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THIS MONTH AT ASHRAE Research Promotion Night

Date:

Wednesday, November 19th

Schedule:

1 – 4:30 pm: Tech Session
5 – 6 pm: Social Hour
6 – 7 pm: Dinner/Business Meeting

Social Hour:

Sponsored by Woodman Controls

Tech Session:

ASHRAE Distinguished Lecturer, Mr. Gordon Sharp will provide us with a great presentation. The topic Mr. Sharp will be presenting is "A Holistic Overview of Technologies and Strategies to Achieve Deep Energy Reductions in Laboratories."

PDHs:

Mr. Sharp's presentation provides 3 PDHs for those that attend the tech session.

Location:

Ramada Tropics Conference Center
5000 Merle Hay Road
Des Moines, IA

Chapter Meeting/Dinner Cost:

Tech Session: \$30 for ASHRAE IA Members / \$50 for non-members
Dinner: Free for ASHRAE IA 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



Come join us at the Ramada Tropics Conference Center on Wednesday, November 19th for a great afternoon technical session followed by a social hour and dinner with your ASHRAE Iowa Friends.

Mr. Gordon Sharp will be presenting "A Holistic Overview of Technologies and Strategies to Achieve Deep Energy Reductions in Laboratories."

We hope to see you there!

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
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



Greetings and happy Movember to all of you moustache aficionados! May your loved ones be kind to you in spite of your curious appearance this month. Back to serious business: I hope you had a chance to attend the October meeting in Ames on the 22nd. It was a good time and very well attended. We began with an industry panel discussion for engineering students. The chapter received good feedback on how to better reach out to students in the engineering program. After the panel, we had dinner and presented our three Iowa Chapter Scholarships. We finished the evening with a tour of the newly-completed ISU Biorenewables Complex. We should commend our Student Activities chairs for doing an outstanding job with promoting our scholarship applications. They've also done a great job helping the Iowa State University ASHRAE Student Chapter expand membership. A strong student chapter

benefits our industry here in central Iowa.

On Wednesday, November 19th, we are having an afternoon tech session and evening dinner meeting at the Ramada Tropics Resort on Merle Hay Rd in Des Moines. ASHRAE Distinguished Lecturer Gordon Sharp will be presenting on laboratories in the afternoon. 3 PDH's will be available for attending the afternoon session. The cost for the afternoon session is \$30 for members and \$50 for non-members. After that: social hour and a dinner business meeting with the topic of Resource Promotion. Make sure you register on www.ashraeiowa.org.

Finally, plan to attend our December joint meeting with CSI and SMCI for lunch on 12/15/14. This will take place at the Downtown Des Moines Holiday Inn. Be sure to mark your calendars and look for more details along with registration at www.ashraeiowa.org.

Justin Barrett
ASHRAE Iowa Chapter
President
2014-15

UPCOMING CHAPTER MEETINGS

November 19th
Resource
Promotion & Tech
Session

Location:
Ramada Tropics
Resort
Merle Hay Rd
Urbandale, IA

December 15th
Joint Meeting with
SMCI & CSI. Past
Presidents Meeting.

Lunch Meeting
(noon to 1:00)

Location:
TBD

January 13th
Membership
Promotion Night.

Location:
TBD

November Meeting (Wednesday the 19th)



Resource Promotion and Tech Session

Schedule (times still to be finalized):

1:00 – 4:30 PM: Tech Session

5:00 – 6:00 PM: Social Hour

6:00 – 7:00 PM: Business Meeting

Location:

Ramada Tropics Resort Conference Center
5000 Merle Hay Road
Des Moines, IA 50322



Abstract for Gordon Sharp's Iowa ASHRAE Tech Session:

A Holistic Overview of Technologies and Strategies to Achieve Deep Energy Reductions in Laboratories

As we strive to build more energy efficient laboratories and vivariums, the most impactful approach is often to reduce the outside airflow. In the last few years new design approaches such as demand based control of lab air change rates, chilled beams (hydronic cooling), and VAV exhaust fan control have been successfully employed to safely reduce these lab airflows to as low as 2 ACH to cut energy consumption significantly. Although these concepts may have been discussed individually in the past, this talk provides a detailed holistic discussion of how these and other energy saving technologies such as heat recovery can be combined to create a whole that is greater than the sum of the parts. A sophisticated lab energy analysis tool that can determine potential energy and capital cost savings will be used to both examine, quantify, and then compare the relative contributions of different energy savings approaches for a typical lab building in some representative climates. Several case studies will be provided including a large near net zero lab project in Abu Dhabi, UAE.



Finally, building HVAC systems naturally can degrade and building energy use can rise over time with maintenance staffs often lacking the time to analyze building performance. One solution that will also be discussed is the use of intelligent agent systems and monitoring based commissioning. These systems can be used to automatically analyze lab building energy and IEQ data, often using approaches like dashboards to help ensure long term energy savings and a healthier indoor environment.

ASHRAE Iowa October Meeting



We held our annual student in Ames this year. We had the privilege of awarding 3 outstanding students that are focused on pursuing careers in the mechanical industry with scholarships. Elise Backstrom (Top Left), Elliot Newton (Middle Left), and Joe Kern (Top Right) each received a \$1,000 scholarship from the ASHRAE Iowa Chapter.

Following dinner the group headed over to campus to see the recently complete ISU Agricultural and Biosystems Engineering Phase 2 building.

ASHRAE's Attic & Antiques



The humidistat shown in the pictures were from Dave Miller of The Waldinger Corporation. This sensor was salvaged from his home and used horse hair as the controls element. Animal hair turns out to be a pretty good way to measure the humidity. The length of a strand of hair changes with different relative humidity levels. As the relative humidity increases, hair becomes longer, and as the humidity drops it becomes shorter.

We encourage anyone who finds a great HVAC relic like this to submit it to Tim Conrad at tconrad@mechsales.com. We are trying to populate a historical section documenting these great finds.

The HVAC&R Industry

Innovation Awards Recognize Year's Top Industry Products

WESTPORT, Conn.—The winners of the 2015 AHR Expo Innovation Awards have been selected. They will be honored at a special ceremony on Jan. 27 during the 2015 AHR Expo in Chicago. The winning entries were selected in 10 categories and represent the most innovative new products among the thousands that will be displayed at the 2015 AHR Expo. During the ceremony one of the 10 winners will be chosen as "Product of the Year." A panel of judges made up of ASHRAE members evaluated the products submitted based on innovation, application, value to the user and market impact. In addition, 30 products received Honorable Mention. More than \$16,000 generated by Innovation Awards entry fees will be donated to a charitable organization in the Chicago area.

World's Tallest Twin Towers Planned for Dubai

DUBAI, United Arab Emirates—Dubai is planning to build the world's tallest twin towers. Local developers Emaar Properties plan the towers to be the centerpieces of a vast leisure and residential area that will be three times bigger than Dubai's existing Downtown, which includes the world's tallest building, the 829.8 m (2,722 ft) tall Burj Khalifa. The planned Dubai Creek Harbour development and tourist attraction will include 39,000 homes, as well as 22 hotels, multiple retail outlets, fountains and various other tourist attractions. Conceptual renderings of the towers show them shaped like torpedoes and situated in the center of the development. The two buildings are planned to exceed 600 m (1,968 ft) each. However, no further details have been announced. The current tallest twin towers are the 452 m (1,483 ft) Petronas Towers in Kuala Lumpur, Malaysia.

Advanced Rooftop Unit Campaign to Host Webinar

ASHRAE is announcing a webinar on the Advanced Rooftop Unit (RTU) Campaign on Nov. 18 from 2–3 p.m. EST. This webinar will focus on language buildings can use to ensure their decisions for high-efficiency RTUs are reflected in the specifications for procurement, installation, maintenance, and more. The RTU Campaign is a national effort to promote accelerated adoption of high efficiency RTUs and advanced RTU controllers across the commercial buildings market. ASHRAE is an organizer and sponsor of the U.S. Department of Energy (DOE) campaign. To register for the webinar, [click here](#).

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	16
April	ASHRAE Webcast	16
May	Spring Fling Golf Outing	21

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 2014-2015 Research Promotion Fund

ASHRAE Iowa Research Investors 2014-2015		
Individual Investors HR = Honor Roll participants \$100 min	10.6% OF GOAL \$16,092.00 -TO GO!	Company Investors HR = Honor Roll participants \$150 min
Mr. Jeff Lindell (HR)	\$14,000	Systems Management & Balancing Inc (HR)
Mr Andrew L Pospisal (HR)	\$13,500	
Mr H Fred Miller (HR)	\$13,000	
Mr James Edward Hall (HR)	\$12,500	
Mr Justin J Barrett, PE (HR)	\$12,000	
Mr Kelly G Crow (HR)	\$11,500	
Mr Kit C Cartwright (HR)	\$11,000	
Mr Luke Miller (HR)	\$10,500	
Mr Matt Gumm, PE (HR)	\$10,000	
Mr Rodney Heston (HR)	\$9,500	
Mr Vince Sanders (HR)	\$9,000	
Mr. Charles S Heldenbrand (HR)	\$8,500	
Mr. Daniel L Ponxs (HR)	\$8,000	
Mr. Jason Kems (HR)	\$7,500	
Mr. Mark G Conway (HR)	\$7,000	
	\$6,500	
	\$6,000	
	\$5,500	
	\$5,000	
	\$4,500	
	\$4,000	
	\$3,500	
	\$3,000	
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	\$0	

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Urbandale, IA 50323
PHONE: 515-964-0904
dponxs@woodmaninc.com

Thank you for your donation!



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