

ASHRAE BLUEPRINT

December 2016

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PRESIDENT'S MESSAGE John Schwartz

Chapter Meeting: Wednesday December 7th @
The Country Club of Sioux Falls
Social 11:45, Lunch 12:15, Program 12:15-1:00

RSVP at our Chapter homepage (www.sdashrae.org) no later than Noon on Friday, December 2nd. <http://sdashrae.org/meetinginfo.php>.

Chapter Members and Guests,

Happy Holidays - wishing everyone a joyous season! 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 7th.

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

Getting a little repetitive, but we are in desperate need of a couple members to step up and fill in our two open at-large positions on the BOG.

Michael Heeney our RP Chair might be getting ahold of you prior to the end of the year asking if you would be willing to contribute your Research Promotion dollars (RP) for 2016-17 early this year. We are trying to reach 30% of our annual goal by December 31st. Your consideration would be appreciated.

Below is a great article on the status of an Energy Code adoption for our State and how ASHRAE has been involved. Appreciate all your efforts Kasey on this endeavor plus putting this summary together for our Members.

Please mark your calendars and register early. See you all December 7th at The Country Club!

-John

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YEA (Young Engineers in ASHRAE) Blake Lynch



I would call our first YEA meeting a success. We had eight individuals attend at Woodgrain Brewing Co. located downtown on Phillips Ave. For those who were able to attend early, Steve (one of the founders) was able to let us take a closer look at the equipment used to make their craft beer. We discussed a few different options for our next meeting and we came to the conclusion that Golf Addiction sounded the most appealing for late February, 2017.

CTTC Justin Almond

This month we are happy to introduce Mr. Ken Still with Critical Fuel Systems.

Equipped with his B.S. Degree in Electrical Engineering from the University of Missouri, Ken began his career in process control systems as a Research Engineer and worked for such notable companies as Fisher Controls and Rosemount. Additionally, Ken has worked for manufacturer's rep organizations and fuel systems manufacturers. Throughout his career he has held positions in Product Planning, Marketing and Sales.

For the past 20 years Ken has been involved with fuel oil systems for the mission critical market. In this capacity he has worked with consulting engineers on system design and layout, specification reviews, system pricing, system start-up, trouble shooting, and technical support.

Ken will be discussing the following topic: Mission Critical Fuel Oil Systems

The presentation will give the attendees an overview of what typically makes up a mission critical fuel oil system. These systems are found in hospitals, data centers, financial institutions, and government facilities. Typically, in any facility that cannot stop due to loss of electrical power or that may use fuel oil as a primary or secondary fuel for heating. The presentation will provide full system design and component selection guidance as well as system commissioning/start-up and maintenance requirements.

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The 2016-2017 South Dakota Chapter ASHRAE Line-up:

Sept 7	Noon	Jason Camarato, Greenheck <i>"Good Kitchen Design Principles"</i>
Oct 5	Noon	Alan Niles, WaterFurnace International (Distinguished Lecturer) <i>"Net-Energy Water Loops: a clear path to Net Zero Energy Buildings"</i>
Oct 21	ASHRAE Shootout	Hunter's Pointe, Humboldt. Sporting Clays and Lunch.
Nov 9	Afternoon Seminar	Douglas T. Reindl, PH.D., P.E., Univ. of Wisc.- Madison <i>"ASHRAE Standard 15"</i> (Distinguished Lecturer)
Nov 9	Evening	Douglas T. Reindl, PH.D., P.E., Univ. of Wisc.- Madison <i>"Refrigeration – A Review & Update"</i> (Distinguished Lecturer) Student Night
Dec 7	Noon	Ken Still, Critical Fuel Systems <i>"Mission Critical Fuel Oil Systems"</i>
Jan 11	Noon	TBD
TBD	Valentines Event	Olde Towne Dinner Theatre
Mar 8	Noon	TBD
April 5	Evening	TBD Student Night and Past Presidents Night
April 21	12:00-3:00pm	ASHRAE Sponsored Webcast <i>"Integrating Control Technology & Analytics for Optimal Building Performance"</i>
May 26		<i>Golf – Brandon Golf Course</i>

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Government Affairs Kasey Abbott

Representatives from the South Dakota Chapter of ASHRAE, Black Hills Chapter of ASHRAE, and South Dakota AIA, with input from the SDBOA-OSE, drafted the bill shown at the end of this article. This bill is a “clean up” bill, to fix an issue with SD 11-10-6 which adopted the 2015 International Building Code (IBC), but failed to provide guidance on what to do with Chapter 13 of the IBC which states “Buildings shall be designed and constructed in accordance with the International Energy Conservation Code” (IECC). Chapter 13 of the IBC gives the adopting authority flexibility in specifying which version of the IECC to follow: IECC 2003, 2006, 2009, 2012, or 2015. South Dakota may be the only state that has adopted the IBC, but failed to provide guidance on which IECC code to follow.

<https://www.iccsafe.org/wp-content/uploads/State-Local-Code-Charts.pdf>

The argument has been made within the building design community that unless South Dakota specifies a default commercial energy code, that designers are obligated to follow the current energy code, IECC 2015. The City of Sioux Falls recognized this issue and made the following amendment to the IBC 2015 when they adopted it:

[E] 1301.1.1 Criteria. Buildings shall be designed and constructed in accordance with the **2009** *International Energy Conservation Code*.

Commentary: *This clarifies that the less stringent energy conservation provisions of the 2009 International Energy Conservation Code is the applicable standard for determining energy efficiency standards.*

<http://www.siouxfalls.org/planning-building/building/2015-icodes/2015-ibc-ordinance-commentary>

The other issue, expressed by building code officials, is the difficulty in working with a system that has no uniform minimum standard for energy efficiency for commercial buildings.

Please note that this bill keeps in place the flexibility for Cities to adopt their own minimum energy efficiency standards for commercial construction. This bill only provides the default commercial energy code when a local building code ordinance has not been adopted.

This bill has the support of SD AIA, SD Chapter of ASHRAE, and Black Hills Chapter of ASHRAE. This bill was presented at the South Dakota Building Officials Association summer meeting and it received their support. We would greatly appreciate your support in helping educate South Dakota lawmakers on why we need to pass the following bill to amend SD 11-10-6.

FOR AN ACT ENTITLED, An Act to revise certain standards for new construction where building code ordinance has not been adopted.

BE IT ENACTED BY THE LEGISLATURE OF THE STATE OF SOUTH DAKOTA: Section 1. That Chapter 11-10-6 be amended to read:

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11-10-6. Standards for new construction where building code ordinance has not been adopted. 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. For the purposes of this section, the 2009 International Energy Conservation Code is the required version of the International Energy Conservation Code within the International Building Code. 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.

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.



The ASHRAE Winter Conference and AHR Expo is just around the corner in Las Vegas! If you plan on attending or are thinking about it, the dates are January 28 – February 1, 2017. It is a great opportunity to be part of Technical Committees you might be interested in as well as training opportunities. Visit www.ashrae.org to see the winter conference information and www.ahrexpo.com for the AHR expo information.