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www.ashraeiowa.org

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THIS MONTH AT ASHRAE

Resource Promotion

Date:

Monday, February 17th

Schedule:

2:00-5:00PM: Tech Sessions
5:00-6:00PM: Social Hour
6:00-7:00PM: Chapter Meeting /
Dinner

Location:

Johnny's Italian Steakhouse
6075 Mills Civic Parkway
West Des Moines, IA
[click for map](#)

Tech Sessions:

2:00-2:50PM: How to Implement
Demand Control Ventilation &
Comply with ASHRAE Standards

3:00-3:50PM: Using ASHRAE
Standard 62.1-2010 Multiple
Spaces Equations

4:00-4:50PM: Retro-
commissioning for Energy Savings

Tech Session Cost:

\$30 for ASHRAE Iowa Chapter
members
\$60 for non-members

Chapter Meeting/Dinner Cost:

Free to ASHRAE Iowa Chapter
members
\$20 for Guests

RSVP:

Please register for either or both
events via the ASHRAE Iowa
website.

Please Note: Registration for the
chapter meeting/dinner may fill
up. Members are still welcome to
use the registration page link
below to be put on the waiting
list but we can't guarantee that
a meal will be available.

Use the Event Registration page
at ASHRAEIowa.org



Come join us at Johnny's Italian Steakhouse on Monday, February 17th for afternoon tech sessions and a dinner meeting.

Our guest speaker will be ASHRAE Distinguished Lecturer Hoy Bohanon, PE, LEED AP, BEAP and Director of Energy Programs for WorkingBuildings, LLC. Mr. Bohanon has written technical papers and articles on indoor air quality, operations, and maintenance and is a frequent presenter at technical society meetings. He is a recipient of the ASHRAE Distinguished Service Award and is vice-chair of ASHRAE Standard 62.1 committee, *Ventilation for Acceptable Indoor Air Quality*.

See you there!

PAST PRESIDENTS

Matt Jesson	2012-2013
Kelly Crow	2011-2012
Holly Elbert	2010-2011
Roger Leshner	2009-2010
Kit Cartwright	2008-2009
Jerrod Sieverding	2007-2008
Jason Kems	2006-2007
Chuck Heldenbrand	2005-2006
Jeff Gross	2004-2005
Ron Engelhardt	2003-2004
Dan Zaig	2002-2003
Susan Oltrogge	2001-2002
Christopher Nelson	2000-2001
Donald Swanson	1999-2000
Edward Truslow	1998-1999
James Hall	1997-1998
Robbin Vannoy	1996-1997
Mark Conway	1995-1996
Paul Melfon	1994-1995
Gregory Maxwell	1993-1994
Jeffery Hammer	1992-1993
Jack Culp	1991-1992
James Lee	1990-1991
Clint Leonard	1989-1990
Charles Pedersen	1988-1989
Gary Reynolds	1987-1988
Dennis Hogan	1986-1987
Eugene Zefron	1985-1986
Donald Hagge	1984-1985
Robert Rist	1983-1984
Joseph Proctor	1982-1983
Mark Allen	1981-1982
Curtis Klaassen	1980-1981
Gerald Anderson	1979-1980
C.W. Miller	1978-1979
Richard South	1977-1978
Verne Stewart	1976-1977
Curtis Hammer	1975-1976
Ralph Schilling	1974-1975
Donald Bonicamp	1973-1974
Kent Mosher	1972-1973
Thomas Van Hon	1971-1972
Robert McBride	1970-1971
William Whitman	1969-1970
Einar Dahl	1968-1969
Eugene O'Neil	1967-1968
James Green	1966-1967
Neil Hanson	1965-1966
Bob Flanagan	1964-1965
Lyndon Kelley	1963-1964
Elwood Giberson	1962-1963
Vern Polly	1961-1962
John Bain	1960-1961
Crom Campbell	1959-1960
R.T. Howard	1958-1959
W.A. Schworm	1957-1958
D.E. Schroeder	1956-1957
G.J. Kraai	1955-1956
W.E. Nanes	1954-1955
J.F. Sandfort	1953-1954
R.H. Schnell	1952-1953
C.H. McGuiness	1951-1952
R.S. Stover	1950-1951
D.E. Wells	1949-1950
D.C. Murphy	1948-1949
C.A. Wheeler	1947-1948
E.O. Olson	1946-1947
B.E. Landes	1945-1946
W.W. Stuart	1944-1945
C.W. Helstrom	1943-1944
P.E. Triggs	1942-1943
Perry LaRue	1941-1942
R.A. Norman	1940-1941
Tracy Johnson	1939-1940
W.R. White	1938-1939

President's Corner



The January meeting at the Ramada Tropics was a great way for our membership to branch outside of the technical side of the HVAC industry and gain more knowledge on the topic of ethics. Special thanks to Nick Maletta from Holmes Murphy for better explaining how ethics can play a role in your daily lives and how your values are formed over time with influence from family, religion, society, etc. The case study on Citigroup Headquarters in New York, NY was a practical example of some of the challenges that someone may encounter and how important it is to step up when you make a mistake to come up with a solution. In the study, the engineer identified an issue with the construction of the building that could affect life safety. He could have easily walked away, but his values kicked in and involved all parties to come up with solution.

The YEA happy hour this month was a blast from the 80s and 90s at UpDown in East Village. I attended this event and it was great way to promote membership of younger members in the chapter. It was a very relaxed setting with WWF and American Gladiators playing on televisions in the background. A few non-members attended and have already requested to become

members. Thanks to the YEA Chair, Val Hageman, for coordinating this event. Feel free to contact Val is you know of any other 35 or under HVAC industry professionals looking to get more involved in an organization that give so much back to their membership.

Next week, Distinguished Lecturer Hoy Bohanon is coming to our local chapter providing our members an opportunity to earn 3 more professional development hours. He will be talking to us about Indoor Air Quality and Energy Savings techniques which are both topics that were identified through the survey we conducted at the beginning of my term. Dinner and drinks will follow the technical session which will be a great way to network with your peers and ask any questions you may have for Hoy. Johnny's Italian Steakhouse never fails to serve up a great dinner so get signed up for this event.

Remember that dinners are included in your Iowa Chapter Fees so be sure to take advantage of it. I look forward to seeing you all at the meeting on Monday.

Tim Conrad
Iowa ASHRAE Chapter
President 2013-2014

UPCOMING CHAPTER MEETINGS

February 17th
Afternoon tech session on "How to Implement Demand Control Ventilation and Comply with ASHRAE Standards". Dinner meeting to follow.

Location:
Johnny's Italian Steakhouse
West Des Moines, IA

March 6th
Dinner meeting followed by presentation on "Refrigerants – Past, Present & Future"

Location:
Ramada Tropics Resort
5000 Merle Hay Rd
Des Moines, IA

ASHRAE Iowa January Meeting



The January meeting was a Membership Promotion lunch meeting held at the Ramada Tropics Conference Center. In honor of promoting membership, BOG member Dan Ponxs offered a jar of candy as a prize to anyone who could guess the current ASHRAE Iowa Chapter membership count. The correct answer was 325 members! No one guessed the correct number so Dan kept all of the candy for himself.....

Nick Maletta from Holmes Murphy & Associates gave an entertaining presentation on "Engineering Ethics" in our industry. This was a topic not often covered in our meetings but one that was still informative and educational.

2014 YEA Happy Hour

The annual YEA (Young Engineers in ASHRAE) Happy Hour was held on Wednesday, February 5th at the new Up-Down arcade bar in the East Village. The event was open to anyone in the industry age 21-35, ASHRAE members and non-members.



February Meeting



Iowa Chapter

Resource Promotion Meeting and Tech Session

Date: Monday, February 17, 2014

Schedule:

2:00PM – 5:00PM Tech Session (with the following segments):

2:00PM – “How to Implement Demand Control Ventilation & Comply with ASHRAE Standards”

3:00PM – “Using ASHRAE Standard 62.1-2010 Multiple Spaces Equations”

4:00PM – “Retro-commissioning for Energy Savings”

5:00-6:00PM: Social Hour

6:00-7:00PM: Dinner and business meeting

Location:

Johnny's Italian Steakhouse, West Des Moines

Speaker:

HOY R. BOHANON, JR., P.E.

Director of Energy Programs, WorkingBuildings, LLC
Winston-Salem, NC

Hoy Bohanon, PE, LEED AP, BEAP is director of the Energy Programs for WorkingBuildings. WorkingBuildings is a professional services firm whose offerings include building commissioning, sustainability consulting, and laboratory compliance services. Mr. Bohanon began his engineering career as a research and design engineer, and then gained experience as a project engineer, facilities engineer, facilities manager, indoor air quality research engineer, environmental engineer, and business owner. He has a master's degree in engineering from North Carolina State University, and a bachelor's degree in mechanical engineering from Georgia Institute of Technology.



Mr. Bohanon has written technical papers and articles on indoor air quality, operations, and maintenance and is a frequent presenter at technical society meetings. He is a recipient of the ASHRAE Distinguished Service Award and is vice-chair of ASHRAE Standard 62.1 committee, *Ventilation for Acceptable Indoor Air Quality*. He also serves on the bEQ committee, Building Performance Alliance ad-hoc committee, and TC5.5 Air-to-Air Energy Recovery. He is chair of the US Technical Advisory Group panel 1 (general principles) and panel 4 (indoor air quality) for ISO TC205 *Building Environment Design*. He is a co-author of *The Indoor Air Quality Guide: Best Practices for Design, Construction and Commissioning* and *Performance Metric Protocols for Commercial Buildings: Best Practices Guide*. He also teaches multiple courses for the ASHRAE Learning Institute addressing ASHRAE 62.1 and IAQ. Mr. Bohanon is also a member of the Professional Engineers of North Carolina, US Green Building Council, and ASHE.

February Meeting (cont.)

LECTURE TOPICS

► How to Implement Demand Control Ventilation and Comply with ASHRAE Standards

GBCI Approved | 1 CE Hour | 0090010478

AIA Approved | 1LU/HSW | BOHANON02

ASHRAE standards 90.1 and 189P require demand control ventilation in some instances. ASHRAE standard 62.1 allows demand control ventilation but places restrictions on its application. Many existing installations do not comply with the requirements of ASHRAE Standard 62.1. What is required and what strategies and technologies can be used to meet the requirements of all the standards?

► Retro-commissioning for Energy Savings

GBCI Approved | 1 CE Hour | 0090010481

AIA Approved | 1LU/HSW | BOHANON03

What is retro commissioning? Is it required by LEED? How can a process save energy? What are some of the aspects of an energy saving retro-commissioning application? What guidance is available from ASHRAE guidelines? What are the types of savings from the process and what are the critical components to assure that savings are realized?

► Using ASHRAE Standard 62.1-2010 Multiple Space Equations

GBCI Approved | 1 CE Hour | 0090010484

AIA Approved | 1LU/HSW | BOHANON04

Use of the multiple spaces equation is now a code requirement in many areas and is a requirement of LEED for any new building that uses multiple space ventilation systems. Why is the equation there? How do you use the equations? What are the two options? Does the system approach make a difference in the quantity of outdoor air required? This presentation presents answers and discussion points for these important questions.

ASHRAE Iowa Research Promotion – Corporate Donors Needed!

Thank you to all of the individuals and companies that have donated to the ASHRAE Iowa Research Promotion fund so far this year, we are currently at 40% of our goal!

If your company has donated in the past but has yet to do so this year, please consider making a donation. It only takes a contribution of \$150 to make our honor roll and it goes to a really good cause, ASHRAE research!

ASHRAE Technology Awards Program



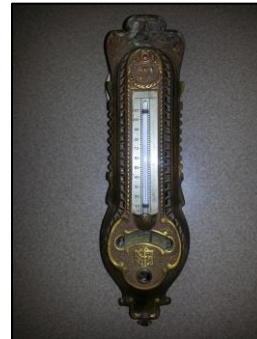
The ASHRAE Iowa Chapter is soliciting Technology Award Applicants. The purpose of the awards is three-fold:

- To recognize ASHRAE members who design and/or conceive innovative technological concepts that are proven through actual operating data.
- To communicate innovative systems design to other ASHRAE members.
- To highlight ASHRAE technological achievement to others, including associated professionals and societies worldwide, as well as building and facility owners.

If interested in submitting a project, contact Emir Kadic at kadice@kijww.com or Xiaohui (Joe) Zhou at xhzhou@iastate.edu. Submissions for the chapter level will be due by March 15th, 2014.

For more information on the Technology Awards Program visit <https://www.ashrae.org/membership-conferences/honors--awards/technology-awards-program>

ASHRAE's Attic & Antiques



Have you ever encountered pieces of HVAC history while working on remodel projects? Are you fascinated by the origins of modern HVAC equipment? If so, help us to launch our new section, ASHRAE's Attic & Antiques. We're trying to populate our newsletter and website with fascinating old photos and historical anecdotes, preferably with a local bent. Send your photos and stories to Matt Jesson at mattj@hvactab.com

The HVAC&R Industry

When 'Continuous Improvement' of Codes, Standards Is Neither

HOUSTON—The ever-increasing size and complexity of building codes and standards presents a problem to engineers, who have less time to fully and properly digest the tomes that define how they should practice their professions, writes Bob Zabcik, director of Research and Development for NCI Group, on the Star Building Systems blog. He illustrates his points by citing specific specifications and standards that have grown in size by as much as 15 pages per year for several decades. "So, how do we address this trend of growing complexity and shrinking time?... today's environment is one where 'can't see the forest for the trees' problems flourish. Fortunately, those problems are fairly easily spotted when put in front of a person who is capable of seeing the forest because they don't have an in-depth knowledge of the trees growing in it," he writes. He suggests engineers ask for help on projects from others not bogged down by minutiae. He writes "...let's do what doctors do in this situation: swallow our pride and ask for a consult from a practitioner whose experiences are different from our own."

[Read more](#)

Prototype Generator Harnesses Power From Humidity

CAMBRIDGE, Mass.—A new type of electrical generator uses bacterial spores to harness the power of evaporating water. Researchers at Harvard University's Wyss Institute of Biologically Inspired Engineering foresee electrical generators driven by changes in humidity from sun-warmed ponds and harbors. The prototype generators work by harnessing the movement of a sheet of rubber coated on one side with spores. The sheet bends when it dries out, much as a pine cone opens as it dries or a freshly fallen leaf curls, and then straightens when humidity rises. Such bending back and forth means that spore-coated sheets or tiny planks can act as actuators that drive movement, and that movement can be harvested to generate electricity. "Water evaporation is the largest power source in nature," said Ozgur Sahin, Ph.D., who led the study. "Sunlight hits the ocean, heats it up, and energy has to leave the ocean through evaporation," he explained. The research is published in Nature Nanotechnology.

[Read more](#)

Small Buildings Prompt Big News for Building Certification Organizations

WHATELY, Mass.—Two of the world's foremost building certification programs have been active in the early part of the year. The Living Building Challenge added to its exclusive portfolio. Smith College's Bechtel Environmental Classroom, a new 2,300 ft² (214 m²) learning center set on 240 acres (97 ha), has become only the fifth building in the world to be certified as a Living Building. Meanwhile, the Green Building Initiative, developer of the Green Globes program, has named Jerry Yudelson as its new president. The Tucson, Ariz.-based consultant says he wants to update the six-year-old program to make it faster and more accessible for smaller projects.

[Click here](#) to learn more about the new Living Building on the Smith College campus.

[Click here](#) to learn more about Green Building Initiative naming Jerry Yudelson as its new president.

Reasons to Breathe Easier About Bad Air

WASHINGTON—The air above the U.S. is becoming cleaner, and voters want action to make it even more so. U.S. voters strongly want action by the Environmental Protection Agency (EPA) to limit carbon pollution from power plants. According to a new survey conducted for the Sierra Club, around 70% of respondents support strong carbon pollution limits on power plants. The survey of 1,000 voters also found strong support among voters for moving away from coal and other dirty fuels and a preference for investing in clean energy. Total releases of toxic chemicals decreased 12% from 2011-2012, according to the U.S. Environmental Protection Agency's (EPA) annual Toxics Release Inventory (TRI) report released this week. The decrease includes an 8% decline in total toxic air releases, primarily due to reductions in hazardous air pollutant (HAP) emissions. "People deserve to know what toxic chemicals are being used and released in their backyards, and what companies are doing to prevent pollution," said EPA administrator Gina McCarthy.

[Click here](#) to read more about the Sierra Club survey.

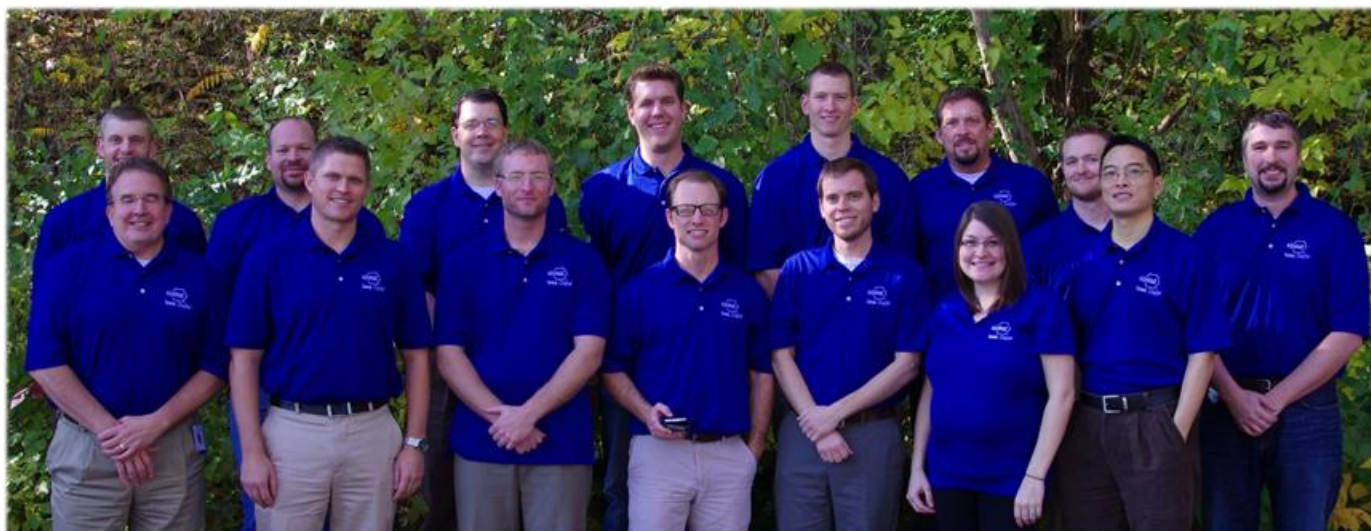
[Click here](#) to read more about EPA's Toxics Release Inventory.

2013-2014 Meeting Dates

MONTH	GENERAL MEETING	
	Topic	Date
July	-	-
August	-	-
September	Fall Frolic Golf Outing – Legacy Golf Club	5
October	Student Night / Membership Promotion	16
November	Research Promotion	12
December	Past Presidents / History (joint w/ CSI and SMCI)	16 (Lunch)
January	Membership Promotion	13 (Lunch)
February	Resource Promotion	17
March	Refrigeration	6
April	ASHRAE Webcast	17
May	Spring Fling Golf Outing	19

Winter Meeting	2014 Winter Conference – New York, NY	Jan 18-22
CRC	Region VI CRC – Iowa City, IA	May 1-3
Summer Meeting	2014 Annual Conference – Seattle, WA	Jun/Jul 28-2

Meet Your BOG Officers



Back Row (Left to Right)

Chris Deal, Refrigeration
 Dan Ponxs, BOG
 Jason Kems, e-Committee
 Luke Miller, RP
 David Poetting, GGAC
 Vince Sanders, RP
 Justin Barrett, President-Elect

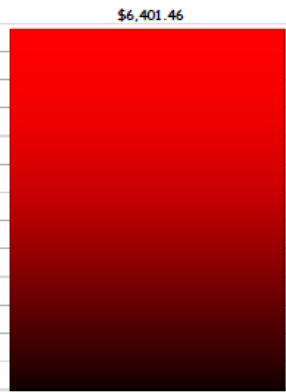
Front Row (Left to Right)

Dan Zaug, BOG
 Tim Conrad, President
 Kelly Crow, Honors/Awards
 Matt Gumm, Treasurer
 Matt Jesson, Historian
 Britt Vincent, CTC
 Xiaohui (Joe) Zhou
 Patrick Peterson, BOG

ASHRAE 2013-2014 Research Promotion Fund

ASHRAE Iowa Research Investors 2013-2014

Individual Investors HR = Honor Roll participants \$100 min	40.0% OF GOAL \$9,598.54 -TO GO!	Company Investors HR = Honor Roll participants \$150 min
Mr. Mark W Allen (HR)	\$16,000	A. J. Allen Mechanical Contractors Inc. (HR)
Mr. Justin J Barrett, PE (HR)	\$15,500	ASHRAE Iowa Chapter (HR)
Mr. Aaron Brace (HR)	\$15,000	Capitol R&D Inc. (HR)
Mr. Kit C. Cartwright (HR)	\$14,500	KJWW Engineering Consultants (HR)
Mr. Timothy J Conrad (HR)	\$14,000	MMS Inc. (HR)
Mr. Mark G Conway (HR)	\$13,500	System Management & Balancing Inc. (HR)
Mr. Kelly G Crow (HR)	\$13,000	VHF Sales, Inc. (HR)
Mr Einar Dahl Jr (HR)	\$12,500	Woodman Controls Company (HR)
Mr. Ronald Engelhardt (HR)	\$12,000	Millennium Technology Of Iowa (HR)
Mr. Matt Gumm, PE (HR)	\$11,500	
Mr. Jim E Hall (HR)	\$11,000	
Mr. Charles S Heldenbrand (HR)	\$10,500	
Mr. Rodney Heston (HR)	\$10,000	
Mr. Odean Jukam (HR)	\$9,500	
Mr. Emir Kadic (HR)	\$9,000	
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Mr. Paul K Melton (HR)	\$8,000	
Mr. Frederic L Miller (HR)	\$7,500	
Mr. Fred Miller (HR)	\$7,000	
Mr. Luke Miller (HR)	\$6,500	
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Mr. Vince Sanders (HR)	\$5,500	
Mr Don Stanek (HR)	\$5,000	
Mr. Dale Vest (HR)	\$4,500	
Mr. Daniel V Zaug (HR)	\$4,000	
Dr. Xiaohui (Joe) Zhou, PhD, PE (HR)	\$3,500	
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	\$0	



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