

Hot Gas Bypass

Advancing HVAC&R to serve humanity and promote a sustain

September 2011



Anchorage Meeting Information

Date: Thursday, September 15, 2011

Location:

Crowne Plaza Hotel on the corner of
International Airport Rd. & C

StSocial: 5:30 p.m.

Dinner: 6:00 p.m.

Program: 7:00 p.m.

"Fan System Effects-Design to
Minimize Operational Problems"

Presented by:
Matt Sink, P.E.

Members: \$35.00

Students: \$10.00

Alaska Chapter Officers/Chairs

Jessi Cherry, President

jessi.cherry@msicontrols.com

Ginger Schaaf, Vice-President

gschaaf@stfinebaugh.com

Logan Creelman, Secretary

2011-2012 Secretary

Greg Jernstrom, Treasurer

gjernstrom@jernstromengineering.com

Mike Stinebaugh, Nominating Commit.
Chair

mstinebaugh@stfinebaugh.com

Troy Nibert, Membership

tnibert@proctorsales.com

Jeff Hurd, Technology Transfer

Jeff.hurd@aawvu.biz

Ruth Armstrong, Resource Promotion

ruth@akvinter.com

Keith Reed, Historian

kreed@sstalaska.com

President's Message

Welcome to the 2011-2012 ASHRAE season! I hope everyone enjoyed the beautiful Alaskan summer. This year is going to be successful, informative, and exciting.

First, I would like to say, "Thank You" to all of the 2010-2011 Board of Governors'. Also, a special thank you to our past president, Ruth Armstrong; she has dedicated a lot of time and energy to our chapter to ensure its success over the past year, and I thank her for that. Last but not least, a huge appreciation goes out to each and every ASHRAE member for their dedication and volunteer efforts that make our chapter events and meetings successful.

Over the summer months ASHRAE hosted its annual Vern C. Winter Memorial Golf Tournament. Thanks to Ron Thompsen and his Golf Committee for another successful Golf Tournament.

We have a great list of programs for the 2011-2012 ASHRAE Year. Ginger Schaaf, Vice President/Programs Chair, has been working very hard to find a new venue to host our meetings. Our monthly meetings will now be held at the Crowne Plaza Hotel on the corner of International Airport Rd. & C St. The ASHRAE season lasts from September through May, and all monthly meetings will be held on the third Thursday of the month, except for December when we have no monthly meeting.

The September Meeting will be Research Promotion Night, and we will be hosting a special guest, Ray Sieber, Research Promotion Regional Vice Chair of ASHRAE Region XI. He is visiting our Chapter from Regina, Saskatchewan, Canada. We will also have Mr. Matt Spink as our guest speaker; his presentation is titled, "Fan System Effects-Design to Minimize Operational Problems". I hope to see you all at our September 15th meeting.

Please take a look at our updated content on: <http://alaska.ashraechapters.org>, and thanks to our Webmaster Cindy Ellis for maintaining our site. Cindy will be adding a photograph page to our ASHRAE website, so if you have any pictures from events that ASHRAE has put on please send them to cindy.ellis@worleyparsons.com. Also, be sure to mark the photos with dates and event titles.

Over the next year I am looking forward to working for you and the Alaska Chapter as your President. If you have any questions, concerns, or suggestions to better our chapter please feel free to contact me.

Let's have a great ASHRAE season!

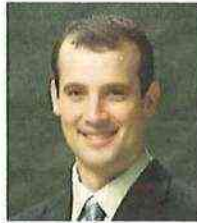
Jessi Cherry

President, Alaska Chapter ASHRAE

jcherry@msicontrols.com



September 2011 Program



Matt Spink, P.E.

Fan System Effects - Design to Minimize Operational Problems

Welcome back to another great year of ASHRAE chapter programs! We'll start off the year with an informative program given by Matt Spink of Greenheck. This presentation will cover design and installation problems encountered in the real world. It will provide the designer (& installer) insights to improve and minimize fan and duct installation problems. In addition, this presentation will cover the following topics, and how the consulting engineer and facility owner / operator will benefit from taking these items into consideration on the front end of the design:

- Common fan inlet & outlet conditions and how they affect fan performance
- System effect case studies and What to Watch Out For
- Short system calculation based upon application & inlet/outlet conditions
- General application rules of thumb to minimize system effect
- Commonly overlooked: flow probes & their affect on fan performance

He will also be traveling to present to the Fairbanks chapter earlier in the day. Matt Spink, P.E. is currently Greenheck's Area Sales Manager - West. Prior to his current position, Matt served as the Product Manager for Centrifugal, Vane Axial, and Industrial Products (CVI) for 3 years. Prior to joining Greenheck, Mr. Spink worked as a consulting engineer for over 6 years. Mr. Spink is a registered professional engineer and has undergraduate and graduate degrees in engineering from the University of Minnesota.

RSVP NOW to reserve your seat!! Seating will be limited!!

Please RSVP to Logan Creelman lcreelman@mail.ashrae.org no later than NOON on Tuesday, September 13. This year our meetings will be located at the Crowne Plaza Hotel (109 W. International Road). The cost for the dinner meeting is \$35 with RSVP, \$40 without RSVP. If you RSVP and do not show up, you will be charged \$40. Please contact me if you find that you can no longer attend and need to cancel your RSVP.

Networking/Social: 5:30pm (join us at the Juno Restaurant in the Crowne Plaza Hotel)
Dinner and Meeting: 6:00pm
Program: 7:00pm

Ginger Schaaf
Vice President - Programs Chair
907-345-8021
gschaaf@stinebaugh.com



Research Promotion

*ASHRAE
Research*



*Today's Challenges
Tomorrow's Solutions*

Fellow ASHRAE Members,

I have some big shoes to fill this year. Made all the more difficult by the incredible mark set by Jim Christian last year.

Our RP Goal for this year is again \$9,000.00. This seems like a daunting amount to be raised, but with the help and support of each of our members this is attainable, as Jim proved last year. So far, we have already raised \$2,686.56 from donations and an additional \$850.00 from the Mulligans at the golf tournament. That means we are already 40% of the way there!!!

Every dollar counts toward our goal. You can elect to donate in three different ways.

1. Go to <http://www.ashraep.com> and click on "donate".
2. 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"

3. You can mail a check made out to ASHRAE Research to the Alaska ASHRAE Chapter mail box at PO Box 244503,

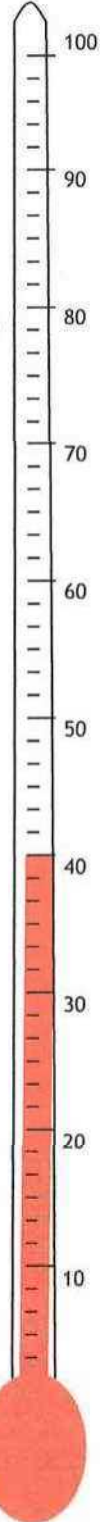
Anchorage, AK 99524 and I will mail it into National for credit to you.

If you have already made a donation, your name should appear at the bottom of this page, if not, it should appear next month. If you do not see your name or your companies name next month, please let me know and I will locate your donation and have it properly accounted for.

Sincerely

Ruth Armstrong

RP Chair



2011-2012 Research Investors, Alaska Chapter ASHRAE

<u>Organizations</u>	<u>Individuals</u>	<u>Individuals</u>
<u>\$1000 & Over</u>	<u>\$1000 & Over</u> Robert Heym	<u>\$100—\$249</u> John Fortner Scott Hala Walter Heins Gregory Jernstrom Douglas LeCren Ginger Schaaf
<u>\$500—\$999</u> Stinebaugh & Co.	<u>\$250—\$999</u> Ruth Armstrong Jessi Cherry Robert Whealy, PE	<u>Up to \$100</u>
<u>\$150—\$499</u> EDC Incorporated		
<u>Up to \$149</u>		



Goal: \$ _____
Current: \$ _____
% of Goal: % _____



CTTC Report for September 2011

Continuing Education:

I'm setting up a seminar for February 2012 on complying with ANSI/ASHRAE/IESNA Standard 90.1-2010 for those who need PDH's. Due to the cost of the course we are looking at charging \$225.00 per person. The course is full day and 6 PDH's. I need to get an head count of people interested in the course we will need at less 25 people to hold the seminar. Please email me if you are sure you will attend the seminar. If you have any questions please let me know.

Technology Award:

The chapter is trying to get individuals or companies to submit for the 2012 ASHRAE Technology Awards for the upcoming (CRC) Chapters Regional Conferences. The ASHRAE Technology Awards are not due till April 15th 2012. It would be great for someone to submit a project or two for the ASHRAE Technology Awards. Also to have a local individual or companies win the Award. As for the chapter we haven't submitted a Technology Award in over 7 years. Please let me know if you have any questions. **Just email me and I'll send you the Technology Award Short Form.**

Jeffery D. Hurd (CTTC)
Project Management/Civil Engineer I
Anchorage Water and Wastewater Utility
Work (907) 786-5526 Cell (907) 317-7285
Jeff.hurd@awwu.biz

ASHRAE Student Chapter Report

The UAA student chapter is off to a good start and we are looking forward to a great year. I have made several recruiting presentations to engineering classes and it seems to be paying off. We had a good turnout for our new member drive and I hope to see them make it to the Professional Chapter meetings to meet all of you. Already we have ideas from the student chapter for events, presentations and tours that we hope will keep students interested and excited as well as draw even more members.

We hope to see much more student participation at the monthly meetings. These students are eager to meet and talk with all of our chapter members as well as learn more about engineering and opportunities after college. Please introduce yourself and meet some of these bright young people.

The UAA student chapter is always looking for presenters for their meetings. Our goal is to give the students a picture of the opportunities out there for new engineers. Anyone interested in doing a presentation about your business, new and exciting technology, engineering, being involved with ASHRAE, mechanical system design or other related topics please contact me. The next student chapter meeting will be held from 11:30 to 12:30 PM Thursday September 15th in room 103 of the Alaska Native Science & Engineering Program (ANSEP) building on the UAA campus.

Presenting at the meetings also gives you an opportunity to meet new local talent, while giving students an opportunity to explore different career opportunities in the engineering field.

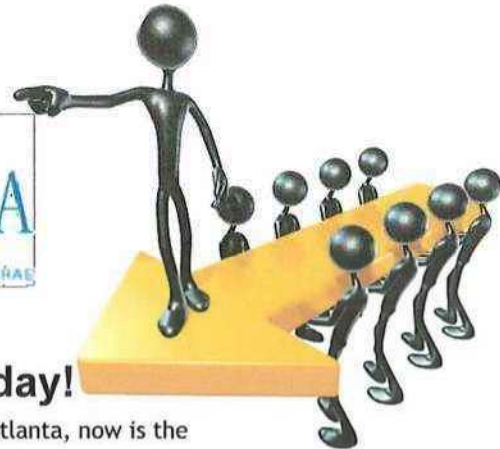
I would also like to encourage our chapter members to reach out the K-12 schools. It is important to help get students excited early about math, science and engineering. If you want to get involved and don't quite know how to get started, please contact me. I am always willing to make connections or help with other resources.

Sincerely,
Michael D. Anderson
Student Activities
907.563.2242
mikeanderson@siemens.com



2011 YEA Leadership Weekend

ASHRAE's YEA Leadership Weekend



Limited spots remain - sign up today!

With only 10 spots available for the Fall 2011 YEA Leadership Weekend in Atlanta, now is the time to submit your registration!

YEA Leadership Weekend is an opportunity for you—the future leaders of ASHRAE—to learn more about Society, develop soft skills and network with other young professionals. This event will be held the weekend of September 30 - October 2, 2011, in Atlanta, GA.

The event includes segments on understanding your own personality as well as other types, leadership development for young professionals, communication techniques and ASHRAE leadership opportunities. Objectives of leadership weekend are:

- Leadership
- Networking
- Communication
- Professional Development

YEA Leadership Weekend is a great opportunity for any YEA member. Submit your application today to secure one of the last 10 available spots!

You can learn more about this event at www.ashrae.org/YEALeadershipWeekend or e-mail your questions to Rhiannon Loomis at rloomis@ashrae.org.

Rhiannon Loomis	rloomis@ashrae.org
ASHRAE	678-539-1178
1791 Tullie Circle NE	www.ashrae.org/yea
Atlanta, GA 30329	www.facebook.com/ASHRAEya

If you would like a copy of any of these articles please contact Logan Creelman, Secretary, at 2011-2012 Secretary.



Membership Report

Join ASHRAE

www.ashrae.org/join

- Network with industry leaders
- Receive continuing education credits – PDHs and CEUs
- Gain access to technological advancements in building systems
- Receive member benefits like the ASHRAE Journal & Handbooks
- Support the industry that provides your livelihood

Welcome to a new year, as this new year begins make sure to visit www.ashrae.org and update your personal information. Please note that on July 1, 2011, dues for Members and Associates increased to \$185. We are going to need everyone's help this year to maintain our membership growth. If you have a potential member in your office please email me their contact information and I will send them information on the benefits of being a member of our local ASHRAE Chapter. Looking forward to seeing you all at our Chapter Meetings.

Troy Nibert
Membership Chair

Local Design Competitions



- Imagine a creative, livable, affordable home. Now imagine it in Alaska.
- Join us in creating a model for a new era of Living Communities. First place prize of \$35,000, and the winning design will be built!

[Login coming 10/1/11](#)

[Competition Details](#)

[About the Region](#)

[Map](#)

[FAQs](#)

[Living Building Challenge](#)

<p>Competition Details</p> <p>Competition Brief Terms and Conditions Submission Checklist</p>	<p>Timeline</p> <p>Competition Portal Opens October 1, 2011 Registration Deadline December 1, 2011 Contest Closes January 18, 2012</p>	<p>About the Region and Aleutian Housing Authority</p>
<p>Map</p> <p>Explore the region with Google Earth</p>	<p>FAQs</p> <p>Including site photos and other resources</p>	<p>Living Building Challenge</p> <p>Learn about the Challenge and link to full standard</p>

Competition News

[In rural Alaska, building a better house](#)

Alaska Dispatch, June 8, 2011

[Green construction challenge set in Aleutians](#)

Dutch Harbor Fisherman, May 31, 2011

[Groups Organize Global Contest to Design "Living Building"](#)

Alaska Public Radio Network, May 30, 2011





Articles from ASHRAE's Learning Institute

ASHRAE Learning Institute 2011 Fall Online Course Series

2 WAYS TO REGISTER

Internet: www.ashrae.org/onlinecourses

Phone: Call toll-free at 1-800-527-4723 (US and Canada) or 404-636-8400 (worldwide)

Note: You may register up to 24 hours prior to an online seminar. Courses are in US Eastern Standard Time.



Basics of High-Performance Building Design
Mon, September 19, 2011 – 1:00 pm to 4:00 pm EST

Advanced High-Performance Building Design
Wed, September 21, 2011 – 1:00 pm to 4:00 pm EST

Fundamental Requirements of ASHRAE Standard 62.1-2010
Mon, September 26, 2011 – 1:00 pm to 4:00 pm EST

Complying with Standard 90.1-2010: HVAC/Mechanical
Thurs, September 29, 2011 – 1:00 pm to 4:00 pm EST

Complying with Standard 90.1-2010: Envelope/Lighting
Mon, October 3, 2011 – 1:00 pm to 4:00 pm EST

Healthcare Facilities: Best Practice Design
Mon, October 31, 2011 – 1:00 pm to 4:00 pm EST

Healthcare Facilities: Best Practice Application
Wed, November 2, 2011 – 1:00 pm to 4:00 pm EST

Evaluating the Performance of LEED-Certified Buildings
Mon, November 7, 2011 – 1:00 pm to 4:00 pm EST

Project Management for Improved IAQ
Wed, November 9, 2011 – 1:00 pm to 4:00 pm EST

The following courses are comprised of two parts. Registrants must attend both parts in order to receive CEU/PDH credits. Archiving is available.

Data Center Energy Efficiency – Part 1
Mon, October 10, 2011 – 1:00 pm to 4:00 pm EST

Data Center Energy Efficiency – Part 2
Wed, October 12, 2011 – 1:00 pm to 4:00 pm EST

Using Standard 90.1 to Meet LEED Requirements – Part 1
Mon, October 17, 2011 – 1:00 pm to 4:00 pm EST

Using Standard 90.1 to Meet LEED Requirements – Part 2
Wed, October 19, 2011 – 1:00 pm to 4:00 pm EST

Implementing Standard 189.1 for High-Performance Green Buildings – Part 1
Mon, October 24, 2011 – 1:00 pm to 4:00 pm EST

Implementing Standard 189.1 for High-Performance Green Buildings – Part 2
Wed, October 26, 2011 – 1:00 pm to 4:00 pm EST



ASHRAE HVAC Design Essential Workshop

January 11-13, 2012 • ASHRAE Foundation Learning Center • Atlanta, GA

Obtain the skills needed to:

- Improve overall building performance
- Design high-performance HVAC systems
- Effectively collaborate on an integrated design team

ASHRAE has created the HVAC Design Essentials to provide intensive, practical education for designers and others involved in delivery of HVAC services. Developed by industry-leading professionals, this workshop provides participants with training design to accelerate their evolution into effective member on a design, construction or facilities maintenance team.

In addition to gaining in-depth knowledge and understanding, attendees will receive real-world examples of HVAC systems based on the newly renovated ASHRAE Headquarters building. The workshop teaches a systematic approach to guide a design team to a solution that optimally meets the client's expectations.

Who Should Attend

- Engineers new to the HVAC industry
- Facilities managers involved in new construction or major renovation projects
- Technicians who would like to gain design knowledge
- Architects who want to understand HVAC design
- Construction project managers involved with mechanical systems



Visit www.ashrae.org/hvacdesign to register

ASHRAE Certification Programs

- Building Energy Assessment Professional (BEAP)
- Building Energy Modeling Professional (BEMP)
- Commissioning Process Management Professional (CPMP)
- Healthcare Facility Design Professional (HFDP)
- High-Performance Building Design Professional (HBDP)
- Operations & Performance Management Professional (OPMP)

For more info, visit
www.ashrae.org/certification

Don't forget to follow
ASHRAE on your favorite

facebook

twitter



Local LEED Classes

Two LEED Classes - Anchorage Oct. 5 & 6

Prior to the AIA-Alaska annual convention we are hosting 2 LEED workshops. *AIA-Alaska conference attendees receive a discount for these workshops.* Seating is limited, so register early!

LEED 201: Core Concepts & Strategies - Wednesday, October 5, Anchorage

Gain essential knowledge of sustainable building concepts fundamental to all LEED rating systems. Learn LEED intents and concepts at the credit category level and basics of the LEED certification process. This course provides a foundation for pursuing the LEED Green Associate exam. Workshop provides AIA credits.

<http://cascadiagbc.org/events/2011/october/leed201-coreconcepts-workshop-alaska/>

LEED 301: Building Design and Construction Workshop, Thursday, October 6, Anchorage

This workshop is intended for professionals who are familiar with the basic concepts of the LEED for New Construction and Major Renovations Rating System, but new to implementing it on projects or looking to brush up on implementation best practices. It is appropriate for new LEED APs, as well as those pursuing GBCI's LEED AP Building Design + Construction credential. Workshop provides both LEED-specific credit, and AIA credits.

<http://cascadiagbc.org/events/2011/october/leed-bdc301-workshop-anchorage/>


Certified Energy Auditor Training - Juneau Oct. 11-14

Two new state of Alaska programs related to energy audits of both public and private commercial buildings will require auditors to be a Certified Energy Auditor (a program of the Association of Energy Engineers). Alaska Housing Finance Corporation is subsidizing a CEA training class in Juneau to *help qualified Alaskans get this certificate at a reduced rate.* Cascadia will host this training October 11-14 in Juneau. For more information and to register:

<http://cascadiaaeetraining.eventbrite.com/>



ASHRAE Alaska Chapter would like to Thank our Business Support

<p>Russel "Rusty" West Alaska Sales Manager</p>  <p>Office: 425-774-6602 Direct Line: 425-977-2139 Mobile: 206-909-3664 Fax: 425-775-2272</p> <p>Email: rwest@coleindust.com</p> <p>5924 - 203rd Street Southwest • Lynnwood • WA • 98036 Serving the Pacific Northwest for over 40 years</p>	<p>STINEBAUGH & COMPANY</p> <p>5730 B Street • Anchorage, AK 99518 phone: 907.345.8021 • fax: 907.345.8022 www.stinebaugh.com</p> <p>Engineered HVAC Solutions for Alaska</p>

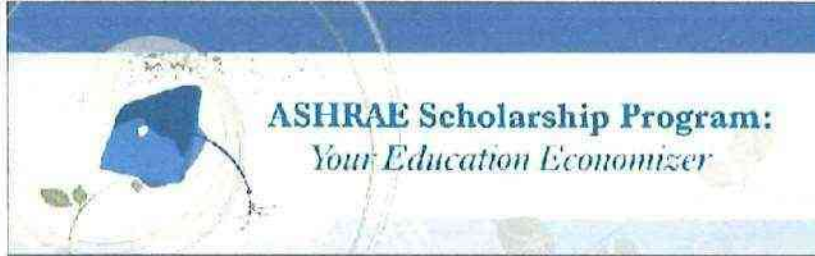
This page will be continually updated. Please get your business card in for the year of 2011 -2012. Business cards run from January to January for \$100.00 per year.

Please send your photo-ready card to 2011-2012 Secretary

Or if you would like to update your existing business card please contact Logan Creelman.



ASHRAE Scholarship Program



In the HVAC&R industry, economizers are used to reduce heating and cooling costs. The ASHRAE scholarship program also serves as an economizer, helping reduce the financial burdens of obtaining your engineering education. Without you, the future leaders of the HVAC&R industry, we at ASHRAE wouldn't be able to do what we do. So through our scholarship program, we aim to help you do what you do—learn.

ASHRAE has awarded nearly 200 scholarships during the past 20 years totaling more than \$1 million. Nearly \$80,000 in scholarships is available for the 2012-13 academic year. Applications are now being accepted for ASHRAE's 2012-2013 undergraduate engineering, regional and university specific scholarships.



www.ashrae.org/scholarships

"ASHRAE's scholarship has helped me cover my tuition expenses and materials, giving me the opportunity to satisfactorily fulfill my undergraduate degree. Not only has the help been economical, but it also helped me develop a genuine interest in this field. With this aid, I only have to focus on being well prepared so I can become a change agent within the HVAC&R industry. For these reasons I'm extremely grateful to ASHRAE and hope they'll continue supporting future engineers."



Jacob Vazquez, ITESM (Instituto Tecnológico y de Estudios Superiores de Monterrey) (Mexico), Region VIII Scholarship



"The Reuben Trane scholarship has solidified my involvement in the HVAC industry and has been instrumental in financing my education. It has opened doors for me to further integrate ASHRAE into my educational experience. As well, it has sparked the creation of the first McMaster University ASHRAE Student Branch, bringing my education even closer to the tremendous support and resources available through the ASHRAE network. I look forward to a long career in the HVAC industry."

Benjamin Oliver, McMaster University (Canada), Mechanical Engineering and management, Reuben Trane Scholarship

Application deadlines

Dec. 1, 2011-undergraduate engineering, regional and university-specific scholarships

May 1, 2012-undergraduate engineering technology scholarships and high school seniors scholarships

Other great resources to help you in engineering your future can be found at the [ASHRAE StudentZone](#)



If you would like a copy of any of these articles please contact Logan Creelman, 2011-2012 Secretary, at Phone: 907-267-4835
Cell: 907-306-9292
E-mail: lcreelman@mail.ashrae.org



Until Next Time...

If you would like to feature your business card in the Business Support section please e-mail me with a photo-ready business card. The fee is \$100 per year.

If you are interested in placing your business card in the Business Support please make checks payable to ASHRAE. Checks can be dropped off at the monthly membership meeting or can be mailed to :

ASHRAE Alaska Chapter
C/O Treasurer
PO BOX 240712

If you would like to change your existing business card in the Business Support section please contact me. This section is continually updated.

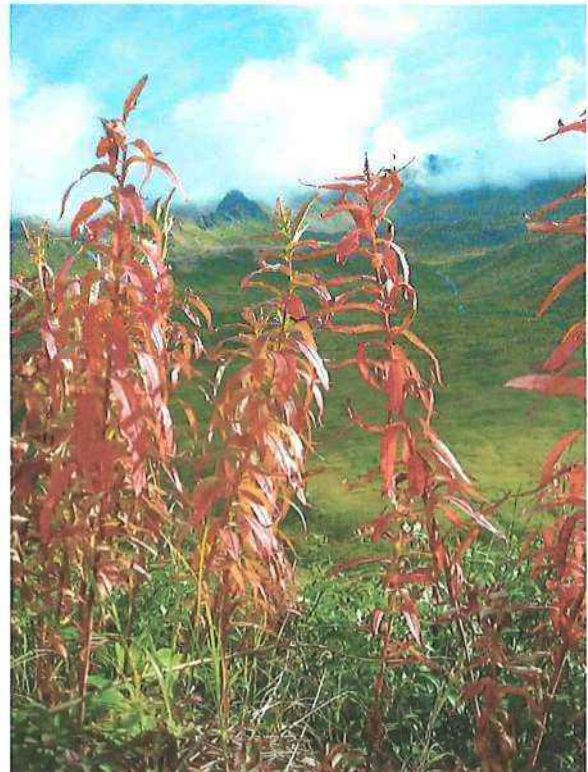
If there is anything you would like to share in the Hot Gas Bypass or have any questions about the Hot Gas Bypass please feel free to contact me.

I have followed the format given to me by the past years Secretary, but have been approached about changing the format a bit for the following months. The comment brought to me was that the HGPB is getting a little lengthy with too much commercials and that the longer it gets the less likely everyone has time to get through the whole thing.

I would to address this concern with more hyperlinks and less full articles in the HGPB. Since the articles are being delivered electronically following a link (if you have time) should be up to the reader.

I am a rookie when it comes to publisher, but I know will improve as the year progresses. I look forward to seeing you all at the September meeting. I hope that everyone had a great, albeit wet summer, and got plenty of fishing, camping, and hiking in. I look forward to the coming programs as I know Jessi and Ginger have some interesting ones in store for us.

Thank you,
Logan Creelman



ASHRAE-Alaska Chapter



ASHRAE Alaska Chapter #122

Logan Creelman

Acting Secretary—ASHRAE 2011

Cell (907)306-9292

Visit us on the web at:

www.alaska.ashraechapters.org



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Advancing HVAC&R to serve humanity and promote a sustainable world

October 2011

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Program: 6:00 p.m.

Meeting: 7:15 p.m. (to follow program)

Variable Flow Refrigeration

Dale Kentala with LG - U.S. Variable Flow Refrigeration division

Members: \$35.00

Students: \$10.00

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jessi.cherry@msicontrols.com

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gjernstrom@jernstromengineering.com

Mike Stinebaugh, Nominating Commit. Chair

mstinebaugh@stinebaugh.com

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tnibert@proctorsales.com

Jeff Hurd, Technology Transfer

Jeff.hurd@awvu.biz

Ruth Armstrong, Resource Promotion

ruth@akwinter.com

Keith Reed, Historian

kreed@ssialaska.com

President's Message

Can you believe we are already on our second meeting of the ASHRAE season? We had a very successful September meeting; it was Research Promotion Night, and we had a great turnout. A special thank you goes out to Mr. Ray Sieber our Regional Research Promotion Chair who traveled from Regina, Saskatchewan, Canada to be a part of our meeting and to present on Research Promotion. Also, thank you to Mr. Matt Spink for a great first presentation of the ASHRAE Season. Thank you to all that attended!

With the changing technological times ASHRAE has released the complete ASHRAE Greenguide as an eBook. This eBook is compatible with iPad, iPhone, iPod touch, or any computer with iTunes. The Greenguide is an easy-to-use reference with information on almost any subject that may be considered during the design of a green-building. For more information go to: www.ashrae.org.

ASHRAE's 2012 Winter Conference is being held in Chicago, January 21st-25th, 2012. During the conference members have the chance to discuss and examine the hottest topics in the industry. Some of the features of the conference are: discussions on high performance building and integrated design, participation in technical tours, and courses from the ASHRAE Learning Institute. During the conference ASHRAE certification testing is available for all six certifications. These certifications include: Building Energy Assessment Professional (BEAP), Building Energy Modeling Professional (BEMP), Commissioning Process Management Professional (CPMP), Healthcare Facility Design Professional (HFDP), High-Performance Building Design Professional (HBDP), and Operations & Performance Management Professional (OPMP). If you are interested in attending the conference or would like more information please visit: www.ashrae.org/chicago.

This month's presentation is by Dale Kentala who will be speaking about Variable Flow Refrigerant. October's meeting will be starting promptly at 6 pm with Mr. Kentala's presentation with the ASHRAE Business meeting to follow. Dinner will be served at 5:45 pm. The announcement of the 2012-2013 candidates for the Board of Governors will take place at the meeting. Also, we will be given a short presentation from the East High Robotics team. Remember our new location is at the Crowne Plaza on the corner of International Airport Rd. & C St.

If you have any questions, concerns, or suggestions to better our chapter please feel free to contact me.

I hope to see you all at the October meeting!

Jessi Cherry

President, Alaska Chapter ASHRAE
jcherry@msicontrols.com



Board of Governors and Ray Sieber, RVC for RP.
Left to Right: Logan Creelman, Secretary; Greg Jernstrom, Treasurer; Ginger Schaaf, Vice President; Ray Sieber, RVC RP; Jessi Cherry, President; and Ruth Armstrong, RP Chair.

C/O Editor
PO Box 244503
Anchorage, AK 99524-0712



Visit us on the web at:
www.alaska.ashraechapters.org



October's Program

Dale Kentala

Variable Refrigerant Flow (VRF) Systems

"Thank you" to all of you who attended last month's meeting! We had a very informative and educational presentation by Matt Spink. To keep the momentum going, we would like to welcome Dale Kentala with LG Electronic USA, Inc.-Commercial Air Conditioning group. This presentation will provide an overview of VRF systems and answer many of your questions regarding this topic.

Dale Kentala - Regional Sales Engineer, manages the Northwest Region for LG's Multi V commercial applied products, focusing on Variable Refrigerant Flow (VRF) systems. He is located in the Seattle area and has been with this division for three years. In addition to VRF, other areas of core expertise include industrial ventilation, pollution control, dust collectors, and baghouses. Dale's work in these areas fostered a special understanding of air filtration and filter media.

He grew up in a manufacturer's rep family (HVAC, industrial and power plant equipment), and has also worked for manufacturers and consulting engineers. Getting his hands dirty on a jobsite is not foreign to Dale; he enjoys working with contractors and helping end-users.

Dale holds a BS degree in Mechanical Engineering and an MBA, both from the University of Washington. He passed the EIT exam as a youngster but never accumulated the supervised engineering experience necessary to sit for the PE exam. And now he's too old. He is a graduate of the Advanced Course in Industrial Ventilation from the American Conference of Governmental and Industrial Hygienists.

RSVP NOW to reserve your seat!! Seating will be limited!!

Please RSVP to Logan Creelman lcreelman@mail.ashrae.org no later than NOON on Tuesday, October 18. This year our meetings will be located at the Crowne Plaza Hotel (109 W. International Road). The cost for the dinner meeting is \$35 with RSVP, \$40 without RSVP. If

you RSVP and do not show up, you will be charged \$40. Please contact me if you find that you can no longer attend and need to cancel your RSVP.

Date: Thursday, October 20

Networking/Social: **5:15pm** (join us at the Juno Restaurant in the Crowne Plaza Hotel)

[Please note that the beverages will be allowed to be transported to our meeting room from now on]

Dinner: **5:45pm**

Program: **6:00pm**

Meeting: **7:15pm** (to follow the program)

Ginger Schaaf

Vice President - Programs Chair

907-345-8021

gschaaf@stinebaugh.com

General Membership Meeting Program Schedule

Please note the location of all meetings will be at the Coastal unless otherwise noted.

September Meeting

Date/Time: September 15/6:00 PM

Subject: Fan System Effects-Design to Minimize Operational Problems"

Speaker: Matt Sink, P.E.

October Meeting

Date/Time: October 20/6:00 PM

Subject: Variable Flow Refrigeration

Speaker(s): Dale Kentala with LG

November Meeting

Date/Time: November 17/6:00 PM

Subject: Follow up to Seminar

Speaker(s): To Be Determined

January Meeting

Date/Time: January 19/6:00 PM

Joint Meeting with IAPMO

Subject: Code Updates

Speaker(s): To be Determined

February Meeting

Date/Time: February 16/6:00

Subject: Membership

Speaker (s): To be Determined

March Meeting

Date/Time: March 18/6:00

Subject: Student Night

Speaker (s): To be Determined

April Meeting

Date/Time: April 15/6:00

Subject: To be Determined

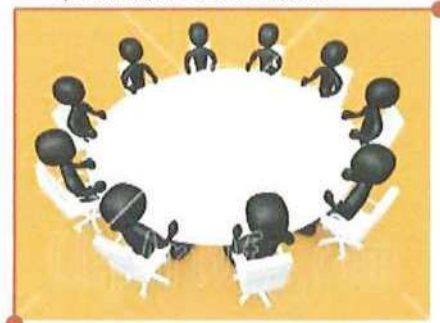
Speaker (s): To be Determined

May Meeting

Date/Time: May 20/6:00

Subject: Follow up to CRC

Speaker (s): To be Determined





CTTC Report

Continuing Education:

I'm setting up a seminar for February 2012 on complying with ANSI/ASHRAE/IESNA Standard 90.1-2010 for those who need PDH's. Due to the cost of the course we are looking at charging \$225.00 per person. The course is full day and 6 PDH's. I need to get a head count of people interested in the course we will need at less 25 people to hold the seminar. Please email me if you are sure you will attend the seminar. If you have any questions please call or email me.

Technology Award:

The chapter is trying to get individuals or companies to submit for the 2012 ASHRAE Technology Awards for the upcoming (CRC) Chapters Regional Conferences. The ASHRAE Technology Awards are not due till April 15th 2012. It would be great for someone to submit a project or two for the ASHRAE Technology Awards. Also to have a local individual or companies win the Award. As for the chapter we haven't submitted a Technology Award in over 7 years. Please let me know if you have any questions. **Just email me and I'll send you the Technology Award Short Form.**

Jeffery D. Hurd (CTTC)
 Project Management/Civil Engineer I
 Anchorage Water and Wastewater Utility
 Work (907) 786-5526 Cell (907) 317-7285
Jeff.hurd@awwu.biz

*Continuing
 Education
 Credits
 made available
 to you from your
 local ASHRAE
 Alaska Chapter*

February 2012

*For more
 information please
 see the CTTC Report*

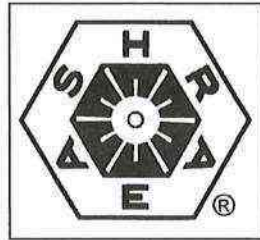
Region XI Executives

<u>Position</u>	<u>Name</u>	<u>E-mail</u>
Director & Region Chair	Erich Binder	erich.binder@worleyparsons.com
Assistant Regional Chair	Kevin Marple	kmarple@benzco.com
CTTC RVC and Nom. Com. Alt.	Eileen Jensen	nejensen@bpa.gov
Student RVC	Stefan Lidington	stefanl@oregonairreps.com
Membership RVC	Murdoch MacPherson	m.macpherson@mac-eng.ca
Research Promotion RVC	Ray Sieber	sieber@src.sk.ca
Young Engineers in ASHRAE (YEA)	Tariq Amlani	tariq.amlani@stantec.com
Regional Historian	Bill Dean	bill.dean@nrc-cnrc.gc.ca
Nominating Committee Member	Norm Grusnick	ngrusnick@ecomfg.com
Regional Treasurer	Rob Craddock	rob@inlandmetal.ca
Regional Web Master	Scott Bossert	sbossert@benzco.com
CRC 2010 Chair	Russell Lavitt	rlavitt@smseng.com



Research Promotion

ASHRAE
Research



Today's Challenges
Tomorrow's Solutions

Fellow ASHRAE Members,

Our RP Goal for this year has been raised to \$10,000.00. So far, we have already raised \$4,361.56 from donations. That means we are already 44% of the way there!!!

Every dollar counts toward our goal. You can elect to donate in three different ways.

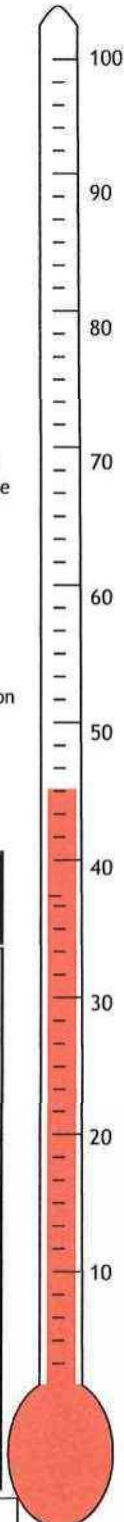
1. Go to <http://www.ashraerp.com> and click on "donate".
2. You can donate when you renew your membership on line. After you have made your selections for renewal the next page is for you to donate to ASHRAE funded items. About 3/4 of the way down the page you will see Research Promotion.
Click "Add to Cart"
3. You can mail a check made out to ASHRAE Research to the Alaska ASHRAE Chapter mailbox at:
PO Box 244503, Anchorage, AK 99524 and I will mail it into National for credit to you.

If you have already made a donation, your name should appear at the bottom of this page, if not, it should appear next month. If you do not see your name or your companies name next month, please let me know and I will locate your donation and ensure that it is accounted for.

Sincerely
Ruth Armstrong
RP Chair

2011-2012 Research Investors, Alaska Chapter ASHRAE

<u>Organizations</u>	<u>Individuals</u>	<u>Individuals</u>
<p><u>\$1000 & Over</u></p> <p><u>\$500—\$999</u> Design Alaska Stinebaugh & Co.</p> <p><u>\$150—\$499</u> EDC Incorporated</p> <p><u>Up to \$149</u></p>	<p><u>\$1000 & Over</u> Robert Heym</p> <p><u>\$250—\$999</u> Ruth Armstrong Jessi Cherry Robert Whealy, PE</p>	<p><u>\$100—\$249</u> John Fortner Scott Hala Walter Heins Gregory Jernstrom Douglas LeCren Ginger Schaaf Logan Creelman</p> <p><u>Up to \$100</u></p>





Excerpts from Articles from ASHRAE's Regional Chair's Office

ASHRAE Introduces New Liquid Cooled Datacom Environmental Classes

ATLANTA - A new whitepaper that serves as the first vendor neutral thermal guideline for liquid cooled data processing environments is available for free download from ASHRAE.

"2011 Thermal Guidelines for Liquid Cooled Data Processing Environments" creates data center classes for liquid cooling that can enable fulltime economizers for a number of applications in many climates, according to Don Beaty, chair of the Publications Subcommittee of ASHRAE's Technical Committee (TC) 9.9, Mission Critical Facilities, Technology Spaces and Electronic Equipment.

"2011 Thermal Guidelines for Liquid Cooled Data Processing Environments" can be downloaded for free from the ASHRAE TC9.9 website at www.tc99.ashraetcs.org.

The increasing heat density of modern electronics is stretching the ability of air to adequately cool the electronic components within servers as well as the data center facilities that house these servers. To meet this challenge, the use of direct water or refrigerant cooling at the rack or board level is now being deployed. This trend of increasing heat densities combined with the interest in energy and waste heat recovery created the need for liquid cooling guidelines to help bridge the gap between IT equipment design and data center facility design, according to Beaty.

Five liquid cooling classes have been created:

- W1 - Facility Water Supply Temperature of 2 to 17 C
- W2 - Facility Water Supply Temperature of 2 to 27 C
- W3 - Facility Water Supply Temperature of 2 to 32 C
- W4 - Facility Water Supply Temperature of 2 to 45 C
- W5 - Facility Water Supply Temperature of > 45 C

In addition to the classes, the whitepaper provides insight into other considerations for liquid cooling including condensation, operation, water flow rates, pressure, velocity and quality as well as information on interface connections and infrastructure heat rejection devices.

This whitepaper follows an earlier whitepaper released in May 2011, "2011 Thermal Guidelines for Data Processing Environments - Expanded Data Center Classes and Usage Guidance," which addresses air cooling in data centers and created new data center environmental classes which expanded the opportunity for chiller-less data centers (fulltime economizers).

ASHRAE, founded in 1894, is an international organization of some 50,000 persons. ASHRAE fulfills its mission of advancing heating, ventilating, air conditioning and refrigerating to serve humanity and promote a sustainable world through research, standards writing, publishing and continuing education.

Don't forget to follow ASHRAE on your favorite media networks:

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ASHRAE Student Chapter Report

The UAA student chapter has new student leadership. The torch has been passed from Taylor Karnikis and Talisa Rodrigues. I would like to thank them for all of their hard work over the past two years revitalizing the UAA student chapter. I wish them the best as they finish up their undergraduate degrees and move on to their next endeavors.

We recently had a tour on the UAA campus for the mechanical engineering departments HVAC class. The students had an opportunity to explore and see some of the equipment that they may one day help design. The students toured a fan room and with the help of Blake Zollinger (UAA Automation and Energy Management Supervisor) and Dr. Steffen Peuker (professor of Mechanical Engineering, UAA) were able to get a better understanding of the components of an air handling unit and how it really works. The students really enjoyed it and seemed excited to learn about the systems and the various components.

We hope to see much more student participation at the monthly meetings. These students are eager to meet and talk with all of our chapter members as well as learn more about engineering and opportunities after college. Please introduce yourself and meet some of these bright young people.

The UAA student chapter is always looking for presenters for their meetings. Our goal is to give the students a picture of the opportunities out there for new engineers. Anyone interested in doing a presentation about your business, new and exciting technology, engineering, being involved with ASHRAE, mechanical system design or other related topics please contact me. The next student chapter meeting will be held from 11:30 to 12:30 PM Thursday October 20th in room 103 of the Alaska Native Science & Engineering Program (ANSEP) building on the UAA campus.

I would also like to encourage our chapter members to reach out to the K-12 schools. It is important to help get students excited early about math, science and engineering. If you want to get involved and don't quite know how to get started, please contact me. I am always willing to make connections or help with other resources.

Sincerely,

Michael D. Anderson
Student Activities
907.563.2242
mikeanderson@siemens.com

Membership Report

**Join
ASHRAE**
www.ashrae.org/join

- Network with industry leaders
- Receive continuing education credits – PDHs and CEUs
- Gain access to technological advancements in building systems
- Receive member benefits like the ASHRAE Journal & Handbooks
- Support the industry that provides your livelihood

After our membership jump from last month we currently have no new members to report. However we do have 17 members with delinquent dues.. Remember you can manage various aspects of your membership online, including paying dues and updating your bio for advancement to full Member status. Please note that on July 1, 2011, dues for Members and Associates increased to \$185

See you at this month's meeting.

Troy Nibert
Membership Chair



Excerpts from Articles from ASHRAE's Public Relations Office



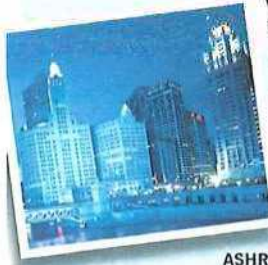
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Join ASHRAE in Chicago!

January
21-25,
2012

Don't miss the chance to participate in ASHRAE's historically best-attended Conference!

Technical Program — join your fellow members and industry leaders to discuss and examine the latest topics in the building industry, such as high performing buildings and integrated design.



Virtual Conference — if you can't make it to Chicago, take advantage of the knowledge shared in the technical program with the Virtual Conference.

AHR Expo — The ASHRAE co-sponsored AHR Expo takes place Jan. 23-25 at McCormick Place. www.ahrexpo.com.

ASHRAE Certification — all six certification programs are being offered: Building Energy Assessment Professional; Building Energy Modeling Professional; Commissioning Process Management Professional; High-Performance Building Design Professional; Healthcare Facility Design Professional; and Operations and Performance Management Professional.

ASHRAE Learning Institute — five Professional Development Seminars and 14 Short Courses are offered, including a new course on the basics of combined heating and power systems and updates to courses covering Standards 62.1 and 90.1 reflect changes in the 2010 versions of these standards.



www.ashrae.org/chicago



Local Design Competitions

LIVING
ALEUTIAN
HOME
DESIGN
COMPETITION



- Imagine a creative, livable, affordable home. Now imagine it in Alaska.
- Join us in creating a model for a new era of Living Communities. First place prize of \$35,000, and the winning design will be built!

[Login](#)

[Register Your Team](#)

[Competition Details](#)

[About the Region](#)

[Map](#)

[FAQs](#)

[Living Building Challenge](#)

<p>Competition Details</p> <p>Competition brief Terms and Conditions Submission Checklist</p>	<p>Timeline</p> <p>Competition Portal Opens October 1, 2011 Registration Deadline December 1, 2011 Contest Closes January 18, 2012</p>	<p>About the Region and Aleutian Housing Authority</p>
<p>Map</p> <p>Explore the region with Google Earth</p>	<p>FAQs</p> <p>Including site photos and other resources</p>	<p>Living Building Challenge</p> <p>Learn about the Challenge and link to full standard</p>

Competition News

[In rural Alaska, building a better house](#)

Alaska Dispatch, June 8, 2011

[Green construction challenge set in Aleutians](#)

Dutch Harbor Fisherman, May 31, 2011

[Groups Organize Global Contest to Design "Living Building"](#)

Alaska Public Radio Network, May 30, 2011



ASHRAE Alaska Chapter would like to Thank our Business Support

 <p>AMC ENGINEERS <i>Alaska's Premiere Mechanical, Electrical, Plumbing and Telecommunications Engineering Firm</i> Adams, Morgenthaler and Company, Inc. 701 East Tudor Road, Suite 250—Anchorage, AK 99503 Phone: 907-257-9100—Fax: 907-257-9191 www.amc-engineers.com— info@amc-engineers.com</p>	<p>Russel "Rusty" West Alaska Sales Manager Office: 425-774-6602 Direct Line: 425-977-2139 Mobile: 206-909-3664 Fax: 425-775-2272 Email: rwest@coleindust.com</p>  <p>5924 - 203rd Street Southwest • Lynnwood • WA • 98036 Serving the Pacific Northwest for over 40 years.</p>
<p><i>Simplify...</i> Find all of your Architecture, Engineering, and Survey services in one place</p>  <p>mail@designalaska.com www.designalaska.com 1-800-668-8919 1-907-452-1241</p>	 <p>Rick Loewen 201 East 54th Avenue Suite 100 Anchorage, AK 99518</p> <p>Andrew Lee phone (907) 561-4747 fax (907) 562-7473 www.jpsheldon.com</p>
 <p>Featuring controls by: AUTOMATEDLOGIC CORPORATION</p> <p>Jessi Cherry Sales Specialist Energy Management & Control Systems</p> <p>Phone: (907) 279-3320 Fax: (907) 279-2369 jessi.cherry@msicontrols.com</p>	 <p>MECHANICAL AND ELECTRICAL CONSULTING ENGINEERS</p> <p>2022 ARCTIC BOULEVARD SUITE 200 ANCHORAGE, AK 99507 (907) 276-9521 191 SWANSON AVENUE SUITE 100 WADILLA, AK 99654 (907) 307-1321</p>    <p>DESIGNING FACILITIES IN ALASKA FOR OVER 25 YEARS</p>
 <p>5730 B Street • Anchorage, AK 99518 phone: 907.345.8021 • fax: 907.345.8022 www.stinebaugh.com</p> <p>Engineered HVAC Solutions for Alaska</p>	<p>Serving All of Alaska</p> <ul style="list-style-type: none"> • Filtration • Heating • Plumbing • Ventilation  <p>3901 Spenard Road Anchorage, Alaska 99517-3002 Phone: (907) 248-0050 Fax: (907) 243-3206 www.akwinter.com</p> <p>Ruth Armstrong Cell: (907) 230-0219 e-mail: ruth@akwinter.com</p>
<p>Jeff Robinson <i>Service & Installation Division Manager</i> 365-2514 jrobinson@klebsheating.com</p> <p>365-2500 365-2540 www.klebsheating.com</p>  <p>Heating Plumbing Air Quality 1107 E. 72nd Avenue, Anchorage, Alaska 99518</p>	

This page will be continually updated. Please get your business card in for the year of 2011. Business cards run from June to June for \$100.00 per year. Please send your photo-ready card to lcreelman@mail.ashrae.org. Or if you would like to update your existing business card please contact Logan Creelman.



Until Next Time...

Happy October!

I hope no one is suffering from too much damage from these fall winds we are having!

A special thank you to Ray Sieber and Matt Spink for coming all the way to Alaska to present at last month's meeting. Both were very educational presentations. October's presentation is on Variable Flow Refrigeration. Thank you to Dale Kentala with LG for presenting this month!

I'm sure we have all worked with Variable Flow on our heating systems but the application of variable flow to Refrigeration should be quite interesting. If you would like to feature your business card in this section from June 2011 to June 2012 please e-mail me with a photo-ready business card. The fee is \$100 per year.

Also, if you would like to change your existing business card please contact me, because every month that section is continually updated.

If there is anything you would like to share in the Hot Gas Bypass please feel free to contact me.

Thank you!



ASHRAE Alaska Chapter #122

Logan Creelman
Acting Secretary—ASHRAE 2011
Cell (907)306-9292

Visit us on the web at:
www.alaska.ashraechapters.org



"On Halloween night, the Great Pumpkin rises from his pumpkin patch and flies through the air with his bag of toys to all the children."

-Linus Van Pelt, It's the Great Pumpkin, Charlie Brown



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ASHRAE-Alaska
Chapter

C/O Editor
PO Box 244503
Anchorage, AK 99524-0712



Visit us on the web at:
www.alaska.ashraechapters.org



Hot Gas Bypass

Advancing HVAC&R to serve humanity and promote a sustainable world

November 2011

Anchorage Meeting Information

Date: Thursday, November 17, 2011

Location:
Eklutna Water Treatment Facility
Tour

Networking/Social: 5:30pm
(at the Eklutna Facility)
See page 2 for directions

Tour begins: 6:00pm

Meeting/Dinner: 7:00pm
(at Bella Vista Restaurant)
See page 2 for directions

Members: \$35.00

Students: \$10.00

Alaska Chapter Officers/Chairs

Jessi Cherry, President

jessi_cherry@msicontrols.com

Ginger Schaaf, Vice-President

gschaaf@stinebaugh.com

Logan Creelman, Secretary

lcreelman@mail.ashrae.org

Greg Jernstrom, Treasurer

gjernstrom@jernstromengineering.com

Mike Stinebaugh, Nominating Commit. Chair

mstinebaugh@stinebaugh.com

Troy Nibert, Membership

tnibert@proctorsales.com

Jeff Hurd, Technology Transfer

jeff.hurd@awwu.biz

Ruth Armstrong, Resource Promotion

ruth@akwinter.com

Keith Reed, Historian

kreed@ssiatalaska.com

President's Message

Happy Thanksgiving Everyone! The hustle and bustle of the holidays is among us. During this busy time remember to take a moment and be thankful for all that you have. "Thanksgiving, after all, is a word of action."-W.J. Cameron

We had a very successful October meeting. Thank you to Dale Kentala who spoke at last month's meeting. Also, a big thank you goes out to the East High Robotics Team for their presentation. They did a wonderful job. It was decided at the November Board of Governors meeting that the Alaska ASHRAE Chapter will donate \$250 to their team. There will be a list of volunteer opportunities with the FIRST Program attached to the newsletter. Also, for more information on volunteer opportunities and donations please contact Tracy McKeon at:



East High Robotics Team during their Presentation



East High Robotics Team during their Presentation

tmckeon@rsa-ak.com.

Be sure to take notice of the CTTC Report in this month's Hot Gas Bypass. Jeff Hurd, CTTC Chair, will be announcing the date and time of the ASHRAE 90.1 Update course.

This month's meeting is a Membership Night and we will be touring of the Eklutna Water Treatment Plant. During the November meeting we will be holding a Membership contest. The person who brings the most RSVP'd guests will receive a \$50 Visa Gift Card. Please read Ginger's article for details about the time and directions to the Eklutna Water Treatment Plant and Bella Vista, which is where we will hold our meeting. I hope to see you all at the November meeting!

Please note there is no December meeting.

Wishing you all an abundance of friends, happiness, and fun this holiday season! Happy Holidays! Be safe and I look forward to seeing you in 2012!

Jessi Cherry

President, Alaska Chapter ASHRAE
jcherry@msicontrols.com

C/O Editor

PO Box 244503

Anchorage, AK 99524-4503

Visit us on the web at:

www.alaska.ashraechapters.org





Hot Gas Bypass

November's Program



Eklutna Water Treatment Facility Tour

This month we will be touring the Eklutna Water Treatment Facility. Brian Yonkoske with the Anchorage Municipality will lead our tour and later join us for dinner to answer any questions you may have from the tour.

RSVP NOW to reserve your place!!

Please RSVP to Logan Creelman lcreelman@mail.ashrae.org no later than NOON on Tuesday, November 15. After the meeting, we will meet at Bella Vista Restaurant in Peters Creek (20908 Bill Stephens Drive - take the Peters Creek exit). There will be a set menu with three meals to choose from: NY Strip, Greek Half Chicken or Baked Halibut. The cost for the dinner meeting is \$30.

Date: Thursday, November 17
Networking/Social: 5:30pm (at the Eklutna Facility)
Tour begins: 6:00pm
Meeting/Dinner: 7:00pm (at Bella Vista Restaurant)

Directions to the Facility: Follow the Glenn Hwy North out of Anchorage. Take the Thunderbird Falls exit. Follow Denaina Elders Road to Eklutna Lake Road. Take a Right. Travel 1.6miles and the facility will be on your Left. 30001 Eklutna Lake Road, Chugiak 99567

Ginger Schaaf
Vice President - Programs Chair
907-345-8021
gschaaf@stinebaugh.com

General Membership Meeting Program Schedule

Please note the location of all meetings will be at the Crowne Plaza Hotel unless otherwise noted.

September Meeting

Date/Time: September 15/6:00 PM
Subject: Fan System Effects-Design to Minimize Operational Problems"
Speaker: Matt Spink, P.E.

October Meeting

Date/Time: October 20/6:00 PM
Subject: Variable Flow Refrigeration
Speaker(s): Dale Kentala with LG

November Meeting

Date/Time: November 17/6:00 PM
Membership Night
Subject: Eklutna Water Treatment Plant
Speaker(s): Brian Yonkoske

January Meeting

Date/Time: January 19/6:00 PM
Subject: A View Point on Alaska's Future by the Alaska Department of Natural Resources (DNR) *(tentative)*
Speaker(s): Dan Sullivan - Commissioner of the Alaska DNR

February Meeting

Date/Time: February 16/6:00
Joint Meeting with IAPMO
Subject: Cast Iron Pipe and Fittings
Speaker (s): Dennis Setzer

March Meeting

Date/Time: March 15/6:00
Subject: TBD
Speaker (s): Dennis Knight - ASHRAE Distinguished Lecturer



April Meeting

Date/Time: April 19/6:00
Student Night
Subject: Anchorage Fish Hatchery Tour *(tentative)*
Speaker (s): TBD

May Meeting

Date/Time: May 17/6:00
Subject: Displacement Ventilation *(tentative)*
Follow up to CRC
Speaker (s): Jerry Sipes



CTTC Report

Continuing Education:

I'm setting up a seminar for February 2012 on complying with ANSI/ASHRAE/IESNA Standard 90.1-2010 for those who need PDH's. Due to the cost of the course we are looking at charging \$225.00 per person. The course is full day and 6 PDH's. I need to get a head count of people interested in the course we will need at less 25 people to hold the seminar. Please email me if you are sure you will attend the seminar. If you have any questions please call or email me.

90.1-2010 seminar will be February 16 from 8am till 4pm. More information will be provided later on the seminar.

Technology Award:

The chapter is trying to get individuals or companies to submit for the 2012 ASHRAE Technology Awards for the upcoming (CRC) Chapters Regional Conferences. The ASHRAE Technology Awards are not due till April 15th 2012. It would be great for someone to submit a project or two for the ASHRAE Technology Awards. Also to have a local individual or companies win the Award. As for the chapter we haven't submitted a Technology Award in over 7 years. Please let me know if you have any questions. **Just email me and I'll send you the Technology Award Short Form.**

Jeffery D. Hurd (CTTC)
Project Management/Civil Engineer I
Anchorage Water and Wastewater Utility
Work (907) 786-5526 Cell (907) 317-7285
Jeff.hurd@awwu.biz

*Continuing
Education
Credits
made available
to you from your
local ASHRAE
Alaska Chapter*

February 2012

*For more
information please
see the CTTC Report*

Region XI Executives

<u>Position</u>	<u>Name</u>	<u>E-mail</u>
Director & Region Chair	Erich Binder	erich.binder@worleyparsons.com
Assistant Regional Chair	Kevin Marple	kmarple@benzco.com
CTTC RVC and Nom. Com. Alt.	Eileen Jensen	nejensen@bpa.gov
Student RVC	Stefan Lidington	stefanl@oregonairreps.com
Membership RVC	Murdoch MacPherson	m.macpherson@mac-eng.ca
Research Promotion RVC	Ray Sieber	sieber@src.sk.ca
Young Engineers in ASHRAE (YEA)	Tariq Amlani	tariq.amlani@stantec.com
Regional Historian	Bill Dean	bill.dean@nrc-cnrc.gc.ca
Nominating Committee Member	Norm Grusnick	ngrusnick@ecomfg.com
Regional Treasurer	Rob Craddock	rob@inlandmetal.ca
Regional Web Master	Scott Bossert	sbossert@benzco.com
CRC 2010 Chair	Russell Lavitt	rlavitt@smseng.com



Research Promotion

*ASHRAE
Research*



*Today's Challenges
Tomorrow's Solutions*

Fellow ASHRAE Members,

Our RP Goal for this year has been raised to \$10,000.00. So far, we have already raised \$5,511.56 from donations. That means we are already 56% of the way there!

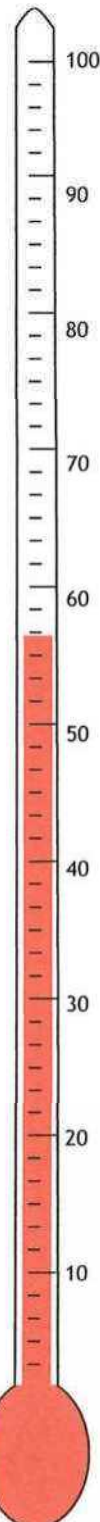
Planning is in the works for a 2nd Annual RP shoot out to be held in April 2012. More details will be coming on that event as plans are finalized. This is shaping up to be a fun and exciting event with more shooting opportunities and a faster pace than last year. We are looking at a combination of sporting clays, skeet and trap shooting ranges being open to participants as well as a BBQ after the event. As details are finalized our committee will be sending out notices about sponsorship opportunities as well as sign-up sheets for participants/teams.

Every dollar counts toward our goal. You can elect to donate in three different ways.

1. Go to <http://www.ashraerp.com> and click on "donate".
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3. You can mail a check made out to ASHRAE Research to the Alaska ASHRAE Chapter mail box at PO Box 244503, Anchorage, AK 99524 and I will mail it into National for credit to you.

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Sincerely
Ruth Armstrong
RP Chair



2011-2012 Research Investors, Alaska Chapter ASHRAE		
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Excerpts from Articles from ASHRAE's Regional Chair's Office

ASHRAE Introduces New Liquid Cooled Datacom Environmental Classes

ATLANTA - A new whitepaper that serves as the first vendor neutral thermal guideline for liquid cooled data processing environments is available for free download from ASHRAE.

"2011 Thermal Guidelines for Liquid Cooled Data Processing Environments" creates data center classes for liquid cooling that can enable fulltime economizers for a number of applications in many climates, according to Don Beaty, chair of the Publications Subcommittee of ASHRAE's Technical Committee (TC) 9.9, Mission Critical Facilities, Technology Spaces and Electronic Equipment.

"2011 Thermal Guidelines for Liquid Cooled Data Processing Environments" can be downloaded for free from the ASHRAE TC9.9 website at www.tc99.ashraetcs.org.

The increasing heat density of modern electronics is stretching the ability of air to adequately cool the electronic components within servers as well as the data center facilities that house these servers. To meet this challenge, the use of direct water or refrigerant cooling at the rack or board level is now being deployed. This trend of increasing heat densities combined with the interest in energy and waste heat recovery created the need for liquid cooling guidelines to help bridge the gap between IT equipment design and data center facility design, according to Beaty.

Five liquid cooling classes have been created:

- W1 - Facility Water Supply Temperature of 2 to 17 C
- W2 - Facility Water Supply Temperature of 2 to 27 C
- W3 - Facility Water Supply Temperature of 2 to 32 C
- W4 - Facility Water Supply Temperature of 2 to 45 C
- W5 - Facility Water Supply Temperature of > 45 C

In addition to the classes, the whitepaper provides insight into other considerations for liquid cooling including condensation, operation, water flow rates, pressure, velocity and quality as well as information on interface connections and infrastructure heat rejection devices.

This whitepaper follows an earlier whitepaper released in May 2011, "2011 Thermal Guidelines for Data Processing Environments - Expanded Data Center Classes and Usage Guidance," which addresses air cooling in data centers and created new data center environmental classes which expanded the opportunity for chiller-less data centers (fulltime economizers).

ASHRAE, founded in 1894, is an international organization of some 50,000 persons. ASHRAE fulfills its mission of advancing heating, ventilating, air conditioning and refrigerating to serve humanity and promote a sustainable world through research, standards writing, publishing and continuing education.

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Excerpts from Articles from ASHRAE's Regional Chair's Office



ASHRAE Announces the Seventh International Conference on Cold Climate and Call for Papers

ATLANTA—ASHRAE, along with HVAC&R, architecture, interior design and building construction industry colleagues from around the world, will host the seventh International HVAC Cold Climate Conference, Nov. 12-14, 2012, in Calgary, Alberta

Cold Climate HVAC 2012 will provide key elements of a strategy by which scientists, designers, engineers, manufacturers and other decision makers in cold climate regions can achieve good indoor environmental quality (IEQ), with a minimum use of resources and energy.

The range of topics includes energy and sustainability in arctic environments; building technology for people in the arctic; indoor environment and health; challenges for remote areas; cold climate building envelopes and moisture management; HVAC system operation and maintenance; and cold climate standards, codes, regulations and requirements.

The planning committee seeks papers featuring innovations in cold climate HVAC design. This includes new technologies and applications; improved methodologies, improvements to computational models or other design tools; novel methods of management, organization or quality assurance; and novel avenues of research or revised conceptual frameworks for designers.

Submit abstracts no longer than 350 words, which summarize the objectives, approach, results and conclusions of the proposed paper, and five to seven keywords by Dec. 1, 2011. Upon acceptance, papers will be due April 1, 2012. For specific topics, to submit a conference paper abstract or for more information go to www.ashrae.org/ColdClimate. For additional information, contact meetings@ashrae.org.

The Scandinavian Federation of Heating, Ventilation and Sanitary Engineering Associations (SCANVAC) initiated the series of Cold Climate HVAC Conferences. The six previous conferences have been successfully organized in Rovaniemi, Finland in 1994; Reykjavik, Iceland in 1997; Sapporo, Japan in 2000; Trondheim, Norway in 2003; Moscow, Russia in 2006; and Sisimiut, Greenland in 2009.

The series of congresses have earlier been supported by national HVAC societies, the Federation of European Heating, Ventilation and Air Condition Associations (RHEVA) and ASHRAE.



Excerpts from ASHRAE's Public Relations Office

ASHRAE and Penn State Partner on Building Efficiency Hub

Philadelphia A newly signed memorandum of understanding brings together ASHRAE and Pennsylvania State University (Penn State) to improve energy efficiency and reduce the environmental impact of buildings through the Greater Philadelphia Innovation Cluster (GPIC) for Energy-Efficient Buildings.

ASHRAE and Penn State signed the memorandum today to pursue common objectives related to GPIC. GPIC is a 24-member consortium, being led by Penn State, which has been designated as an Energy Innovation Hub of the U.S. Department of Energy and is located at the Navy Yard in Philadelphia, Pa. The goals of GPIC are to transform the building retrofit industry from serial fragmentation to integrated systems methods, to improve design tools, building systems, public policies, market incentives and workforce skills needed to achieve a 50 percent reduction of energy use in buildings, and to stimulate private investment and quality job creation in Greater Philadelphia and beyond.

ASHRAE is looking forward to working closely with Penn State and other GPIC members on improving energy efficiency and reducing carbon emissions, Ron Jarnagin, ASHRAE president, said. GPIC represents an exciting step forward in finding ways to increase energy efficiency. ASHRAE is happy to bring the knowledge and technical expertise of its volunteer members to the table to help create a broader knowledge of energy efficient and sustainable building practices.

ASHRAE brings a tremendous amount of technical knowledge and experience that will be very useful to the GPIC as we strive toward solving one of the nation's most serious energy problems by dramatically reducing energy consumption in commercial buildings. Together, we can create quality jobs in the region and boost the building industry, Henry Foley, executive director of the GPIC and vice president for research for Penn State, said.

ASHRAE will assist in the GPIC effort in several areas, including research, education, certification, standards and guidelines and by applying the society's Building Energy Quotient (bEQ) program to buildings at the Navy Yard. ASHRAE may also help obtain As-Designed and In-Operation bEQ ratings for buildings in Greater Philadelphia and can ensure that GPIC considers use of ASHRAE certifications to support its objectives.

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Excerpts from ASHRAE's Public Relations Office

Call for Posters, Keynote Speakers, ALI Course Announced for ASHRAE High Performance Building Conference

ATLANTA Application techniques, actual performance and policy issues for achieving high performance buildings with deep energy savings are addressed at ASHRAE's upcoming High Performance Buildings (HPB) Conference. Registration is now open.

High Performance Buildings: A Focus on Deep Energy Savings, advances the industry's efforts to change the energy-use aspects of the built environment. The conference takes place March 12-13, 2012, San Diego, Calif., and features 50 presentations in 16 sessions covering a broad range of HPB topics. To register or for more information, visit www.ashrae.org/HPBconference.

This is a must-attend conference for professionals, researchers and building owners involved in setting policy and applying best practices for energy efficiency in high performance buildings, conference chair and ASHRAE Presidential Member Kent Peterson, P.E., said. This specialty conference provides a great opportunity to network with the trend setters in building energy efficiency.

With an attendance limited to 300, the conference allows an exchange of ideas and dialogue to facilitate understanding of current energy saving efforts, share best practices and to establish an action plan to substantially improve energy efficiency in buildings.

The conference is presented by ASHRAE's High Performing Buildings Magazine, which publishes articles on measured high performance buildings only. The conference features three HPB case study sessions that include natural ventilation, net zero energy implementation, building controls, Germany's first LEED® Platinum building as well as schools, office buildings and a library.

In addition, a special HPB Magazine session features the editorial advisory board, sharing lessons they have learned from reporting on the experiences of the designers, contractors, suppliers and owners of buildings that have been featured in the magazine. In addition, case studies of selected buildings are presented.

Keynote speakers are:

Jeanne Clinton, special advisor for efficiency at the California Public Utilities Commission (CPUC), appointed by Governor Brown, speaking on Energy Management Meets Economic Development. Previously she was Governor Schwarzenegger's Clean Energy Advisor at the CPUC, during which time she led the California Solar Initiative and guided California's Long-Term Energy Efficiency Strategic Plan.

Eric Corey Freed, organicARCHITECT, San Francisco, will challenge attendees through his address, Dodo-Sapiens: How Our Way of Life is Killing Us and the Need for Regenerative, Bio-Based Buildings.

ASHRAE President Ron Jarnagin, who will discuss ASHRAE's High Performance Building Initiatives: Sustaining Leadership in Sustainability.

The Building Performance sessions address integrated measurement, operation and maintenance practices; thermal and visual performance; residential retrofits; design, operation and tenant behavior; and minimum ventilation rate procedure.

The Policy and Benchmarking sessions cover U.S. Army net zero policy initiatives; NSTAR HPB as a part of the State of Massachusetts energy efficiency goals; and CALGreen California's green building standards code.

The Low Energy Techniques Sessions cover net zero district vs. net zero buildings; the 50% Advanced Energy Design Guide for Small and Medium Office Buildings published by ASHRAE; biomimicry; and high temperature cooling techniques.

(Continued on page 11)



Excerpts from ASHRAE's Public Relations Office

DOE Updates National Reference Standard for Commercial Buildings to 90.1-2010

ATLANTA Following preliminary analysis that ASHRAE/IES's 2010 energy efficiency standard contains significant energy savings over the 2007 standard—18.2 percent source energy savings and 18.5 percent site energy savings—the U.S. Department of Energy (DOE) has issued a ruling that establishes the 2010 standard as the commercial building reference standard for state building energy codes.

In an announcement in the Oct. 19 edition of *The Federal Register*, DOE attributes the greater energy savings to improvements in ANSI/ASHRAE/IESNA Standard 90.1-2010, Energy Standard for Buildings Except Low-Rise Residential Buildings, related to better lighting, daylighting, controls and building envelope and better mechanical systems and application to more systems.

With the Oct. 19 ruling, Standard 90.1-2010 serves as the commercial building reference standard for state building energy codes under the federal Energy Conservation and Production Act. As a result, states are required to certify by Oct. 18, 2013, that they have updated the provisions of their commercial building code regarding energy efficiency to meet or exceed 90.1-2010.

The foundation of energy efficient buildings continues to grow stronger with the news that DOE is now referencing the 2010 standard, Ron Jarnagin, ASHRAE president, said. ASHRAE hopes to make that foundation even stronger through our current work with IES developing the 2013 standard.

The DOE has determined that the quantitative analysis of the energy consumption of buildings built to Standard 90.1-2010, as compared to buildings built to Standard 90.1-2007, indicates national source energy savings of approximately 18.2 percent of commercial building consumption, according to DOE. Additionally, DOE has determined site energy savings are estimated to be approximately 18.5 percent.

The DOE noted that the newer version of the standard contains 19 positive impacts on energy efficiency. These impacts included changes made through the public review process in which users of the standard comment and offer guidance on proposed requirements. Specifically the positive impacts include:

Requirements for daylighting controls under skylights and commissioning of daylighting controls; increased use of heat recovery; cool roofs in hot climates; lower illuminance in certain exterior zones; skylights and daylighting in some building types; reduced ventilation energy; supply air temperature reset for non-peak conditions; efficiency requirements for data centers; lower lighting power densities; control of exterior lighting; occupancy sensor for many specific applications; daylighting control requirements for side-lighted spaces; and daylighting controls in more spaces.

Updated chiller efficiency requirements.

Extension of VAV fan control requirements.

Expansion of new lighting power densities to more retrofits and automatic damper requirements and use of economizers

Minimizes exceptions to switched receptacle requirement.

The ruling comes on the heels of a July announcement that established the 2007 standard as the commercial building reference standard for state building energy codes. The DOE noted that because the 2010 determination was published prior to the two-year deadline states have to demonstrate that their energy code meets or exceeds the stringency of the 2007 standard, states are allowed to file just one certification to address both determinations.

Since being developed in response to the energy crisis in the 1970s, Standard 90.1 now influences building designs worldwide. It has become the basis for building codes, and the standard for building design and construction throughout the United States. ASHRAE and IES publish a revised version of the standard every three years.



ASHRAE Student Chapter Report

Winter is definitely here. The student chapter under their new leadership is working hard to ensure they have another great year. There are working on several activities and future tours to help with this.

The student chapter would like to thank Mr. Glenn Evans and Mr. Dale Kentala for their presentation at last month's student chapter meeting. I can honestly say it we had our biggest turnout since I have been student activities chair.

I hope to see some of the students make it out to this month's tour of the treatment facility. These students are eager to meet and talk with all of our chapter members as well as learn more about engineering and opportunities after college. Please introduce yourself and meet some of these bright young people.

The UAA student chapter is always looking for presenters for their meetings. Our goal is to give the students a picture of the opportunities out there for new engineers. Anyone interested in doing a presentation about your business, new and exciting technology, engineering, being involved with ASHRAE, mechanical system design or other related topics please contact me. The next student chapter meeting will be held from 11:30 to 12:30 PM Thursday November 17th in room 103 of the Alaska Native Science & Engineering Program (ANSEP) building on the UAA campus.

I would also like to encourage our chapter members to reach out to the K-12 schools. It is important to help get students excited early about math, science and engineering. If you want to get involved and don't quite know how to get started, please contact me. I am always willing to make connections or help with other resources.

Sincerely,

Michael D. Anderson
Student Activities
907.563.2242
mikeanderson@siemens.com

Membership Report

We have two new members this month, please welcome our newest members, Kirk Stinebaugh and Kurt Peterson. We currently have 17 members that are delinquent. Please take a moment and check your standings with ASHRAE to make sure you are not one of these 17 people. Past due is a 180-day process (0-90 days past due is expired yet active, and 91-180 days past due means they are in "grace"), If the dues are not paid by day 181, the member is cancelled. Cancelled members can reinstate with back dues to maintain their original election date to ASHRAE - to do this, please contact ASHRAE HQ at (800) 5-ASHRAE or membership@ashrae.org. Cancelled members can also just rejoin and start a fresh membership if they only want to pay one year of membership dues.

As a reminder the ASHRAE member that brings the most guests to this month's meeting will win a \$50 Visa Gift Card.

See you at this month's meeting.

Troy Nibert
Membership Chair

**Join
ASHRAE**
www.ashrae.org/join

- Network with industry leaders
- Receive continuing education credits – PDHs and CEUs
- Gain access to technological advancements in building systems
- Receive member benefits like the ASHRAE Journal & Handbooks
- Support the industry that provides your livelihood



Excerpts from ASHRAE's Public Relations Office

(Continued from page 8)

Bottom-line results are addressed in the Return on Investment Session with business case studies on net zero energy buildings in San Diego and Phoenix; financial metrics for comparing efficiency and renewables projects; Caltech's Energy Conservation Investment Program; and life-cycle commissioning.

Other sessions cover envelopes, lighting/daylighting, plug loads, operations and integrated building design.

Registration cost is \$650 (\$550, ASHRAE, U.S. Green Building Council and American Institute of Architects members). An on-demand Virtual Conference is included with the registration fee. A Virtual Conference only registration is \$149 (\$99, member). The conference will be approved for AIA LUs, PDHs and LEED AP credits.

Also being offered in conjunction with the conference is an ASHRAE Learning Institute seminar, Implementing Standard 189.1-2009 for High-Performance Green Buildings, which focuses on the minimum requirements for the design, construction and plans for operating high-performance buildings. The seminar takes place on March 11, and the cost is \$485 (\$395 ASHRAE, U.S. Green Building Council and American Institute of Architects members). Attendees can save \$100 on the seminar cost if registering for both the seminar and the conference.

Call for Posters

Poster presentations are requested for high performance buildings that may be either in design or completed, and will be grouped in two categories: those with one year or more of measured energy data and those relying on modeled energy use. Submissions are particularly encouraged for projects that:

- Emphasize innovative strategies to dramatically improve energy efficiency
- Demonstrate replicable strategies
- Share valuable lessons learned
- Have one year or more of measured energy data

Poster proposals are due Jan. 9, 2012, and decisions will be made as posters are submitted. Accepted posters will be displayed at the conference. Poster presenters receive a discounted registration rate of \$500, (\$400, members). To download the poster template or for more information, visit www.ashrae.org/HPBconference.

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Excerpts from ASHRAE's Public Relations Office

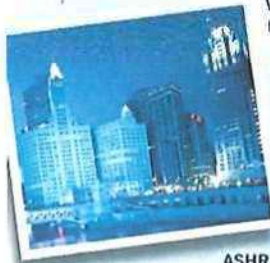


Join ASHRAE in Chicago!

January 21-25, 2012

Don't miss the chance to participate in ASHRAE's historically best-attended Conference!

Technical Program — join your fellow members and industry leaders to discuss and examine the latest topics in the building industry, such as high performing buildings and integrated design.



Virtual Conference — if you can't make it to Chicago, take advantage of the knowledge shared in the technical program with the Virtual Conference.

AHR Expo — The ASHRAE co-sponsored AHR Expo takes place Jan. 23-25 at McCormick Place. www.ahrexpo.com.

ASHRAE Certification — all six certification programs are being offered: Building Energy Assessment Professional; Building Energy Modeling Professional; Commissioning Process Management Professional; High-Performance Building Design Professional; Healthcare Facility Design Professional; and Operations and Performance Management Professional.

ASHRAE Learning Institute — five Professional Development Seminars and 14 Short Courses are offered, including a new course on the basics of combined heating and power systems and updates to courses covering Standards 62.1 and 90.1 reflect changes in the 2010 versions of these standards.



www.ashrae.org/chicago



Local Design Competitions

LIVING ALEUTIAN HOME DESIGN COMPETITION



- Imagine a creative, livable, affordable home. Now imagine it in Alaska.
- Join us in creating a model for a new era of Living Communities. First place prize of \$35,000, and the winning design will be built!

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[Competition Details](#)

[About the Region](#)

[Map](#)

[FAQs](#)

[Living Building Challenge](#)

<p>Competition Details</p> <p>Competition Brief Terms and Conditions Submission Checklist</p>	<p>Timeline</p> <p>Competition Portal Opens October 1, 2011 Registration Deadline December 1, 2011 Contest Closes January 18, 2012</p>	<p>About the Region and Aleutian Housing Authority</p>
<p>Map</p> <p>Explore the region with Google Earth</p>	<p>FAQs</p> <p>Including site photos and other resources</p>	<p>Living Building Challenge</p> <p>Learn about the Challenge and its full standard</p>

Competition News

[In rural Alaska, building a better house](#)

Alaska Dispatch, June 8, 2011

[Green construction challenge set in Aleutians](#)

Dutch Harbor Fisherman, May 31, 2011

[Groups Organize Global Contest to Design "Living Building"](#)

Alaska Public Radio Network, May 30, 2011



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<p>Jeff Robinson <i>Service & Installation Division Manager</i> 365-2514 jrobinson@klebsheating.com</p> <p>365-2500 365-2540 www.klebsheating.com</p>  <p>1107 E 72nd Avenue, Anchorage, Alaska 99518</p>	

This page will be continually updated. Please get your business card in for the year of 2011.
 Business cards run from June to June for \$100.00 per year.
 Please send your photo-ready card to lcreelman@mail.ashrae.org
 Or if you would like to update your existing business card please contact Logan Creelman.



Until Next Time...

Happy November! Well the snow is accumulating and the temperature is falling perfect time to go play in Alaska!

Please be safe this year when out in the snow and remember to bring the right gear.

A special thank you to Dale Kentala for

his presentation on Variable Flow Refrigeration at last month's meeting. November's meeting is a Tour. Thank you to Brian Yonkoske for showing us around and answering our questions this month!

If you would like to feature your business card in this section from June 2011 to June 2012

please e-mail me with a photo-ready business card. The fee is \$100 per year.

Also, if you would like to change your existing business card please contact me, because every month that section is continually updated.

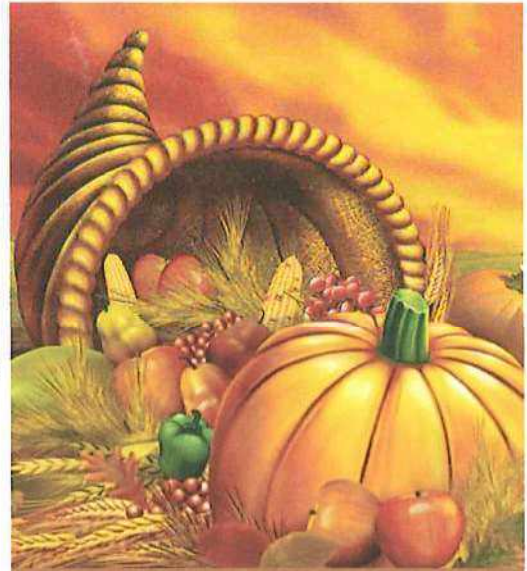
If there is anything you would like to share in the Hot Gas Bypass please feel free to contact me.

Thank you!

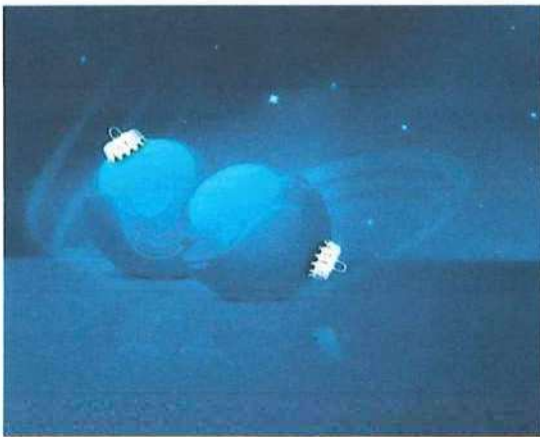
 **ASHRAE Alaska Chapter #122**
Logan Creelman

Acting Secretary-ASHRAE 2011
Cell (907)306-9292

Visit us on the web at:
www.alaska.ashraechapters.org



"As we express our gratitude, we must never forget that the highest appreciation is not to utter words, but to live by them."
-John Fitzgerald Kennedy



Calvin: Well, I've decided I do believe in Santa Claus, no matter how preposterous he sounds.

Hobbes: What convinced you?


Calvin: A simple risk analysis. I want presents. Lots of presents. Why risk not getting them over a matter of belief? Heck, I'll believe anything they want.

Hobbes: How cynically enterprising of you.

Calvin: It's the spirit of Christmas.
-Bill Watterson, Calvin & Hobbes

 
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ASHRAE-Alaska Chapter


C/O Editor
PO Box 244503
Anchorage, AK 99524-4503

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Hot Gas Bypass

Advancing HVAC&R to serve humanity and promote a sustainable world

January 2012

President's Message

Happy New Year! I hope the holiday season found you surrounded by loved ones and friends.

Happy Anniversary to the British Columbia ASHRAE Chapter! They will be celebrating their 60th Anniversary of their Chapter on January 11th. Our Chapter would like to wish the BC Chapter 60 more years of success!



Eklutna Water Treatment Facility Tour

We had a very successful November meeting. Thank you to Brian Yonkoske who gave an awesome tour of the Eklutna Water Treatment Plant. He was very knowledgeable of all aspects in the water treatment plant. During the tour we were taken through all the phases of water treatment and we were shown where the water is distributed through the Eagle River and Anchorage areas. Thank you to all who attended the tour.



Brian Yonkoske speaking about the elevation and pressures the pipe observes on its course to the Anchorage bowl.

This month's meeting will be presented by the Alaska Housing Finance Corporation. During the meeting they will be speaking about programs in Alaska that will provide opportunity to ASHRAE members. Some specific topics in the presentation include: REAL Program, AEERLF, ARIS, AkWarm, Energy Codes, and Cascadia Classes. This month ASHRAE will be holding elections for the 2012-2013 Board of Governors.

If you have any questions, concerns, or suggestions to better our chapter please feel free to contact me.

I hope to see you all at the January meeting!

Jessi Cherry
President, Alaska Chapter ASHRAE
jcherry@msicontrols.com

Anchorage Meeting

Information

Date: Thursday, January 19, 2012

Location:

Crowne Plaza Hotel on the corner of International Airport Rd. & C St.

Time:

Networking/Social: 5:30pm

Dinner: 6:00pm

Meeting: 7:00pm

"Alaska Energy Programs-REAL Program, AEERLF, ARIS, AkWarm, Energy Codes, and Cascadia Classes."

Cost:

Members: \$35.00

Students: \$10.00

Alaska Chapter

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Ginger Schaaf, Vice-President

gschaaf@stinebaugh.com

Logan Creelman, Secretary

lcreelman@mail.ashrae.org

Greg Jernstrom, Treasurer

gjernstrom@jernstromengineering.com

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Troy Nibert, Membership

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Visit us on the web at:

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January's Program

Alaska Energy Programs

"Thank you" to those of you who braved the Glenn Hwy to attend November's meeting! We had a great tour lead by Brian Yonkoske.

This month we would like to welcome Dena Strait and Scott Waterman with Alaska Housing Finance Corporation.

Dena Strait is a licensed architect in the state of Alaska and has nine years of experience at an Anchorage based firm working on clinics, both large and small, battered women's shelters, museums and a variety of other projects. Having joined Alaska Housing Finance Corporation as an energy specialist this past summer, she has had a eye-opening experience in seeing many of the projects she worked on now being retrofitted for energy efficiency. Please join us to hear about her and AHFC's quest to make energy efficiency a proactive design choice rather than a reactive retrofit program.

Scott Waterman has been with AHFC working on energy programs for the last 18 years. As the manager of all State Energy Programs, he helps analyze the energy program needs across the state, designs programs to address these needs and secures and grants funds to run various programs ranging from research to energy efficiency retrofits across the state.

Topics to be covered during the presentation are in the Program Announcement. If you did not receive a separate Program Announcement, please see Page 19."

RSVP NOW to reserve your seat!! Seating will be limited!!

Please RSVP to Logan Creelman lcreelman@mail.ashrae.org no later than NOON on Tuesday, January 17. Our meetings are at the Crowne Plaza Hotel (109 W. International Road). The cost for the dinner meeting is \$35 with RSVP, \$40 without RSVP. If you RSVP and do not show up, you will be charged \$40. Please contact Logan if you find that you can no longer attend and need to cancel your RSVP.

Date: Thursday, January 19th

Networking/Social: 5:30pm (join us at the Juno Restaurant in the Crowne Plaza Hotel)

Dinner and Meeting: 6:00pm / Program: 7:00pm

Ginger Schaaf

Vice President - Programs Chair

907-345-8021

gschaaf@stinebaugh.com

(Program Announcement Continued on page 19)

General Membership Meeting Program Schedule

Please note the location of all meetings will be at the Crowne Plaza Hotel unless otherwise noted.

January Meeting

Date/Time: January 19/6:00 PM

Subject: Alaska Energy Programs

Speaker(s): Dena Strait and Scott Waterman

February Meeting

Date/Time: February 16/6:00

Joint Meeting with IAPMO

Subject: Cast Iron Pipe and Fittings

Speaker (s): Dennis Setzer

March Meeting

Date/Time: March 15/6:00

Subject: TBD

Speaker (s): Dennis Knight -
ASHRAE Distinguished Lecturer

April Meeting

Date/Time: April 19/6:00

Student Night

Subject: Anchorage Fish Hatchery
Tour (*tentative*)

Speaker (s): TBD

May Meeting

Date/Time: May 17/11:30 AM

LUNCH MEETING

Subject: TBD

Follow up to CRC

Speaker (s): TBD





CTTC Report

Continuing Education:

I'm setting up a seminar for April 2012 on complying with ANSI/ASHRAE/IESNA Standard 90.1-2010 and 189.1 for those who need PDH's. Due to the cost of the course we are looking at charging \$225.00 per person. The courses are scheduled full days and 6 PDH's. I need to get a head count of people interested in the course we will need at least 25 people to hold the seminar each day. Please email me if you are sure you will attend the seminar. If you have any questions please call or email me.

90.1-2010 and 189.1 seminars will be April 3rd and 4th from 8am till 4pm. More information will be provided later on the seminar.

Technology Award:

The chapter is trying to get individuals or companies to submit for the 2012 ASHRAE Technology Awards for the upcoming (CRC) Chapters Regional Conferences. The ASHRAE Technology Awards are not due till April 15th 2012. It would be great for someone to submit a project or two for the ASHRAE Technology Awards. Also to have a local individual or companies win the Award. As for the chapter we haven't submitted a Technology Award in over 7 years. Please let me know if you have any questions. **Just email me and I'll send you the Technology Award Short Form.**

Jeffery D. Hurd (CTTC)
Project Management/Civil Engineer I
Anchorage Water and Wastewater Utility
Work (907) 786-5526 Cell (907) 317-7285
Jeff.hurd@awwu.biz

Region XI Executives

<u>Position</u>	<u>Name</u>	<u>E-mail</u>
Director & Region Chair	Erich Binder	erich.binder@worleyparsons.com
Assistant Regional Chair	Kevin Marple	kmarple@benzco.com
CTTC RVC and Nom. Com. Alt.	Eileen Jensen	nejensen@bpa.gov
Student RVC	Stefan Lidington	stefanl@oregonairreps.com
Membership RVC	Murdoch MacPherson	m.macpherson@mac-eng.ca
Research Promotion RVC	Ray Sieber	sieber@src.sk.ca
Young Engineers in ASHRAE (YEA)	Tariq Amlani	tariq.amlani@stantec.com
Regional Historian	Bill Dean	bill.dean@nrc-cnrc.gc.ca
Nominating Committee Member	Norm Grusnick	ngrusnick@ecomfg.com
Regional Treasurer	Rob Craddock	rob@inlandmetal.ca
Regional Web Master	Scott Bossert	sbossert@benzco.com
CRC 2010 Chair	Russell Lavitt	rlavitt@smseng.com

*Continuing
Education
Credits
made available
to you from your
local ASHRAE
Alaska Chapter*

February 2012

*For more
information please
see the CTTC Report*



ASHRAE Student Chapter Report

Not much is new this month. The UAA students are returning to classes after the long holiday break. Student turnout for the water treatment plant tour was significantly less than expected. The reason for this was the UAA Engineering Department 50 year Anniversary Celebration that was scheduled for the same evening.

The UAA student chapter is always looking for presenters for their meetings. Our goal is to give the students a picture of the opportunities out there for new engineers. Anyone interested in doing a presentation about your business, new and exciting technology, engineering, being involved with ASHRAE, mechanical system design or other related topics please contact me. The next student chapter meeting will be held from 11:30 to 12:30 PM Thursday January 19th 103 of the Alaska Native Science & Engineering Program (ANSEP) building on the UAA campus.

I would also like to encourage our chapter members to reach out to the K-12 schools. It is important to help get students excited early about math, science and engineering. If you want to get involved and don't quite know how to get started, please contact me. I am always willing to make connections or help with other resources.

Sincerely,
 Michael D. Anderson
 Student Activities
 907.563.2242
mikeanderson@siemens.com

Membership Report

Welcome to the new year, we are almost half way into our 2011-12 year, and our membership growth is vital to the success of our local chapter. Please take a moment to look around your office and see if there are any new candidates that might be interested in attending the January meeting. If you are already a member and have not been to a meeting in a while then start this new year off right by attending this month's meeting.

As of July 1, 2011, the decision was made to provide a complimentary 12-month subscription to ASHRAE Handbook Online to all new Members and Associates with an election date of July 1, 2011 and onward, since they will not receive their print or CD Handbook until June, 2012.

The new members and associates will receive an email message with instructions on how to access their complimentary Handbook Online subscription.

This is a one-time benefit for new members, and at the end of their subscription, they will be prompted to renew to the Handbook Online at the \$49 member rate.

Remember that all of the members who expired June 30, 2011, who are still not renewed, have been canceled as of January 1, 2012! Once members are cancelled, you cannot renew online. You can only rejoin, or must contact ASHRAE HQ to reinstate the membership.

Looking forward to seeing you all at this month's membership meeting.

[Troy Nibert](#)
 Membership Promotion

Join
ASHRAE

www.ashrae.org/join

- Network with industry leaders
- Receive continuing education credits – PDHs and CEUs
- Gain access to technological advancements in building systems
- Receive member benefits like the ASHRAE Journal & Handbooks
- Support the industry that provides your livelihood



Excerpts from ASHRAE's Public Relations Office



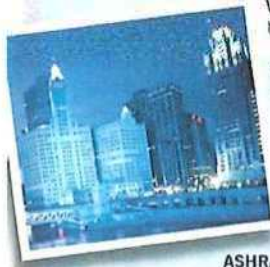
Get the ASHRAE app for your phone. <http://gettag.mobi>

Join ASHRAE in Chicago!

January
21-25,
2012

Don't miss the chance to participate in ASHRAE's historically best-attended Conference!

Technical Program — join your fellow members and industry leaders to discuss and examine the latest topics in the building industry, such as high performing buildings and integrated design.



Virtual Conference — if you can't make it to Chicago, take advantage of the knowledge shared in the technical program with the Virtual Conference.

AHR Expo — The ASHRAE co-sponsored AHR Expo takes place Jan. 23-25 at McCormick Place. www.ahrexpo.com.

ASHRAE Certification — all six certification programs are being offered: Building Energy Assessment Professional; Building Energy Modeling Professional; Commissioning Process Management Professional; High-Performance Building Design Professional; Healthcare Facility Design Professional; and Operations and Performance Management Professional.

ASHRAE Learning Institute — five Professional Development Seminars and 14 Short Courses are offered, including a new course on the basics of combined heating and power systems and updates to courses covering Standards 62.1 and 90.1 reflect changes in the 2010 versions of these standards.



www.ashrae.org/chicago



Local Design Competitions

LIVING
ALEUTIAN
HOME
DESIGN
COMPETITION



- Imagine a creative, livable, affordable home. Now imagine it in Alaska.
- Join us in creating a model for a new era of Living Communities. First place prize of \$35,000, and the winning design will be built!

[Login](#)
[Register Your Team](#)

[Competition Details](#)

[About the Region](#)

[Map](#)

[FAQs](#)

[Living Building Challenge](#)

<p>Competition Details</p> <p>Competition Brief Terms and Conditions Submission Checklist</p>	<p>Timeline</p> <p>Competition Portal Open October 1, 2011 Registration Deadline December 1, 2011 Contest Closes January 18, 2012</p>	<p>About the Region and Aleutian Housing Authority</p>
<p>Map</p> <p>Explore the region with Google Earth.</p>	<p>FAQs</p> <p>Including site photos and other resources</p>	<p>Living Building Challenge</p> <p>Learn about the Challenge and its full standard.</p>

Competition News

[In rural Alaska, building a better house](#)

Alaska Dispatch, June 8, 2011

[Green construction challenge set in Aleutians](#)

Dutch Harbor Fisherman, May 31, 2011

[Groups Organize Global Contest to Design "Living Building"](#)

Alaska Public Radio Network, May 30, 2011



LIVING
BUILDING
CHALLENGE





Research Promotion

*ASHRAE
Research*



*Today's Challenges
Tomorrow's Solutions*

Fellow ASHRAE Members,

Our RP Goal for this year has been raised to \$10,000.00. So far, we have already raised \$8,184.56 from donations. That means we are nearly 82% of the way there!

Planning is in the works for a 2nd Annual RP shoot out to be held in April 21, 2012. More details will be coming on that event as plans are finalized. This is shaping up to be a fun and exciting event with more shooting opportunities and a faster pace than last year. We are looking at a combination of sporting clays, skeet and trap shooting ranges being open to participants as well as a BBQ after the event. As details are finalized our committee will be sending out notices about sponsorship opportunities as well as sign-up sheets for participants/teams.

Every dollar counts toward our goal. You can elect to donate in three different ways.

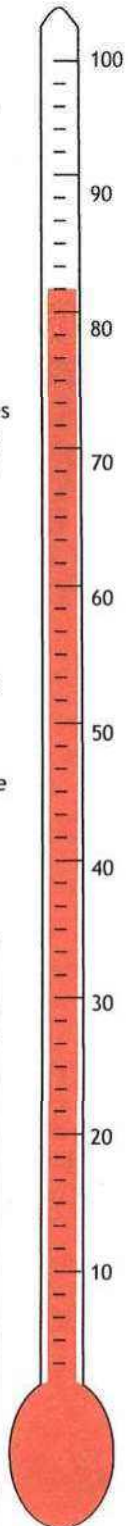
1. Go to <http://www.ashraerp.com> and click on "donate".
2. You can donate when you renew your membership on line. After you have made your selections for renewal the next page is for you to donate to ASHRAE funded items. About 3/4 of the way down the page you will see Research Promotion. Click "Add to Cart"
2. You can mail a check made out to ASHRAE Research to the Alaska ASHRAE Chapter mail box at PO Box 244503, Anchorage, AK 99524 and I will mail it into National for credit to you.

If you have already made a donation, your name should appear at the bottom of this page, if not, it should appear next month. If you do not see your name or your companies name next month, please let me know and I will locate your donation and ensure that it is accounted for.

Sincerely
Ruth Armstrong
RP Chair

2011-2012 Research Investors, Alaska Chapter ASHRAE

<u>Organizations</u>	<u>Individuals</u>	<u>Individuals</u>
<p><u>\$1000 & Over</u> RSA Engineering</p> <p><u>\$500—\$999</u> Adams Morganthaler & Co, Inc. Central Alaska Engineering Co. Coffman Engineers Design Alaska Stinebaugh & Co.</p> <p><u>\$150—\$499</u> Arctic Foundations, inc. EDC Incorporated</p> <p><u>Up to \$149</u></p>	<p><u>\$1000 & Over</u> Robert Heym</p> <p><u>\$250—\$999</u> Ruth Armstrong Jessi Cherry Robert Whealy, PE</p>	<p><u>\$100—\$249</u> Logan Creelman John Fortner Scott Hala Walter Heins William Henriksen Gregory Jernstrom Douglas LeCren Boyd Morganthaler Ginger Schaaf</p> <p><u>Up to \$100</u> Ray Sieber (RVC)</p>





Excerpts from Articles from ASHRAE's Regional Chair's Office

ASHRAE Introduces New Liquid Cooled Datacom Environmental Classes

ATLANTA - A new whitepaper that serves as the first vendor neutral thermal guideline for liquid cooled data processing environments is available for free download from ASHRAE.

"2011 Thermal Guidelines for Liquid Cooled Data Processing Environments" creates data center classes for liquid cooling that can enable fulltime economizers for a number of applications in many climates, according to Don Beaty, chair of the Publications Subcommittee of ASHRAE's Technical Committee (TC) 9.9, Mission Critical Facilities, Technology Spaces and Electronic Equipment.

"2011 Thermal Guidelines for Liquid Cooled Data Processing Environments" can be downloaded for free from the ASHRAE TC9.9 website at www.tc99.ashraetcs.org.

The increasing heat density of modern electronics is stretching the ability of air to adequately cool the electronic components within servers as well as the data center facilities that house these servers. To meet this challenge, the use of direct water or refrigerant cooling at the rack or board level is now being deployed. This trend of increasing heat densities combined with the interest in energy and waste heat recovery created the need for liquid cooling guidelines to help bridge the gap between IT equipment design and data center facility design, according to Beaty.

Five liquid cooling classes have been created:

- W1 - Facility Water Supply Temperature of 2 to 17 C
- W2 - Facility Water Supply Temperature of 2 to 27 C
- W3 - Facility Water Supply Temperature of 2 to 32 C
- W4 - Facility Water Supply Temperature of 2 to 45 C
- W5 - Facility Water Supply Temperature of > 45 C

In addition to the classes, the whitepaper provides insight into other considerations for liquid cooling including condensation, operation, water flow rates, pressure, velocity and quality as well as information on interface connections and infrastructure heat rejection devices.

This whitepaper follows an earlier whitepaper released in May 2011, "2011 Thermal Guidelines for Data Processing Environments - Expanded Data Center Classes and Usage Guidance," which addresses air cooling in data centers and created new data center environmental classes which expanded the opportunity for chiller-less data centers (fulltime economizers).

ASHRAE, founded in 1894, is an international organization of some 50,000 persons. ASHRAE fulfills its mission of advancing heating, ventilating, air conditioning and refrigerating to serve humanity and promote a sustainable world through research, standards writing, publishing and continuing education.

Don't forget to follow ASHRAE on your favorite media networks:

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Excerpts from Articles from ASHRAE's Regional Chair's Office



ASHRAE Announces the Seventh International Conference on Cold Climate and Call for Papers

ATLANTA—ASHRAE, along with HVAC&R, architecture, interior design and building construction industry colleagues from around the world, will host the seventh International HVAC Cold Climate Conference, Nov. 12-14, 2012, in Calgary, Alberta. Cold Climate HVAC 2012 will provide key elements of a strategy by which scientists, designers, engineers, manufacturers and other decision makers in cold climate regions can achieve good indoor environmental quality (IEQ), with a minimum use of resources and energy.

The range of topics includes energy and sustainability in arctic environments; building technology for people in the arctic; indoor environment and health; challenges for remote areas; cold climate building envelopes and moisture management; HVAC system operation and maintenance; and cold climate standards, codes, regulations and requirements.

The planning committee seeks papers featuring innovations in cold climate HVAC design. This includes new technologies and applications; improved methodologies, improvements to computational models or other design tools; novel methods of management, organization or quality assurance; and novel avenues of research or revised conceptual frameworks for designers.

Submit abstracts no longer than 350 words, which summarize the objectives, approach, results and conclusions of the proposed paper, and five to seven keywords by Dec. 1, 2011. Upon acceptance, papers will be due April 1, 2012. For specific topics, to submit a conference paper abstract or for more information go to www.ashrae.org/ColdClimate. For additional information, contact meetings@ashrae.org.

The Scandinavian Federation of Heating, Ventilation and Sanitary Engineering Associations (SCANVAC) initiated the series of Cold Climate HVAC Conferences. The six previous conferences have been successfully organized in Rovaniemi, Finland in 1994; Reykjavik, Iceland in 1997; Sapporo, Japan in 2000; Trondheim, Norway in 2003; Moscow, Russia in 2006; and Sisimiut, Greenland in 2009.

The series of congresses have earlier been supported by national HVAC societies, the Federation of European Heating, Ventilation and Air Condition Associations (RHEVA) and ASHRAE.



Excerpts from ASHRAE's Public Relations Office

ASHRAE and Penn State Partner on Building Efficiency Hub

Philadelphia A newly signed memorandum of understanding brings together ASHRAE and Pennsylvania State University (Penn State) to improve energy efficiency and reduce the environmental impact of buildings through the Greater Philadelphia Innovation Cluster (GPIC) for Energy-Efficient Buildings.

ASHRAE and Penn State signed the memorandum today to pursue common objectives related to GPIC. GPIC is a 24-member consortium, being led by Penn State, which has been designated as an Energy Innovation Hub of the U.S. Department of Energy and is located at the Navy Yard in Philadelphia, Pa. The goals of GPIC are to transform the building retrofit industry from serial fragmentation to integrated systems methods, to improve design tools, building systems, public policies, market incentives and workforce skills needed to achieve a 50 percent reduction of energy use in buildings, and to stimulate private investment and quality job creation in Greater Philadelphia and beyond.

ASHRAE is looking forward to working closely with Penn State and other GPIC members on improving energy efficiency and reducing carbon emissions, Ron Jarnagin, ASHRAE president, said. GPIC represents an exciting step forward in finding ways to increase energy efficiency. ASHRAE is happy to bring the knowledge and technical expertise of its volunteer members to the table to help create a broader knowledge of energy efficient and sustainable building practices.

ASHRAE brings a tremendous amount of technical knowledge and experience that will be very useful to the GPIC as we strive toward solving one of the nation's most serious energy problems by dramatically reducing energy consumption in commercial buildings. Together, we can create quality jobs in the region and boost the building industry, Henry Foley, executive director of the GPIC and vice president for research for Penn State, said.

ASHRAE will assist in the GPIC effort in several areas, including research, education, certification, standards and guidelines and by applying the society's Building Energy Quotient (bEQ) program to buildings at the Navy Yard. ASHRAE may also help obtain As-Designed and In-Operation bEQ ratings for buildings in Greater Philadelphia and can ensure that GPIC considers use of ASHRAE certifications to support its objectives.

ASHRAE, founded in 1894, is an international organization of some 50,000 people. ASHRAE fulfills its mission of advancing heating, ventilating, air conditioning and refrigerating to serve humanity and promote a sustainable world through research, standards writing, publishing and continuing education.



Excerpts from ASHRAE's Public Relations Office

Call for Posters, Keynote Speakers, ALI Course Announced for ASHRAE High Performance Building Conference

ATLANTA Application techniques, actual performance and policy issues for achieving high performance buildings with deep energy savings are addressed at ASHRAE's upcoming High Performance Buildings (HPB) Conference. Registration is now open.

High Performance Buildings: A Focus on Deep Energy Savings, advances the industry's efforts to change the energy-use aspects of the built environment. The conference takes place March 12-13, 2012, San Diego, Calif., and features 50 presentations in 16 sessions covering a broad range of HPB topics. To register or for more information, visit www.ashrae.org/HPBconference.

This is a must-attend conference for professionals, researchers and building owners involved in setting policy and applying best practices for energy efficiency in high performance buildings, conference chair and ASHRAE Presidential Member Kent Peterson, P.E., said. This specialty conference provides a great opportunity to network with the trend setters in building energy efficiency.

With an attendance limited to 300, the conference allows an exchange of ideas and dialogue to facilitate understanding of current energy saving efforts, share best practices and to establish an action plan to substantially improve energy efficiency in buildings.

The conference is presented by ASHRAE's High Performing Buildings Magazine, which publishes articles on measured high performance buildings only. The conference features three HPB case study sessions that include natural ventilation, net zero energy implementation, building controls, Germany's first LEED® Platinum building as well as schools, office buildings and a library.

In addition, a special HPB Magazine session features the editorial advisory board, sharing lessons they have learned from reporting on the experiences of the designers, contractors, suppliers and owners of buildings that have been featured in the magazine. In addition, case studies of selected buildings are presented.

Keynote speakers are:

Jeanne Clinton, special advisor for efficiency at the California Public Utilities Commission (CPUC), appointed by Governor Brown, speaking on Energy Management Meets Economic Development. Previously she was Governor Schwarzenegger's Clean Energy Advisor at the CPUC, during which time she led the California Solar Initiative and guided California's Long-Term Energy Efficiency Strategic Plan.

Eric Corey Freed, organicARCHITECT, San Francisco, will challenge attendees through his address, Dodo-Sapiens: How Our Way of Life is Killing Us and the Need for Regenerative, Bio-Based Buildings.

ASHRAE President Ron Jarnagin, who will discuss ASHRAE's High Performance Building Initiatives: Sustaining Leadership in Sustainability.

The Building Performance sessions address integrated measurement, operation and maintenance practices; thermal and visual performance; residential retrofits; design, operation and tenant behavior; and minimum ventilation rate procedure.

The Policy and Benchmarking sessions cover U.S. Army net zero policy initiatives; NSTAR HPB as a part of the State of Massachusetts energy efficiency goals; and CALGreen California's green building standards code.

The Low Energy Techniques Sessions cover net zero district vs. net zero buildings; the 50% Advanced Energy Design Guide for Small and Medium Office Buildings published by ASHRAE; biomimicry; and high temperature cooling techniques.



Excerpts from ASHRAE's Public Relations Office

DOE Updates National Reference Standard for Commercial Buildings to 90.1-2010

ATLANTA Following preliminary analysis that ASHRAE/IES's 2010 energy efficiency standard contains significant energy savings over the 2007 standard 18.2 percent source energy savings and 18.5 site energy savings the U.S. Department of Energy (DOE) has issued a ruling that establishes the 2010 standard as the commercial building reference standard for state building energy codes.

In an announcement in the Oct. 19 edition of The Federal Register, DOE attributes the greater energy savings to improvements in ANSI/ASHRAE/IESNA Standard 90.1-2010, Energy Standard for Buildings Except Low-Rise Residential Buildings, related to better lighting, daylighting, controls and building envelope and better mechanical systems and application to more systems.

With the Oct. 19 ruling, Standard 90.1-2010 serves as the commercial building reference standard for state building energy codes under the federal Energy Conservation and Production Act. As a result, states are required to certify by Oct. 18, 2013, that they have updated the provisions of their commercial building code regarding energy efficiency to meet or exceed 90.1-2010.

The foundation of energy efficient buildings continues to grow stronger with the news that DOE is now referencing the 2010 standard, Ron Jarnagin, ASHRAE president, said. ASHRAE hopes to make that foundation even stronger through our current work with IES developing the 2013 standard.

The DOE has determined that the quantitative analysis of the energy consumption of buildings built to Standard 90.1-2010, as compared to buildings built to Standard 90.1-2007, indicates national source energy savings of approximately 18.2 percent of commercial building consumption, according to DOE. Additionally, DOE has determined site energy savings are estimated to be approximately 18.5 percent.

The DOE noted that the newer version of the standard contains 19 positive impacts on energy efficiency. These impacts included changes made through the public review process in which users of the standard comment and offer guidance on proposed requirements. Specifically the positive impacts include:

Requirements for daylighting controls under skylights and commissioning of daylighting controls; increased use of heat recovery; cool roofs in hot climates; lower illuminance in certain exterior zones; skylights and daylighting in some building types; reduced ventilation energy; supply air temperature reset for non-peak conditions; efficiency requirements for data centers; lower lighting power densities; control of exterior lighting; occupancy sensor for many specific applications; daylighting control requirements for side-lighted spaces; and daylighting controls in more spaces.

Updated chiller efficiency requirements, extension of VAV fan control requirements, expansion of new lighting power densities to more retrofits and automatic damper requirements and use of economizers minimizes exceptions to switched receptacle requirement.

The ruling comes on the heels of a July announcement that established the 2007 standard as the commercial building reference standard for state building energy codes. The DOE noted that because the 2010 determination was published prior to the two-year deadline states have to demonstrate that their energy code meets or exceeds the stringency of the 2007 standard, states are allowed to file just one certification to address both determinations.

Since being developed in response to the energy crisis in the 1970s, Standard 90.1 now influences building designs worldwide. It has become the basis for building codes, and the standard for building design and construction throughout the United States. ASHRAE and IES publish a revised version of the standard every three years.



ENGINEERS WEEK® 2012

February 19-25

Chair:

Brian Dow, ASPE

Local Sponsors:

Alaska Society of Professional Engineers

American Society of Civil Engineers

American Society of Heating,
Refrigerating, and Air Conditioning
Engineers

American Society of Landscape
Architects

American Society of Mechanical
Engineers

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Engineers

Institute of Transportation Engineers

Society for Marketing Professional
Services

Society of American Military Engineers

Society of Petroleum Engineers

Society of Women Engineers

Visit www.eweek.org for a complete list
of national sponsors.

December 21, 2011

Dear, Sir/Madam.

Many challenges facing our world require immediate engineering solutions. We are also challenged to prepare the next generation of talent by helping to remove the social, education and economic barriers that deter young students from engineering and technology education and careers.

Locally, professional engineering organizations join together to deliver programs and events to educate the public and overcome these barriers as part of a larger national effort supported by the National Engineers Week Foundation. The Anchorage E-Week Steering Committee plans, organizes, and executes a variety of activities geared at education and outreach:

- Engineering companies and professional organizations display their projects and goals in a public setting to help educate the public about the important work engineers contribute to our society.
- Over an intense two-week time period, volunteers head into classrooms to share their jobs on a more personal level, exposing students of all backgrounds to engineering.
- Engineers from several disciplines share their work with high school students as part of a day-long tour of H2Oasis and the UAA School of Engineering.
- Volunteers also run a day of competitions geared towards students from kindergarten through high school. The competitions challenge students to apply reasoning and ingenuity to successfully navigate the competitions, important skills for future engineers.
- We award multiple scholarships to graduating high school seniors entering engineering degree programs each year.

Last year:

- 42 volunteers shared engineering with approximately 1,900 students in 64 classes over 9 days.
- 124 high school students from 9 schools participated in the student tour.
- Over 40 volunteers and 120 students participated in the competitions.
- We gave 6 scholarships totaling \$7,500.

Some of our activities are social in nature, but are no less important. The Bayou Bash allows us to celebrate engineering with our peers. The E-Week Banquet is the one time the engineers in our community, across many disciplines, come together to celebrate our accomplishments and those of our peers as part of the Engineer of the Year efforts. We also encourage the next generation of engineers by recognizing students across Alaska for their achievements at the Banquet.

Our outreach and influence are accomplished through generous donations of time, supplies, and funds. We are asking you to help us continue the efforts of our volunteers and programs by joining us in support of Engineers Week and the future of engineering in Alaska!

Any amount is welcomed and appreciated! You can give the funds unspecified so they can be used where needed most or help support our scholarship efforts. Just complete the attached pledge form and send it in with your donation by Wednesday, February 1, 2012 so we can recognize you during our E-Week activities and events!

If you have any questions about E-Week and how your funds will enrich our efforts, please contact Karthik Murugesan at kmurugesan@uskh.com or 343-5229 or Melissa Branch at branchm@eeiteam.com or 563-3835.

Sincerely,

Karthik Murugesan
E-Week Fundraising Co-Chair
President, Alaska Section
Institute of Transportation Engineers

Melissa A. (Mormilo) Branch, P.E.
E-Week Fundraising Co-Chair
President, Greatland Section
Society of Women Engineers



E-Week 2012 Pledge Form (Due Feb 1st)

Company Name _____

Company Address _____

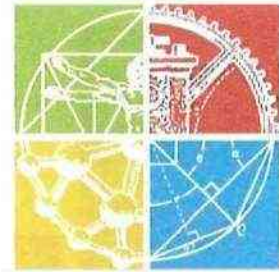
Company Phone _____

Contact Person _____

Donation Amount

General _____ (payable to *Anchorage E-Week*)

Scholarship _____ (payable to *Alaska Engineering Education Foundation*)



**ENGINEERS
WEEK® 2012**
February 19-25

Send donations by February 1, 2012 to:

Anchorage E-Week
c/o Gerry R. Brown
4300 E. 145th Avenue
Anchorage, AK 99516-4101

Thank you for supporting E-Week 2012!

Giving Levels

Leadership	Diamond	Platinum	Gold	Silver
\$1,000 or more	\$500 - \$999	\$300 - \$499	\$200 - \$299	\$100 - \$199

Each level comes with its own bragging rights, including special recognition at the Banquet and written acknowledgement in our Banquet program and in the Alaska Designs publication.

Typical Event Costs

(approximate)

Student Tour Transportation (\$1,300)
Student Tour Lunch (\$600)
Banquet Invite Printing (\$2,600)
Banquet Invite Postage (\$1,200)
EOTY Plaques (\$2,000)
Student Competition Medals (\$800)

Student Competition Supplies (\$2,400)
Student Competitions Volunteers Lunch (\$500)
Banquet Speaker (1,000)
Bayou Bash Building Rental (\$800)
Student Sponsorship to attend Banquet (\$1,000)
Scholarships (\$10,000)



LOCAL YOUTH ENGINEERING



FIRST Lego League Volunteer Positions

THANK YOU!!! Volunteers are the key to our tournament success!
Contact Becca @ 523-2334 or rparks@jedc.org to sign-up or to request more information.

JUDGES - Robot Design Judges, Core Values Judges, Research Project Judges, Roaming Judge

The judging panel should reflect a cross section of the population and be objective with all judging decisions. These men and women serve as role models to the participants through their actions and frequent interactions during the event, most significantly during the team presentations. Robot Design Judges should have some programming and design experience. Research Judges should have some background in the science behind the challenge (this year is Food Safety). Judges must commit to attending an hour-long training session in addition to the entire tournament day, starting with morning orientation and remaining through the closing ceremonies. All judges will be provided with a Judges' Handbook with current judging standards and awards descriptions.

Judge Assistants

Judge assistants will queue waiting teams in the judging area and make sure that the individual judging rooms stay on schedule. These volunteers get to see the quieter side of an FLL tournament are invited to step into the judging areas to see a session or two. This is a great role for someone who is interested in judging, but not ready to jump into it quite yet. This is also a great role for someone who has no experience with FLL.

Judge Runners

Judge runners help make sure that teams get to their judging sessions on time! These volunteers will often literally "run" to go find a team and escort them to the judging area under the direction of the Judging Area Manager.

Referees

Referees must commit to a 1-2 hour training session before the event in addition to individual time spent reviewing the game rules before the competition. Referees must also commit to the full tournament day, arriving for the morning orientation and remaining through the closing ceremony.

Field Resetter (½ day shifts possible with more volunteers)

Field resetters are responsible for resetting the table after each competition match. This volunteer will be standing all day, but not need to move around much.

Timekeeper (day shift possible with more volunteers)

Timekeeper starts and resets clock for each match and monitors transition time to keep the tournament running on schedule.

Team Queuer (½ day shifts possible with more volunteers)

These volunteers make sure that teams are ready to go in the competition area. This is a great way to be close to the robot action and have a chance to meet all the teams. Queuers are generally on their feet all day.

Scoresheet Runner (½ day shifts)

Scoresheet runner takes the scoresheets from the referee to the scorekeeper at the end of each match. This is a great role for younger volunteers that aren't on a team but want to be close to the action!



LOCAL YOUTH ENGINEERING

Score Keeper

This volunteer calculates team scores for each match based on scoresheets filled out by the referees. It would be great to have someone who is spreadsheet & number savvy for this role!

Pit Manager

This volunteer is the key to keeping the tournament on schedule! He/She needs to be a strong leader with great organizational skills. This person will coordinate with the Head Team Queuer and the Judging Assistants, with the help of the other queuers and pit runners, to get all the teams where they need to be at the right time. This position should be filled with someone who has experience volunteering at an FLL tournament.

Pit Runner

These volunteers need to wear their sneakers and be ready for a long day on their feet! The pit runners assist the pit manager with helping teams get to the right place at the right time and help out wherever needed throughout the course of the day. This is a great way to get to know the teams and get a complete tournament feel—perfect for a first time volunteer!

Practice Table Manager (½ day shifts possible)

These volunteers will monitor the practice tables in the pit area to ensure that all the missions remain in tact and participants are following FLL Core Values while using the table. This is a great role for a parent and/or first time volunteer.

Registration Manager

This volunteer will be in charge of all of the materials at the volunteer table and should be experience with FLL. They will be responsible for setting up and cleaning the registration table and being the first point of contact for logistics questions (scheduling, locations, etc).

Registration

These volunteers help at the beginning of the tournament to sign teams in, collect participant forms and explain the schedule and pit area map to teams. These volunteers should all be present in the morning and can work out their shifts throughout the day.

Play-by-Play Announcer

This person is the visible, audible host for the event and should be well-spoken, enthusiastic, and have knowledge about FIRST Lego League and the season's Challenge and its rules. The Emcee should be particularly familiar with FLL Core Values and communicate those throughout the day and must have a LOT of energy!

DJ

The DJ keeps the energy of the tournament going by playing high-energy, age-appropriate music throughout the tournament. The DJ will work with the technical director and the emcee to coordinate music with announcements. The DJ is also responsible for bringing a recording of the national anthem for the opening ceremony.

Photographer & Videographer

We want to document these great events! Unfortunately, the lighting in the tournament area makes this a rough role for an amateur. Please let us know if you have experience and can help! Ideally, we'd like to make videos & photos of the event available for sale to help raise funds for next year.

Sponsored by





Hot Gas Bypass

LOCAL YOUTH ENGINEERING



FIRST Tech Challenge (FTC) creates powerful relationships between the young people who compete and the Volunteers and Mentors who help. Volunteers and Mentors come from all walks of life and play an important role in inspiring young people. They get much more in return.

What can you do as a volunteer?

- Mentor a team (2x/week to once a month)
- Volunteer at an FTC event (event day only)
- Judge or Referee (1.2 training sessions + event day)
- Spread the word! (email, facebook, twitter, etc...)



FTC Mentors/Coaches

- Provide valuable one-on-one interaction that develops a full range of technical and interpersonal skills among team members
- Share your life-experience, skills, and abilities
- Foster a spirit of teamwork, hard-work, and innovation, value of others and respect for the individual
- Instill in young people a sense of accomplishment
- Are respected and admired by FTC team members

Special Thanks to BP!
Alaska's Lead Corporate Sponsor for *FIRST*[®]





LOCAL YOUTH ENGINEERING

UPCOMING EVENTS

FTC Anchorage Qualifying Tournament

Friday December 9 & Saturday December 10 @ Bartlett High School

FTC Alaska State Championship Tournament

Friday March 2 & Saturday March 3 @ University of Alaska, Fairbanks

CONTACTS

FTC Operational Partner – Juneau Economic Development Council

Rebecca Parks

rparks@jedc.org

907.523.2334

ANCHORAGE HIGH SCHOOLS

Bartlett High School

Rosanne Thornely

Thornley_Rosanne@asdk12.org

South High School

Chuck Strauss

Strauss_Chuck@asdk12.org

Chugiak High School

TBD - It could be you!

907.742.3050

Service High School

Kelly Webster

Webster_Kelly@asdk12.org

Dimond High School

Wade Roach

Roach_Wade@asdk12.org

West High School

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zartmann_andrew@asdk12.org

Eagle River High School

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East High School

Heather Roach

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Highland Tech High

Ginger Blackmon

blackmon_ginger@asdk12.org



ASHRAE Alaska Chapter would like to Thank our Business Support

 <p>Alaska's Premiere Mechanical, Electrical, Plumbing and Telecommunications Engineering Firm Adams, Morgenthaler and Company, Inc. 701 East Tudor Road, Suite 250—Anchorage, AK 99503 Phone: 907-257-9100—Fax: 907-257-9191 www.amc-engineers.com— info@amc-engineers.com</p>	<p>Russel "Rusty" West Alaska Sales Manager</p> <p>Office: 425-774-6602 Direct Line: 425-977-2139 Mobile: 206-909-3664 Fax: 425-775-2272</p>  <p>Email: rwest@coleindust.com</p> <p>5924 - 203rd Street Southwest • Lynnwood • WA • 98036 Serving the Pacific Northwest for over 40 years</p>
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 <p>Featuring controls by: AUTOMATEDLOGIC CORPORATION</p> <p>Jessi Cherry Sales Specialist Energy Management & Control Systems</p> <p>Phone: (907) 279-3320 Fax: (907) 279-2369 jessi.cherry@msicontrols.com</p>	 <p>MECHANICAL AND ELECTRICAL CONSULTING ENGINEERS</p> <p>2822 ARCTIC BOULEVARD SUITE 200 ANCHORAGE, AK 99501 (907) 276-0021 101 STANFORD AVENUE SUITE 100 WADLIA, AK 99564 (907) 367-1521</p>    <p>DESIGNING FACILITIES IN ALASKA FOR OVER 25 YEARS</p>
 <p>5730 B Street • Anchorage, AK 99518 phone: 907.345.8021 • fax: 907.345.8022 www.stinebaugh.com</p> <p>Engineered HVAC Solutions for Alaska</p>	<p>Serving All of Alaska</p> <ul style="list-style-type: none"> • Filtration • Heating • Plumbing • Ventilation  <p>3901 Spenard Road Anchorage, Alaska 99517 -3002 Phone: (907) 248-0000 Fax: (907) 243-3206 www.akwinter.com</p> <p>Ruth Armstrong Cell: (907) 230-0219 e-mail: ruth@akwinter.com</p>
<p>Jeff Robinson Service & Installation Division Manager 365-2514 jrobinson@klebsheating.com</p> <p>365-2500 fax 365-2540 www.klebsheating.com</p>  <p>Heating Plumbing Air Quality</p> <p>1107 E 72nd Avenue, Anchorage, Alaska 99518</p>	 <p>6657 Greenwood Street Anchorage, AK 99518 Office: (907) 562-2608 Fax: (907) 562-0503 www.GoPSI.com</p> <p>TROY NIBERT Branch Manager</p> <p>Cellular: (907) 223-8830 Email: inibert@proctorsales.com</p>

This page will be continually updated. Please get your business card in for the year of 2011. Business cards run from June to June for \$100.00 per year. Please send your photo-ready card to lcreelman@mail.ashrae.org. Or if you would like to update your existing business card please contact Logan Creelman.



ASHRAE Alaska Chapter would like to Thank our Business Support

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This page will be continually updated. Please get your business card in for the year of 2012. Business cards run from June 2011 to June 2012 for \$100.00 per year.

Please send your photo-ready card to lcreelman@mail.ashrae.org

Or if you would like to update your existing business card please contact Logan Creelman.

(Program Announcement Continued from page 2)

Topics for this meetings program from Dena Strait and Scott Waterman with Alaska Housing Finance Corporation include, but are not limited to:

1. REAL program - Retrofit Energy Assessment for Loans program. This program has benchmarked roughly 1200 to 1500 publicly owned facilities across Alaska. Of those buildings approximately 350 are receiving Investment Grade Audits from either AHFC, or with AHFC funds through the University of Alaska, Department of Transportation or Alaska Native Tribal Health Corporation.
2. AEERLF - This is a \$250 million revolving loan fund through Alaska Housing Finance Corporation available to publicly owned facilities across the state.
3. ARIS - Alaska Retrofit Information System. This is a database that holds all the building models and IGAs done on the 350 publicly owned facilities listed above. AHFC works with various research entities to glean data from ARIS.
4. AkWarm - free energy modeling program developed by AHFC and used in Investment Grade Audits noted above. There is both a **commercial** and residential version of this software.
5. Energy codes - AHFC requires IECC 2009 with Alaska amendments for any work financed by AHFC. We also advise the legislature on adoption of codes and requirements to be adopted by the state.
6. SB (Senate Bill) 220 - requires all state owned buildings to track their energy use in ARIS.
7. Cascadia Classes - AHFC is working with Cascadia Green Building Council to develop a set of ten classes to be offered to designers, engineers, policy makers, developers and contractors during 2012. A list of the classes to be offered is below.

- | | |
|---|--|
| ◇ Introduction and History to Green Building and Environmental Issues | ◇ High Performance Envelope Design |
| ◇ Understanding Building Energy use/Building Behavior | ◇ Climate Responsive Design in Cold Climates |
| ◇ The economics of Energy Efficiency - Financial Costs and Benefits | ◇ Energy Modeling as a Design Tool |
| ◇ Policy and Codes that support Efficiency | ◇ Building for Efficiency: The Role of Contractors |
| | ◇ Energy Efficient Retrofits of Existing Buildings |
| | ◇ Commissioning and Retro-commissioning |



Hot Gas Bypass

Excerpts from ASHRAE's Public Relations Office

(Continued from page 10)

Bottom-line results are addressed in the Return on Investment Session with business case studies on net zero energy buildings in San Diego and Phoenix; financial metrics for comparing efficiency and renewables projects; Caltech's Energy Conservation Investment Program; and life-cycle commissioning.

Other sessions cover envelopes, lighting/daylighting, plug loads, operations and integrated building design.

Registration cost is \$650 (\$550, ASHRAE, U.S. Green Building Council and American Institute of Architects members). An on-demand Virtual Conference is included with the registration fee. A Virtual Conference only registration is \$149 (\$99, member). The conference will be approved for AIA LUs, PDHs and LEED AP credits.

Also being offered in conjunction with the conference is an ASHRAE Learning Institute seminar, Implementing Standard 189.1-2009 for High-Performance Green Buildings, which focuses on the minimum requirements for the design, construction and plans for operating high-performance buildings. The seminar takes place on March 11, and the cost is \$485 (\$395 ASHRAE, U.S. Green Building Council and American Institute of Architects members). Attendees can save \$100 on the seminar cost if registering for both the seminar and the conference.

Call for Posters

Poster presentations are requested for high performance buildings that may be either in design or completed, and will be grouped in two categories: those with one year or more of measured energy data and those relying on modeled energy use. Submissions are particularly encouraged for projects that:

- Emphasize innovative strategies to dramatically improve energy efficiency
- Demonstrate replicable strategies
- Share valuable lessons learned
- Have one year or more of measured energy data

Poster proposals are due Jan. 9, 2012, and decisions will be made as posters are submitted. Accepted posters will be displayed at the conference. Poster presenters receive a discounted registration rate of \$500, (\$400, members). To download the poster template or for more information, visit www.ashrae.org/HPBconference.

ASHRAE, founded in 1894, is an international organization of some 50,000 persons. ASHRAE fulfills its mission of advancing heating, ventilation, air conditioning and refrigeration to serve humanity and promote a sustainable world through research, standards writing, publishing and continuing education.



Until Next Time...

Happy New Year 2012!

Please be safe this year when out in the snow and remember to bring the right gear. Thank you to Brian Yonkoske for showing us around the Eklutna Water Treatment Facility and answering our questions last meeting!

According to Alaska Daily News, "The weather service counts a snow year from July to June. From July 1 through Tuesday, Anchorage has received an official 81.3 inches of snow at the airport measuring station. Meteorologist Shaun Baines said that makes it the snowiest period for Anchorage since records have been kept.

If the pace keeps up through the last snows in April or May, Anchorage is on track to have the snowiest winter ever, surpassing the previous record of 132.8 inches in 1954-55, Baines said."



"I grew up thinking of snow as a luxury you visit."

~John Landis

According to NOAA the top 5 highest Daily snowfall for Anchorage are as follows:

Top 5 Highest Winter Snowfall (Normal = 69.5 inches)

- 132.8 inches.....1954-1955
- 128.8 inches.....1955-1956
- 121.5 inches.....1994-1995
- 111.5 inches.....2003-2004
- 111.0 inches.....1948-1949

I was out of town for the a week to visit family in Kodiak and came home to find my rig under 5 feet of snow.

If you would like to feature your business card in this section from June 2011 to June 2012 please e-mail me with a photo-ready business card. The fee is \$100 per year.

Also, if you would like to change your existing business card please contact me, because every month that section is continually updated.

If there is anything you would like to share in the Hot Gas Bypass please feel free to contact me.

Thank you.



ASHRAE Alaska Chapter #122
Logan Creelman

Acting Secretary—ASHRAE 2011
Cell (907)306-9292



Visit us on the web at:
www.alaska.ashraechapters.org

ASHRAE-Alaska
Chapter

C/O Editor
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ASHRAE-Alaska Chapter

Hot Gas Bypass

Shaping Tomorrow's Built Environment Today

February 2012

Anchorage Meeting Information

Date: Thursday, February 16, 2012

Location:
Crowne Plaza Hotel on the corner of International Airport Rd. & C St.

Time:
Networking/Social: 5:30pm
Dinner: 6:00pm
Meeting: 6:30 pm
Program: 7:00 pm

IAPMO and ASHRAE Joint Meeting
"Certification for No Hub Couplings and Underground Installation of PVC Pipe"
by Dennis Setzer

Cost:
Members: \$35.00
Students: \$10.00

Alaska Chapter Officers/Chairs

Jessi Cherry, President
jessi.cherry@msicontrols.com

Ginger Schaaf, Vice-President
gschaaf@stinebaugh.com

Logan Creelman, Secretary
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Ruth Armstrong, Research Promotion
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Keith Reed, Historian
kreed@astalaska.com

President's Message

Happy Valentine's Day!

We had a very successful January meeting. Thank you to Dena Strait and Scott Waterman of the Alaska Housing Finance Corporation who gave a great presentation on Alaska Energy Programs.

"Shaping Tomorrow's Built Environment Today", is ASHRAE's new tagline that was released after the winter 2011 conference. ASHRAE has been going under a big transformation. Not only have they got a new tagline, but they also rolled out a new website and logo. Please take a look at the new face of ASHRAE at www.ashrae.org. Ron Jarnigan, ASHRAE President said, ". The new ASHRAE brand supports our focus on improving engineering standards and our market position as a community of engineers and related professionals united by knowledge, mission and a code of ethics to design, construct and operate better places for people to live, work and play".

This month's meeting will be a joint meeting with the International Association of Plumbing and Mechanical Officials (IAPMO). Our speaker will be Dennis Setzer with McWane Plumbing Group presenting Certification for No Hub Couplings and Underground Installation of PVC. This presentation will provide a focus on the NSF certification and process for the No Hub couplings for No Hub Cast Iron Pipe and the most recent revisions of the ASTM D2321 changes as it applies to underground installation of plastic/PVC pipe.

Thank you so much to IAPMO for the \$1,000 donation to Research Promotion! We appreciate your continued support and look forward to our joint meeting this week!

If you have any questions, concerns, or suggestions to better our chapter please feel free to contact me.

I hope to see you all at the February meeting!

Jessi Cherry

President, Alaska Chapter ASHRAE

jcherry@msicontrols.com

C/O Editor 
PO Box 244503
Anchorage, AK 99524-4503
Visit us on the web at:
www.alaska.ashraechapters.org

February 2012's Program

IAPMO and ASHRAE Joint Meeting Dennis Setzer

Certification for No Hub Couplings and Underground Installation of PVC Pipe

I would like to thank Dena Strait and Scott Waterman from Alaska Housing Finance Corporation for bringing such an engaging presentation last month! This month we would like to welcome Dennis Setzer with McWane Plumbing Group. This presentation will provide a focus on the NSF certification and process for the No Hub couplings for No Hub Cast Iron Pipe, and the most recent revisions of the ASTM D2321 changes as it applies to underground installation of plastic/PVC pipe.

Dennis began with McWane Inc. six years ago as a Northwestern Regional Sales Manager responsible for seven (7) NW states including Alaska. In 2009 he was promoted and joined the McWane Engineering Specifications Team. His primary duties were to call on all levels of Mechanical Engineers and City/State Inspectors and assist, as a resource, to assure that the specs being written and presented for cast iron pipe, fittings, and couplings were to code and using compliant materials as well as protecting the engineers and contractors liabilities in the field.

He has also worked as a Regional Manager with United Pipe and Supply, a wholesale distributor with 33 branches, from Clackamas Oregon, handling five divisions of HVAC, Water Works, Irrigation, Pump & Drilling, and Agriculture products.

As well, Dennis worked as a Western Division Manager for Sara Lee in their Dowe Egberts "On- Demand" liquid coffee division. I was heavy involved in installation, sales, distribution, new market development and set up. Our accounts involved food service accounts, hotels, convention centers, hospitals, nursing homes, prisons and correctional centers, casinos, restaurants, and all medium to high volume coffee users. They specialized in high volume delivery using food grade stainless steel pipe and fittings, containers, high volume coffee containers, large volume water heaters/water boosters, and speciality high temperature water filtration. I was involved in the liquid coffee set up in Alaska for your northern pipe line.

RSVP NOW to reserve your seat!! Seating will be limited!!

Please RSVP to Logan Creelman lcreelman@mail.ashrae.org no later than NOON on Tuesday, February 14. This year our meetings will be located at the Crowne Plaza Hotel (109 W. International Road). The cost for the dinner meeting is \$35 with RSVP, \$40 without RSVP. If you RSVP and do not show up, you will be charged \$40. Please contact me if you find that you can no longer attend and need to cancel your RSVP.

Date: Thursday, February 16

Networking/Social: 5:30pm (join us at the Juno Restaurant in the Crowne Plaza Hotel)

Dinner: 6:00pm

Meeting: 6:30pm

Program: 7:00pm

Ginger Schaaf

Vice President - Programs Chair

907-345-8021

gschaaf@stinebaugh.com

General Membership Meeting Program Schedule

Please note the location of all meetings will be at the Crowne Plaza Hotel unless otherwise noted.

February Meeting:

Date/Time: February 16/6:00

Joint Meeting with IAPMO

Subject: Cast Iron Pipe and Fittings

Speaker (s): Dennis Setzer

March Meeting:

Date/Time: March 15/6:00

Subject: TBD

Speaker (s): Dennis Knight - ASHRAE Distinguished Lecturer

April Meeting:

Date/Time: April 19/6:00

Student Night

Subject: Anchorage Fish Hatchery Tour (*tentative*)

Speaker (s): TBD

May Meeting:

Date/Time: May 17/11:30 AM

LUNCH MEETING

Subject: TBD

Follow up to CRC

Speaker (s): TBD





Full-Day Chapter Professional Development Programs

Sign up for:	DAY	Price
<input type="checkbox"/> <i>Implementing Standard 189.1-2011 for High Performance Green Buildings</i> <i>Instructor: Tom Lawrence, Ph.D., P.E., University of Georgia</i>	April 3, 2012	\$250.00
<input type="checkbox"/> <i>Complying with ANSI/ASHRAE/IES Standard 90.1-2010</i> <i>Instructors: Mack Wallace, P.E., WiseWatt LLC, Joseph Deringer, AIA, Institute for Sustainable Performance of Bldgs</i>	April 4, 2012	\$250.00
<input type="checkbox"/> BOTH CLASSES FOR DISCOUNTED PRICE		\$400.00
	Subtotal:	_____
	Total:	_____

Company Name

Name

Address

Address

Address

Phone

All registration fees will be taken at the class

**Please send all inquiries about payment information to ASHRAE Treasurer Greg Jernstrom at:
gjernstrom@jernstromengineering.com**

Method of Payment _____

Visa Check MasterCard American Express

Excerpts from Articles from ASHRAE's CTTC Chapter Chair's Office

What is Chapter Technology Transfer Committee (CTTC)?

CTTC (www.ashrae.org/cttc) is an amalgamation of three old time ASHRAE chapter functions - programs, refrigeration and TEGA (technical, energy and government activities). ASHRAE's CTTC Committee is made up of representatives (Regional Vice Chairs) from ASHRAE's fourteen regions. CTTC reports to Members Council. CTTC aims to provide ASHRAE Chapters with:

- Chapter Chair training to inform Chapter Chairs about resources and programs available to help them make their Chapters successful
- tools, information and resources to develop, maintain and deliver high quality Chapter programs
- information about HVAC&R industry developments
- a conduit for communications between the grassroots (i.e., Chapter members) and the Society level committees that develop ASHRAE standards, write the ASHRAE handbooks and manage ASHRAE research projects.

Jeff Gatlin, who served on CTTC from 2008 to 2011 well-expressed the importance of CTTC Chapter Chairs to the overall health of ASHRAE when he said *"Without effective CTTC Chapter Chairs, Society fails. If we can't get people to a meeting in a well lit, comfortable location; with an engaging, easily understandable speaker; to hear a timely topic of broad interest; with a quality meal; and in a convenient location....they won't stay in ASHRAE nor encourage their colleagues to join (MP fails); they won't donate to research (RP fails); they won't encourage students or young engineers to participate (oops there go Student Activities and YEA). You get the point. We in the CTTC business are Society's contacts to the membership. WE make the first impression."*

In addition to providing Chapter Chair training at CRCs (Chapter Regional Conferences), CTTC administers the Distinguished Lecturer Program, ASHRAE Webcasts and ASHRAE's Technology Awards program.

ASHRAE's "Distinguished Lecturer" program (www.ashrae.org/distinguishedlecturers) identifies internationally recognized industry expert presenters who will make presentations to ASHRAE chapters. ASHRAE provides financial assistance for approved Distinguished Lecturer visits, enabling even small Chapters to occasionally host world class programs.

For the past several years, ASHRAE has hosted a three-hour webcast on a topic which the grassroots membership has identified as being of current interest. These webcasts are free to all, but require pre-registration. The April 2011 webcast was on ground source heat pumps. The 2012 webcast "Dedicated Outdoor Air Systems - A Path to Balancing Energy and IEQ" is scheduled for April 19. (www.ashrae.org/doeswebcast).

ASHRAE's Technology Award/Award of Engineering Excellence program (www.ashrae.org/technologyawards) recognizes ASHRAE members who design and/or conceive innovative technological concepts *that are proven through actual operating data*. Awards are given for new and retrofit applications for several categories of buildings, industrial facilities and processes. Chapter award winners can be submitted into Regional competitions, and Regional winners are invited to compete for Society level Awards. Applications are judged with respect to energy efficiency, indoor air quality, innovation & maintenance, cost effectiveness, environmental impact and quality of presentation. Society level award winners get written up in the ASHRAE Journal, publicity you just can't buy.

CTTC is also responsible for grassroots GA (Government Activities). ASHRAE encourages its Chapters to promote the adoption and enforcement of ASHRAE standards on energy efficiency, indoor air/environment quality, etc. to State, Provincial and local governments. In addition to improving building stock, universal adoption of specific codes and standards will reduce the complexity of rules and regulations faced by the design and construction communities.

Alaska Chapter CTTC Report

Continuing Education:

I'm setting up a seminar for April 2012 on complying with ANSI/ASHRAE/IESNA Standard 90.1-2010 and 189.1 for those who need PDH's. Due to the cost of the course we are looking at charging \$225.00 per person. The courses are scheduled full days and 6 PDH's. I need to get a head count of people interested in the course we will need at least 25 people to hold the seminar each day. Please email me if you are sure you will attend the seminar. If you have any questions please call or email me.

90.1-2010 and 189.1 seminars will be April 3rd and 4th from 8am till 4pm. More information will be provided later on the seminar.

Technology Award:

The chapter is trying to get individuals or companies to submit for the 2012 ASHRAE Technology Awards for the upcoming (CRC) Chapters Regional Conferences. The ASHRAE Technology Awards are not due till April 15th 2012. It would be great for someone to submit a project or two for the ASHRAE Technology Awards. Also to have a local individual or companies win the Award. As for the chapter we haven't submitted a Technology Award in over 7 years. Please let me know if you have any questions. Just email me and I'll send you the Technology Award Short Form.

Jeffery D. Hurd (CTTC)
Project Management/Civil Engineer I
Anchorage Water and Wastewater Utility
Work (907) 786-5526 Cell (907) 317-7285
Jeff.hurd@awwu.biz

Articles from ASHRAE's Public Relations Office

For more information on this month's articles please select the following links:

[Return to Chicago Sees High Attendance, Rebranding for ASHRAE](#)
[ASHRAE Recognizes Outstanding HVAC&R Industry Achievements](#)
[ASHRAE, IAPMO Sign MOU to Advance Built Environment Codes and Standards](#)
[2011 version of the Green Standard Now Available from ASHRAE, USGBC, IES](#)
["Master's or Equivalent" Movement Threatens Licensure Requirements](#)
[Best Practices To Improve Building Performance Focus Of ASHRAE High Performing Building Conference](#)

For more information on past articles please select the link for each of the following:

[ASHRAE Introduces New Liquid Cooled Datacom Environmental Classes](#)
[ASHRAE Announces the Seventh International Conference on Cold Climate and Call for Papers](#)
[ASHRAE and Penn State Partner on Building Efficiency Hub](#)
[Call for Posters, Keynote Speakers, ALI Course Announced for ASHRAE High Performance Building Conference](#)
[DOE Updates National Reference Standard for Commercial Buildings to 90.1-2010](#)
For information on past ASHRAE Press Releases for 2011 please select the following link:
[2011 Press Releases](#)

Continuing Education Credits made available to you from your local ASHRAE Alaska Chapter

February 2012

For more information please see the CTTC Report

Don't forget to follow ASHRAE on your favorite media networks:

facebook

twitter

LinkedIn



ASHRAE Student Chapter Report

With the start of this new semester, many engineering students are starting to get to work on design projects. This creates an opportunity for our chapter members to mentor and help out some of these design teams. The UAA mechanical engineering department is also hard at work building experiments and teaching labs for their new engineering lab. The department is looking for equipment donations, material, time and any other assistance our members or our members' companies can contribute to their cause. If you or your company would like to get involved, please contact me or Dr. Steffen Peuker.

The UAA Student Chapter has decided to change their meeting times due to conflicts with student chapter officers' class schedules. The chapter meetings will continue to be held on the third Thursday of every month for the most part. There is a slight change to the date of the March meeting due to spring break. The new meeting time has been change from 11:30 to 12:30 to 10 to 11:00 AM at the ANSEP building in room 103. The meeting schedule for the rest of the school year is as follows:

- February 16th, 10 to 11 AM
- March 8th, 10 to 11 AM
- April 19th, 10 to 11 AM

The UAA student chapter is always looking for presenters for their meetings. Our goal is to give the students a picture of the opportunities out there for new engineers. Anyone interested in doing a presentation about your business, new and exciting technology, engineering, being involved with ASHRAE, mechanical system design or other related topics please contact me.

I would also like to encourage our chapter members to reach out to the K-12 schools. It is important to help get students excited early about math, science and engineering. If you want to get involved and don't quite know how to get started, please contact me. I am always willing to make connections or help with other resources.

Sincerely,
 Michael D. Anderson
 Student Activities
 907.563.2242
mikeanderson@siemens.com

Region XI Executives

<u>Position</u>	<u>Name</u>	<u>E-mail</u>
Director & Region Chair	Erich Binder	erich.binder@worleyparsons.com
Assistant Regional Chair	Kevin Marple	kmarple@benzco.com
CTTC RVC and Nom. Com. Alt.	Eileen Jensen	nejensen@bpa.gov
Student RVC	Stefan Lidington	stefanl@oregonairreps.com
Membership RVC	Murdoch MacPherson	m.macpherson@mac-eng.ca
Research Promotion RVC	Ray Sieber	sieber@src.sk.ca
Young Engineers in ASHRAE (YEA)	Tariq Amlani	tariq.amlani@stantec.com
Regional Historian	Bill Dean	bill.dean@nrc-cnrc.gc.ca
Nominating Committee Member	Norm Grusnick	ngrusnick@ecomfg.com
Regional Treasurer	Rob Craddock	rob@inlandmetal.ca
Regional Web Master	Scott Bossert	sbossert@benzco.com
CRC 2010 Chair	Russell Lavitt	rlavitt@smseng.com

Research Promotion

*ASHRAE
Research*



*Today's Challenges
Tomorrow's Solutions*

Fellow ASHRAE Members,

Our RP Goal for this year has been raised to \$10,000.00. So far, we have already raised \$9,184.56 from donations. That means we are nearly 82% of the way there!

Planning is in the works for a 2nd Annual RP shoot out to be held in April 21, 2012. More details will be coming on that event as plans are finalized. This is shaping up to be a fun and exciting event with more shooting opportunities and a faster pace than last year. We are looking at a combination of sporting clays, skeet and trap shooting ranges being open to participants as well as a BBQ after the event. As details are finalized our committee will be sending out notices about sponsorship opportunities as well as sign-up sheets for participants/teams.

Every dollar counts toward our goal. You can elect to donate in three different ways.

1. Go to <http://www.ashraerp.com> and click on "donate".
2. 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"
2. You can mail a check made out to ASHRAE Research to the Alaska ASHRAE Chapter mail box at PO Box 244503, Anchorage, AK 99524 and I will mail it into National for credit to you.

If you have already made a donation, your name should appear at the bottom of this page, if not, it should appear next month. If you do not see your name or your companies name next month, please let me know and I will locate your donation and ensure that it is accounted for.

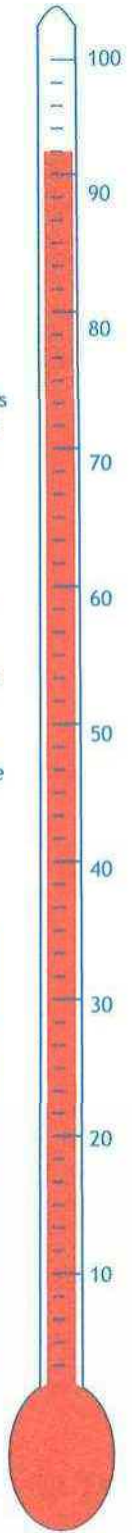
Sincerely
Ruth Armstrong
RP Chair

2011-2012 Research Investors, Alaska Chapter ASHRAE

<u>Organizations</u>
<u>\$1000 & Over</u> RSA Engineering IAPMO
<u>\$500—\$999</u> Adams Morganthaler & Co, Inc. Central Alaska Engineering Co. Coffman Engineers Design Alaska Stinebaugh & Co.
<u>\$150—\$499</u> Arctic Foundations, inc. EDC Incorporated
<u>Up to \$149</u>

<u>Individuals</u>
<u>\$1000 & Over</u> Robert Heym
<u>\$250—\$999</u> Ruth Armstrong Jessi Cherry Robert Whealy, PE

<u>Individuals</u>
<u>\$100—\$249</u> Logan Creelman John Fortner Scott Hala Walter Heins William Henriksen Gregory Jernstrom Douglas LeCren Boyd Morganthaler Ginger Schaaf
<u>Up to \$100</u> Ray Sieber (RVC)





Membership Report

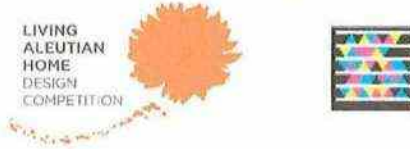
We have started off the new year with a nice increase in membership. We have 5 new members to introduce, Brett Allemann, Dave Wilts, Jeffrey Bates, John Kim and Sailor Williams. Please take a moment to welcome the new members at this month's meeting. Please don't forget paying your dues is only a click away at www.ashrae.org

See you at the meeting.
[Troy Nibert](#)
Membership Promotion

Join ASHRAE
www.ashrae.org/join

- Network with industry leaders
- Receive continuing education credits – PDHs and CEUs
- Gain access to technological advancements in building systems
- Receive member benefits like the ASHRAE Journal & Handbooks
- Support the industry that provides your livelihood

Local Design Competitions



- Imagine a creative, livable, affordable home. Now imagine it in Alaska.
- Join us in creating a model for a new era of Living Communities. First place prize of \$35,000, and the winning design will be built!

[Login](#)
[Register Your Team](#)

[Competition Details](#)

[About the Region](#)

[Map](#)

[FAQs](#)

[Living Building Challenge](#)

<p>Competition Details</p> <p>Competition Brief Terms and Conditions Submission Checklist</p>	<p>Timeline</p> <p>Competition Portal Opens October 1, 2011 Registration Deadline December 1, 2011 Contest Closes January 18, 2012</p>	<p>About the Region and Aleutian Housing Authority</p>
<p>Map</p> <p>Explore the region with Google Earth</p>	<p>FAQs</p> <p>Including site photos and other resources</p>	<p>Living Building Challenge</p> <p>Learn about the Challenge and Alaska full Mandar</p>

Competition News

[In rural Alaska, building a better house](#)

Alaska Dispatch, June 8, 2011

[Green construction challenge set in Aleutians](#)

Dutch Harbor Fisherman, May 31, 2011

[Groups Organize Global Contest to Design "Living Building"](#)

Alaska Public Radio Network, May 30, 2011



SCHEDULE OF EVENTS

Bayou Bash | Friday, February 17th, 6:00 pm - Viking Hall

Kick off E-Week with great food, drinks, music and door prizes.

Contact Becca Carroll or Mark Langberg at 907.257.9100 for tickets.

Exhibits | February 19-26 - University Center

Learn more about local engineering companies and societies.

Contact Leah Boltz at lboltz@bettisworthnorth.com for more information.

Student Tours | Friday, February 24th - H2Oasis and UAA

Buses pick students up from schools.

Contact Iain McPherson at iainmcperson@kinneyeng.com for more information.

School Presentations | February 21-March 2

Presentations by engineers in local classrooms.

Contact Nicole Knox at nknox@rmconsult.com for more information.

canstruction[®] | February 24-March 12 - University Center

Design and build structures made entirely from canned foods.

Contact Eric Voorhees at evoorhees@dowlhkn.com or Iris Matthews at iris@stellargp.com for more information.

Student Competitions | Saturday, February 18th - UAA Engineering Building

Fun, educational opportunities for students hosted by the UAA School of Engineering and sponsored

by local engineering societies.

Contact Zach Zaletel at zzaletel@gmail.com or Melissa Branch at branchm@eeiteam.com for more information.

Junior Engineer Scholarships

Scholarships for high school seniors who wish to pursue a degree in engineering.

Contact Laura Strand at Laura.Strand@north-slope.org or Erin Renfro at Erin.Renfro@nanavorleyparsons.com for more information.

Awards Banquet | Saturday, February 25th, 6:30 pm - Egan Center

Engineer-of-the-Year Award, Junior Engineer Scholarships, Guest Speaker is 2007 Engineer-of-the-Year

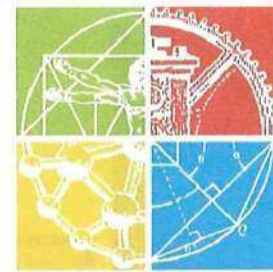
Dr. Alex Hills.

Contact Randy Kinney at randykinney@kinneyeng.com for reservations.



Volunteers Needed!!

To volunteer, contact 2012 E-Week Chair Brian Dow at dow@coffman.com.



ENGINEERS WEEK[®] 2012

February 19-25

National Engineers Week

(E-Week) is an annual event to bring public attention to the work and contributions of our nation's engineers. Anchorage's E-Week is filled with many exciting activities for adults and kids and numerous volunteer opportunities. Help enhance the image of engineering in our community by getting involved.

For more information about E-Week in Anchorage, check out our Facebook page.



LOCAL SPONSORING SOCIETIES*

Alaska Society of Professional Engineers | American Society of Civil Engineers | American Society of Heating, Refrigerating, and Air Conditioning Engineers | American Society of Landscape Architects | American Society of Mechanical Engineers | Institute of Electrical and Electronics Engineers | Institute of Transportation Engineers | Society for Marketing Professional Services | Society of American Military Engineers | Society of Petroleum Engineers |

*For information on sponsoring specific E-Week events or making a general financial contribution to E-Week, contact Karthik Murugesan at kmurugesan@uskh.com or Melissa Branch at branchm@eeiteam.com



Hot Gas Bypass

LOCAL YOUTH ENGINEERING



FIRST Lego League Volunteer Positions

THANK YOU!!! Volunteers are the key to our tournament success!
Contact Becca @ 523-2334 or rparks@jedc.org to sign-up or to request more information.

JUDGES - Robot Design Judges, Core Values Judges, Research Project Judges, Roaming Judge

The judging panel should reflect a cross section of the population and be objective with all judging decisions. These men and women serve as role models to the participants through their actions and frequent interactions during the event, most significantly during the team presentations. Robot Design Judges should have some programming and design experience. Research Judges should have some background in the science behind the challenge (this year is Food Safety). Judges must commit to attending an hour-long training session in addition to the entire tournament day, starting with morning orientation and remaining through the closing ceremonies. All judges will be provided with a Judges' Handbook with current judging standards and awards descriptions.

Judge Assistants

Judge assistants will queue waiting teams in the judging area and make sure that the individual judging rooms stay on schedule. These volunteers get to see the quieter side of an FLL tournament are invited to step into the judging areas to see a session or two. This is a great role for someone who is interested in judging, but not ready to jump into it quite yet. This is also a great role for someone who has no experience with FLL.

Judge Runners

Judge runners help make sure that teams get to their judging sessions on time! These volunteers will often literally "run" to go find a team and escort them to the judging area under the direction of the Judging Area Manager.

Referees

Referees must commit to a 1-2 hour training session before the event in addition to individual time spent reviewing the game rules before the competition. Referees must also commit to the full tournament day, arriving for the morning orientation and remaining through the closing ceremony.

Field Resetter (½ day shifts possible with more volunteers)

Field resetters are responsible for resetting the table after each competition match. This volunteer will be standing all day, but not need to move around much.

Timekeeper (day shift possible with more volunteers)

Timekeeper starts and resets clock for each match and monitors transition time to keep the tournament running on schedule.

Team Queuer (½ day shifts possible with more volunteers)

These volunteers make sure that teams are ready to go in the competition area. This is a great way to be close to the robot action and have a chance to meet all the teams. Queuers are generally on their feet all day.

Scoresheet Runner (½ day shifts)

Scoresheet runner takes the scoresheets from the referee to the scorekeeper at the end of each match. This is a great role for younger volunteers that aren't on a team but want to be close to the action!

LOCAL YOUTH ENGINEERING

Score Keeper

This volunteer calculates team scores for each match based on scoresheets filled out by the referees. It would be great to have someone who is spreadsheet & number savvy for this role!

Pit Manager

This volunteer is the key to keeping the tournament on schedule! He/She needs to be a strong leader with great organizational skills. This person will coordinate with the Head Team Queuer and the Judging Assistants, with the help of the other queuers and pit runners, to get all the teams where they need to be at the right time. This position should be filled with someone who has experience volunteering at an FLL tournament.

Pit Runner

These volunteers need to wear their sneakers and be ready for a long day on their feet! The pit runners assist the pit manager with helping teams get to the right place at the right time and help out wherever needed throughout the course of the day. This is a great way to get to know the teams and get a complete tournament feel—perfect for a first time volunteer!

Practice Table Manager (½ day shifts possible)

These volunteers will monitor the practice tables in the pit area to ensure that all the missions remain in tact and participants are following FLL Core Values while using the table. This is a great role for a parent and/or first time volunteer.

Registration Manager

This volunteer will be in charge of all of the materials at the volunteer table and should be experience with FLL. They will be responsible for setting up and cleaning the registration table and being the first point of contact for logistics questions (scheduling, locations, etc).

Registration

These volunteers help at the beginning of the tournament to sign teams in, collect participant forms and explain the schedule and pit area map to teams. These volunteers should all be present in the morning and can work out their shifts throughout the day.

Play-by-Play Announcer

This person is the visible, audible host for the event and should be well-spoken, enthusiastic, and have knowledge about FIRST Lego League and the season's Challenge and its rules. The Emcee should be particularly familiar with FLL Core Values and communicate those throughout the day and must have a LOT of energy!

DJ

The DJ keeps the energy of the tournament going by playing high-energy, age-appropriate music throughout the tournament. The DJ will work with the technical director and the emcee to coordinate music with announcements. The DJ is also responsible for bringing a recording of the national anthem for the opening ceremony.

Photographer & Videographer

We want to document these great events! Unfortunately, the lighting in the tournament area makes this a rough role for an amateur. Please let us know if you have experience and can help! Ideally, we'd like to make videos & photos of the event available for sale to help raise funds for next year.

Sponsored by
bp



LOCAL YOUTH ENGINEERING



FIRST Tech Challenge (FTC) creates powerful relationships between the young people who compete and the Volunteers and Mentors who help. Volunteers and Mentors come from all walks of life and play an important role in inspiring young people. They get much more in return.

<p>What can you do as a volunteer?</p> <ul style="list-style-type: none"> • Mentor a team (2x/week to once a month) • Volunteer at an FTC event (event day only) • Judge or Referee (1.2 training sessions + event day) • Spread the word! (email, facebook, twitter, etc...) 	<p>FTC Mentors/Coaches</p> <ul style="list-style-type: none"> • Provide valuable one-on-one interaction that develops a full range of technical and interpersonal skills among team members • Share your life-experience, skills, and abilities • Foster a spirit of teamwork, hard-work, and innovation, value of others and respect for the individual • Instill in young people a sense of accomplishment • Are respected and admired by FTC team members
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Special Thanks to BP!
Alaska's Lead Corporate Sponsor for *FIRST*[®]

LOCAL YOUTH ENGINEERING

UPCOMING EVENTS

FTC South Anchorage Qualifying Tournament Anchorage, AK
Friday February 10 & Saturday February 11 @ South Anchorage High School

FTC Southeast Alaska Qualifying Tournament Sitka, AK
Friday February 17 & Saturday February 18 @ Mt. Edgecumbe High School

FTC Alaska State Championship Tournament Fairbanks, AK
Friday March 2 & Saturday March 3 @ University of Alaska, Fairbanks

CONTACTS

FTC Operational Partner – Juneau Economic Development Council

Rebecca Parks
rparks@jedc.org
907.523.2334

ANCHORAGE HIGH SCHOOLS

Bartlett High School
Rosanne Thornely
Thornley_Rosanne@asdk12.org

South High School
Chuck Strauss
Strauss_Chuck@asdk12.org

Chugiak High School
TBD - It could be you!
907.742.3050

Service High School
Kelly Webster
Webster_Kelly@asdk12.org

Dimond High School
Wade Roach
Roach_Wade@asdk12.org

West High School
Andrew Zartmann
zartmann_andrew@asdk12.org

Eagle River High School
Lolly Rader
Rader_Lolly@asdk12.org

East High School
Heather Roach
Roach_Heather@asdk12.org

Highland Tech High
Ginger Blackmon
blackmon_ginger@asdk12.org

Hot Gas Bypass

ASHRAE Alaska Chapter would like to Thank our Business Support

<p style="text-align: center;">Alaska's Premiere Mechanical, Electrical, Plumbing and Telecommunications Engineering Firm</p> <p style="text-align: center;">Adams, Morgenthaler and Company, Inc. 701 East Tudor Road, Suite 250—Anchorage, AK 99503 Phone: 907-257-9100—Fax: 907-257-9191 www.amc-engineers.com— info@amc-engineers.com</p>	<p>Russel "Rusty" West Alaska Sales Manager</p> <p>Office: 425-774-6602 Direct Line: 425-977-2139 Mobile: 206-909-3664 Fax: 425-775-2272</p> <p style="text-align: center;">Email: rwest@coleindust.com</p> <p style="text-align: center;">5924 - 203rd Street Southwest • Lynnwood • WA • 98036 Serving the Pacific Northwest for over 40 years</p>
<p style="font-style: italic;">Simplify...</p> <p style="text-align: center; font-size: small;">Find all of your Architecture, Engineering, and Survey services in one place</p> <p style="text-align: center;">Since 1957</p> <p style="text-align: center;">mail@designalaska.com www.designalaska.com 1-800-668-8919 1-907-452-1241</p>	<p style="text-align: center;">Rick Loewen 201 East 54th Avenue Suite 100 Anchorage, AK 99518</p> <p style="text-align: center;">Andrew Lee phone (907) 561-4747 fax (907) 562-7473 www.jpsheldon.com</p>
<div style="background-color: #0070C0; color: white; padding: 5px; text-align: center;"> MERIDIAN SYSTEMS, INC. </div> <p style="text-align: center; font-size: small;">Featuring controls by: AUTOMATEDLOGIC CORPORATION</p> <p style="text-align: center;">Jessi Cherry Sales Specialist Energy Management & Control Systems</p> <p>Phone: (907) 279-3320 Fax: (907) 279-2369 jessi.cherry@msicontrol.com</p>	<div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center; font-size: large; margin: 0;">RSA Engineering, Inc.</p> <p style="text-align: center; font-size: small; margin: 0;">MECHANICAL AND ELECTRICAL CONSULTING ENGINEERS</p> <p style="text-align: center; font-size: x-small; margin: 0;">2322 ARCTIC BOULEVARD SUITE 200 ANCHORAGE, AK 99507 (907) 278-0241 111 EDWARDS AVENUE SUITE 100 WAILLITA, AK 99544 (907) 307-1521</p> </div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> </div> <p style="text-align: center; font-weight: bold; font-size: small;">DESIGNING FACILITIES IN ALASKA FOR OVER 25 YEARS</p>
<div style="text-align: center;"> </div> <p style="text-align: center; font-size: small; margin-top: 10px;">5730 B Street • Anchorage, AK 99518 phone: 907.345.8021 • fax: 907.345.8022 www.stinebaugh.com</p> <p style="text-align: center; font-weight: bold; font-size: small; margin-top: 10px;">Engineered HVAC Solutions for Alaska</p>	<p style="font-size: small;">Serving All of Alaska</p> <ul style="list-style-type: none"> • Filtration • Heating • Plumbing • Ventilation <div style="text-align: center; margin-top: 10px;"> <p style="font-size: x-small; margin: 0;">ALASKA WINTER, INC. MANUFACTURER'S REPRESENTATIVE</p> </div> <p style="text-align: center; font-size: small; margin-top: 10px;">3901 Spenard Road Anchorage, Alaska 99517 -3002 Phone: (907) 248-0000 Fax: (907) 243-3206 www.akwinter.com</p> <p style="text-align: center; margin-top: 10px;">Ruth Armstrong Cell: (907) 230-0219 e-mail: ruth@akwinter.com</p>
<p style="text-align: center; font-size: large; font-weight: bold; margin: 0;">Jeff Robinson</p> <p style="text-align: center; font-style: italic; font-size: small; margin: 0;">Service & Installation Division Manager</p> <p style="text-align: center; font-size: small; margin: 0;">365-2514 jrobinson@klebsheating.com</p> <p style="font-size: x-small; margin: 0;">365-2500 fax 365-2540 www.klebsheating.com</p> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p style="font-size: large; font-weight: bold; margin: 0;">KLEBS</p> <p style="font-size: x-small; margin: 0;">Heating Plumbing Air Quality</p> <p style="font-size: x-small; margin: 0;">1107 E 72nd Avenue, Anchorage, Alaska 99518</p> </div>	<div style="text-align: center; margin-bottom: 10px;"> <p style="font-size: x-small; margin: 0;">PROCTOR SALES INC PROCTOR SALES INC</p> </div> <p style="text-align: center; font-size: small; margin: 0;">6657 Greenwood Street Anchorage, AK 99518 Office: (907) 562-2608 Fax: (907) 562-0503 www.GoPSI.com</p> <p style="text-align: center; font-weight: bold; font-size: small; margin: 10px 0 0 0;">TROY NIBERT Branch Manager</p> <p style="text-align: center; font-size: x-small; margin: 0;">Cellular: (907) 223-8830 Email: tnibert@proctorsales.com</p>

This page will be continually updated. Please get your business card in for the year of 2011.
 Business cards run from June to June for \$100.00 per year.
 Please send your photo-ready card to lcreelman@mail.ashrae.org
 Or if you would like to update your existing business card please contact Logan Creelman.

ASHRAE Alaska Chapter would like to Thank our Business Support

 <p>Walter K. Heins, PE., CCP®, CEA <i>Senior Engineer, Mechanical Engineering Certified Commissioning Professional</i></p> <p>800 F Street Anchorage, AK 99501</p> <p>ph 907.276.6664 fax 907.276.5042</p> <p>ANCHORAGE HONOLULU SEATTLE LOS ANGELES SPOKANE</p> <p>e-mail heins@coffman.com coffman.com</p>	 <p>MECHANICAL SALES, INC.</p> <p>Glenn Evans 907-562-6940</p> <p>www.mechanicalsales.com</p>
	<p>MECHANICAL SALES, INC.</p> <p><i>Your Source For Green System Solutions</i></p> <p>1200 E. 76th, Unit 1221, Anchorage, AK 99518</p> <p>Main: 907-562-6940 Fax: 907-562-6939 Direct: 206-330-2257 gevans@mechanicalsales.com</p> <ul style="list-style-type: none"> ▶ Sustainability ▶ Efficiency ▶ Integration ▶ Value Added <p>www.mechanicalsales.com</p>

This page will be continually updated. Please get your business card in for the year of 2012. Business cards run from June 2011 to June 2012 for \$100.00 per year. Please send your photo-ready card to lcreelman@mail.ashrae.org. Or if you would like to update your existing business card please contact Logan Creelman.

Spring 2012 YEA Leadership Weekend

YEA Leadership Weekend is just around the corner...

Register today!

Are you interested in expanding your knowledge, meeting fellow members and having some fun along the way? Look no further than YEA Leadership Weekend!

YEA Leadership Weekend is an opportunity for you—the future leaders of ASHRAE—to learn more about Society, develop soft skills and network with other young professionals. This event will be held the weekend of March 30 - April 1, 2012, in San Diego, CA.



The event includes segments on understanding your own personality as well as other types, leadership development for young professionals, communication techniques and ASHRAE leadership opportunities. Objectives of leadership weekend are:

- Leadership
- Networking
- Communication
- Professional Development



YEA Leadership Weekend is a great opportunity for any YEA member. Registration is now open and will close on Friday, February 24, 2012. Only the first 30 registrants will be accepted, so don't wait to sign up!

You can learn more about this event at www.ashrae.org/YEALeadershipWeekend or e-mail your questions to Rhiannon Loomis at rloomis@ashrae.org.

Young Engineers in ASHRAE

www.ashrae.org/yea

Phone: (678) 539-1178

Fax: (404) 321-5478

We would love to hear from you!

E-mail: rloomis@ashrae.org

1791 Tullie Circle NE

Atlanta, GA 30329

Until Next Time...



"The intuitive mind is a sacred gift and the rational mind is a faithful servant. We have created a society that honors the servant and has forgotten the gift."

-Albert Einstein

ASHRAE Rebranding Issue!

As you all have noticed the ASHRAE logo has been updated. Please send me your comments about the new look of our Chapter Newsletter.

The cold is not over yet, so please be safe this year when out in the snow and remember to bring the right gear.

Thank you to Dena Strait and Scott Waterman with Alaska Housing Finance Corporation and answering our questions last meeting!

As a reminder National EWeek will be February 19th-25th and there are many volunteer opportunities available. If you

would like to show your support please contact Mike Anderson (contact information on page 4) and he will be able to point you in the right direction. The students will appreciate any and all support.



If you would like to feature your business card in this section from June 2011 to June 2012 please e-mail me with a photo-ready business card. The fee is \$100 per year.

Also, if you would like to change your existing business card please contact me, because every month that section is continually updated.

If there is anything you would like to share in the Hot Gas Bypass, please feel free to contact me.

Thank you.



ASHRAE Alaska Chapter #122

Logan Creelman

Acting Secretary - ASHRAE 2011

Cell (907)306-9292

Visit us on the web at:
www.alaska.ashraechapters.org



ASHRAE-Alaska
Chapter

C/O Editor
PO Box 244503
Anchorage, AK 99524-4503



Visit us on the web at:
www.alaska.ashraechapters.org



Alaska Chapter

Hot Gas Bypass

Shaping Tomorrow's Build Environment Today



March 2012

Anchorage Meeting

Information

Date: Thursday, March 22, 2012

Location:

Crowne Plaza Hotel on the corner of International Airport Rd. & C St.

Time:

Networking/Social: 5:30pm

Dinner: 6:00pm

Meeting: 6:30 pm

Program: 7:00 pm

"Building Information Modeling for the Mechanical Disciplines and Building Performance Analysis" by M. Dennis Knight, P.E., LEED PA, CCS, CXA ASHRAE Distinguished Lecturer

Cost:

Members: \$35.00

Students: \$10.00

Alaska Chapter

Officers/Chairs

Jessi Cherry, President

jessi.cherry@msicontrols.com

Ginger Schaaf, Vice-President

gschaaf@stinebaugh.com

Legan Greelman, Secretary

lcreelman742@gmail.com

Greg Jernstrom, Treasurer

gjernstrom@jernstromengineering.com

Robert Heym, Nominating

rheim@akwinter.com

Troy Nibert, Membership

tnibert@proctorsales.com

Jeff Hurd, Technology Transfer

jeff.hurd@awwu.biz

Ruth Armstrong, Research Promotion

ruth@akwinter.com

Keith Reed, Historian

kreed@ssialaska.com

President's Message

We had a very successful February meeting. The Alaska ASHRAE Chapter would like to say a special thank you to IAPMO for another successful joint meeting, and for their generous donation of \$1,000 to ASHRAE Research Promotion. Also, thank you to Dennis Setzer for a great presentation for the February Meeting.

Our meeting this month is on Thursday, March 22nd the presenter is Mr. M. Dennis Knight, P.E., LEED PA, CCS, CXA, and ASHRAE Distinguished Lecturer. Mr. Knight will be presenting, *Building Information Modeling (BIM) for the Mechanical Disciplines and Building Performance Analysis*. This presentation will focus on the value and uses of BIM to Owners, Architects, Engineers, and the community. We look forward to his presentation.

There are many events coming up for our Chapter. On April 3rd and 4th we will be hosting two courses: *Implementing Standard 189.1-2011 for High Performance Green Buildings*, instructed by Tom Lawrence, Ph.D., P.E., University of Georgia; and *Complying with ANSI/ASHRAE/IES Standard 90.1-2010*, instructed by Mack Wallace, P.E., WiseWatt, LLC. and Joseph Deringer, AIA, Institute for Sustainable Performance of Buildings. Both of these courses will be held at the Crowne Plaza Hotel (See page 3 for Registration Form). The 2nd Annual Research Promotion Shootout will be held on Friday, April 20th at the Birchwood Shooting Range (See page 4 for Registration Form). We hope to see everyone at both of these great events!

The ASHRAE Chapter Regional Conference is coming up on May 9-12 in Winnipeg, Manitoba, Canada. If anyone is interested in running for an ASHRAE Region XI Office please contact me. If you are interested in attending this event please visit <http://ashraemanitoba.ca/2012xi-conference> for more information.

If you have any questions, concerns, or suggestions to better our chapter please feel free to contact me.

I hope to see you all at the March meeting!

Jessi Cherry
President, Alaska Chapter ASHRAE
jcherry@msicontrols.com

C/O Editor



PO Box 244503

Anchorage, AK 99524-4503

Visit us on the web at:

www.alaska.ashraechapters.org

March 2012's Program

Building Information Modeling for the Mechanical Disciplines and Building Performance Analysis

Thank you to Dennis Setzer and the IAPMO group for a very well attended and received presentation! This month, we'd like to welcome Dennis Knight, an ASHRAE Distinguished Lecturer to our chapter. This presentation focuses on the value and uses of BIM to Owners, Architects, Engineers, and the community. It provides a consistent definition of BIM and provides the Mechanical Engineer with the information needed to begin the process of adopting and using BIM as an integrated design tool to optimize mechanical systems design, improve collaboration, minimize coordination errors and deliver better work products and results. It also provides Mechanical Engineers with the information they need have included in a BIM before they receive it so that they may take advantage of its value without having to spend unproductive time cleaning up corrupt or incomplete files and filling in missing information. M. Dennis Knight has 35 years of experience providing engineering, design and construction related services within the building industry. Active at the local, state and national levels with various agencies and professional societies, he works to help develop sustainable, integrated building design guidelines.

Nationally, as a member of ASHRAE, Mr. Knight is the Vice Chairman for Research Promotion and also serves as the Chair of Technical Committee (TC) 7.1 "Integrated Building Design" and serves on the ASHRAE BIM Steering Committee. He has also served as the President of the Charleston Chapter twice since he joined the Society in 1979. As Liollo Architecture's Principal and Director of Practice Management, Mr. Knight utilizes his extensive experience in the design and construction industries to assist the architectural and design professionals, project managers, business development department and corporate management within the firm and our consultants and clients in the preparation of construction documents (procurement documents, drawings and specifications) and contracts, performs code analysis and product research, prepares LEED Documentation, and prepares design and construction cost estimates. In addition he develops quality assurance checklists and guidelines to help facilitate interdisciplinary coordination during the design and construction phases of a project.

Prior to joining Liollo Architecture, Dennis was an owner and managing member of a local engineering and construction company for 23 years. He strives to facilitate the integration of each element and discipline required in a project, with consideration for the life-cycle costs and benefits related to those elements, so that all the pieces and parts of a design work together in concert with each other and their surroundings.

Mr. Knight holds an assortment of professional registrations and accreditations. He is a Registered Professional Engineer in South Carolina, North Carolina, Georgia, and Wisconsin. He is a LEED Accredited Professional and is affiliated with the US Green Building Council. Mr. Knight is also a CSI Certified Construction Document Technologist and Constructional Specialist, as well as a ACG Certified Commissioning Authority.

AWARDS AND HONORS

- US Green Building Council South Carolina Chapter Leadership Award, 2008
- AIA Charleston Special Recognition for Outstanding Service to the Community and the Design Profession, 2008
- ASHRAE Research Promotion "Top Dog" Award, 2005, for directing the most successful Research Fund-raising Campaign in all of Society
- Engineer of the Year Award, 2003 Charleston Joint Engineers Society
- Past President Charleston Chapter ASHRAE 1986 and 2000
- Chairman, Construction Board of Adjustments and Appeals, Town of Mt. Pleasant, SC, 1999

RSVP NOW to reserve your seat!! Seating will be limited!!

Please RSVP to Logan Creelman (lcreelman742@gmail.com) no later than NOON on Tuesday, March 20. This year our meetings will be located at the Crowne Plaza Hotel (109 W. International Road). The cost for the dinner meeting is \$35 with RSVP, \$40 without RSVP. If you RSVP and do not show up, you will be charged \$40. Please contact Logan if you find that you can no longer attend and need to cancel your RSVP.

Meeting Date: Thursday, March 22, 2012

Networking/Social: 5:30pm (join us at the Juno Restaurant in the Crowne Plaza Hotel)

Dinner and Meeting: 6:00pm

Program: 7:00pm

Ginger Schaaf

Vice President - Programs Chair

907-345-8021

gschaaf@stinebaugh.com

General Membership Meeting Program Schedule

Please note the location of all meetings will be at the Crowne Plaza Hotel unless otherwise noted.

April Meeting:

Date/Time: April 19/5:30

Student Night

Subject: Anchorage Fish Hatchery Tour

Speaker (s): TBD

May Meeting:

Date/Time: May 17/11:30 AM

LUNCH MEETING

Subject: TBD/Follow up to CRC

Speaker (s): TBD



Full-Day Chapter Professional Development Programs
 Classes Start at 8:30 AM (Lunch will be provided for each class.)

Sign up for:	DAY	Price
<input type="checkbox"/> <i>Implementing Standard 189.1-2011 for High Performance Green Buildings</i> <i>Instructor: Tom Lawrence, Ph.D., P.E., University of Georgia</i>	April 3, 2012	\$250.00
<input type="checkbox"/> <i>Complying with ANSI/ASHRAE/IES Standard 90.1-2010</i> <i>Instructors: Mack Wallace, P.E., WiseWatt LLC, Joseph Deringer, AIA, Institute for Sustainable Performance of Bldgs</i>	April 4, 2012	\$250.00
<input type="checkbox"/> BOTH CLASSES FOR DISCOUNTED PRICE		\$400.00
	Subtotal:	_____
	Total:	_____

Company Name _____

Name _____

Address _____

Phone _____

All registration fees will be taken at the class

Please send all inquiries about payment information to ASHRAE Treasurer Greg Jernstrom at:

gjernstrom@jernstromengineering.com

Method of Payment _____

Visa

Check

MasterCard

American Express



ASHRAE—Alaska Chapter Presents:



ASHRAE Research Promotion

RP SHOOTOUT

Date: Friday April 20, 2012
Where: Birchwood Recreation & Shooting Park
Time: 1:00-5:00 PM

Event:

- 1) 5 member teams will be competing in 3 rounds of skeet.
- 2) Each team member will be provided with 3 boxes of ammunition.
- 3) Snacks will be available.

Cost: \$100 per person.

Benefit: All proceeds go to benefit ASHRAE Research Promotion

Shooters:

- 1) _____
- 2) _____
- 3) _____
- 4) _____
- 5) _____

Payment Method (Please Circle): Credit Card Check

If Check, make payable to: "ASHRAE Research and Promotion"

Credit Card Number: _____

Credit Card Expiration Date: _____

Billing Zip Code: _____

Name on Card: _____

Contact Phone Number: _____

"The path of the righteous man is beset on all sides by the inequities of the selfish and the tyranny of evil men. Blessed is he who, in the name of charity and good will, shepherds the weak through the valley of the darkness, for he is truly his brother's keeper and the finder of lost children. And I will strike down upon thee with great vengeance and furious anger those who attempt to poison and destroy my brothers. And you will know my name is The Lord when I lay my vengeance upon thee!" - Ezekiel 25:17 (via Alan Watts)



Please fill out form and send to Ruth Armstrong
RP Chair: ruth@akwinter.com



Research Promotion

*ASHRAE
Research*



*Today's Challenges
Tomorrow's Solutions*

Fellow ASHRAE Members,

Our RP Goal for this year has been raised to \$10,000.00. So far, we have already raised \$9,184.56 from donations. That means we are nearly 82% of the way there!

Planning is in the works for a 2nd Annual RP shoot out to be held on April 20, 2012. More details will be coming on that event as plans are finalized (See page 4 for Registration Form). This is shaping up to be a fun and exciting event with more shooting opportunities and a faster pace than last year. We are looking at a combination of sporting clays, skeet and trap shooting ranges being open to participants as well as a BBQ after the event. As details are finalized our committee will be sending out notices about sponsorship opportunities as well as sign-up sheets for participants/teams.

Every dollar counts toward our goal. You can elect to donate in three different ways.

1. Go to <http://www.ashraerp.com> and click on "donate".
2. 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"
3. You can mail a check made out to ASHRAE Research to the Alaska ASHRAE Chapter mail box at PO Box 244503, Anchorage, AK 99524 and I will mail it into National for credit to you.

If you have already made a donation, your name should appear at the bottom of this page, if not, it should appear next month. If you do not see your name or your companies name next month, please let me know and I will locate your donation and ensure that it is accounted for.

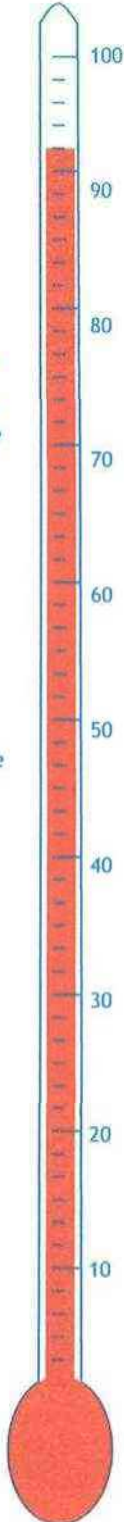
Sincerely
Ruth Armstrong
RP Chair

2011-2012 Research Investors, Alaska Chapter ASHRAE

<u>Organizations</u>
<u>\$1000 & Over</u> RSA Engineering IAPMO
<u>\$500—\$999</u> Adams Morganthaler & Co, Inc. Central Alaska Engineering Co. Coffman Engineers Design Alaska Stinebaugh & Co.
<u>\$150—\$499</u> Arctic Foundations, inc. EDC Incorporated
<u>Up to \$149</u>

<u>Individuals</u>
<u>\$1000 & Over</u> Robert Heym
<u>\$250—\$999</u> Ruth Armstrong Jessi Cherry Robert Whealy, PE

<u>Individuals</u>
<u>\$100—\$249</u> Logan Creelman John Fortner Scott Hala Walter Heins William Henriksen Gregory Jernstrom Douglas LeCren Boyd Morganthaler Ginger Schaaf
<u>Up to \$100</u> Ray Sieber (RVC)



Excerpts from Articles from ASHRAE's CTTC Chapter Chair's Office

What is Chapter Technology Transfer Committee (CTTC)?

CTTC (www.ashrae.org/cttc) is an amalgamation of three old time ASHRAE chapter functions - programs, refrigeration and TEGA (technical, energy and government activities). ASHRAE's CTT Committee is made up of representatives (Regional Vice Chairs) from ASHRAE's fourteen regions. CTTC reports to Members Council. CTTC aims to provide ASHRAE Chapters with:

- Chapter Chair training to inform Chapter Chairs about resources and programs available to help them make their Chapters successful
- tools, information and resources to develop, maintain and deliver high quality Chapter programs
- information about HVAC&R industry developments
- a conduit for communications between the grassroots (i.e., Chapter members) and the Society level committees that develop ASHRAE standards, write the ASHRAE handbooks and manage ASHRAE research projects.

Jeff Gatlin, who served on CTTC from 2008 to 2011 well-expressed the importance of CTTC Chapter Chairs to the overall health of ASHRAE when he said *"Without effective CTTC Chapter Chairs, Society fails. If we can't get people to a meeting in a well lit, comfortable location; with an engaging, easily understandable speaker; to hear a timely topic of broad interest; with a quality meal; and in a convenient location....they won't stay in ASHRAE nor encourage their colleagues to join (MP fails); they won't donate to research (RP fails); they won't encourage students or young engineers to participate (oops there go Student Activities and YEA). You get the point. We in the CTTC business are Society's contacts to the membership. WE make the first impression."*

In addition to providing Chapter Chair training at CRCs (Chapter Regional Conferences), CTTC administers the Distinguished Lecturer Program, ASHRAE Webcasts and ASHRAE's Technology Awards program.

ASHRAE's "Distinguished Lecturer" program (www.ashrae.org/distinguishedlecturers) identifies internationally recognized industry expert presenters who will make presentations to ASHRAE chapters. ASHRAE provides financial assistance for approved Distinguished Lecturer visits, enabling even small Chapters to occasionally host world class programs.

For the past several years, ASHRAE has hosted a three-hour webcast on a topic which the grassroots membership has identified as being of current interest. These webcasts are free to all, but require pre-registration. The April 2011 webcast was on ground source heat pumps. The 2012 webcast "Dedicated Outdoor Air Systems - A Path to Balancing Energy and IEQ" is scheduled for April 19. (www.ashrae.org/doeswebcast).

ASHRAE's Technology Award/Award of Engineering Excellence program (www.ashrae.org/technologyawards) recognizes ASHRAE members who design and/or conceive innovative technological concepts *that are proven through actual operating data*. Awards are given for new and retrofit applications for several categories of buildings, industrial facilities and processes. Chapter award winners can be submitted into Regional competitions, and Regional winners are invited to compete for Society level Awards. Applications are judged with respect to energy efficiency, indoor air quality, innovation, operation & maintenance, cost effectiveness, environmental impact and quality of presentation. Society level award winners get written up in the ASHRAE Journal, publicity you just can't buy.

CTTC is also responsible for grassroots GA (Government Activities). ASHRAE encourages its Chapters to promote the adoption and enforcement of ASHRAE standards on energy efficiency, indoor air/environment quality, etc. to State, Provincial and local governments. In addition to improving building stock, universal adoption of specific codes and standards will reduce the complexity of rules and regulations faced by the design and construction communities.

Alaska Chapter CTTC Report

Continuing Education:

The seminars ANSI/ASHRAE/IESNA Standard 90.1-2010 and 189.1-2011 for those who need PDH's are scheduled for April 3rd and 4th. Due to the cost of the course we are looking at charging \$250.00 per seminar or \$400.00 for both seminars. The courses are scheduled full days and 6 PDH's. I need to get a head count of people interested in the course so we will know for the size room needed each day. Please email me if you are sure you will attend the seminar. If you have any questions please call or email me.

90.1-2010 and 189.1 seminars will be April 3rd and 4th from 8:30am till 4:30pm. More information will be provided later on the seminar.

Technology Award:

The chapter is trying to get individuals or companies to submit for the 2012 ASHRAE Technology Awards for the upcoming (CRC) Chapters Regional Conferences. The ASHRAE Technology Awards are not due till April 15th 2012. It would be great for someone to submit a project or two for the ASHRAE Technology Awards. Also to have a local individual or companies win the Award. As for the chapter we haven't submitted a Technology Award in over 7 years. Please let me know if you have any questions. Just email me and I'll send you the Technology Award Short Form.

Jeffery D. Hurd (CTTC)
Project Management/Civil Engineer I
Anchorage Water and Wastewater Utility
Work (907) 786-5526 Cell (907) 317-7285
Jeff.hurd@awwu.biz

Articles from ASHRAE's Public Relations Office

For more information on this month's articles please select the following links:

[Free ASHRAE Webcast Highlights Dedicated Outdoor Air Systems; Registration Opens March 19](#)

For more information on past articles please select the link for each of the following:

[Return to Chicago Sees High Attendance, Rebranding for ASHRAE](#)

[ASHRAE Recognizes Outstanding HVAC&R Industry Achievements](#)

[ASHRAE, IAPMO Sign MOU to Advance Built Environment Codes and Standards](#)

[2011 version of the Green Standard Now Available from ASHRAE, USGBC, IES](#)

["Master's or Equivalent" Movement Threatens Licensure Requirements](#)

[Best Practices To Improve Building Performance Focus Of ASHRAE High Performing Building Conference](#)

[ASHRAE Introduces New Liquid Cooled Datacom Environmental Classes](#)

[ASHRAE Announces the Seventh International Conference on Cold Climate and Call for Papers](#)

[ASHRAE and Penn State Partner on Building Efficiency Hub](#)

[Call for Posters, Keynote Speakers, ALI Course Announced for ASHRAE High Performance Building Conference](#)

[DOE Updates National Reference Standard for Commercial Buildings to 90.1-2010](#)

For information on past ASHRAE Press Releases for 2011 please select the following link:
[2011 Press Releases](#)

Continuing Education Credits

made available to you from your local ASHRAE Alaska Chapter

February 2012

For more information please see the CTTC Report

Don't forget to follow ASHRAE on your favorite media networks:

facebook

twitter

LinkedIn

ASHRAE Student Chapter Report

Tours, tours and more tours! The UAA student chapter would like to thank the UAA maintenance staff for their recent tour of the ice rink refrigeration system at the Wells Fargo Sports complex. The students learned a lot and were able to see some of the equipment and systems they will be studying. The students have another building tour of the new UAA Health Science Building Scheduled for March 22nd from 10 to 11 AM. The students are already excited for the upcoming Hatchery tour in April. Several have already signed up and we hope to see a good turnout.

The UAA student chapter is always looking for presenters for their meetings. Our goal is to give the students a picture of the opportunities out there for new engineers. Anyone interested in doing a presentation about your business, new and exciting technology, engineering, being involved with ASHRAE, mechanical system design or other related topics please contact me.

I would also like to encourage our chapter members to reach out to the K-12 schools. It is important to help get students excited early about math, science and engineering. If you want to get involved and don't quite know how to get started, please contact me. I would like to thank some of those who have been getting involved in the past month. Meridian systems recently did a presentation for a fifth grade class at Rabbit Creek Elementary on DDC controls. There have also been several more of our members contributing to the FIRST robotics competitions. Thank you all. I am always willing to make connections or help with other resources.

Sincerely,
 Michael D. Anderson
 Student Activities
 907.563.2242
mikeanderson@siemens.com

Region XI Executives

<u>Position</u>	<u>Name</u>	<u>E-mail</u>
Director & Region Chair	Erich Binder	erich.binder@worleyparsons.com
Assistant Regional Chair	Kevin Marple	kmarple@benzco.com
CTTC RVC and Nom. Com. Alt.	Eileen Jensen	nejensen@bpa.gov
Student RVC	Stefan Lidington	stefanl@oregonairreps.com
Membership RVC	Murdoch MacPherson	m.macpherson@mac-eng.ca
Research Promotion RVC	Ray Sieber	sieber@src.sk.ca
Young Engineers in ASHRAE (YEA)	Tariq Amlani	tariq.amlani@stantec.com
Regional Historian	Bill Dean	bill.dean@nrc-cnrc.gc.ca
Nominating Committee Member	Norm Grusnick	ngrusnick@ecomfg.com
Regional Treasurer	Rob Craddock	rob@inlandmetal.ca
Regional Web Master	Scott Bossert	sbossert@benzco.com
CRC 2010 Chair	Russell Lavitt	rlavitt@smseng.com

Membership Report

No new members to report this month. Mechanical engineers make up the majority of our members, but ASHRAE's relevance isn't limited to the mechanical systems design field. People in your office are great candidates for membership, but consider also others you work with on projects day to day. Architects, contractors, vendors and end users all can benefit from the presentations, materials, and networking opportunities that ASHRAE affords. See you at this month's meeting.

[Troy Nibert](#)
Membership Promotion
Cell: 907-223-8830

Join ASHRAE

www.ashrae.org/join

- Network with industry leaders
- Receive continuing education credits – PDHs and CEUs
- Gain access to technological advancements in building systems
- Receive member benefits like the ASHRAE Journal & Handbooks
- Support the industry that provides your livelihood

Local Design Competitions



•Imagine a creative, livable, affordable home. Now imagine it in Alaska.

•Join us in creating a model for a new era of Living Communities. First place prize of \$35,000, and the winning design will be built!

[Login](#)
[Register Your Team](#)

[Competition Details](#)

[About the Region](#)

[Map](#)

[FAQs](#)

[Living Building Challenge](#)



Competition News

[In rural Alaska, building a better house](#)

Alaska Dispatch, June 8, 2011

[Green construction challenge set in Aleutians](#)

Dutch Harbor Fisherman, May 31, 2011

[Groups Organize Global Contest to Design "Living Building"](#)

Alaska Public Radio Network, May 30, 2011



LOCAL YOUTH ENGINEERING



FIRST Lego League Volunteer Positions

THANK YOU!!! Volunteers are the key to our tournament success!
Contact Becca @ 523-2334 or rparks@jedc.org to sign-up or to request more information.

JUDGES - Robot Design Judges, Core Values Judges, Research Project Judges, Roaming Judge

The judging panel should reflect a cross section of the population and be objective with all judging decisions. These men and women serve as role models to the participants through their actions and frequent interactions during the event, most significantly during the team presentations. Robot Design Judges should have some programming and design experience. Research Judges should have some background in the science behind the challenge (this year is Food Safety). Judges must commit to attending an hour-long training session in addition to the entire tournament day, starting with morning orientation and remaining through the closing ceremonies. All judges will be provided with a Judges' Handbook with current judging standards and awards descriptions.

Judge Assistants

Judge assistants will queue waiting teams in the judging area and make sure that the individual judging rooms stay on schedule. These volunteers get to see the quieter side of an FLL tournament are invited to step into the judging areas to see a session or two. This is a great role for someone who is interested in judging, but not ready to jump into it quite yet. This is also a great role for someone who has no experience with FLL.

Judge Runners

Judge runners help make sure that teams get to their judging sessions on time! These volunteers will often literally "run" to go find a team and escort them to the judging area under the direction of the Judging Area Manager.

Referees

Referees must commit to a 1-2 hour training session before the event in addition to individual time spent reviewing the game rules before the competition. Referees must also commit to the full tournament day, arriving for the morning orientation and remaining through the closing ceremony.

Field Resetter (½ day shifts possible with more volunteers)

Field resetters are responsible for resetting the table after each competition match. This volunteer will be standing all day, but not need to move around much.

Timekeeper (day shift possible with more volunteers)

Timekeeper starts and resets clock for each match and monitors transition time to keep the tournament running on schedule.

Team Queuer (½ day shifts possible with more volunteers)

These volunteers make sure that teams are ready to go in the competition area. This is a great way to be close to the robot action and have a chance to meet all the teams. Queuers are generally on their feet all day.

Scoresheet Runner (½ day shifts)

Scoresheet runner takes the scoresheets from the referee to the scorekeeper at the end of each match. This is a great role for younger volunteers that aren't on a team but want to be close to the action!

LOCAL YOUTH ENGINEERING

Score Keeper

This volunteer calculates team scores for each match based on scoresheets filled out by the referees. It would be great to have someone who is spreadsheet & number savvy for this role!

Pit Manager

This volunteer is the key to keeping the tournament on schedule! He/She needs to be a strong leader with great organizational skills. This person will coordinate with the Head Team Queuer and the Judging Assistants, with the help of the other queuers and pit runners, to get all the teams where they need to be at the right time. This position should be filled with someone who has experience volunteering at an FLL tournament.

Pit Runner

These volunteers need to wear their sneakers and be ready for a long day on their feet! The pit runners assist the pit manager with helping teams get to the right place at the right time and help out wherever needed throughout the course of the day. This is a great way to get to know the teams and get a complete tournament feel—perfect for a first time volunteer!

Practice Table Manager (½ day shifts possible)

These volunteers will monitor the practice tables in the pit area to ensure that all the missions remain in tact and participants are following FLL Core Values while using the table. This is a great role for a parent and/or first time volunteer.

Registration Manager

This volunteer will be in charge of all of the materials at the volunteer table and should have experience with FLL. They will be responsible for setting up and cleaning the registration table and being the first point of contact for logistics questions (scheduling, locations, etc).

Registration

These volunteers help at the beginning of the tournament to sign teams in, collect participant forms and explain the schedule and pit area map to teams. These volunteers should all be present in the morning and can work out their shifts throughout the day.

Play-by-Play Announcer

This person is the visible, audible host for the event and should be well-spoken, enthusiastic, and have knowledge about FIRST Lego League and the season's Challenge and its rules. The Emcee should be particularly familiar with FLL Core Values and communicate those throughout the day and must have a LOT of energy!

DJ

The DJ keeps the energy of the tournament going by playing high-energy, age-appropriate music throughout the tournament. The DJ will work with the technical director and the emcee to coordinate music with announcements. The DJ is also responsible for bringing a recording of the national anthem for the opening ceremony.

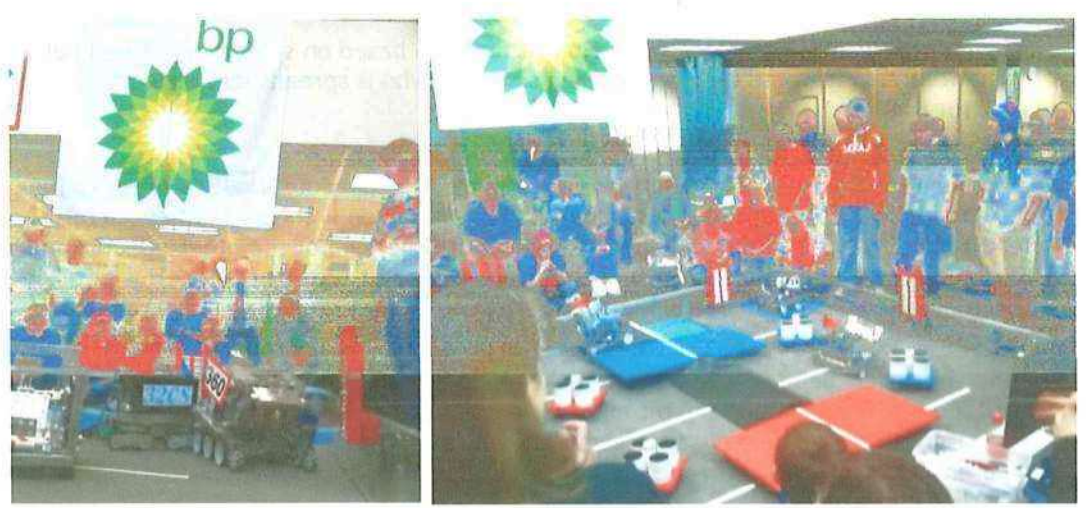
Photographer & Videographer

We want to document these great events! Unfortunately, the lighting in the tournament area makes this a rough role for an amateur. Please let us know if you have experience and can help! Ideally, we'd like to make videos & photos of the event available for sale to help raise funds for next year.

Sponsored by



LOCAL YOUTH ENGINEERING



FIRST Tech Challenge (FTC) creates powerful relationships between the young people who compete and the Volunteers and Mentors who help. Volunteers and Mentors come from all walks of life and play an important role in inspiring young people. They get much more in return.

<p><u>What can you do as a volunteer?</u></p> <ul style="list-style-type: none"> • Mentor a team (2x/week to once a month) • Volunteer at an FTC event (event day only) • Judge or Referee (1.2 training sessions + event day) • Spread the word! (email, facebook, twitter, etc...)  <p>FTC FIRST Tech Challenge</p>	<p><u>FTC Mentors/Coaches</u></p> <ul style="list-style-type: none"> • Provide valuable one-on-one interaction that develops a full range of technical and interpersonal skills among team members • Share your life-experience, skills, and abilities • Foster a spirit of teamwork, hard-work, and innovation, value of others and respect for the individual • Instill in young people a sense of accomplishment • Are respected and admired by FTC team members
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Special Thanks to BP!

Alaska's Lead Corporate Sponsor for *FIRST*[®]

LOCAL YOUTH ENGINEERING

UPCOMING EVENTS

FTC South Anchorage Qualifying Tournament Anchorage, AK
Friday February 10 & Saturday February 11 @ South Anchorage High School

FTC Southeast Alaska Qualifying Tournament Sitka, AK
Friday February 17 & Saturday February 18 @ Mt. Edgecumbe High School

FTC Alaska State Championship Tournament Fairbanks, AK
Friday March 2 & Saturday March 3 @ University of Alaska, Fairbanks

CONTACTS

FTC Operational Partner – Juneau Economic Development Council

Rebecca Parks
rparks@jedc.org
907.523.2334

ANCHORAGE HIGH SCHOOLS

Bartlett High School
Rosanne Thornely
Thornley_Rosanne@asdk12.org

South High School
Chuck Strauss
Strauss_Chuck@asdk12.org

Chugiak High School
TBD - It could be you!
907.742.3050

Service High School
Kelly Webster
Webster_Kelly@asdk12.org

Dimond High School
Wade Roach
Roach_Wade@asdk12.org

West High School
Andrew Zartmann
zartmann_andrew@asdk12.org

Eagle River High School
Lolly Rader
Rader_Lolly@asdk12.org

East High School
Heather Roach
Roach_Heather@asdk12.org

Highland Tech High
Ginger Blackmon
blackmon_ginger@asdk12.org



Alaska Chapter

Hot Gas Bypass

Shaping Tomorrow's Build Environment Today

April 2012

Anchorage Meeting

Information

Date: Thursday, April 19, 2012

Location:

Anchorage Sport Fish Hatchery
941 North Reeve Boulevard
Anchorage, AK 99508
(Corner of Reeve Blvd. and Post Road)

Times:

Tour/Presentation begins between:
5:30pm and 6:00pm

Touring the Anchorage Sport Fish Hatchery with Hatchery Manager, Andrea Tesch

Cost:

Members: \$25.00
Students (Student Night): FREE

Alaska Chapter

Officers/Chairs

Jessi Cherry, President

jessi.cherry@msicontrols.com

Ginger Schaaf, Vice-President

gschaaf@stinebaugh.com

Logan Creelman, Secretary

richard.creelman@urs.com

Greg Jernstrom, Treasurer

gjernstrom@jernstromengineering.com

Robert Heym, Nominating

hime@akwinter.com

Troy Nibert, Membership

tnibert@proctorsales.com

Jeff Hurd, Technology Transfer

Jeff.hurd@awwu.biz

Ruth Armstrong, Research Promotion

ruth@akwinter.com

Keith Reed, Historian

lreed@ssiialaska.com

President's Message

Happy Spring!

We had a very successful March meeting. Thank you to Mr. M. Dennis Knight, P.E., LEED PA, CCS, CXA, and ASHRAE Distinguished Lecturer for a great presentation for the March Meeting.

On April 3rd and 4th we hosted two courses: *Implementing Standard 189.1-2011 for High Performance Green Buildings* and *Complying with ANSI/ASHRAE/IES Standard 90.1-2010*. Both of these courses were very well attended and informative. Thank you to Jeff Hurd, CTTC Chair, for coordinating both courses. Also, a big thank you to the three instructors: Tom Lawrence, Mack Wallace, and Joseph Deringer for coming all the way to Alaska to present on these topics. We hope to hold more events like these for the local ASHRAE Members.

Congratulations to the East High Robotics Team!!! All three teams competed at the Alaska State FIRST FTC Robotics Championship (Rookie Boys Team #3492, Rookie Girls Team #5358, and Veteran Team #3360). Team #3492 Team "Zip Tie"-Placed 7th. Team #5358 "The Nerdettes"-Placed 11th and Placed 3rd for the "Motivate Award". Team 3360's "Team Caffeine" Pleasded 1st for the "Connect Award", 1st for the "Promote Award", and Placed 2nd for the "Inspire Award". Their 2nd Place for the "Inspire Award" has earned them a spot at the World's Competition in St. Louis, MO from April 25-28th. Competition will be live streamed on the Web by NASA. ASHRAE Alaska Chapter is a proud sponsor of the robotics team and is so proud of all of East High Teams' accomplishments. If you are interested in sponsoring their team for the World's Competition or for next years' robotics competitions please contact me. Good luck at the World Competition! Go East! Check out www.usfirst.org for streaming link and to find out more information about the World Championship.

Our meeting this month is on Thursday, April 19th at the Anchorage Sport Fish Hatchery. Directions to the meeting are listed in the Program Announcement on the following page. This presentation will be lead by Hatchery Manager, Andrea Tesch, and other staff members at the Hatchery. This site tour is sure to be a fun! Remember to RSVP to Logan Creelman, Secretary, at lcreelman@mail.ashrae.org.

There are many events coming up for our Chapter. The 2nd Annual Research Promotion Shootout will be held on Friday, April 20th at the Birchwood Shooting Range. Also, the ASHRAE Golf Tournament will be held this summer, so please keep your eyes peeled for the registration form this summer. We hope to see everyone at both of these great events!

The ASHRAE Chapter Regional Conference is coming up on May 9-12 in Winnipeg, Manitoba, Canada. If anyone is interested in running for an ASHRAE Region XI Office please contact me. If you are interested in attending this event please visit <http://ashraemanitoba.ca/2012xi-conference> for more information.

If you have any questions, concerns, or suggestions to better our chapter please feel free to contact me. I hope to see you all at the April meeting!

Jessi Cherry
President, Alaska Chapter ASHRAE
jcherry@msicontrols.com

C/O Editor



PO Box 244503

Anchorage, AK 99524-4503

Visit us on the web at:

www.alaska.ashraechapters.org

April 2012's Program



Anchorage Sport Fish Hatchery Tour

This month we will be touring the Anchorage Sport Fish Hatchery. Hatchery Manager, Andrea Tesch, along with other members of her staff will lead our tour and provide us with a presentation on the project.

The 134,000+ square-foot facility is North America's largest enclosed sport fish hatchery. The hatchery raises more species of cold water fish in recirculating aquaculture systems than any other sport fish production facility in the United States. This aquaculture technology reduces the amount of freshwater needed to raise the same quantity of fish and energy required heat the water to an optimum fish-rearing temperature, while also reducing the amount of effluent water discharged from the hatchery. They have already begun raising king and silver salmon, rainbow trout, arctic char, lake trout and arctic grayling to be stocked into rivers and lakes throughout south central Alaska.

Note: The hatchery has requested that none of those touring the facility participate in any form of sport fishing the day of the tour.

RSVP NOW to reserve your place!!

Please RSVP to Logan Creelman lcreelman@mail.ashrae.org no later than NOON on Tuesday, April 17. Moose's Tooth pizza and soda and water will be provided for dinner during the presentation at the Hatchery, so *please* RSVP so that we have enough pizza for everyone. The cost for dinner is \$25.

Date: Thursday, April 19

Tours and Presentation begin: 5:30-6:00pm. We will have three separate legs of the tour/presentation going on simultaneously. The first 20 to arrive will begin on the floor.

Directions to the Facility: From 5th Avenue, go North on Reeve Blvd. Take a right turn into the facility before Post Road. If the parking lot is full, there is more parking available in the back of the facility. Please enter thru the "Visitor Entrance" doors.

Ginger Schaaf
Vice President - Programs Chair
907-345-8021
gschaaf@stinebaugh.com

General Membership Meeting Program Schedule

Please note the location of all meetings will be at the Crowne Plaza Hotel unless otherwise noted.

May Meeting:

Date/Time: May 17/11:30 AM

LUNCH MEETING

Subject: TBD/Follow up to CRC

Speaker (s): TBD

ASHRAE Student Chapter Report

Our next meeting is student night. We already have quite a few students already signed up to attend the chapter student night and hatchery tour. We have encouraged the students to tidy up their resumes, especially if they are looking for internships or post graduation employment. Student Night is an excellent opportunity to meet these bright young engineers. I encourage each of our chapter members attending the tour and student night to introduce yourself and meet these students.

The UAA student chapter is always looking for presenters for their meetings. Our goal is to give the students a picture of the opportunities out there for new engineers. Anyone interested in doing a presentation about your business, new and exciting technology, engineering, being involved with ASHRAE, mechanical system design or other related topics please contact me. The student chapter's last meeting for this school year will be Thursday April 19th, 10:00 to 11:00 A.M. in ANSEP RM 103 on the UAA Campus.

This month there is an opportunity for members to get involved with the student design competition at UAA. The engineering department is looking for judges to volunteer. Our chapter is also putting together an award for the competition, the ASHRAE Sustainable Design Award that we plan to award to the team that best meets the chapter's criteria. I would like to thank some of those who have been getting involved in the past month with students, in particular Doug LeCren for his presentations for the Mat-Su School District. If you or your company has contributed to the promotion of science, math and engineering for young people, we would like to hear about it. If you would like to get involved, I am always willing to make connections or help with other resources to make it happen.

Sincerely,
 Michael D. Anderson
 Student Activities
 907.563.2242
mikeanderson@siemens.com

Region XI Executives

<u>Position</u>	<u>Name</u>	<u>E-mail</u>
Director & Region Chair	Erich Binder	erich.binder@worleyparsons.com
Assistant Regional Chair	Kevin Marple	kmarple@benzco.com
CTTC RVC and Nom. Com. Alt.	Eileen Jensen	nejensen@bpa.gov
Student RVC	Stefan Lidington	stefanl@oregonairreps.com
Membership RVC	Murdoch MacPherson	m.macpherson@mac-eng.ca
Research Promotion RVC	Ray Sieber	sieber@src.sk.ca
Young Engineers in ASHRAE (YEA)	Tariq Amlani	tariq.amlani@stantec.com
Regional Historian	Bill Dean	bill.dean@nrc-cnrc.gc.ca
Nominating Committee Member	Norm Grusnick	ngrusnick@ecomfg.com
Regional Treasurer	Rob Craddock	rob@inlandmetal.ca
Regional Web Master	Scott Bossert	sbossert@benzco.com
CRC 2010 Chair	Russell Lavitt	rlavitt@smseng.com



ASHRAE—Alaska Chapter



Presents:

RP SHOOTOUT

ASHRAE Research Promotion

Date: Friday April 20, 2012
Where: Birchwood Recreation & Shooting Park
Time: Check-In is at 12:00 PM Shooting will begin at 1:00 PM

- Event:
- 1) 5 member teams will be competing in 1 round each of Trap, Skeet and 5 Stand
 - 2) Each team member will be provided with 3 boxes of ammunition.
 - 3) Snacks will be available.

Cost: \$100 per person.

Benefit: All proceeds go to benefit ASHRAE Research Promotion

Shooters:

- 1) _____
- 2) _____
- 3) _____
- 4) _____
- 5) _____

Range Sponsorship: \$125.00

Company Name for stand: _____

Ammunition Sponsor: \$450.00

Company/Individual Name: _____

Payment Method (Please Circle): Credit Card Check

If Check, make payable to: "ASHRAE Alaska Chapter"

Credit Card Number: _____

Credit Card Expiration Date: _____

Billing Zip Code: _____

Name on Card: _____

Contact Phone Number: _____



Please fill out form and send to Ruth Armstrong
RP Chair: ruth@akwinter.com



Research Promotion

*ASHRAE
Research*



*Today's Challenges
Tomorrow's Solutions*

Fellow ASHRAE Members,

Our RP Goal for this year has been raised to \$10,000.00. So far, we have already raised \$9,184.56 from donations. That means we are nearly 92% of the way there!

The 2nd Annual RP shoot out to be held on April 20, 2012. See page 4 for Registration Form. This is shaping up to be a fun and exciting event with more shooting opportunities and a faster pace than last year. We are looking at a combination of sporting clays, skeet and trap shooting ranges being open to participants. Notice there is also an opportunity to have your company recognized as a supporter of ASHRAE RP. Please sign up for your Range Sponsorship on the registration form. All shooter donations and range sponsorships must go through out local chapter so please make your checks payable to ASHRAE Alaska Chapter or note your credit card information on the attached registration form.

Every dollar counts toward our goal. You can elect to donate in three different ways.

1. Go to <http://www.ashraerp.com> and click on "donate".
2. 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"
3. You can mail a check made out to ASHRAE Research to the Alaska ASHRAE Chapter mail box at PO Box 244503, Anchorage, AK 99524 and I will mail it into National for credit to you.

If you have already made a donation, your name should appear at the bottom of this page, if not, it should appear next month. If you do not see your name or your companies name next month, please let me know and I will locate your donation and ensure that it is accounted for.

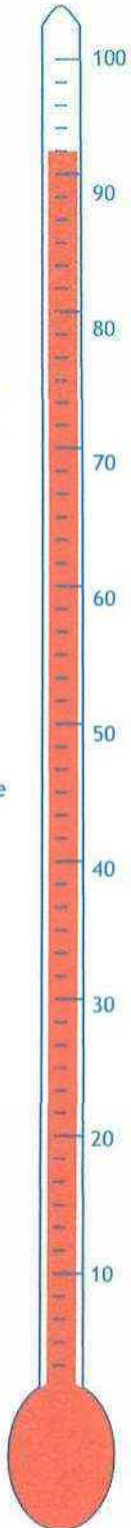
Sincerely
Ruth Armstrong

2011-2012 Research Investors, Alaska Chapter ASHRAE

<u>Organizations</u>
<u>\$1000 & Over</u> RSA Engineering IAPMO
<u>\$500—\$999</u> Adams Morganthaler & Co, Inc. Central Alaska Engineering Co. Coffman Engineers Design Alaska Stinebaugh & Co.
<u>\$150—\$499</u> Arctic Foundations, inc. EDC Incorporated
<u>Up to \$149</u>

<u>Individuals</u>
<u>\$1000 & Over</u> Robert Heym
<u>\$250—\$999</u> Ruth Armstrong Jessi Cherry Robert Whealy, PE

<u>Individuals</u>
<u>\$100—\$249</u> Logan Creelman John Fortner Scott Hala Walter Heins William Henriksen Gregory Jernstrom Douglas LeCren Boyd Morganthaler Ginger Schaaf
<u>Up to \$100</u> Ray Sieber (RVC)





Excerpts from Articles from ASHRAE's CTTC Chapter Chair's Office

What is Chapter Technology Transfer Committee (CTTC)?

CTTC (www.ashrae.org/cttc) is an amalgamation of three old time ASHRAE chapter functions - programs, refrigeration and TEGA (technical, energy and government activities). ASHRAE's CTTC Committee is made up of representatives (Regional Vice Chairs) from ASHRAE's fourteen regions. CTTC reports to Members Council. CTTC aims to provide ASHRAE Chapters with:

- Chapter Chair training to inform Chapter Chairs about resources and programs available to help them make their Chapters successful
- tools, information and resources to develop, maintain and deliver high quality Chapter programs
- information about HVAC&R industry developments
- a conduit for communications between the grassroots (i.e., Chapter members) and the Society level committees that develop ASHRAE standards, write the ASHRAE handbooks and manage ASHRAE research projects.

Jeff Gatlin, who served on CTTC from 2008 to 2011 well-expressed the importance of CTTC Chapter Chairs to the overall health of ASHRAE when he said *"Without effective CTTC Chapter Chairs, Society fails. If we can't get people to a meeting in a well lit, comfortable location; with an engaging, easily understandable speaker; to hear a timely topic of broad interest; with a quality meal; and in a convenient location....they won't stay in ASHRAE nor encourage their colleagues to join (MP fails); they won't donate to research (RP fails); they won't encourage students or young engineers to participate (oops there go Student Activities and YEA). You get the point. We in the CTTC business are Society's contacts to the membership. WE make the first impression."*

In addition to providing Chapter Chair training at CRCs (Chapter Regional Conferences), CTTC administers the Distinguished Lecturer Program, ASHRAE Webcasts and ASHRAE's Technology Awards program.

ASHRAE's "Distinguished Lecturer" program (www.ashrae.org/distinguishedlecturers) identifies internationally recognized industry expert presenters who will make presentations to ASHRAE chapters. ASHRAE provides financial assistance for approved Distinguished Lecturer visits, enabling even small Chapters to occasionally host world class programs.

For the past several years, ASHRAE has hosted a three-hour webcast on a topic which the grassroots membership has identified as being of current interest. These webcasts are free to all, but require pre-registration. The April 2011 webcast was on ground source heat pumps. The 2012 webcast "Dedicated Outdoor Air Systems - A Path to Balancing Energy and IEQ" is scheduled for April 19. (www.ashrae.org/doeswebcast).

ASHRAE's Technology Award/Award of Engineering Excellence program (www.ashrae.org/technologyawards) recognizes ASHRAE members who design and/or conceive innovative technological concepts *that are proven through actual operating data*. Awards are given for new and retrofit applications for several categories of buildings, industrial facilities and processes. Chapter award winners can be submitted into Regional competitions, and Regional winners are invited to compete for Society level Awards. Applications are judged with respect to energy efficiency, indoor air quality, innovation, operation & maintenance, cost effectiveness, environmental impact and quality of presentation. Society level award winners get written up in the ASHRAE Journal, publicity you just can't buy.

CTTC is also responsible for grassroots GA (Government Activities). ASHRAE encourages its Chapters to promote the adoption and enforcement of ASHRAE standards on energy efficiency, indoor air/environment quality, etc. to State, Provincial and local governments. In addition to improving building stock, universal adoption of specific codes and standards will reduce the complexity of rules and regulations faced by the design and construction communities.

Alaska Chapter CTTC Report

Continuing Education:

We will be working on getting more seminars and technical sessions for those who need CEU's. Please keep me informed as to topics of interest so I can make arrangements for continuing education seminar and training. The chapter will be working on getting a backflow training/technical session in the near future. If you have any questions please let me know.

Next month CRC will be working on next year programs please let us know of any seminars or training of interest for our chapter.

Technology Award:

The chapter is trying to get individuals or companies to submit for the 2012 ASHRAE Technology Awards for the upcoming (CRC) Chapters Regional Conferences. The ASHRAE Technology Awards are not due till April 15th 2012. It would be great for someone to submit a project or two for the ASHRAE Technology Awards. Also to have a local individual or companies win the Award. As for the chapter we haven't submitted a Technology Award in over 7 years. Please let me know if you have any questions. Just email me and I'll send you the Technology Award Short Form.

Jeffery D. Hurd (CTTC)
Project Management/Civil Engineer I
Anchorage Water and Wastewater Utility
Work (907) 786-5526 Cell (907) 317-7285
Jeff.hurd@awwu.biz

Articles from ASHRAE's Public Relations Office

For more information on this month's articles please select the following links:

[Free ASHRAE Webcast Highlights Dedicated Outdoor Air Systems: Registration Opens March 19](#)

For more information on past articles please select the link for each of the following:

[Return to Chicago Sees High Attendance, Rebranding for ASHRAE](#)

[ASHRAE Recognizes Outstanding HVAC&R Industry Achievements](#)

[ASHRAE, IAPMO Sign MOU to Advance Built Environment Codes and Standards](#)

[2011 version of the Green Standard Now Available from ASHRAE, USGBC, IES](#)

["Master's or Equivalent" Movement Threatens Licensure Requirements](#)

[Best Practices To Improve Building Performance Focus Of ASHRAE High Performing](#)

[Building Conference](#)

[ASHRAE Introduces New Liquid Cooled Datacom Environmental Classes](#)

[ASHRAE Announces the Seventh International Conference on Cold Climate and Call for Papers](#)

[ASHRAE and Penn State Partner on Building Efficiency Hub](#)

[Call for Posters, Keynote Speakers, ALI Course Announced for ASHRAE High Performance](#)

[Building Conference](#)

[DOE Updates National Reference Standard for Commercial Buildings to 90.1-2010](#)

For information on past ASHRAE Press Releases for 2011 please select the following link:

[2011 Press Releases](#)

Continuing Education

Credits

*made available to you
from your local ASHRAE
Alaska Chapter*

February 2012

*For more information
please see the CTTC Report*

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ASHRAE Alaska Chapter would like to Thank our Business Support

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<p>Jeff Robinson Service & Installation Division Manager</p> <p>365-2514 jrobinson@klebsheating.com</p> <p>365-2500 fax 365-2540 www.klebsheating.com</p> <p>1107 E 72nd Avenue, Anchorage, Alaska 99518</p>	<p>6657 Greenwood Street Anchorage, AK 99518 Office: (907) 562-2608 Fax: (907) 562-0503 www.GoPSI.com</p> <p>TROY NIBERT Branch Manager</p> <p>Cellular: (907) 223-8830 Email: tnibert@proctorsales.com</p>

This page will be continually updated. Please get your business card in for the year of 2011. Business cards run from June to June for \$100.00 per year. Please send your photo-ready card to lcreeleman@mail.ashrae.org Or if you would like to update your existing business card please contact Logan Creelman.

ASHRAE Alaska Chapter would like to Thank our Business Support

 <p>Walter K. Heins, PE., CCP[®], CEA <i>Senior Engineer, Mechanical Engineering Certified Commissioning Professional</i></p> <p>800 F Street Anchorage, AK 99501</p> <p>ph 907.276.6664 fax 907.276.5042</p> <p>ANCHORAGE HONOLULU SEATTLE LOS ANGELES SPOKANE</p> <p>e-mail heins@coffman.com coffman.com</p>	 <p>MECHANICAL SALES, INC.</p> <p>Glenn Evans 907-562-6940</p> <p>www.mechanicalsales.com</p>
	<p>MECHANICAL SALES, INC.</p> <p><i>Your Source For Green System Solutions</i></p> <p>1200 E. 76th, Unit 1221, Anchorage, AK 99518</p> <p>Main: 907-562-6940 Fax: 907-562-6939 Direct: 206-330-2257 gevans@mechanicalsales.com</p> <ul style="list-style-type: none"> ▶ Sustainability ▶ Efficiency ▶ Integration ▶ Value Added <p>www.mechanicalsales.com</p>

This page will be continually updated. Please get your business card in for the year of 2012. Business cards run from June 2011 to June 2012 for \$100.00 per year.

Please send your photo-ready card to lcreelman@mail.ashrae.org

Or if you would like to update your existing business card please contact Logan Creelman.

Membership Report

Attention ASHRAE Members: We have updates regarding the 2012 ASHRAE Handbook! The list will be run on April 30 of all members who have purchased a Handbook with their membership, and sent to the vendor on May 2, 2012.

Around May 28, 2012, all print and CD Handbooks will mail out to the members. Because of our quantity, Handbooks are sent a bulk fourth class rate, which is the most cost effective method for ASHRAE and our members.

- Members outside North America should expect to receive their Handbook up to eight (8) weeks from the date of shipment
- Members in the US should expect to receive their Handbook in approximately 14-20 business days from the date of shipment

If you have contact information changes of any kind, they need to get them to ASHRAE at www.ashrae.org by Friday, April 27, 12p EST, to ensure the member is mailed their Handbook at the best possible address.

May is Membership Month and will be our first ASHRAE Lunch meeting. It is important that all members who struggle to attend the evening meetings due to a hectic schedule make it a point to support the lunch meeting. Without a strong attendance we will have a hard time convincing the BOG to offer more lunch meetings. Our chapter goal for membership this year is 221 members, currently we have 215. We need everyone's help to meet our 2012 goal. Please bring a co-worker or a friend to either this month's or next month's meeting. Remember you do not have to be a member to attend the monthly meeting. If you know anyone that is may be interested in being a member please feel free to pass their information on to me so I can send them the advantages of being a ASHRAE Member.

See you at the Hatchery.

Troy Nibert
Membership Promotion
Cell: 907-223-8830

Local Design Competitions



- Imagine a creative, livable, affordable home. Now imagine it in Alaska.
- Join us in creating a model for a new era of Living Communities. First place prize of \$35,000, and the winning design will be built!

[Login](#)
[Register Your Team](#)

[Competition Details](#)

[About the Region](#)

[Map](#)

[FAQs](#)

[Living Building Challenge](#)

Competition Details Competition Brief Terms and Conditions Submission Checklist	Timeline Competition Portal Opens October 1, 2011 Registration Deadline December 1, 2011 Contest Closes January 18, 2012	About the Region and Aleutian Housing Authority
Map Explore the region with Google Earth.	FAQs Including site photos and other resources	Living Building Challenge Learn about the Challenge and look to Full Standard

Competition News

- [In rural Alaska, building a better house](#)
Alaska Dispatch, June 8, 2011
- [Green construction challenge set in Aleutians](#)
- [Dutch Harbor Fisherman, May 31, 2011](#)
- [Groups Organize Global Contest to Design "Living Building"](#)
Alaska Public Radio Network, May 30, 2011



Paul Crews is the C in CMH engineers, which was bought by Bell Engineers and in the 70's was the largest mechanical consulting engineers group in Anchorage.

ASHRAE HISTORY REPORT

ARCTIC HVAC

Perimeter Plenum Solves Arctic Cold Wall Problem

System eliminates downdrafts on exterior walls with all-air heating.

PAUL B. CREWS

ONE OF THE major items of concern in Arctic and sub-Arctic heating is the problem of objectionable downdrafts on exterior walls. These are caused by the fact that the cool air falls down along outside walls and across the floor, due to its increased density. Normally, a split system can take care of this problem when ventilation is also required. This type of system consists of baseboard heating elements, installed at the perimeter of the building, that nullify the downdraft with an updraft of warm air convection supplied through ceiling diffusers or slots at the building perimeter.

However, when heating must be accomplished with air alone, the downdraft must be overcome by an updraft of air against the cold outside wall, unless an extraordinarily large amount of insulation is used in the outside walls. Normally, this is not provided due to budget limitations, but, when it is used, the downdraft to a lesser extent still exists.

Warm air supplied through ceiling diffusers or slots at the building perimeter, while providing heat to the room and giving it an average satisfactory temperature, actually accentuates the downdraft. When return air openings are provided at the floor perimeter to collect the falling cooled air, the situation still exists.

Plenum Isolates Space

When air conditioning is required and a high relative humidity is necessary to the process being performed in a given space, it is sometimes extremely difficult to provide conditioning without formation of condensation on cold exterior walls, as well as on glass windows and doors. In view of this condition, it has been our practice, wherever possible, to have such areas completely enclosed within the building so that there are no external walls. Al-

though this is the easiest solution to the problem, it is frequently impossible to locate the conditioned area without at least one exterior wall. Therefore, in collaboration with our architect clients, we have adopted a design that, in effect, makes exterior rooms into interior rooms through use of a small air space between the wall of the special room and the interior of the building wall.

This space, from 2 to 6 inches wide as construction problems permit, is used as a supply air plenum and completely isolates the finished wall of the special room from the exterior wall. (See Fig. 1.) Insulation adheres directly to the exterior wall with no finish required except for a vapor barrier. All air used either for heating or cooling the conditioned room is passed into this space, usually at floor level, through slots and is introduced into the room through a continuous ribbon grille near the ceiling.

Year-Round Conditioning

In winter, air is introduced to the plenum at a temperature considerably greater than room temperature. By the time it is projected into the room through the continuous grille, some of the heat has been lost to the outside wall and it is virtually at the required room air temperature.

Because the air temperature in the plenum is higher than room temperature, there is no downdraft on the finished room side of the wall and our problem has been solved. At the same time, with the proper vapor barrier at the insulated wall adjacent to the plenum, and with only a thin un-insulated wall between the plenum and the room, any problems of moisture condensation from humidification are solved and we can introduce any practical quantity of moisture to the air in the room.

In summer, when high solar

gains are encountered through exterior walls due to longer hours of sunlight, chilled air is introduced through the same ductwork and plenum. The conditioned air is warmed by contact with the exterior wall to a point such that, by the time it enters the room, it is compatible with room temperature and no objectionable drafts are encountered.

This method of construction does not materially increase the cost of the building and, as the interior wall is constructed of steel studing with acceptable fire resistant wall materials, there is no conflict with building codes. AAA

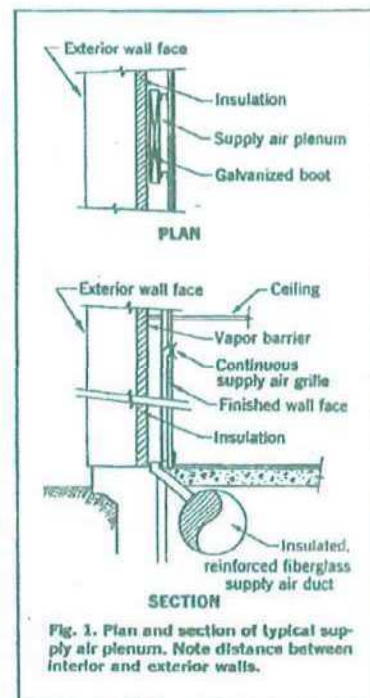


Fig. 1. Plan and section of typical supply air plenum. Note distance between interior and exterior walls.

MARCH, 1969

Respectfully submitted by
Jan Van Den Top 04-2006
ASHRAE History Committee Chair
Corporate General Manager (Retired)
The Superior Group Inc.

Respectfully resubmitted by
Logan Creelman for Keith Reed
ASHRAE History Committee Chair
President
Summit Sales Inc

45

Until Next Time...



“The intuitive mind is a sacred gift and the rational mind is a faithful servant. We have created a society that honors the servant and has forgotten the gift.”

~Albert Einstein

April Update:

As you all have noticed the ASHRAE logo has been updated. Please send me more of your comments about the new look of our Chapter Newsletter, and thank you for the comments I have received.

The cold is not over yet, so please be safe this year when out in the snow and remember to bring the right gear.

Thank you to Dennis Knight for his presentation on Building Information Modeling for the Mechanical Disciplines and Building Performance Analysis.

If you would like to feature your business card in this section from June 2011 to June 2012 please e-mail me with a photo-ready business card. The fee is \$100 per year.

Also, if you would like to change your existing business card please contact me, because every month that section is continually updated.

I apologize for any missed calls, it has been a hectic couple of weeks for me I did land a new job at URS. Thank you for all who helped point me to people they knew and made time to talk to me during my search.

Thank you,



ASHRAE Alaska Chapter #122

Logan Creelman

Acting Secretary—ASHRAE 2011-2012

Phone: (907) 306-9292

E-mail: richard.creelman@urs.com


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Alaska Chapter

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May 2012

Anchorage Meeting
Information

Date:

Thursday, May 17th, 2012

Location:

Crowne Plaza Hotel on the corner of
International Airport Rd. & C St.

Time:

LUNCH: 11:30am

Meeting: 12:00 pm

"CRC Wrap up meeting. Final
Meeting until after Summer"

Cost:

Members: \$35.00

Students: \$10.00

Alaska Chapter
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jessi.cherry@msicontrols.com

Ginger Schaaf, Vice-President

gschaaf@stinebaugh.com

Logan Creelman, Secretary

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Greg Jernstrom, Treasurer

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Troy Nibert, Membership

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Jeff Hurd, Technology Transfer

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Ruth Armstrong, Research Promotion

ruth@akwinter.com

Keith Reed, Historian

kreed@ssialaska.com

President's Message

Summer has finally arrived in Alaska!

We had a very successful April meeting. Thank you to the Anchorage Sport Fish Hatchery for their amazing tour. We would like to say a special thank you to the staff members at the Hatchery who generously donated their time to give us a tour and educate us on their fish and facility.

A big thank you to Research Promotion Chair, Ruth Armstrong, and her committee who put together another successful RP Shootout on April 20th. The Shootout was very well attended and raised \$2,512.55 for ASHRAE Research Promotion. Thank you to all of the participants and to the businesses who generously donated to the RP Shootout. We look forward to next year's Shootout event.

This month we are changing things up. It has been suggested by many members of our Chapter that we hold a lunch meeting, so we are doing just that. Our meeting this month will be during lunch time from 11:30 am to 1:00 pm on Thursday, May 17th at the Crowne Plaza Hotel. The presentation this month will be put on by our officers. We will be updating all of the members on the Chapter Regional Conference that was in Winnipeg, Manitoba, Canada. Also, we will be giving out our ASHRAE Chapter Awards. We look forward to seeing you all there. Remember to RSVP to Logan Creelman, Secretary, at lcreelman@mail.ashrae.org.

The ASHRAE Golf Tournament will be held this summer, so please keep your eyes peeled for the registration form this summer. We hope to see everyone at the golf tournament!

Well, that's a wrap! Can you believe that the 2011-2012 ASHRAE year is coming to an end? It has been an honor and pleasure to be your ASHRAE Chapter President for 2011-2012. Thank you to each of the officers and committee chairs that have participated on the Board of Governors. I could not have asked for a better BOG. Thanks to each and every member who participated in ASHRAE this year and made it such a success. I look forward next year's position of RP Chair. Hope you all have a wonderful summer!

If you have any questions, concerns, or suggestions to better our chapter please feel free to contact me.

I hope to see you all at the May LUNCH meeting!

Jessi Cherry
President, Alaska Chapter ASHRAE
jcherry@msicontrols.com

C/O Editor



PO Box 244503

Anchorage, AK 99524-4503

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May 2012's Program



**Lunch Meeting!!!
Membership Meeting**

Please join us for something a little different... a lunch meeting! We are hosting a Membership Meeting at our May Lunch meeting. A \$50 Visa Gift Card will be awarded to the member (in good standing) who RSVPs for and brings the most visitors.

This month we will bring our ASHRAE year to an end by closing out any old business still lingering out there, and sharing the highs and lows of the Region XI Chapters Regional Conference hosted by the Manitoba Chapter in Winnipeg, MB, Canada. We will also be handing out any awards that were won by members of our chapter at the CRC. Please plan to attend and show your support for your local ASHRAE chapter and its members.


RSVP NOW to reserve your seat!!

Please RSVP to Logan Creelman lcreelman@mail.ashrae.org no later than NOON on Tuesday, May 15. This year our meetings have been located at the Crowne Plaza Hotel (109 W. International Road). The cost for the lunch meeting is \$25 with RSVP, \$30 without RSVP. If you RSVP and do not show up, you will be charged \$30. Please contact me if you find that you can no longer attend and need to cancel your RSVP.

Date: Thursday, May 17
Lunch and Meeting: 11:30am
Program: 12:00pm

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Vice President - Programs Chair
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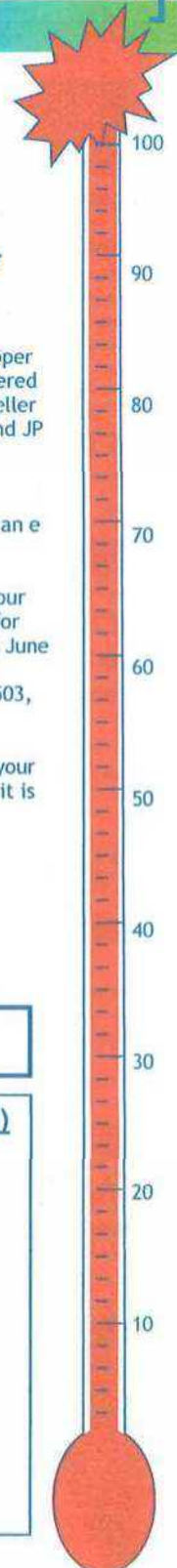
We had a very successful and pleasant afternoon for our 2nd Annual RP Shootout. With temperatures in the upper 50's and a booming sun on us, we settled in for a great afternoon of shooting. In total 44 shooters were registered for the event. I want to thank all of the sponsors for the ranges including Proctor Sales, Coffman Engineers, Keller Supply, Meridian Systems and Alaska Winter. I would also like to give special recognition to RSA Engineering and JP Sheldon Company for stepping up to sponsor the ammunition for everyone at the event. In total we raised \$2,512.55 towards our RP Goal putting us over by \$3,674.11.

Awards will be given out to the top 3 teams and the top 3 shooters at our next meeting on May 17th. Look for an e mail from me to personally invite you to the meeting.

Although we have raised \$13,674.11 so far this year, we are not done yet. In order for our chapter to receive our full accolades for the year we need an additional \$391.89 to reach our Challenge Goal (High Five + 5%). Look for calls coming from your friendly RP Committee member in the next few weeks as we strive to meet this goal by June 30th. If you have not made your individual donation for this year, you can make it on-line at <http://www.ashraerp.com> or mail your check made out to ASHRAE Research to: Alaska ASHRAE Chapter, PO Box 244503, Anchorage, AK 99524

If you have already made a donation, your name should appear at the bottom of this page,. If you do not see your name or your companies name this month, please let me know and I will locate your donation and ensure that it is accounted for.

Sincerely
Ruth Armstrong
RP Chair



2011-2012 Research Investors, Alaska Chapter ASHRAE

<u>Organizations</u>	<u>Individuals</u>	<u>Individuals (continued)</u>
<u>\$1000 & Over</u> RSA Engineering IAPMO <u>\$500—\$999</u> Adams Morganthaler & Co, Inc. Central Alaska Engineering Co. Coffman Engineers PDC Engineers, Inc. Stinebaugh & Co. <u>\$150—\$499</u> Arctic Foundations, inc. EDC Incorporated <u>Up to \$149</u>	<u>\$1000 & Over</u> Robert Heym <u>\$250—\$999</u> Ruth Armstrong Jessi Cherry Jan Van Den Top, PE Robert Whealy, PE <u>\$100—\$249</u> Logan Creelman John Fortner Scott Hala Walter Heins William Henriksen Gregory Jernstrom	<u>\$100—\$249</u> Douglas LeCren Christopher Lindford Brian Miller Boyd Morganthaler Jeromy Reed Ginger Schaaf <u>Up to \$100</u> Ray Sieber (RVC)



Alaska Chapter CTTC Report

Continuing Education:

We will be working on getting more seminars and technical sessions for those who need CEU's. Please keep me informed as to topics of interest so I can make arrangements for continuing education seminar and training. The chapter will be working on getting a backflow training/technical session in the near future. If you have any questions please let me know.

Next month CRC will be working on next year programs please let us know of any seminars or training of interest for our chapter.

Technology Award:

The chapter is trying to get individuals or companies to submit for the 2012 ASHRAE Technology Awards for the upcoming (CRC) Chapters Regional Conferences. The ASHRAE Technology Awards are not due till April 15th 2012. It would be great for someone to submit a project or two for the ASHRAE Technology Awards. Also to have a local individual or companies win the Award. As for the chapter we haven't submitted a Technology Award in over 7 years. Please let me know if you have any questions. **Just email me and I'll send you the Technology Award Short Form.**

Jeffery D. Hurd (CTTC)
Project Management/Civil Engineer I
Anchorage Water and Wastewater Utility
Work (907) 786-5526 Cell (907) 317-7285
Jeff.hurd@awwu.biz

Articles from ASHRAE's Public Relations Office

For more information on past articles please select the link for each of the following:

[Free ASHRAE Webcast Highlights Dedicated Outdoor Air Systems: Registration Opens March 19](#)

[Return to Chicago Sees High Attendance, Rebranding for ASHRAE](#)

[ASHRAE Recognizes Outstanding HVAC&R Industry Achievements](#)

[ASHRAE, IAPMO Sign MOU to Advance Built Environment Codes and Standards](#)

[2011 version of the Green Standard Now Available from ASHRAE, USGBC, IES](#)

["Master's or Equivalent" Movement Threatens Licensure Requirements](#)

[Best Practices To Improve Building Performance Focus Of ASHRAE High Performing Building Conference](#)

[ASHRAE Introduces New Liquid Cooled Datacom Environmental Classes](#)

[ASHRAE Announces the Seventh International Conference on Cold Climate and Call for Papers](#)

[ASHRAE and Penn State Partner on Building Efficiency Hub](#)

[Call for Posters, Keynote Speakers, ALI Course Announced for ASHRAE High Performance Building Conference](#)

[DOE Updates National Reference Standard for Commercial Buildings to 90.1-2010](#)

For information on past ASHRAE Press Releases for 2011 please select the following link:
[2011 Press Releases](#)

Continuing Education Credits made available to you from your local ASHRAE Alaska Chapter

May 2012

For more information please see the CTTC Report

Don't forget to follow ASHRAE on your favorite media networks:

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This page will be continually updated. Please get your business card in for the year of 2011. Business cards run from June to June for \$100.00 per year. Please send your photo-ready card to lcreelman@mail.ashrae.org. Or if you would like to update your existing business card please contact Logan Creelman.

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ASHRAE HISTORY REPORT

H I S T O R Y

RSA Engineering, Inc Company History

Richard S. (Dick) Armstrong founded RSA Engineering in 1983 with his wife Marsha who did the books and typed specifications. The company began in an extra room of Dick's apartment and then moved to an empty apartment on Boniface Parkway. An agreement was made with Hargis Engineers for assistance with designs and peer reviews for the initial projects. As business in Alaska turned down, many M/E firms began to leave Anchorage, so Dick agreed to acquire the building lease, furniture, and employees from the Hargis' Alaska branch at no cost, provided that he continue to employ their existing 5 employees. Dick moved RSA operations from the Boniface apartment to the Hargis office at 719 E. 11th, and the company grew to 7 employees that day. Since Dick was dual licensed for both electrical and mechanical disciplines, he assumed responsibility for all design work under the newly enlarged firm.

The engineering firm continued to grow and prosper, with only one month in the red during its entire history. Dick incorporated the business in 1986, and set it up as an employee owned business, with Dave Oliver being his principal partner. Stock was subsequently offered to all employees for sale or in lieu of a year-end bonus, so employee participation continuously increased over the years.

As the economic downturn continued in Anchorage, Dick saw the opportunity to acquire the Global Building on Arctic Boulevard along with the owner of Global Travel, since the bank was holding the building after foreclosure and needed to reduce its held properties. After several years, the travel agent business was waning as people were making their own reservations, so Global Travel sold all of its assets and closed the business. Dick purchased Global's share of the building in order to expand RSA Engineering to occupy both floors of the building. The firm continued to grow under Dick's leadership until he finally sold his share of the company back to the employees in 2000 so he could "retire" and become more involved in his passion for flying and aviation in general. Dick is still involved with RSA Engineering and continues to provide consulting services to the National Science Foundation for their Antarctica facilities. Dave Oliver took over the reins of the company when Dick retired, and continued to grow the company for the next 8 years until his retirement. The Board of Directors of the Employee Owned Corporation elected Mack Bergstedt to lead the company forward in 2008. RSA currently has 45 employees with a primary office located in Anchorage and branch office located in Wasilla that was established in 2006.

The company has consistently provided mechanical and electrical design services to a wide range of Alaska clients: commercial, private, and government. RSA has worked on thousands of projects in all areas of the state; and in addition, has on-going open term contracts for work in Antarctica. RSA Engineering, Inc has developed a reputation for providing cost effective, no frill design solutions for all kinds of buildings. The firm has developed considerable experience with cold climate applications. Some notable projects include the Anchorage Museum Expansion, South Anchorage High School, Pt. Lay New Power Plant, Nicholas Begich Middle School, South Pole Fuel Arch, McMurdo Power Plant and the Alaska Railroad AIA Terminal.

*Submitted by
Keith Reed
ASHRAE History Committee Chair
President
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Following 1st Monday
September through June
Social Hour at 6:00 p.m.
Dinner at 7:00 p.m.

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H
I
S
T
O
R
Y

Submitted by
Keith Reed

ASHRAE History Committee Chair
President
Summit Sales Inc

ASHRAE Student Chapter Report

The student chapter is done for this school year and will pick it up again in the fall. I was told by the student chapter that they really enjoyed the tour of the hatchery as well as meeting some of our members on the tour. I would also like to thank all of our chapter members and their companies for their contributions to the promotion of ASHRAE, science, technology, engineering and math to the young people throughout the state. I recently sent a message to all our chapter members asking to let me know all they have done to help promote these topics to students in the last year. I was very pleased with the responses I received. I am very fortunate to be Student Activities chair for a Chapter that contributes so much and truly cares about getting students excited about the opportunities that are out there for them in our fields. Thank you all and continue contributing to the educational experiences of students.

When the student chapter returns to school in the fall we will be looking for more presenters. Our goal is to give the students a picture of the opportunities out there for new engineers. Anyone interested in doing a presentation about your business, new and exciting technology, engineering, being involved with ASHRAE, mechanical system design or other related topics please contact me. The student chapter meets the third Thursday of the month from 10:00 to 11:00 A.M. in ANSEP building RM 103 on the UAA Campus.

Sincerely,
 Michael D. Anderson
 Student Activities
 907.563.2242
mikeanderson@siemens.com

Region XI Executives

<u>Position</u>	<u>Name</u>	<u>E-mail</u>
Director & Region Chair	Erich Binder	erich.binder@worleyparsons.com
Assistant Regional Chair	Kevin Marple	kmarple@benzco.com
CTTC RVC and Nom. Com. Alt.	Eileen Jensen	nejensen@bpa.gov
Student RVC	Stefan Lidington	stefanl@oregonairreps.com
Membership RVC	Murdoch MacPherson	m.macpherson@mac-eng.ca
Research Promotion RVC	Ray Sieber	sieber@src.sk.ca
Young Engineers in ASHRAE (YEA)	Tariq Amlani	tariq.amlani@stantec.com
Regional Historian	Bill Dean	bill.dean@nrc-cnrc.gc.ca
Nominating Committee Member	Norm Grusnick	ngrusnick@ecomfg.com
Regional Treasurer	Rob Craddock	rob@inlandmetal.ca
Regional Web Master	Scott Bossert	sbossert@benzco.com
CRC 2010 Chair	Russell Lavitt	rlavitt@smseng.com

Membership Report

Members, please welcome our newest members Tom Hullopeter and Lee Bolting at this month's LUNCH meeting. If you have received notice from ASHRAE that your membership has lapsed please take a moment and renew your membership before it's too late. See you at this month's lunch meeting.

Troy Nibert
Membership Promotion
Cell: 907-223-8830

Join ASHRAE

www.ashrae.org/join

- Network with industry leaders
- Receive continuing education credits – PDHs and CEUs
- Gain access to technological advancements in building systems
- Receive member benefits like the ASHRAE Journal & Handbooks
- Support the industry that provides your livelihood

Until Next Time...

May 2012 Update:

I thank you for giving me the opportunity, and have enjoyed being your 2011-2012 Secretary. I hope to bring the same effort and quality to my appointment as your vice-president next year.

I also want to thank my family for being supportive in taking so much time in a voluntary position and taking that time from them.

I will be downloading all the information I have acquired this year to Greg Jernstrom as next year's secretary, so if you have any last minute changes or gripes about the Hot Gas Bypass, please get them to me soon or you could see them again.

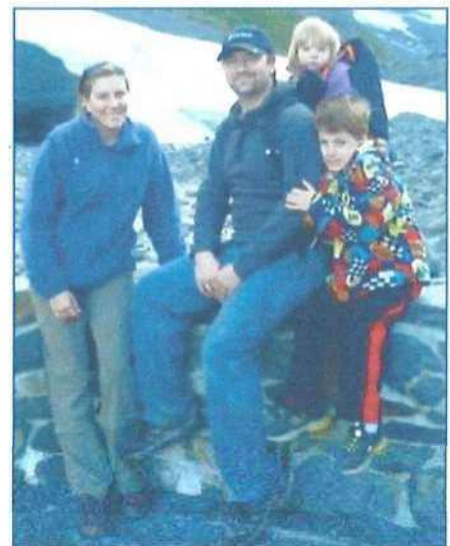
Thank you,

 ASHRAE Alaska Chapter #122
Logan Creelman
Acting Secretary—ASHRAE 2011-2012

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Visit us on the web at:
www.alaska.ashraechapters.org



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