



Iowa Stalks
Monthly Newsletter - December 2018

This Month at ASHRAE Iowa

2018 December Chapter Meeting

**Joint Meeting with
CSI & SMCI**

When

Wednesday December 12, 2018

11:30 a.m. – Registration Opens/Networking

11:45 a.m. – Lunch

12:00 p.m. – Announcements

12:15 p.m. – Program – Presentation by ASHRAE DL Tim Wentz (Past ASHRAE President)

Location

Holiday Inn Downtown – Mercy Campus

1050 6th Ave

Des Moines, IA 50314

Program

- **Presentation: The Interface Between Risk and Ethics**

The topic of ethics has always been difficult to address because ethics is often seen as fluid and difficult to quantify. The fluid nature of ethics is generated by the wide spectrum of individual perspectives, coupled with highly variable cultures and situations, thus making ethical decisions difficult to predict. Risk has many of the same attributes in that it can also be very fluid and difficult to measure or predict. The presentation looks at the relationship between risk and ethics while exploring some ways to place both into a common context so that viable strategies can be developed for both the firm and the individual.

Earn 1 PDH for attending this program.

Presenter

Presenter: Tim Wentz (ASHRAE Distinguished Lecturer and past ASHRAE President)

Tim is an Associate Professor of Construction Management at the University of Nebraska – Lincoln, where he teaches a wide spectrum of courses, including environmental systems, mechanical estimating, mechanical project management, professional practice/ethics and the senior capstone course. Tim's professional focus is in teaching and undergraduate education, where he has participated in numerous committees and initiatives. He currently serves as an advanced team leader for the Peer Review of Teaching program, a College representative on the Student Success task force and is also currently chair of the College of Engineering Curriculum and Academic Standards Committee.

Tim has served the Society in many different capacities. He started his ASHRAE career in 1976 after graduating from the University of Nebraska and worked in a grassroots capacity for many years. He is a past president of the Nebraska Chapter, past RVC of Student Activities for Region IX, past DRC of Region IX and as Society president in 2016-2017. Tim also serves as Faculty Advisor of the Mechanical/Electrical Specialty Contractors (MESC) student chapter, which is an umbrella student chapter co-sponsored by ASHRAE, the Mechanical Contractors Association of America (MCAA) and the National Electrical Contractors of America (NECA). He received an ASHRAE Technology Award in 1987, Region IX Chapter President of the Year, Region IX Hall of Honor in 2005, E. K. Campbell Award of Merit for Teaching in 2000, the Distinguished Service Award in 2013 and the Exceptional Service Award in 2015. Tim was named an ASHRAE Fellow in 2005.

Tim has also been very active in the Mechanical Contractors Association of America (MCAA), where he has served as a trustee for the Mechanical Contractors Education and Research Fund (MCERF) and is currently a member of the National Education Initiative (NEI) faculty and also on the Institute for Project Management (IPM) faculty. He was named the MCAA 'Educator of the Year' three times (2000, 2002 and 2004) and in 2009 was the recipient of MCAA's highest award, the Distinguished Service Award, the first academic to receive the award.

President's Corner

Happy Holidays Everyone!

ASHRAE Iowa Chapter

www.ashraeiowa.org

It's crazy that we are already in the middle of
December and 2019 will be here in a blink of an

- Board of Governors -

eye. December also marks the half way point though our society year, so thanks to everyone who was able to make it out to an event this year. If not, you still have 6 months left in this society year!

I hope you were able to make it up to Ames for our November meeting where we were able to award five \$1,000 dollar scholarships to the following students: Ahmed Bilal, Michael Friest, Wesley Graham, Riley McLaren, and Elizabeth Sesker. If you know or see them around, congratulate them!

Coming up in just a few days is our annual joint chapter meeting with the Construction Specification Institute (CSI) and Sheet Metal Contractors of Iowa (SMCI). We will be meeting at the Downtown Des Moines Holiday Inn on Wednesday, December 12. We will have the honor of hosting past ASHRAE society president Tim Wentz. Tim will give his presentation titled, "The Interface Between Risk and Ethics."

Speaking of past presidents, we invite all past Iowa Chapter presidents to join us for our annual past presents photo. It's awesome to catch up with everyone and honor all the volunteer effort that has put in over the years to help our chapter be a success. We can't do it without all of you.

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Matt Jesson
Matt Peters
Sara Schmerbach

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Matt O'Banion

Peter Erzen

eCommittee

Jason Kems

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Education

Kit Cartwright

Matt Gumm

GAC

Unfortunately our January topic fell through, but our BOG team is working hard to come with a great new idea, and I have no doubt they will prevail. Keep the night of January 16th open and keep an eye out for the topic and email invites coming soon.

Warm wishes to you and your family this holiday season!

Brian Steffens (bsteffens@shive-hattery.com)
Iowa Chapter President 2018-2019

Matt Swenka

Historian

Luke Miller

Honors & Awards

Andrew Pospisal

Membership

Tim Conrad

Product Directory

Holly Elbert

Refrigeration

Justin Barrett

Research Promotion

Michael Gustafson

Ted Gerber

Student Activities

Mike Wolfe

Joe Nielsen

TEGA

Dan Ponxs

Emmett Konrad

YEA

Heidi Turner

AG Fleckenstein

Past Presidents

Luke Miller 2017-2018
Andrew Pospisal 2016-2017
Matt Gumm 2015-2016
Justin Barrett 2014-2015
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 Zaug 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

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. McGuinness 1951-1952
R.S. Stover 1950-1951
D.E. Wells 1949-1950
D.C. Murphy 1948-1949
C.A. Wheele 1947-1948

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

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

Upcoming Meetings

Mark your calendars! The chapter is working hard to put on a great set of events this year and we hope to see you there.

Iowa Chapter Future Meetings

Month	Date	Location	Topic
September	12	The Legacy Golf Club	Fall Frolic Golf Outing
October	17	Ramada Tropics	Membership & RP Night
November	14	Ames	Student Night & Tour
December	12	Holiday Inn	SMCI / CSI Joint Meeting
January	16*	Hotel Renevo	TBD
February	15*	Hy-Vee Commissary Tour	Refrigeration Meeting
March	28*	TBD	MP, RP, & History Project

April	18*	Val Lanes	Chapter Meeting and Bowling Tournament
April	19*	At Your Desk!	ASHRAE Webcast
May	14*	TBD	Spring Fling Golf Outing

Society & Region Events

Month	Date	Location	Topic
January	12-16	Atlanta, GA	2019 Winter Conference
May	2-4	Milwaukee, WI	Region VI CRC
June	22-26	Kansas City, MO	2019 Annual Conference

*Tentative dates

What's New in the Iowa Chapter?

Student Scholarship Awards

Congrats to all the scholarship award winners!

Pictured left to right (Elizabeth Sesker, Wesley Graham, Michael Friest, Ahmed Bilal)

Not pictured (Riley McLaren)



Research Project Opportunity

STILL AVAILABLE Seventhwave (formerly Energy Center of Wisconsin) is conducting the **ASHRAE Research Project RP-1814** "Actual Energy Performance of Secondary Schools and Medium Offices Designed to Comply with ASHRAE Standard 90.1-2010."

They have reached out to the ASHRAE Iowa chapter and their members for sample buildings for the research project. If you have a project that may be a potential candidate, contact [Joe Zhou](#), senior researcher, with Seventhwave OR fill out a two-minute online survey [at this link](#).

Research Promotion

Please consider donating to RP if you haven't already. With the new year, we have a new goal. Any donation is helpful and appreciated. If you have any specific questions about how your donated money will be used, [please contact Michael Gustafson](#).

ASHRAE Iowa Research Investors 2018-2019			
Go to http://ashraerp.com to donate online. Please contribute all donations to the Endowed Research via ASHRAE Foundation.			
Individual Investors HR = Honor Roll participants \$100 min		8.9% OF GOAL \$18,225.00 -TO GO!	Company Investors HR = Honor Roll participants \$250 min
	HR		HR
Mr. Mark G. Conway	HR	\$20,000	ASHRAE Iowa Chapter
Mr. Roger D. Hill		\$19,500	
Mr. Brian A. Steffens	HR	\$19,000	
Mr. David Pustling	HR	\$18,500	
Mr. Luke Miller	HR	\$18,000	
Mr. Kit C. Cartwright	HR	\$17,500	
Mr. Fred Miller	HR	\$17,000	
Mr. Matthew S. Jensen	HR	\$16,500	
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Mr. Daniel L. Potts	HR	\$15,500	
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Mr. Ted Gerber	HR	\$12,500	
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		\$1,775.00	

Updated: 06-12-18

This year, the BOG is encouraging you to donate online in an effort to save paper and increase the efficiency of the RP donation process. Please visit the ASHRAE RP Donation page [here](#). ASHRAE provides options for you to determine where to place your donation. The Iowa Chapter is looking to increase its endowment and would appreciate it if you would place your

donation in the box available next to “Endowed Research via ASHRAE Foundation”, check the box indicated that you understand that those funds are restricted for the support of ASHRAE Research, and put “Iowa Chapter” in the “Existing Fund Name (If known):” box. From there it’s as simple as any other online purchase with a credit card.

Don’t forget that ASHRAE is a 501(c)(3) organization. Contributions are deductible as allowed by law. A receipt will be sent to the address listed above.

If you would still prefer to donate by check or have any further questions about the donation process, [please contact Michael Gustafson](#).

Thank you for your donation!

A green rectangular banner with a double black border. The text "ASHRAE Society News" is centered in white, serif font.

ASHRAE Society News

What's new?

Behind the New Indoor Swimming Pools Chapter

In response to industry demand and the growing number of natatoriums, the *2019 ASHRAE Handbook—HVAC Applications* will include a new chapter dedicated to the design of indoor swimming pools. A member of TC 8.10, Mechanical Dehumidification and Heat Pipes, explains the [significance of the new chapter](#).

[ASHRAE and Partners Release 2018 International Green Construction Code](#)

[ASHRAE Seeks Third Round of Comments on Legionella Guideline 12](#)

[Public Reviews Open for Standards 90.1, 62.1, More](#)

[Four Errata Released on Standard 90.1](#)

[Direct Evaporative Air Coolers Standard Committee Looking for Members](#)

[Call for Members Announced for SPC 40R](#)

[Submit Nominations for Standards Achievement Award by End-of-Year](#)

Industry News

[Design Considerations In Cold Climates](#)

By Scott Schuetter, Associate Member ASHRAE, and Scott Hackel, Member ASHRAE

Air source variable refrigerant flow (VRF) systems are grabbing a greater share of the market in moderate climates. However, they are not widely implemented in cold climates because they typically lose capacity and efficiency at low ambient temperatures. To overcome this barrier, VRF systems may be supplemented by an additional heat source. Alternately, they can be upgraded to water or ground source systems that are not subject to ambient temperatures. While questions remain regarding how to select, design, and operate VRF systems in colder climates to achieve good energy performance and reduce capacity degradation, we have analyzed several strategies and share our conclusions and observations in this article.

[Worker Shortage Causes Problems for HVAC Industry](#)

SACRAMENTO, Calif.—The HVAC industry is challenged with meeting the increasing demands for HVAC services while facing a shrinking skills gap. One-fourth of the

workforce will be "retirement age" by 2020, and the industry is predicted to see a 15% growth in the number of jobs created to meet the expected demand for HVAC services and products, according to a new report. The EGIA Foundation, a California-based non-profit devoted to building the home service trades workforce, released a study titled "[Bridging the HVAC Employment Gap](#)" that details the level of interest in joining the HVAC industry.

Heat Pump Water Heating Part of All-Electric Housing

A utility district and a development company are working to build [all-electric homes in California](#). The homes are set to include heat pump space heating and cooling, heat pump water heating, induction stoves and no natural gas infrastructure. The utility views all-electric new construction and gas-to-electric retrofits as a means to achieve the utility's climate goals: reduce the greenhouse gas emissions required to serve its customers by 90% from 1990 levels by 2050. An *ASHRAE Journal* article from April 2018 explores a successful [surface water heat pump system](#) that was installed at a community college.

Net Zero Schools Hit Performance Goals

Five individuals, school districts and school projects have been honored with ZNE School Leadership Awards for innovation and leadership in driving a new zero net energy (ZNE) standard for schools in California. For one school, [building performance is a priority](#) for acoustics, lighting and daylighting, indoor air quality and thermal comfort. A dedicated outside air system ensures indoor carbon dioxide levels do not spike, causing students to lose focus. An *ASHRAE Journal* article from January 2018 focuses on the [Advanced Energy Design Guide](#) on zero energy K–12 schools, which provides design and operation guidance.

ASHRAE Learning Institute

CHECK OUT ASHRAE eLearning for more than 90 courses available on your computer. These courses have been created by HVAC&R professionals using ASHRAE's extensive pool of knowledge and most courses are recognized PDHs by AIA and GBCI (confirm with licensing body for specifics). Course options include:

- Introduction to Refrigerants
- Refrigerant Selection
- Refrigerant Management
- Ethics for the Built Environment Professional Engineer
- Standard 62.1-2013: Natural Ventilation Procedure
- Using Standard 90.1-2010 to Meet LEED Requirements
- Building Information Modeling
- Humidity Control Design: Basic Principles, Loads and Equipment
- Standard 189.1 for High-Performance Green Buildings - Energy Efficiency
- School of Hard Knocks: Controlling Moisture & Humidity in Buildings

[Click Here for More Details](#)

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