.prokosch@convergent.com  
139 E 51st Ave, Anchorage, AK, 99503

convergent.com

**MBA Consulting Engineers, Inc.**

Dedicated to providing mechanical and electrical designs for safe, comfortable, and convenient building systems, within budget, and with minimum operating and maintenance costs.

**30 years**  
Proudly Serving Alaska

3812 Spenard Road, Suite 200 - Anchorage, AK 99517  
Tel: 907.274.2622 - Fax: 907.274.0914  
Email: brads@mba-consulting.net

We enjoy and embrace any opportunity to solve an engineering problem!



**Doug Franklin**  
President / CEO

5730 B Street · Anchorage, AK 99518  
phone: 907.345.8021 · cell: 907.306.2939  
www.stinebaugh.com · dfranklin@stinebaugh.com

**Engineered HVAC Solutions**



**Zach Keller**  
Sales Engineer

5730 B Street · Anchorage, AK 99518  
phone: 907.345.8021 · direct: 907-264-6004  
www.stinebaugh.com · zkeller@stinebaugh.com

**Engineered HVAC Solutions**



**George Hearin**  
Sales Engineer

5730 B Street · Anchorage, AK 99518  
phone: 907.345.8021 · fax: 907.345.8022  
www.stinebaugh.com · ghearin@stinebaugh.com

**Engineered HVAC Solutions**





# Opportunities for School Facility Improvements

ASHRAE Provides

Expertise | Guidance | Technical Resources | Tools

## How to Fund School Improvements:

### Elementary and Secondary School Energy Relief Fund (ESSER)

Funding can be used to cover facilities upgrades or expansion to address challenges presented by the COVID-19 pandemic. This may include repairs or upgrades to the HVAC system, including filtration, that enables a safer on-site environment for pupils and teachers.

### Renew America's Schools Program

The U.S. Department of Energy (DOE) launched the \$500 million Renew America's Schools Program to promote the implementation of clean energy improvements at K-12 public schools across the country. This first-of-its-kind investment, funded by President Biden's Bipartisan Infrastructure Law (BIL), aims to help school communities make energy upgrades that will lower utilities costs, improve indoor air quality, and foster healthier learning environments. The Renew America's Schools grant is the program's flagship funding opportunity. This competitive award focuses on funding infrastructure upgrades at K-12 public school facilities, prioritizing high-need school communities.



STATE & COMMUNITY ENERGY PROGRAMS

[energy.gov/scep/renew-americas-schools](https://energy.gov/scep/renew-americas-schools)

### ASHRAE is a Partner with DOE and LBNL in the Efficient and Healthy Schools Program

The U.S. Department of Energy's Efficient and Healthy Schools Program offers direct technical assistance to participating schools and districts interested in improving energy performance, advancing resilience, and promoting a healthy learning environment. This free assistance is offered through direct communication with the school, informational webinars, introduction to resources and best practices, and signposting funding opportunities for facilities improvements. Our Program welcomes all K-12 schools and districts to join and access one-on-one support to find the right resources for your schools.



Participating schools and districts can gain national recognition for their exemplary efforts to improve school facilities. Supporters such as designers, engineers, consultants, and program implementers can encourage schools to sign up for the Program and apply for recognition. Last year, our Program recognized 17 schools and districts from 15 states that achieved substantial energy savings and greatly improved the learning environment through indoor air quality, lighting, and building control improvements. You can view their success stories on our website or email us at [schools@lbl.gov](mailto:schools@lbl.gov) for more information.

[efficienthealthyschools.lbl.gov](https://efficienthealthyschools.lbl.gov)

Your Local ASHRAE Contact

Sam Ratnasigamani, Student Activities, ASHRAE AK  
[samr@rsa-ak.com](mailto:samr@rsa-ak.com), 907-276-0521

# Student Activities Virtual Speaker



**Tuesday, October 31st, 2023, 1:00 PM | (UTC-05:00) EST**  
**INTRODUCTION TO BUILDING DECARBONIZATION**

This presentation describes the basics of building decarbonization including building carbon dioxide and other emissions, key drivers for decarbonization, how carbon impact is measured, and the accepted international standards for defining carbon life-cycle calculations. The key decarbonization methods are then described including offset strategies, electrification technology applications, and ways they can be implemented in the building sector. Finally, the efforts that ASHRAE already has underway to provide relevant information about decarbonization to the membership, and to embed decarbonization in our standards and guidelines.

**Presenter: Drury B. Crawley, PH.D. FASHRAE, BEMP, FIBPSA, AIA, Affil. CIBSE**

Dru Crawley is Bentley Fellow and Director, Building Performance focusing on building performance, zero-energy buildings, decarbonization, digital twins, smart cities, sustainability, and resilience. Prior to being elevated to Bentley Fellow in 2014, he led development of Bentley's building performance software suite for four years. Before joining Bentley in 2010, Dr. Crawley developed and managed EnergyPlus and the USDOE's Commercial Buildings Initiative (now Better Buildings Initiative and Alliances) promoting creation of net-zero-energy buildings.

With more than 45 years of experience in buildings energy efficiency, renewable energy, and sustainability, he has worked in engineering software development, government research and standards development organizations, as well as building design and consulting companies. He received his PhD in Mechanical Engineering from University of Strathclyde in Glasgow, Scotland on the topic of building simulation as a policy tool, and a Bachelor of Architecture from University of Tennessee, and is a registered architect.

Dr. Crawley is active in ASHRAE (Director-At-Large on ASHRAE Board, member of Task Force on Building Decarbonization, Chair of Standard 169 (Climatic Data for Building Design Standards), member of SSPC 189.1 (Standard for the Design of High-Performance, Green Buildings Except Low-Rise Residential Buildings), as well as a member of Standards PC 105R, 140, 205R, 209R, 228P, 229P, and 232P. He is a former member and Chair of Standards Committee as well a past member of the Technical Activities, Research Administration, Advocacy, and Grassroots Government Activities Committees, and past chair of Technical Committees 2.8, 4.2, 4.7, and 7.1). He was elevated to ASHRAE Fellow in 2009 and achieved ASHRAE BEMP (Building Energy Modeling Professional) certification in October 2012, and received the ASHRAE Standards Achievement Award (2022), Exceptional Service Award (2013), Service to ASHRAE Research Award (2012), Distinguished Service Award (2003), and Symposium Best Paper Award (1999) for "Which Weather Data Should You Use for Energy Simulations of Commercial Buildings?"

**Register Here**  
(Scan or Click QR Code)



**Save the Date!**

## **Professional Development Opportunity**

*Arctic Infrastructure: The Engineer's Role  
Moolin Project Management Seminar - #6*

Fairbanks - Association of General Contractors (AGC) Office  
Tuesday, Nov. 14, 2023 7:30 am - 4:30 pm

Anchorage - BP Energy Center  
Thursday, Nov. 16, 2023 7:30 am - 4:30 pm

### ***Topics to Include:***

- Short term/long term infrastructure planning
- Metric based decision making
- Transportation systems
- Constraints/challenges to infrastructure modernization
- Telecommunications enhancement
- Rural utilities
- Workforce development/availability

### ***Features:***

- 8 PDHs
- Light breakfast
- Lunch included
- Engaging topics
- Professional networking

***Mark your Calendar for either November 14 (Fairbanks) or November 16 (Anchorage)  
Reservations to open October 1, 2023***

Sponsored by: University of Alaska Fairbanks College of Engineering and Mines, Society of American Military Engineers - Anchorage Post, Alaska Society of Professional Engineers - Anchorage/Fairbanks Chapters