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 Mike Wolfe

TEGA
 lyhab Hasan

THIS MONTH AT ASHRAE

Research Promotion & IECC Code Update

Date:

Wednesday, March 18th

Schedule:

2:00-5:00 – Tech Session
 5:00-5:30 – Social Hour
 5:30-6:30 – Dinner & Meeting
 6:00-7:00 – Dinner Presentation

Social Hour:

Hart-Hammer, Inc.

Presentation:

Tech Session – Ron Jarnagain presenting on ASHRAE's Advanced Energy Design Guides (AEDG)

Dinner Session – Ron Vallort presenting on Construction Features of Refrigerated Spaces including Load Calculations

Location: (Note Change of Venue)

West Des Moines Marriott
 1250 Jordan Creek Parkway
 West Des Moines, IA 50266

Chapter Meeting/Dinner Cost:

Tech Session - \$20 for ASHRAE Iowa Members and \$30 for Non-Members

Dinner – Free for ASHRAE Iowa Members and \$20 for Non-Members

RSVP

["Click Here"](#) to register for the Tech Session

["Click Here"](#) to register for the Dinner

****Use Coupon Code MEMBER****

We have the honor to host two ASHRAE Distinguished Lecturer's this month!

Ron Jarnagain will be provide us with an afternoon technical session. Ron has a vast background in the HVAC and Mechanical Engineering field. Ron has chaired the ASHRAE Standard 90.1 committee for 4 years as well as a multidisciplinary team that produced the first Advanced Energy Design Guide (AEDG) for small offices. Ron Jarnagain has also served as part of a U.S. delegation to China to assist the Chinese Ministry of Science and Technology in planning for a Hydrogen Economy in China.

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PAST PRESIDENTS

Tim Conrad	2013-2014
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 Melton	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
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J.F. Sandfort	1953-1954
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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



Welcome to March. As the weather begins to thaw, I hope you keep ASHRAE in mind. We have a lot of great content coming up for our membership in the next few months to round out the chapter year. In February, we had great attendance for our lunch meeting on the topic of the Iowa Energy Code. Thank you to Dave Ruffcorn for speaking on the topic. This proved to be interesting subject matter that impacts many of our members.

Coming up in March, we have the honor of hosting 2 ASHRAE distinguished lecturers. On **Wednesday, 3/18/15** we have an afternoon technical session with Ron Jarnagin. Ron will be presenting on the topic of the ASHRAE Advanced Energy Design Guides. In the evening, as part of our regular chapter meeting, we will hear from Ron Vallort on Refrigeration System Design. You can register for each event separately. This gives you the option of attending for one of the

sessions, or both. Please note we have changed the location from previous communications on the March meeting. The venue is now the West Des Moines Marriott, 1250 Jordan Creek Parkway. Also, mark your calendars for the Spring Fling Golf Outing on **Monday, 4/27/15**. Look for more info in this newsletter.

One last note to all design firms and contractors reading this: Please consider submitting a project for our annual chapter technology awards. It is an easy process to fill out the short form to be considered at the chapter level, and move on to being recognized by ASHRAE region. It is also a free opportunity to gain valuable recognition for all of the hard work your companies do in our region. Contact our technology awards chair lyhab Hasan (lyhab.hasan@vatterott.edu) for more information, or visit the society web page: www.ashrae.org/technologyawards. The due date is coming up on March 16th, 2015, so hurry and register.

See you all at the next meeting.

Justin Barrett
ASHRAE Iowa Chapter
President
2014-15

UPCOMING CHAPTER MEETINGS

March 18th (Note Date Changed)
Refrigeration

3-5 Tech Session by
Ron Jarnagin

6-7 Presentation by
Ron Vallort

Location:
WDM Marriott

April 23rd
ASHRAE Webcast

12:00 to 3:00 CDT

April 27th
Spring Fling

Wakonda Club

TEGA Deadline – March 16, 2015

Now known simply as **Technology Awards**, recognizes ASHRAE members who design and/or conceive innovative technological concepts that are proven through actual operating data. Awards are given for new and retrofit applications for several categories of buildings, industrial facilities and processes. Chapter award winners can be submitted into Regional competitions, and Regional winners are invited to compete for Society level Awards. Applications are judged with respect to energy efficiency, indoor air quality, innovation, operation & maintenance, cost effectiveness, environmental impact and quality of presentation. Society level award winners get written up in the ASHRAE Journal.

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 Iyhab Hasan at iyhab.hasan@vatterott.edu. Submissions for the chapter level will be due by **March 16th, 2015**.

For more information on the Technology Awards Program visit:
<https://www.ashrae.org/technologyawards>

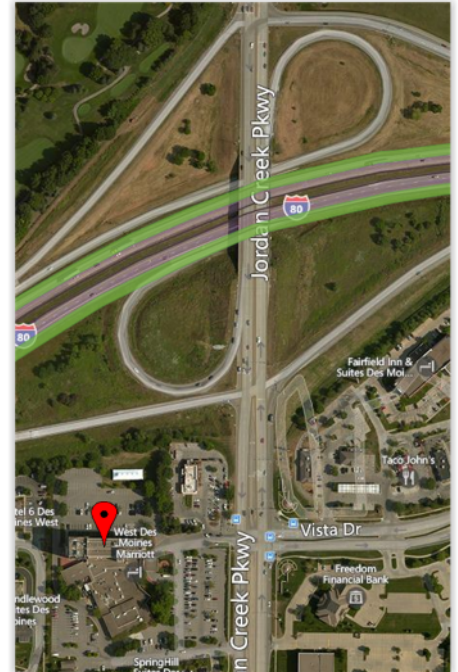
March Meeting (Wednesday the 18th)



Refrigeration

Schedule (times still to be finalized):

3:00-5:00: Tech Session by Ron Jarnagain
5:00-5:30: Social Hour
5:30-6:30: Dinner
6:00-7:00: Presentation by Ron Vallort



CHANGE OF LOCATION!!!

West Des Moines Marriott
1250 Jordan Creek Parkway
West Des Moines, IA 50266

Cost:

\$20 for Members
\$30 for Non-Members

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We are honored to host Ron Vallort and Ron Jarnagain as our speakers March 18th. Please mark the date on your calendars.

Speaker Bios:

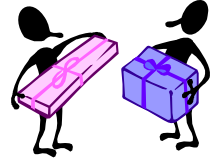
[Ron Jarnagain](#)

[Ron Vallort](#)



Sponsorships and Door Prizes

Proceeds will go to ASHRAE RESEARCH PROMOTION and the Iowa Chapter of ASHRAE.



All sponsorships must be requested and paid for by the registration deadline.

Silver - \$100

Gets you a **COLOR SIGN** at a tee box of one of the holes

Gold - \$250

also gets your name on a sponsorship list at the prize table and sponsors a pin event

Platinum - \$1,000

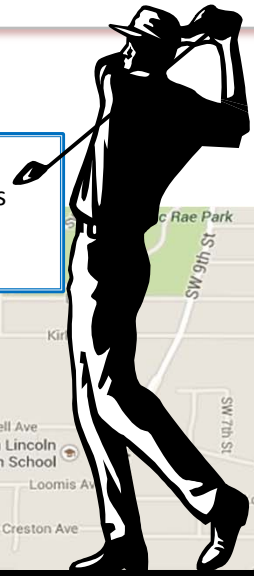
also gets your name at the registration table and sponsors the main door prizes

ALL sponsorship levels will have a portion of the sponsorship go to purchasing door prizes for the event. The main door prize will be given at the end of the event after dinner. You must be present to win.

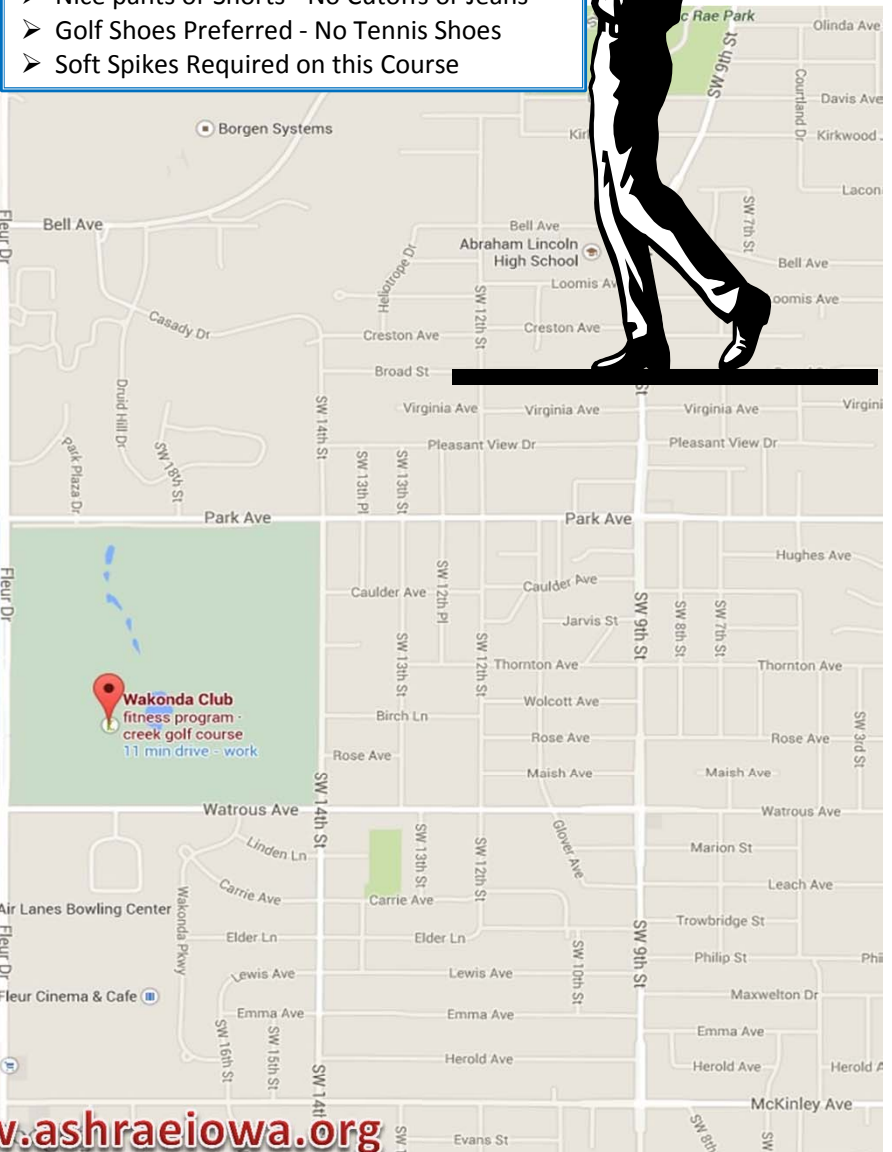
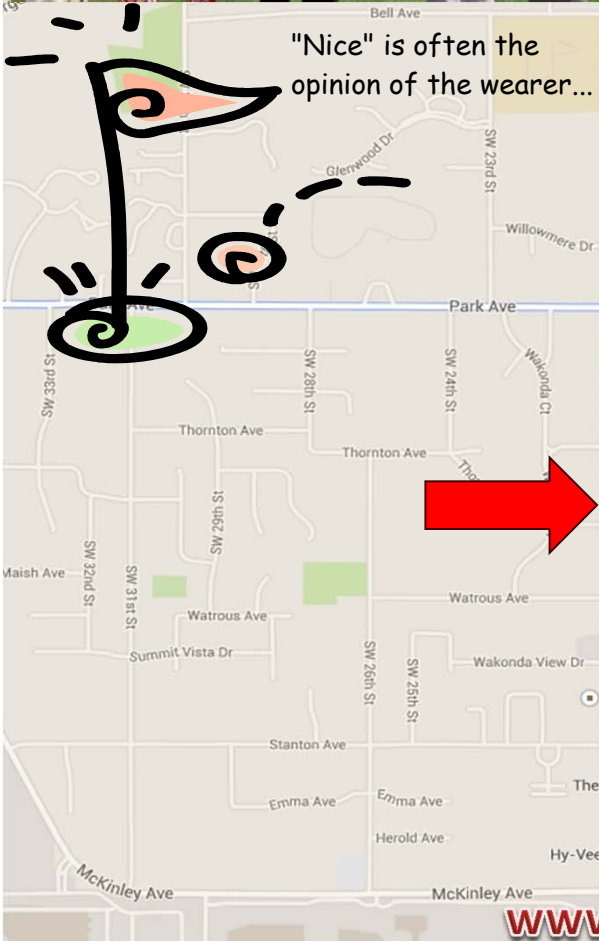
Don't miss the opportunity to be a sponsor for the outing. See our website at www.ashraeiowa.org for more details and to register on-line. You don't have to put together a team to sponsor the event.

Dress Code:

- Collared Shirt - No T-Shirts
- Nice pants or Shorts - No Cutoffs or Jeans
- Golf Shoes Preferred - No Tennis Shoes
- Soft Spikes Required on this Course



"Nice" is often the opinion of the wearer...

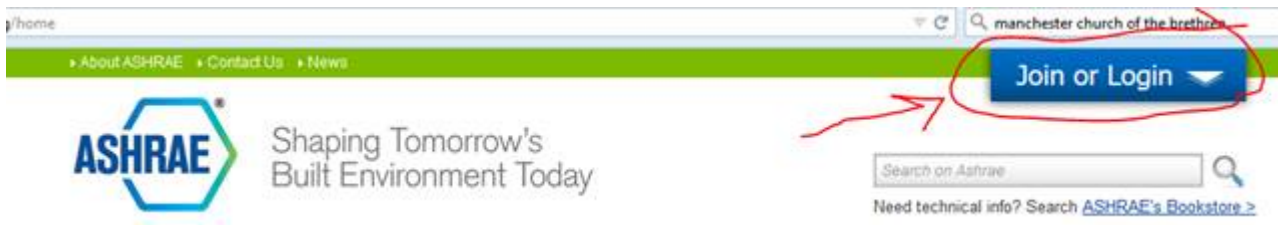


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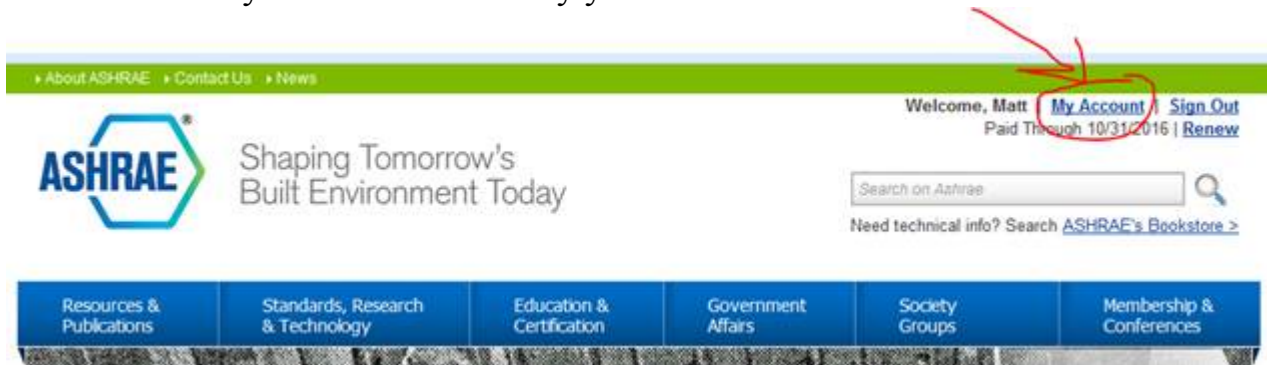
2015 Product Directory Announcement

The Product Directory for 2015 is in the early stages of development! Your information for this directory is taken directly from the information that ASHRAE Society has on file as part of your membership. That means it's important that this info is up to date!

Please go to <https://ashrae.org/home> and click the Login button:



Choose "Need a login?" if you don't have an account, or login with your email/password, then choose "My Account" and verify your information.



Please try to update your information by March 4, 2015.

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 Tim Conrad at tconrad@mechsales.com

The HVAC&R Industry

MIT Prototype Cooling System Tracks Individual Users

CAMBRIDGE, Mass.—A research team at MIT's SENSEable City Lab has developed Cloud Cast, a prototype misting technology that cools a human-sized space instead of an entire room or building to save energy and water. Cloud Cast consists of an array of thin aluminum rods that hang from a ceiling. Ultrasonic sensors inside the rods pulse sound waves that deflect off any people standing or walking below. A computer system measures the time interval it takes for the sound waves to be reflected back. This enables the system to pinpoint a person's location and know where to create mist. Team leader and SENSEable City Lab founder Carlo Ratti recently demonstrated the technology in Dubai. Such hot, dry climates are believed to be the ideal locations to apply the technology. "Evaporative cooling has been used for centuries in the Arabic peninsula," said Ratti, who works as an engineer and an architect. "[It] is still more energy efficient than, say, air conditioning."

Largest Solar Farm on U.S. Public Property Comes Online

DESERT CENTER, Calif.—U.S. Secretary of the Interior Sally Jewell and Director of the Bureau of Land Management Neil Kornze recently led a ceremony to "flip the switch" on the Desert Sunlight Solar Farm, the United States' largest solar project on public lands. Already operating at full capacity, the Desert Sunlight solar farm provides 550 MW of electricity to the grid, enough energy to power 160,000 average homes. The facility also is estimated to displace 614,000 metric tons of carbon dioxide per year. It serves customers in Riverside County, Calif., which spans from the Greater Los Angeles area to the Arizona border.

16th Century Architecture Offers Lessons for Modern Passive Cooling Designs

CHENNAI, India—A nearly 500-year-old architecture style could still be used today to provide passive cooling in hot, dry areas, according to an article in the *New Indian Express* newspaper. Mughal architecture in India takes its name from a Persian dynasty that took over large parts of Northern India in the 1500s through the 1800s. The Mughals developed ingenious ways to beat the summer heat in the arid desert areas. Each design element was a response to the climate. One of the hallmarks of Persian buildings is a four-part garden laid out with axial paths or water channels that intersect at the center. This controls the microclimate around the building with the help of vegetation and water. Mughals introduced unique layered spaces to Indian architecture. They realized that rooms should not be flooded with direct daylight. Therefore, they used intermediary spaces such as courtyards and verandas to buffer and protect interiors from extreme weather conditions. Mughals used the thermal mass of thick walls of masonry or other materials with low thermal conductivity that have low transmittance value of heat. According to the article, some modern architects have successfully adopted environmental features of Mughal architecture and incorporated them into contemporary designs.

New Guidance to Help Engineers Keep Up With Building Technologies

LONDON—New guidance is set to be published by the Institution of Engineering and Technology (IET) to ensure engineers' skills and knowledge are in step with evolving building systems. IET's new *Code of Practice for Connected Systems Integration in Buildings*, expected in 2016, is intended to promote good practice in the specification, design and integration of connected systems in buildings. It is aimed at engineers who install systems such as audio, IT and security systems into buildings. The code of practice will outline a best practice approach to connected systems integration in buildings, covering common communications and built environment challenges. The aims are to improve connectivity, communications networking and connected systems integration in residential and commercial buildings. IET is a UK-based global engineering organization focusing on electrical, electronic, manufacturing and information engineering.



Shaping Tomorrow's
Built Environment Today

Dear ASHRAE Members:

It is my pleasure to announce that a consolidation agreement between ASHRAE and the Indoor Air Quality Association has been finalized by both organizations. The consolidation was approved by the Boards of Directors for ASHRAE and IAQA at ASHRAE's recent 2015 Winter Conference in Chicago. This agreement comes after a seven month period of due diligence, which was completed last month.

We are excited about the opportunities presented by this consolidation. It opens the door to alignment of ASHRAE and IAQA programs to create high-impact resources for building professionals around the globe.

IAQA is a nonprofit organization dedicated to bringing practitioners together to prevent and solve indoor environmental problems for the benefit of customers and the public. IAQA was established in 1995 and is the nation's largest indoor air quality trade association with over 2,600 members and more than 20 local chapters across the United States and Canada.

As I share this news with you today, IAQA President Kent Rawhouser also is sharing the news with their members. He says, "This is an historic event for both associations and has great promise for growth and development for both organizations. The opportunities and possibilities for members are only limited by our own imaginations. IAQA and ASHRAE are committed to growing and developing the IAQA brand. The consolidation will open new avenues for programs and benefits for our members."

Under the consolidation, IAQA will become a part of the ASHRAE organization while maintaining its own brand and Board of Directors. IAQA will operate independently within ASHRAE's organizational structure.

This consolidation allows ASHRAE and IAQA to combine resources to improve indoor air quality in the built environment. We are optimistic about what the agreement means to the future of both groups.

If you have questions or comments about this venture, please feel free to contact me at ashraepresident@ashrae.org. You can find a list of frequently asked questions at www.ashrae.org/iaqa.

Thank you,

Tom Phoenix, P.E., Fellow ASHRAE, BEAP, BEMP
2014-15 ASHRAE President

2014-2015 Meeting Dates

MONTH	GENERAL MEETING	
	Topic	Date
July	-	-
August	-	-
September	Fall Frolic Golf Outing – Echo Valley Golf Club	11
October	Student Night / Membership Promotion	22
November	Research Promotion	19
December	Past Presidents / History (joint w/ CSI and SMCI)	15 (Lunch)
January	Membership Promotion	13
February	Resource Promotion	16 (Lunch)
March	Refrigeration	18
April	ASHRAE Webcast	23
April	Spring Fling Golf Outing – Wakonda Club	27

Winter Meeting	2015 Winter Conference – Chicago, IL	Jan 24-28
CRC	Region VI CRC – Bettendorf, IA	April 30-2
Summer Meeting	2015 Annual Conference – Atlanta, GA	Jun 27-1

ASHRAE Technology Awards Program

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For more information on the Technology Awards Program visit:

<https://www.ashrae.org/technologyawards>

Your Assistance is Requested!!!

We are compiling data regarding the demand for students interested in Mechanical Engineering. Are you an ME or Con E with ME Emphasis graduate or do you have a co-worker that is? If you or someone you know are please email Mike Wolfe at wolfem@TheBakerGroup.com with your contact information and the field your degree is in.

ASHRAE 2014-2015 Research Promotion Fund

ASHRAE Iowa Research Investors 2014-2015					
Individual Investors		Company Investors			
HR = Honor Roll participants \$100 min		41.2% OF GOAL	\$10,592.00 -TO GO!	HR = Honor Roll participants \$150 min	
Mr Andrew L Pospisal	(HR)	\$18,000		A.J. Allen Mechanical Contractors Inc.	(HR)
Mr Charles S Heldenbrand	(HR)	\$17,500		C.H. McGuiness Co. Inc.	(HR)
Mr Christopher W Nelson	(HR)	\$17,000		Control Installations Of Iowa Inc.	(HR)
Mr Daniel L Ponxs	(HR)	\$16,500		Iowa ASHRAE Chapter	(HR)
Mr H. Fred Miller	(HR)	\$16,000		Products Incorporated	(HR)
Mr James A Lee	(HR)	\$15,500		System Management & Balancing Inc.	(HR)
Mr James Edward Hall	(HR)	\$15,000		Vest-Feld-Hazer & Associates	(HR)
Mr Jason E Kems	(HR)	\$14,500		Woodman Controls	(HR)
Mr Jeff Lindell	(HR)	\$14,000			
Mr Justin J Barrett	(HR)	\$13,500			
Mr Kelly G Crow	(HR)	\$13,000			
Mr Kit C Cartwright	(HR)	\$12,500			
Mr Luke Miller	(HR)	\$12,000			
Mr Mark G Conway	(HR)	\$11,500			
Mr Mark W Allen	(HR)	\$11,000			
Mr Matt Gumm	(HR)	\$10,500			
Mr Odean H Jukam	(HR)	\$9,500			
Mr Patrick A Peterson	(HR)	\$9,000			
Mr Paul K Melton	(HR)	\$8,500			
Mr Peter Ernzen	(HR)	\$8,000			
Mr Rodney Heston	(HR)	\$7,500	\$7,408.00		
Mr Ronald A Engelhardt	(HR)	\$7,000			
Mr Timothy J Conrad	(HR)	\$6,500			
Mr Vince Sanders	(HR)	\$6,000			
		\$5,500			
		\$5,000			
		\$4,500			
		\$4,000			
		\$3,500			
		\$3,000			
		\$2,500			
		\$2,000			
		\$1,500			
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dponxs@woodmaninc.com

Thank you for your donation!



**CONTROL INSTALLATIONS
OF IOWA, INC.**

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jimh@hvactab.com

Matt Jesson
mattj@hvactab.com



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2014-2015 Newsletter Sponsors

Sponsoring our monthly newsletter is a great way to advertise your business and support your Iowa ASHRAE Chapter. Renewing and new sponsors need to send in payment immediately for inclusion in next month's (and all subsequent) newsletter. Make check payable to: ASHRAE Iowa. Cost is \$125. Send to:

Andrew Pospisal
ASHRAE Newsletter Sponsorship
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Urbandale, IA 50323

Luke Miller is collecting cards for all of the sponsors. If you've paid and don't see your card here or would like to revise the card shown, send a card-sized PNG or JPEG file to: lukem@ajallen.com