

ASHRAE BLUEPRINT

December 2014

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PRESIDENT'S MESSAGE Mike Thompson

**Chapter Meeting: Wednesday December 3, 2014 @
Westward Ho (The Country Club of Sioux Falls)
Social 11:00 AM, Lunch 11:30 AM, Program 12-1:00 PM**
RSVP at the link below no later than noon on Monday, December 1st.
<http://sdashrae.org/meetinginfo.php>.

Chapter Members and Guests,

Season's greetings to all as we enter this holiday season. This month's meeting as well as the January meeting will both be lunch meetings. Please try and fit ASHRAE into your busy schedule.

This month's speakers will be Tim O'Keefe and Jack Atkins from Synergic Engineering Corporation. They will be presenting on dust collection requirements for explosive ducts. Please see Tim's bio in the CTTC section of the BluePrint. Also this month, Blake Ellis, Director and Region IX Chair, will be attending our BOG and monthly meeting. Blake will provide an update on Region IX activities.

Our January speaker will be Dan Chudecke from BJ Mulcahy. Dan will also be conducting a technical seminar in conjunction with his visit to Sioux Falls. More information on the subject, time and location will be provided in mid-December.

The BOG would like to welcome Kasey Abbott to the Government Affairs Committee. We still have the BOG, 3rd Board Member position open. If you are interested in any of the committees or the open board position please contact a BOG member.

Another reminder that the 2015 ASHRAE/AHR Expo will be in Chicago at the Palmer House Hilton with the AHR Expo at McCormick Place from January 24-28th. Please see official information included in this addition of the BluePrint.

The BOG will meet at 10:30 prior to the general meeting.

See you at The Club.

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CTTC Mike Fellows

Guest Speaker: Jack Atkins and Tim O'Keefe, Synergic Engineering Corporation

Synergic Engineering has been serving the dust collection and pollution control needs of our customers in the Upper Midwest since 1984. Determination of airflow requirements, system design, selection of the appropriate dust collector or fume collector and the tracking of your project from inception to commissioning and beyond is our business. Jack Atkins and Tim O'Keefe have a combined 47 years of dust collection experience

We provide for a wide array of industries and applications including agriculture and seed processing, aluminum sawing, blasting (sand blasting, bead blasting, shot blasting, and grit blasting), ceramic, chemical processing, fiberglass and FRP applications, flame spraying, food processing, foundry applications, laser cutting, manufacturing, mining (crushers and concentrators), paper dust, plasma cutting, thermal spraying, welding and woodworking and wood shop applications.

Presentation Title: Dust Collection for Explosive Dusts.

The presentation will be a review on dust collection requirements for explosive dusts. System design and an overview on the elements of an explosion hazard with an overview of NFPA 654: Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, processing, and handling of combustible particulate solids will be presented. Included in the presentation, will be video clips of dust collector explosions filmed during the testing of dust collection equipment

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.

Research John Schwartz

We will be having our ASHRAE Research Donor Appreciate night at the December Chapter meeting. It gives us the opportunity to thank everyone that so graciously gave to the Campaign last year. The RP Campaign raises over \$2.2 million a year from over 6,000 donors. These donors are made up of ASHRAE Members, industry associations, and industry organizations. Over all, your support is helping to fund more than \$14million worth of research worldwide this year along with benefiting numerous other ASHRAE programs. These other programs include Scholarships for undergraduate students, Learning Institute courses, Graduate Research Projects and Young Engineers Leadership training.

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Government Affairs Kasey Abbott

U.S. and China Make Joint Announcements for Climate Change Mitigation - Energy Efficiency Discussed

U.S. President Barack Obama and Chinese President Xi Jinping announced plans to reduce greenhouse gas emissions (GHG) in their respective countries. **Energy efficiency in general, and in buildings specifically** was mentioned in the Joint Announcement. The Joint Announcement can be viewed [here](#).

ASHRAE believes that it and its members have an important role to play in mitigating and adapting to climate change. Our Position Document on Climate Change can be viewed [here](#). ASHRAE's Public Policy Issue Brief on Climate Change and Building Energy Efficiency can be found [here](#).

For additional information on federal issues, please contact Mark Ames, ASHRAE's Senior Manager of Federal Government Affairs, at mames@ashrae.org.

Congressional Negotiations Ongoing for National Defense Authorization Act

Although Members of Congress are working back in their Districts and states until after the November elections, the gears of policymaking continue turning here in Washington, DC. The U.S. Department of Energy (DOE) has been particularly active, as seen in the many proposed rules and requests for information issued in the past few weeks, which are discussed later in this edition of the *Update*.

On the Congressional side, staff from the House and Senate have begun meeting to discuss what specific provisions the final version of the National Defense Authorization Act (NDAA) for Fiscal Year 2015 will include. The House passed its version of the NDAA in May, and the Senate will pass its version in November or December. A Conference Committee of leaders from both chambers will then meet to craft a final bill - the conference report - that reflects negotiations between the House and Senate versions, and will be voted on by the House and Senate and then presented to the President, who is expected to sign it into law. The pre-conference discussions now being engaged in by congressional staff will help speed talks during the formal conference.

Background on the NDAA FY 2015, including reference in the Senate version to ICC 700 National Green Building Standard, is available [here](#).

DOE Issues Final Rule on the Federal Gov't Use of Green Building Rating Systems

The U.S. Department of Energy DOE has issued a final rule on green building certification systems for federal buildings. The ruling provides flexibility for federal agencies that use a green building certification system for a new building or major renovation. Included in the ruling are criteria that these systems must meet. Among these criteria is a new requirement for a post-occupancy assessment of energy and water savings for the rating buildings to be conducted at least every four years after initial occupancy.

Under the Energy Independence and Security Act of 2007, DOE is required to identify a green building certification system and level that will be used by federal agencies. DOE's determination must be based on the U.S. General Service Administration (GSA) review of third-party green building certification systems levels, and criteria.

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The ruling applies to certain new federal buildings and major renovations to federal buildings for which design for construction began on or after October 14, 2015.

The full rule can be viewed [here](#).

ASHRAE previously submitted comments on this rulemaking. For additional information, please contact Mark Ames, ASHRAE's Senior Manager of Federal Government Affairs, at mames@ashrae.org or 202-833-1830.

ASHRAE Standards Discussed in Proposed Rule on Fossil Fuel-Generated Energy Consumption Reduction for New Federal Buildings and Major Renovations of Federal Buildings

ASHRAE Standards 90.1, 189.1, 100, and Advanced Energy Design Guides are all discussed in a supplemental notice of proposed rulemaking by DOE on fossil fuel-generated energy consumption reduction for new federal buildings and major renovations of federal buildings. In this rulemaking, DOE responds to previous comments received, and seeks additional comments and approaches for fossil fuel-generated energy consumption reduction for federal buildings.

ASHRAE is currently considering submitting official comments.

The rulemaking can be found [here](#).

DOE Issues Request for Information on Planning for 2017 Solar Decathlon

DOE is seeking information that will inform the design, planning, and implementation of the 2017 Solar Decathlon. The Solar Decathlon brings together collegiate teams that design, build, and operate solar-powered homes. These often innovative homes are displayed to the public, free of charge, and provide college students with unique hands-on training and experience, while educating the public on buildings-related issues.

ASHRAE has long-standing involvement with the Decathlon both at the Society-level and through Chapters and Student Branches.

The request for information is available [here](#).

Public Comment Sought for DOE Draft Document on Buildings-to-Grid Integration and Related Areas of Research

The U.S. Department of Energy is seeking public comment on a new draft document entitled "Transaction-Based Building Controls Framework, Volume I: Reference Guide". Comments are due by November 10, 2014. The full notice can be found [here](#).

The 2014-2015 South Dakota Chapter ASHRAE Line-up:

Sept 11

Noon

Chris Mathis, MC2 Mathis Consulting Company
"Why Buildings Matter and the Role of ASHRAE 90.1" ASHRAE Distinguished Lecturer

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Oct 8	Evening	Jeffrey D. Schmitt, Chief Planning and Zoning Official, City of Sioux Falls, South Dakota <i>“How the Planning Division Provides Direction for the Physical Development and Quality of Life Within the City – During a Construction Season and Out to 25 Years”</i>
Nov 5	Evening	Jordan Daniow, Seresco <i>“The Science of Natatorium Design” Past Presidents and Student Night</i>
Dec 3	Noon	Tim O’Keefe and Jack Atkins, Synergic Engineering Corporation <i>Dust Collection for Explosive Ducts</i>
Jan 7	Noon	Dan Chudecke, Mulcahy Co. Hydronics/Boiler Seminar
Feb 13 th or 14 th	Valentines Event	Dinner Theatre
Mar 4	Evening	To be determined
April 1	Evening	To be determined <i>Student Night</i>
May		<i>Fishing</i>
May 29		<i>Golf – Brandon Golf Course</i>



Join ASHRAE at its **Winter Conference** in
Chicago, Jan. 24–28 **and AHR Expo** Jan. 26–28

- Gain personal and career excellence through peer contact, exchange of technical information and continuing education.
- 20 high-quality, authoritative Professional Development Seminars and Short Courses presented by the ASHRAE Learning Institute.
- Visit the World's Largest HVAC&R Marketplace. The AHR Expo brings the entire industry together to see the latest products and technology, learn about innovations and trends that are shaping the future, and build new relationships.
- With the Conference being held in the big city of Chicago, the Technical Program itself is going big with a focus on big projects, the big picture and big impacts. Eight tracks are featured.
- Gain valued credentials held by top engineers via ASHRAE's six Certification programs.
- See the technology you help create first-hand via a Technical Tour.

Special first time attendee registration fee available!
Advanced registration, offering the lowest rates, ends Nov. 3.

**REGISTER
EARLY!**

www.ashrae.org/chicago | www.ahrexpo.com

