



Iowa Stalks
Monthly Newsletter - December 2019

This Month at ASHRAE Iowa

December Meeting Information

On Monday, December 16th, we will have our annual joint chapter meeting with the Construction Specification Institute (CSI) and Sheet Metal Contractors of Iowa (SMCI). The lunch meeting will be hosted by SMCI and will be held at the Holiday Inn downtown Des Moines. The meeting will feature SMACNA's Executive Director, Eli Howard, and Director of Engineering & Technical Resources, Mark Terzigni, speaking on "HVAC System Effects – Efficient Duct System Selection".

HVAC System Effect – Efficient Duct System Selection

With the continued focus on high efficiency, today's presentation on fan system effect and impacts of duct fitting selection will provide key components for a high performance air distribution system. This highly interactive "live" demonstration comparing the performance of various inlet/outlet conditions and how they greatly

impact the overall performance of the fan and system will be covered.

Please [register](#) for the meeting ASAP as it is now less than one week away.

Monday December 16, 2019

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

11:45 a.m. – Lunch Buffet

12:15 p.m. – Welcome – Kim Best, Executive Vice President of Sheet Metal Contractors of Iowa

12:20 p.m. – ASHRAE Presentation

12:25 p.m. – Main Program – HVAC Systems Effects – Efficient Duct System Selection with SMACNA's Executive Director Eli Howard and SMACNA's Director of Engineering & Technical Resources Mark Terzigni.

Holiday Inn Downtown – Mercy Campus

1050 6th Ave

Des Moines, IA 50314

President's Corner

Happy Holidays Iowa Chapter! I hope this newsletter finds you well and getting ready for the holiday season.

Thank you to everyone who made it up to Ames for our November meeting. It was great to see such a strong turnout for our presentation and

ASHRAE Iowa Chapter

www.ashraeiowa.org

- Board of Governors -

Matt Jesson

Sara Schmerbach

tour of the Student Innovation Center. We were also honored to award three deserving students with \$1,000 scholarships.

Next week we will have our annual joint chapter meeting with the Construction Specification Institute (CSI) and Sheet Metal Contractors of Iowa (SMCI). SMCI will be hosting the lunch meeting on December 16th at the Downtown Holiday Inn. The meeting will feature SMACNA's Executive Director, Eli Howard, and Director of Engineering & Technical Resources, Mark Terzigni, speaking on "HVAC System Effects – Efficient Duct System Selection". Please [register](#) for the meeting ASAP as it is now less than one week away.

We invite all past Iowa Chapter presidents to join us at the December meeting for our annual past presidents photo. We will also be honoring Brian Steffens for his dedication and services as the Iowa Chapter President last year.

Keep the night of January 22nd open and watch your inbox for information on our January meeting. We are confirming details for this meeting and will have more information out to you soon.

The 2020 ASHRAE Winter Conference is just

Elli Abel
Terence Schafer

- Officers -

President

David Poetting

President Elect

Adam Puls

Treasurer

Tyson Scheidecker

Secretary

Michael Gustafson

- Committee Chairs –

Attendance

Dan Zaug

Auditing

Joe Moench

CTTC

Peter Erzen

Ted Gerber

eCommittee

Jason Kems

Chris Clausen

Education

Kit Cartwright

Matt Gumm

GAC

Matt Swenka

Historian

around the corner on February 1-5 in Orlando.
Visit the conference [website](#) for more information.
If you plan to be in Orlando, consider attending
the Region V & VI Super Bowl viewing party and
dinner on February 2nd. You can sign up for the
event [here](#).

The members of the ASHRAE Board of
Governors would like to extend well wishes to you
and your families this holiday season.

David Poetting (david.m.poetting@jci.com)
Iowa Chapter President 2019-2020

Brian Steffens

Honors & Awards

Luke Miller

Membership

Tim Conrad

Product Directory

Holly Elbert

Refrigeration

Justin Barrett

Research Promotion

Tjaden Ahrens

Gary Thompson

Student Activities

Mike Wolfe

Joe Nielsen

TEGA

Dan Ponxs

YEA

Heidi Meyer

AG Oviatt

Golf Outing Committee

Jeff Hammer

Nathan Edwards



Past Presidents

Brian Steffens 2018-2019	Verne Stewart 1976-1977
Luke Miller 2017-2018	Curtis Hammer 1975-1976
Andrew Pospisal 2016-2017	Ralph Schilling 1974-1975
Matt Gumm 2015-2016	Donald Bonicamp 1973-1974
Justin Barrett 2014-2015	Kent Mosher 1972-1973
Tim Conrad 2013-2014	Thomas Van Hon 1971-1972
Matt Jesson 2012-2013	Robert McBride 1970-1971
Kelly Crow 2011-2012	William Whitman 1969-1970
Holly Elbert 2010-2011	Einar Dahl 1968-1969
Roger Leshner 2009-2010	Eugene O'Neil 1967-1968
Kit Cartwright 2008-2009	James Green 1966-1967
Jerrold Sieverding 2007-2008	Neil Hanson 1965-1966
Jason Kems 2006-2007	Bob Flanagan 1964-1965
Chuck Heldenbrand 2005-2006	Lyndon Kelley 1963-1964
Jeff Gross 2004-2005	Elwood Giberson 1962-1963
Ron Engelhardt 2003-2004	Vern Polly 1961-1962
Dan Zaug 2002-2003	John Bain 1960-1961
Susan Oltrogge 2001-2002	Crom Campbell 1959-1960
Christopher Nelson 2000-2001	R.T. Howard 1958-1959
Donald Swanson 1999-2000	W.A Schworm 1957-1958
Edward Truslow 1998-1999	D.E. Schroeder 1956-1957
James Hall 1997-1998	G.J. Kraai 1955-1956
Robbin Vannoy 1996-1997	W.E. Nanes 1954-1955
Mark Conway 1995-1996	J.F. Sandfort 1953-1954
Paul Melton 1994-1995	R.H. Schnell 1952-1953
Gregory Maxwell 1993-1994	C.H. McGuinness 1951-1952
Jeffery Hammer 1992-1993	R.S. Stover 1950-1951
Jack Culp 1991-1992	D.E. Wells 1949-1950
James Lee 1990-1991	D.C. Murphy 1948-1949
Clint Leonard 1989-1990	C.A. Wheele 1947-1948

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

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
August	27	Tournament Club of Iowa (TCI)	Fall Frolic Golf Outing
October	23	Hyperion Field Club - Johnston	Ethics / Membership & RP Night
November	19	Ames	Student Night & Tour
December	16	Holiday Inn (Downtown)	SMCI / CSI Joint Meeting
January	22	TBD	Building Operators Panel?
February	19?	TBD	Refrigeration Meeting?

March	25?	TBD	Super-tech MP, RP, & History Project
April	TBD	At Your Desk!	ASHRAE Webcast
April	TBD	Val Lanes	Chapter Meeting and Bowling Tournament
May	TBD	Des Moines Golf and Country Club	Spring Fling Golf Outing

Society & Region Events

Month	Date	Location	Topic
February	1-5	Orlando, FL	2020 Winter Conference
May	7-9	Peoria, IL	Region VI CRC
June-July	27-1	Austin, TX	2020 Annual Conference

What's New in the Iowa Chapter?

Winter Conference Super Bowl Party

If you're going to be attending the 2020 ASHRAE Winter Conference in Orlando,
please consider attending the Super Bowl viewing party.

ASHRAE REGIONS V & VI

SUPER BOWL

VIEWING PARTY



Join members of ASHRAE Region V and VI as we gather to socialize and watch the Super Bowl. Like the attendees in Miami, we will be dining on Caribbean food. There will also be a cash

Where: **Café Tu Tu Tango** 8625 International Drive, Orlando, FL 32819

When: **Sunday, February 2, 2020** at 6:00 p.m.

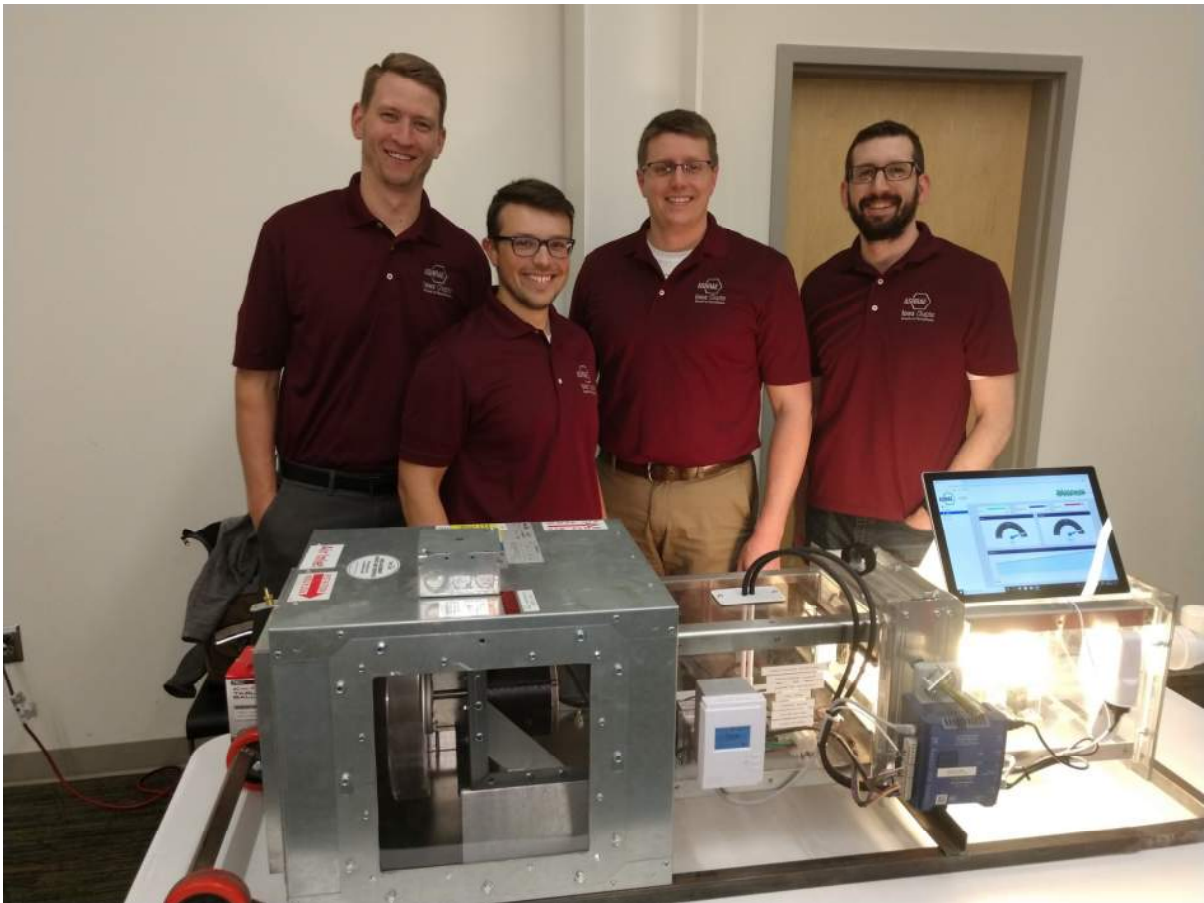
Advance Cost: **\$50/person** | www.ashrae6.org/registration

Same-day registration: **\$60/person at the door**

Eric Sturm: esturm@trane.com | Jim Arnold: jarnold@live.com

ASHRAE Promotes STEM at DMACC

We presented our custom-built AHU demo rig at the DMACC STEM event on Monday, October 28th. Having a presence at this event was a good way to reach out to students to encourage their engagement in the HVAC industry.



DMACC Ankeny

STEM FESTIVAL

Science • Technology • Engineering • Math

MONDAY, OCTOBER 28, 6pm-8pm

DMACC ANKENY CAMPUS, FFA ENRICHMENT CENTER

Register at scstemhub.drake.edu

FUN, FAMILY-FRIENDLY, FREE
event for 3rd-8th graders and families.

An evening of interactive STEM activities designed for students to **EXPLORE, CREATE, MAKE, and LEARN** about exciting opportunities in Science, Technology, Engineering and Math.

Questions? Contact
Amy Steenhoek
absteeenhoek@dmacc.edu
or 515-965-7117

DMACC
2006 S. Ankeny Blvd.



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This is not a school district publication. It is being distributed through the school district as a community service of the District to inform you of other community activities or services available.

YEA Played Bingo at The Hall

The Young Engineers in ASHRAE (YEA) played Bingo on December 9th at The Hall in Valley Junction. Keep an eye on your email for future events.

Research Promotion

Please consider donating to Research Promotion (RP). With the new year, we have a new goal. Any donation is helpful and appreciated. This year the Honor Roll levels are set at \$150 minimum for individuals and \$500 minimum for company investors. If you have any specific questions about how your donated money will be used, [please contact Tjaden Ahrens](#).

ASHRAE Iowa Research Investors 2019-2020

Go to <http://ashraerp.com> to donate online. Please contribute all donations to the Endowment Foundation.

Individual Investors HR = Honor Roll participants \$150 min		11.3% OF GOAL \$17,750.00 -TO GO!	HR =
Mark G Conway	HR		
Luke Miller	HR	\$20,000	
David Poetting	HR	\$19,500	
Larry Dewey		\$19,000	
Brian Steffens	HR	\$18,500	
Justin Barrett		\$18,000	
Christopher Nelson	HR	\$17,500	
Matthew Jesson		\$17,000	
Gary Thompson	HR	\$16,500	
Adam Puls	HR	\$16,000	
Tjaden Ahrens	HR	\$15,500	
Dale Vest	HR	\$15,000	
Michael Gustafson	HR	\$14,500	
Tyson Scheidecker	HR	\$14,000	
Ronald Engelhardt	HR	\$13,500	
Daniel Ponxs		\$13,000	
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		\$500	
		\$0	

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 Tjaden Ahrens](#).

Thank you for your donation!

ASHRAE Society News

Industry News

[ASHRAE Standard Updated to Align with Industry's Evolving Technologies](#)

ASHRAE's newly updated data centers energy standard includes a reduction of the maximum mechanical load component (MLC) and electrical loss component (ELC) for compliance in order to evolve with the IT industry's constantly changing technologies. ANSI/ASHRAE Standard 90.4-2019, *Energy Standard for Data Centers*, establishes the minimum energy efficiency requirements for the design and operation of data centers and includes two key updates. [Read more](#)

[Astronauts Replace Coolant Pumps on International Space Station](#)

Two astronauts spent more than six hours installing replacement coolant pumps during a spacewalk on Monday. The astronauts attached the 350-lb (159 kg) pump

module to the 6.8 metric ton Alpha Magnetic Spectrometer (AMS), plugged in power and data cables and spliced together eight existing coolant lines. The AMS was not designed to be serviced in orbit, so connecting the coolant lines while working in pressurized spacesuits was especially challenging. [Read more](#)

[MIT Creates System that Cools Without Using Electricity](#)

A new system provides cooling with no electricity by using the process of radiative cooling. The device, which has no moving parts, uses an aerogel insulation that blocks and reflects visible rays of sunlight. The system can keep fruits and vegetables from spoiling and can help double the time the produce remains fresh in remote places where reliable power for refrigeration is not available. [Read more](#)

[Retrofitting HVAC Systems Could Create Renewable Energy Opportunities](#)

Researchers are proposing retrofitting air-conditioning units as integrated, scalable and renewable-powered devices capable of decentralized CO₂ conversion and energy democratization. Adapting air conditioning systems to be able to capture and convert carbon dioxide and water into renewable hydrocarbon fuels can create oil wells. The oil wells can be tapped, shared and stored, with the option for the property owner to receive payment for any excess fed into a renewable oil grid.

[Read more](#)

[Water Battery Powers Air-Conditioning Systems](#)

A three-story "water battery" is producing enough energy to power a university's air-conditioning systems, which is reducing its reliance on the grid by more than 40%. The water battery is a thermal energy storage system that uses energy generated by a 2.1-megawatt photovoltaic system to cool 4.5 megaliters of water resting inside a three-story tank. The campus' air-conditioning systems use the cooled water. [Read more](#)

ASHRAE Learning Opportunities



Advance your Career with ASH

ASHRAE offers 7 certification programs design professional's knowledge and sk area. The certifications allow you to sta clients and enhance your reputation.

Certifications offered:

- Certified HVAC Designer (CHD)
- High-Performance Building Design Professional (HBDP)
- Building Energy Modeling Professional (BEMP)
- Building Commissioning Professional (BCxP)
- Healthcare Facility Design Professional (HFDP)
- Building Energy Assessment Professional (BEAP)
- Operations & Performance Management Professional (C

Learn more at: <https://www.ashrae.org/professional-development/ash>

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immediately for inclusion in next month's newsletter. Please make checks payable to: ASHRAE Iowa. The cost is \$125.





Send payment to:

Tyson Scheidecker

ASHRAE Newsletter Sponsorship

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Urbandale, IA 50323

Michael Gustafson is collecting cards for 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: gustafsonm@thebakergroup.com.



Pictured: ASHRAE golfers demonstrating how not to golf.