

ASHRAE BLUEPRINT

April 2017

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Mike Thompson

Research Promotion
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Newsletter
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Publicity
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Special Events
Kevin Eggert

Reception
Kyle Christensen

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Kasey Abbott

Refrigeration Committee
Jeremy Eitrem

Webmaster
Blake Lynch



PRESIDENT'S MESSAGE John Schwartz

Chapter Meeting: Wednesday April 5th @
The Country Club of Sioux Falls
Social 5:00, Dinner 5:30, Program 6:00-7:00

RSVP at our Chapter homepage (www.sdashrae.org) no later than Noon on Monday, April 3rd. <http://sdashrae.org/meetinginfo.php>.

Chapter Members and Guests,

April's evening meeting will wrap up our formal meetings for the year. It should be a big night. We will have another DL speaker, it will be Student night where we present scholarships to the SDSU & MTI ASHRAE Student recipients and we honor our past presidents along with a new addition of Life Members. Let's have a great turnout for our last meeting before summer!

I wanted to take this opportunity in the Blueprint to thank our BOG & Chairs for your assistance & support this past year. I believe we accomplished a lot and I look forward to wrapping things up at the Golf outing in May.

As a last request, I am reaching out to our members to please consider stepping up to fill in our open at-large positions on the BOG. For me, it has been a very rewarding experience to be part of the Board & also Chair several committees over the years.

Don't forget you may utilize our Chapter webpage (<http://sdashrae.org/>) to save future meetings to your calendar. Go to the Events tab, then you can select any of the future meetings which will take you to the link with that meeting's information and an icon to Add to Calendar.

Please mark your calendars and register early. See you all Wednesday April 5th at The Country Club!

-John

ASHRAE BLUEPRINT

CTTC
Justin Almond

Bruce D. Hunn, Ph.D., Fellow ASHRAE, Fellow ASES
3324 Harden Rd.
Raleigh, NC 27607

Bruce Hunn served as ASHRAE's Director of Strategic Technical Programs since 2008, retiring June 30, 2010. Prior to that, he served as the Society's Director of Technology 1997-2008. He currently is an active Life member of ASHRAE, serving on Technical Committee 7.6 (Building Energy Performance) as Chair, on Standard Project Committee 211 (Building Energy Audit Procedures), and serves as a Distinguished Lecturer. He received the ASHRAE Distinguished Service Award in June 2016.

While on ASHRAE staff Hunn oversaw ASHRAE's special projects, such as the *Advanced Energy Design Guide series*, the *Advanced indoor Air Quality Guide*, the *Performance Measurement Protocols for Commercial Buildings*, and the 2012 publication *Performance Measurement Protocols: Best Practices Guide*. He developed strategic collaborations with several other organizations and Federal agencies; he served on the Research Committee and Technical and Scientific Advisory Committee of the US Green Buildings Council from 2006-2009, and the USGBC Research Advisory Committee from 2007-2012.

Prior to joining ASHRAE, Hunn served as head of the Building Energy Systems Program, Center for Energy Studies, the University of Texas at Austin. There, he directed research programs addressing energy use in buildings, including developing and applying building energy analysis computer programs in the analysis of heating/cooling systems for reduced peak demand and fossil fuel use in buildings. He also developed a building energy standard for the state of Texas and headed a five-year study on energy use patterns in Texas state facilities.

In addition to being an ASHRAE Fellow, he is a Fellow of the American Solar Energy Society (ASES). He has held several leadership positions in ASES, including chairman in 1986 and 1987.

Hunn has authored or co-authored 107 articles, technical reports and papers, along with eight books or chapters, including *Solar Heating Technologies: Fundamentals and Applications*. He has given numerous presentations on topics related to passive solar energy, energy efficiency in buildings, and fabric solar shades for residential and commercial buildings.

He holds a doctorate, a master of science and a bachelor of science in mechanical engineering from Stanford University, as well as a bachelor of arts in engineering from the University of Redlands.

Afternoon Presentation Title: ***"Best Practice for Evaluating and Improving Commercial Building Performance."***
And "Building Energy Quotient: ASHRAE's Building Energy Labeling Program."

Evening Presentation Title: ***"Building Energy Performance Protocols and Their Application."***

NEWS FROM DENVER A TRAINING OPPORTUNITY

ASHRAE is organizing the 3-day HVAC Design: Level I – Essentials and the 2-day HVAC Design: Level II – Application training in Denver, CO on September 18-20 and September 21-22, 2017 respectfully. Please follow this link for more information:

<https://www.ashrae.org/education--certification/hvac-design-and-operation-training/denver-hvac-design-training-september-2017>

ASHRAE BLUEPRINT

SPECIAL EVENTS

Kevin Eggert

Please join us for the annual ASHRAE golf event on Friday May 26th at the Brandon golf course. The rules will be read at 10:00 a.m. with a shotgun start immediately after that. The golf will consist of a traditional 4 man best ball scramble. Cash prizes will be paid to the top two teams in each flight. Door prizes will also be given out at the event. The entry fee is \$80.00 per player which will include a catered meal. Gimmes and mulligans will be available for purchase during online registration (available April 15th) or the day of the event. If you or your company is interested in sponsoring a hole please contact Kevin Eggert with Climate Systems @ keggert@climatesystemsinc.com. Hope to see you all there!!!



YEA (Young Engineers in ASHRAE)

Blake Lynch



We had 9 people in attendance for our winter YEA golf outing. There were a couple teams set up for best ball and one table that decided to go with the hunting simulator. We only made it through about 9 holes but it was a good turnout overall. Thanks for all that attended – we will plan on having more events next year!



Jordan deWit, David Wagner, and Aaron Kompelien enjoy a break during a rousing round of fake golf at the YEA gathering last month.

ASHRAE BLUEPRINT

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	Gordon Sharp, PE, Aircuity "New Approaches to Slash Commercial Building Energy Use and Improve IEQ" (Distinguished Lecturer)
Jan 11	Afternoon Seminar	Gordon Sharp, PE, Aircuity "A Holistic Overview of Technologies and Strategies To Achieve Deep Energy Reductions in Labs." (Distinguished Lecturer)
Feb 17	Valentines Event	Olde Towne Dinner Theatre
Mar 8	Noon	Jeff Schmitt, City Planning & Zoning Official "Future of Sioux Falls Development"
April 5	Afternoon Seminar	Bruce Hunn, Ph.D <i>"Best Practice for Evaluating and Improving Commercial Building Performance." And "Building Energy Quotient: ASHRAE's Building Energy Labeling Program."</i> (Distinguished Lecturer)
April 5	Evening	Bruce Hunn, Ph.D <i>"Building Energy Performance Protocols and Their Application."</i> (Distinguished Lecturer) Student, Past Presidents, & Life Members 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>

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.



2017 ASHRAE Annual Conference Technical Program Now Available

Start planning your itinerary for the 2017 ASHRAE Annual Conference in Long Beach, Calif. Technical Program Tracks focus on resources to design, build, control, commission, and operate highly efficient facilities. **Eight Conference Tracks Include:**

- Building Life Safety Systems **NEW**
- Commissioning: Optimizing New and Existing Buildings and their Operation
- Controls **NEW**
- Fundamentals and Applications
- HVAC&R Systems and Equipment
- Net Zero Energy Buildings: The International Race to 2030 **NEW**
- Refrigeration





- Residential Buildings: Standards Guidelines and Codes **NEW**
61 Seminars | 8 Workshops | 7 Forums | 2 Panels | 3 Debates
26 paper sessions consisting of 71 Conference Papers and 19 Technical Papers

[LEARN MORE / REGISTER](#)

P.S. Easily request employer support using templates from our [Conference Justification Toolkit](#).


We'll see you in Long Beach!

Get To Know ASHRAE

To avoid having ASHRAE messages blocked by spam-blocking software, add meetings@ashrae.org to your address book.

You are receiving this email from ASHRAE because you are a member, purchased a product/service, or requested to be notified of educational opportunities from ASHRAE. To no longer receive these updates, [unsubscribe or manage your email preferences](#).

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ASHRAE Learning Institute

2017 Online Course Series

2 WAYS TO REGISTER

Internet: www.ashrae.org/onlinecourses

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

One-part course (3 hours) **\$284 (\$219 ASHRAE Member)** – -- -- Two-part course (6 hours) **\$484 (\$359 ASHRAE Member)**

NEW! Complying with Standard 90.1-2016: Envelope/Lighting
Wednesday, April 5, 2017 – 1:00 p.m. to 4:00 p.m.

NEW! Complying with Standard 90.1-2016: HVAC/Mechanical
Tuesday, April 11, 2017 – 1:00 p.m. to 4:00 p.m.

NEW! Complying with Standard 90.1-2016: Appendix G
Tuesday, April 18, 2017 – 1:00 p.m. to 4:00 p.m.

Air-to-Air Energy Recovery Fundamentals
Wednesday, May 3, 2017 – 1:00 p.m. to 4:00 p.m.

Air-to-Air Energy Recovery Applications: Best Practices
Tuesday, May 9, 2017 – 1:00 p.m. to 4:00 p.m.

Humidity Control: Basic Principles, Loads and Equipment
Tuesday, June 13, 2017 – 1:00 p.m. to 4:00 p.m.

Humidity Control: Applications, Control Levels and Mold Avoidance
Tuesday, June 20, 2017 – 1:00 p.m. to 4:00 p.m.

NEW! New ASHRAE-Classified Refrigerants to Meet Society's Changing Needs
Tuesday, July 11, 2017 – 1:00 p.m. to 4:00 p.m.

NEW! Variable Refrigerant Flow System: Design & Application
Tuesday, July 18, 2017 – 1:00 p.m. to 4:00 p.m.

Advanced High-Performance Building Design
Wednesday, August 9, 2017 – 1:00 p.m. to 4:00 p.m.

NEW! Fundamental Requirements of Standard 62.1-2016
Wednesday, September 6, 2017 – 1:00 p.m. to 4:00 p.m.

Laboratory Design: The Basics and Beyond
Tuesday, October 10, 2017 – 1:00 p.m. to 4:00 p.m.

Introduction to Ultraviolet Germicidal Irradiation (UVGI) Systems
Monday, October 16, 2017 – 1:00 p.m. to 4:00 p.m.

NEW! Complying with Standard 90.1-2016
Part I: Wednesday, November 1, 2017 – 1:00 p.m. to 4:00 p.m.
Part II: Tuesday, November 7, 2017 – 1:00 p.m. to 4:00 p.m.

NEW! Variable Refrigerant Flow System: Design & Application
Wednesday, November 29, 2017 – 1:00 p.m. to 4:00 p.m.

NEW! New ASHRAE-Classified Refrigerants to Meet Society's Changing Needs
Tuesday, December 5, 2017 – 1:00 p.m. to 4:00 p.m.

ASHRAE HVAC Design & Operation Training

3 Courses, 7 Days of Intense Instruction

Atlanta • Chicago • Denver • Hartford • Seattle • Toronto

Improving Existing Building Operation - Registration is \$599 (\$499 ASHRAE Member)

Identify ways to improve existing HVAC system efficiencies and reduce utility expenses while maximizing performance of the building systems. This training details proper system operation and maintenance and introduces methods for evaluating potential system improvements.

HVAC Design: Level I – Essentials - Registration is \$1,264 (\$1,009 ASHRAE Member)

Gain practical skills and knowledge in designing and maintaining HVAC systems that can be put to immediate use. The training provides real-world examples of HVAC systems, including calculations of heating and cooling loads, ventilation and diffuser selection using the newly renovated ASHRAE Headquarters building as a living lab.

HVAC Design: Level II – Applications - Registration is \$854 (\$699 ASHRAE Member)

HVAC Design: Level II – Applications provides instruction on HVAC system design for experienced HVAC designers and those who complete the HVAC Design: Level I – Essentials training. The training provides information that allows practicing engineers and designers an opportunity to expand their exposure to HVAC systems design procedures for a better understanding of system options to save energy.

Visit www.ashrae.org/hvactraining to register and learn how your Chapter can earn PAOE points.

Contact Karen Murray (kmurray@ashrae.org) to discuss scheduling ASHRAE HVAC Training in your Chapter area.