

# ASHRAE BLUEPRINT

December 2017



## PRESIDENT'S MESSAGE Stuart Oster

**Chapter Meeting:** Wednesday December 6th @  
The Country Club of Sioux Falls  
Social 11:45, Lunch 12:00, Program 12:15-1:15

**RSVP at our Chapter homepage ([www.sdashrae.org](http://www.sdashrae.org)) no later than Noon on Friday, December 1st. <http://sdashrae.org/meetinginfo.php>.**

Chapter Members and Guests,  
Happy holidays to all – I hope everyone had a great Thanksgiving and enjoyed the beautiful weather. We now turn our attention to Christmas as the 2017 calendar comes to the end. We have had a wonderful 2017 year in ASHRAE and I look forward to carrying that momentum in to 2018. We are working our way through the year and have had a great start. Let's keep the momentum going to end the year strong with a great turnout for our Lunch meeting on December 6th.

Blake Lynch our YEA (Young Engineers in ASHRAE) Chair set up the first meeting in November and it sounds like they had a good turnout and lots of fun. Hopefully the participation will grow with future gatherings being planned.

Our current RP Chair Kacie Olson has reached out to you already for a monetary contribution to ASHRAE Research. We would like for you to consider donating yet by the end of this calendar year as we are trying to reach 30% of our monetary goal by that time. Your consideration would be greatly appreciated.

Please mark your calendars and register for this meeting. I know it is a busy time of year for everyone, but I would like to see a really good turnout to finish 2017 strong. It would also allow you to take a little break from the hustle and bustle of the season and to share cheer with you fellow colleagues.

I hope you can join us at the Country Club!

-Stu

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Stuart Oster

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Jeremy Eitrem

1st Board Member  
Jeremy Goodroad

2nd Board Member  
Open

Membership  
Nathan Larson

YEA  
Blake Lynch

Student Activities  
Jeremy Goodroad

CTTC  
Nathan McKenzie

Historian  
Todd McInerney

Honors & Awards  
Ryan O'Connor/  
Mike Thompson

Research Promotion  
Michael Heeneey

Newsletter  
Ryan Van Der Bill

Publicity  
Ken Wickre

Special Events  
Kevin Eggert

Reception  
Kyle Christensen

PAOE Watch Dog  
John Schwartz

Government Affairs  
Kasey Abbott

Refrigeration Committee  
Jeremy Eitrem

Webmaster  
John Schwartz

# ASHRAE BLUEPRINT

CTTC  
Nathan McKenzie

## Speaker Bio – Bruce Barrett

Bruce Barrett is a Regional Sales Manager for Multistack. He has over 24 years of experience in HVAC, including manufacturing, distribution, marketing and strategic sales. Over 18 years of his professional career have been specifically focused on chilled water systems and new product development. Bruce holds a BS degree from Winona State University of Minnesota in Economics and Social Science.

## Presentation Summary:

### Variable Speed Scroll Technology

#### Current Technologies

On/Off scrolls

Digital scrolls

On/Off With Variable Speed Drives

True Variable Speed-EC Technology

Strengths/Weakness

Efficiency/Benefits

### Applications

Modular Technology-When is Variable Speed scroll a good choice

Comfort Cooling

Process and Critical Cooling

Heat Recovery

### The Rise of Air Cooled Technology

Performance Improvements (last 6 years)-Summary

Advancements in AC Technology-Free Cooling/Heat Recovery

Heat Recovery in an Air Cooled package-get creative

Go Badgers!

Regards,

Bruce Barrett

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## The 2017-2018 South Dakota Chapter ASHRAE Line-up:

Sept 20	Noon	Jay Eldridge, Daikin <i>"Chiller System Optimization"</i>
Oct 11	Noon	Scott Blackmon, Hart&Cooling/AMPCO <i>"Factory Built Chimney"</i>
Nov 8	Afternoon Technical Seminar	Victor W. Goldschmidt, Ph.D., Purdue University Of Mechanical Engineering (Distinguished Lecturer) <i>"Leadership Principles"</i>
Nov 8	Evening	Victor W. Goldschmidt, Ph.D., Purdue University Of Mechanical Engineering (Distinguished Lecturer) <i>"Air Conditioning: A Look Into the Past and a Guess Into the Future"</i> Past President and Student Night, RP Awards
<b>Dec 6</b>	<b>Noon</b>	<b>Bruce Barrett, Multistack</b> <b><i>"Variable Speed Scroll Compressor Technology"</i></b>
Jan 10	Noon	TBD
Feb	Valentines Event	TBD
Mar 7	Noon	TBD
April 4	Evening	Eckhard A. Groll, Dr. Eng., Purdue University (Distinguished Lecturer) Student Night
May		<i>Golf</i>

## GOVERNMENT AFFAIRS Kasey Abbott

Please see the information below about the recent Senate version of the tax reform bill "Tax Cuts and Jobs Act". This info is copied from an email sent by ASHRAE.



Shaping Tomorrow's  
Built Environment Today

Dear ASHRAE Member,

We need your help with an item of concern in the Senate version of the tax reform bill ("[Tax Cuts and Jobs Act](#)") that could cost ASHRAE more than \$1 million in lost revenue. The bill was approved at the committee-level last week, and is expected to be acted upon by the full Senate next week (Week of November 27).

**Importantly, we are not taking a position on the tax bill in general.** We are only taking a position on a single critical provision in the tax bill that impacts not-for-profits like ASHRAE directly.

Specifically, the Senate version of the tax bill includes a provision that would reclassify logo licensing revenues earned by not-for-profit organizations as being subject to unrelated business income tax (UBIT). Not-for-profits like ASHRAE are exempted from paying income tax. The concept of UBIT is that not-for-profits must pay income tax on revenues earned outside of the core mission of the organization. If not-for-profit logo royalties are reclassified as being taxable, ASHRAE could lose an estimated \$1.1 million in revenues that support member benefits and help ASHRAE accomplish its member-designated mission.

There are both House and Senate versions of the tax bill. The House passed its version of the tax bill on November 16. The Senate Finance Committee passed its version of the tax bill also on November 16, and it is expected the full Senate will consider the measure when the Senate returns after Thanksgiving. If the Senate passes its bill, the bill could either be conferenced with the House tax reform measure, or it is possible the House could vote on the Senate version.

**We respectfully ask that U.S. ASHRAE members encourage their Congressional representatives to modify or eliminate altogether the problematic provision from the proposed tax bill.**

[Please click here to register your concern.](#)

**Thank you for taking the time to register your concern!** We sincerely appreciate your support of ASHRAE and your help with this important issue.

If you have any questions, please contact [WashDC@ashrae.org](mailto:WashDC@ashrae.org).

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## Get To Know ASHRAE

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### **Membership** **Nathan Larson**

If you know of anyone that may be interested in joining ASHRAE, be sure to tell them about ASHRAE and invite them to a meeting. Membership information can be found at [www.ashrae.org/members/](http://www.ashrae.org/members/) or call Nathan at 605-996-7548 with questions.