

ASHRAE BLUEPRINT

September 2015

President
Ryan O'Connor

President Elect
John Schwartz

Vice President
Stuart Oster

Secretary
Michael Heeney

Treasurer
Kacie Olson

1st Board Member
Michael Hubbard

2nd Board Member
Open

Membership
Nathan Larson

YEA
Nathan Larson

Student Activities
Jeremy Goodroad

CTTC
Mike Fellows

Historian
Open

Honors & Awards
Mike Thompson /
Rob Marshall

Research Promotion
Stuart Oster

Newsletter
Ryan Van Der Bill

Publicity
Ken Wickre

Special Events
Kevin Eggert

Reception
Blake Lynch

PAOE Watch Dog
Mike Thompson

Government Affairs
Kasey Abbott

Refrigeration Committee
Jeremy Eitrem

Webmaster
Ryan Jervik



PRESIDENT'S MESSAGE

Ryan O'Connor

**Chapter Meeting: Wednesday September 9th @
Westward Ho (The Country Club of Sioux Falls)
Social 11:45, Lunch 12:00, Program 12:30-1:00**

**RSVP at our Chapter homepage (www.sdashrae.org) no later than Noon on
Monday, September 7th. <http://sdashrae.org/meetinginfo.php>.**

Another summer is quickly coming to an end, which means it's time to start the monthly ASHRAE meetings. I look forward to serving as president this year, if you have any suggestions on how we can make our chapter stronger I would love to hear them.

In July, John Schwartz and I attended the CRC hosted by the Black Hills Chapter. Society President Underwood attended the meeting and gave some insights into why he values ASHRAE. His focus this year is on "Making Connections", relationships built through this society can have a profound impact on your career, and personal life. I hope we can build on his initiative to build stronger relationships through ASHRAE. Another highlight from CRC was seeing Rich Rose receive a life-time service award, watching him receive this award makes me believe what Underwood is saying. If you want to be involved at a higher level and start building these connections, let me know. Our first order of business is filling an empty Member at Large position.

We'll be making a few changes this year as you will notice by the schedule of meetings. Over the last few years we have observed much higher attendance at the lunch meetings, based on this information we have scheduled most of the meetings over lunch. Since we are eliminating some evening meetings, we will be intentional about having a few additional social events.

See you at The Club,

Ryan

ASHRAE BLUEPRINT

CTTC
Mike Fellows

Mr. Carus is currently the Northern Regional Manager for Data Aire, Inc., a California based supplier of Precision Cooling equipment. Mr. Carus received his Bachelor of Science and Master's degrees from Wright State University in Dayton, OH. Prior to joining Data Aire, he worked for the Dayton Power and Light Company as a forecasting specialist and public utilities commission liaison. Recently he worked for Emerson Climate Technologies, Inc. (Copeland Compressors) as a forecasting specialist, a capital budgeting and mergers and acquisition expert, an international business development director and sales director, responsible for sales, marketing, manufacturing, purchasing and product development initiatives for all major OEM HVAC equipment companies. With Data Aire, his territory covers the northern portion of the United States from the Rocky Mountains to the Atlantic Ocean, down to the Mason Dixon line. Mr. Carus supports the manufacturer's representatives he manages, including system engineering, installation and economic evaluations. In addition to his work activities, Mr. Carus has served as an adjunct professor across multiple disciplines including economics, innovation, economic development, international management, human resources and finance/accounting at both Wright State University in Dayton, OH and Otterbein University in Westerville, OH.

The topic of the seminar is "**Precision Cooling Basics for Today's Data Management Needs.**" This seminar briefly describes the differences between precision cooling and comfort cooling and then branches into the importance of airflow management, containment strategies and facility considerations including building design and load assessment strategies. Also discussed are possible solutions in the market space such as CRAC/CRAH units, in-row, ceiling, cooling choices, controls and finishes the solution section with a discussion of the pros and cons of some of the new concepts being implemented or considered. The seminar concludes with a discussion of regulatory trends and directions and leaves time for questions and answers.

The 2015-2016 South Dakota Chapter ASHRAE Line-up:

Sept 9	Noon	Pat Carus, M.S. – Data Aire <i>"Precision Cooling Basics for Today's Data Management Needs"</i>
Oct 7	Noon	Krisit Honeywell, South Dakota State Engineer <i>"State Government's Energy Reduction Efforts"</i>
Nov 4	Evening	Dan In-Hout ASHRAE Distinguished Lecturer Student and Past Presidents Night
Dec 9	Noon	To Be Determined...
Jan 6	Noon	To Be Determined...
Feb 12 or 13	Valentines Event	Olde Towne Dinner Theatre
Mar 9	Noon	To Be Determined...
April 6	Evening	To Be Determined... Student Night
May 29		<i>Golf – Brandon Golf Course</i>

ASHRAE BLUEPRINT

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/ or call Nathan at 605-996-7548 with questions.

Government Affairs Kasey Abbott

South Dakota's Energy Code

South Dakota's current energy code for commercial buildings requires compliance with the 2012 International Energy Conservation Code (IECC). ASHRAE 90.1-2010 provides an alternate compliance path. For construction commencing after July 1 the requirements switch to IECC 2015, with ASHRAE 90.1-2013 providing the alternate compliance path.

These requirements are based on state statutes 11-10-5 and 11-10-6 which requires compliance to the International Building Code (IBC). Chapter 13 of the IBC states, "Buildings shall be designed and constructed in accordance with the *International Energy Conservation Code*."

State statutes 11-10-5 and 11-10-6 read as follows:

SD Codified Law § 11-10-5. If the governing body of any local unit of government adopts any ordinance prescribing standards for new construction, the ordinance shall comply with the 2015 edition of the International Building Code as published by the International Code Council, Incorporated. The governing body may amend, modify, or delete any portion of the International Building Code before enacting such an ordinance. Additional deletions, modifications, and amendments to the municipal ordinance may be made by the governing body and are effective upon their adoption and filing with the municipal finance officer. Additional deletions, modifications, and amendments to the county ordinance may be made by the governing body, and are effective upon their adoption and filing with the county auditor. No ordinance may apply to mobile or manufactured homes as defined in chapter 32-7A which are constructed in compliance with the applicable prevailing standards of the United States Department of Housing and Urban Development at the time of construction. No ordinance may require that any fire sprinkler be installed in a single family dwelling. No ordinance may apply to any specialty resort or vacation home establishment as defined in chapter 34-18 that is constructed in compliance with the requirements of Group R-3 of the 2015 edition of the International Building Code.

SD Codified Law § 11-10-6. The design standard for any new construction commenced after July 1, 2015, within the boundaries of any local unit of government that has not adopted an ordinance prescribing standards for new construction pursuant to § 11-10-5 shall be based on the 2015 edition of the International Building Code as published by the International Code Council, Incorporated. Each local unit of government may adopt an ordinance allowing local administration and enforcement of the design standard. The provisions of this section do not apply to new construction for any one or two family dwelling, mobile or manufactured home, townhouse, or farmstead and any accessory structure or building thereto. For purposes of this section the term, farmstead, means a farm or ranch, including any structure or building located on the land. The provisions of this section do not apply to any mobile or manufactured home as defined in chapter 32-7A which is used for purposes other than residential that is constructed in compliance with the applicable prevailing standards of the United States Department of Housing and Urban Development at the time of construction if the structure complies with applicable accessibility standards for the occupancy intended. The provisions of this section do not apply to any specialty resort or vacation home establishment as defined in chapter 34-18 that is constructed in compliance with the requirements of Group R-3 of the 2015 edition of the International Building Code.