

[View this email in your browser](#)



## Iowa Stalks Monthly Newsletter - February 2021

### This Month at ASHRAE Iowa

**Join us for another virtual chapter meeting this month on Tuesday, February 23! We will be joining the refrigeration presentations being given in the Minnesota chapter. See topics and times below. Look for a registration link coming soon!**

**11:00am: Micro-Distributed Store Solution with Propane as a Refrigerant**  
Presented by: Richard Gilles

**12:30pm: Applications and Status of R-32 and Other Refrigerants**  
Presented by: John Whithouse

**The virtual Annual Winter Conference was held February 9-11. Hopefully you were able to attend some sessions and pick up the latest and greatest from the Winter Conference.**

### President's Corner

Welcome to February Iowa Chapter!

Thank you to everyone who joined our January Airside Balancing Seminar from our own Board of Governors member and Government Affairs Committee Regional Vice Chair Matt Jesson. I thought he did a wonderful job and enjoyed learning more about the testing and balancing process. If you haven't already, take a look on our website [here](#) to download the attendance sheet as proof of attendance for your PDHs.

Winter seems to have finally hit hard and it is frigid this month. I suppose mother nature knew we would be hosting our refrigeration meeting this month! We are working hard to finalize details for the meeting. Stay tuned for an emailed meeting invite in the coming weeks for a meeting to take place the last week of the month and think warm thoughts!

As you may know, February is also the month in which we celebrate Engineer's Week. This year your Government Affairs Chair Matt Swenka had the ingenious idea to spotlight Iowa Chapter members. Each day we will highlight a randomly selected individual who submits a completed questionnaire on our Facebook page. Those selected will also receive a \$25 meal delivery service gift card. You should see the questionnaire in your inbox shortly.

The 2021 Region VI CRC is planned to be a hybrid event starting April 29<sup>th</sup>. At this time, all learning opportunities are planned to be available online, so it's another great chance to get some PDHs.

A meeting on hydronic balancing is scheduled for March, and we have secured a visit from ASHRAE Society President Chuck Gullledge for April. Chuck is an ASHRAE distinguished lecturer and will discuss his presidential vision as well as

**ASHRAE Iowa Chapter**  
[www.ashraeiowa.org](http://www.ashraeiowa.org)

#### - Board of Governors -

Matt Jesson  
Nick Terhall  
Laura Russo  
Jacob Larson

#### - Officers -

[President](#)  
Adam Puls  
[President Elect](#)  
Tyson Scheidecker  
[Treasurer](#)  
Peter Erzen  
[Secretary](#)  
Ted Gerber

#### - Committee Chairs -

[Attendance](#)  
Dan Zaug  
[Auditing](#)  
Joe Moench  
[CTTC](#)  
Gary Thompson  
Dan Blake  
[Communications](#)  
[Committee](#)  
Jason Kems  
[Education](#)  
Kit Cartwright  
Matt Gumm  
[GAC](#)  
Matt Swenka  
[Historian](#)  
David Poetting  
[Honors & Awards](#)  
Brian Steffens  
[Membership](#)  
Luke Miller  
[Product Directory](#)  
Holly Elbert

Research Promotion

Tjaden Ahrens  
Nick Seymour  
Student Activities

Michael Seymour  
TEGA  
Mike Wolfe  
YEA  
Elli Cloyd  
Terrence Schafer  
Wolf Outing Committee  
Jeff Hammer  
Nathan Edwards

## Past Presidents

Verne Stewart 1976-1977  
Curtis Hammer 1975-1976  
Ronald 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'Neill 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

## 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	31	Brianwood Country Club Ankeny	Fall Frolic Golf Outing
October	22	Jethros - Ames, IA	Student Night + Women in Industry Panel
December	1	Virtual	Super Tech with Mick Schwedler
December	17	Virtual - 4pm	Happy Hour with MP and RP
January	20	Virtual - Noon	Air Side Testing and Balancing
<b>February</b>	<b>23</b>	<b>Virtual with MN Chapter</b>	<b>Refrigeration</b>

April	TBD	At Your Computer	Webinar
April	TBD	Des Moines Area TBD	Bowling + History Project
May	TBD	Des Moines Golf and Country Club	Spring Fling Golf Outing

Society & Region Events

Month	Date	Location	Topic
October 2020	25-27	Peoria, IL - Virtual	2020 Region VI CRC
February 2021	9-11	Virtual	2021 Winter Conference
April-May 2021	29-1	Green Bay, WI and Virtual Option	2021 Region VI CRC

What's New in the Iowa Chapter?

Special Recognition for ASHRAE Iowa member Corey Metzger

See link below to ASHRAE News publication and announcement of Distinguished Service Award for Corey Metzger. Congratulations on the honor and thank you for you service!

<https://www.ashrae.org/about/news/2021/ashrae-recognizes-members-for-outstanding-industry-accomplishments>

Engineer’s week is right around the corner, February 21-27, and the Iowa ASHRAE Chapter would like to celebrate with you!

We’ve all missed out this past year on one of the best parts of ASHRAE, getting to socialize and know our colleagues in the profession. For engineers week we will select one member each day of the week to spotlight on our Facebook page. That member will also be rewarded with a \$25 Grubhub credit. Simply fill out the questionnaire below and return to Matt Swenka [mswenka@willdan.com](mailto:mswenka@willdan.com) by February 19.

1.
- Name
2.
- Company
3.
- Title/Role
4.
- Alma mater
5.
- Why did you go into engineering?
6.
- What words of wisdom/advice do you have for new engineers or someone considering the profession?
7.
- Tell us about your favorite engineering related project, story, experience. I know a few of you have a good story or two!

(Bonus points if you provide a headshot for posting!)

GAC UPDATES!

Government funding and coronavirus relief legislative package

Several provisions of interest to ASHRAE members were Included as part of the recently passed government funding and coronavirus relief package. This includes \$82 billion in Covid relief funding for schools that can be used for building system inspections, maintenance, repair, and upgrades projects to improve IAQ. In addition, the legislation makes permanent 179D tax deduction for energy efficient buildings. The legislation also includes HFC phasedown authority to the EPA, increases the DOE budget, and provides EnergyStar funding.

This is an enormous piece of legislation that staff is still reviewing and will provide further details on.

Iowa Legislative Session

The Iowa legislative sessions kicks off January 11, 2021. As a result of Covid, we will not be doing the Design Professionals Day on the Hill this year. We will continue to monitor legislation, socially distanced, and report back to the chapter.

State Board Positions

The state of Iowa has a number of boards that provide guidance and rulings on things that impact our profession. These boards include the boiler and pressure vessel board, examining boards, elevator safety, plumbing and mechanical, and several others. We encourage you to review and apply to available board positions at <https://talentbank.iowa.gov/>.

## 2021 Product Directory Complete!

Thank you to all sales representatives for advertising. The directory is available in PDF format on our website [HERE](#). Printed copies should be delivered by mail by end of February to all ASHRAE Iowa members and non-members who ordered the directory. If you would like to order additional directories they are \$10. Please contact Holly Elbert to order. If there are any questions, or you did not receive your directory please contact Holly at [helbert@bbsae.com](mailto:helbert@bbsae.com)

## Consider ASHRAE eLearning

In light of coronavirus concerns and the impact the pandemic is having on travel, [ASHRAE eLearning](#), a 100% web-based training allowing you to learn at your own pace and when convenient, can be a valuable resource. Courses can be accessed anywhere, anytime, and from any computer with an internet connection. Courses contain interactive exercises that enable you to engage and retain what you have learned. [Learn more](#).

Offerings include these popular course packages:

- Fundamentals: HVAC Systems
- HVAC Control Systems
- System Essentials
- DDC Controls
- Electrical System Design
- Sustainability
- Standard 62.1: Ventilation for Acceptable Indoor Air Quality
- Standard 90.1: Energy Standard for Buildings
- Standard 189.1-2011 - High Performing Green Buildings
- Loads and Modeling

Recently Updated:

- Introduction to HVAC Design (1.5 PDHs)
- Refrigeration System Parameters and Key Performance Indicators (KPIs) (1.0 PDH)

Once enrolled, you have 12 months to complete your training.

### Why ASHRAE eLearning?

- Convenient way to learn about new applications and standards
- Easy way to keep up with license and certification requirements
- Approved by AIA and GBCI
- Earn PDHs/CEUs
- Courses created by industry leaders in HVAC&R

For the complete eLearning catalog, please visit <https://elearning.ashrae.org/>.

Individuals can register online at <https://elearning.ashrae.org/> and immediately gain access. Companies can register employees by contacting [elearning@ashrae.org](mailto:elearning@ashrae.org) or calling 678-500-3917.

[ASHRAE eLearning](#) is an approved Continuing Education provider for the American Institute of Architects (AIA), and a U.S. Green Building Council (USGBC) Education Partner. Continuing Education (CE) hours earned from ASHRAE eLearning may be applied toward maintenance of state-licensed professionals (architects and professional engineers) and LEED credentials.

Thank you,

ASHRAE eLearning

Research Promotion

Go to <a href="http://ashraerp.com">http://ashraerp.com</a> to donate online. Please contribute all donations to the Endowed Research via ASHRAE Foundation.					
Individual Investors				Company Investors	
HR = Honor Roll participants \$150 min		43.0% OF GOAL    \$11,395.06 -TO GO!		HR = Honor Roll participants \$500 min	
Ronald A Engelhardt	HR	\$20,000		Miller Mechanical Specialties, Inc.	
Curtis J Klaassen	HR	\$19,500		Millennium Technology of Iowa	
Luke Miller	HR	\$19,000		Iowa ASHRAE Chapter	
Fred Miller	HR	\$18,500			
Adam Puls	HR	\$18,000			
Tjaden Ahrens	HR	\$17,500			
Nick Seymour	HR	\$17,000			
Peter Erzen	HR	\$16,500			
		\$16,000			
Tyson Scheidecker	HR	\$15,500			
David Poetting	HR	\$15,000			
Ted Gerber	HR	\$14,500			
Matt Jesson		\$14,000			
Matt Gumm		\$13,500			
		\$13,000			
Rick Kapustka	HR	\$12,500			
Jacob Larson		\$12,000			
Paul Melton		\$11,500			
		\$11,000			
Dan Zaig	HR	\$10,500			
James Lee	HR	\$10,000			
Chris Nelson	HR	\$9,500			
		\$9,000			
		\$8,500			
		\$8,000			
		\$7,500			
		\$7,000			
		\$6,500			
		\$6,000			
		\$5,500			
		\$5,000			
		\$4,500			
		\$4,000			
		\$3,500			
		\$3,000			
		\$2,500			
		\$2,000			
		\$1,500			
		\$1,000			
		\$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

[Turbomachine Expander Offers Efficiency, Safety for Heating, Cooling](#)

Purdue University researchers developed a device to decrease energy consumption of the vapor-compression heat pump cycle, which is commonly used in homes, businesses and vehicles for cooling and heating. The team created a novel turbomachine expander that helps harvest previously wasted energy used in the process of moving the air from high to low pressure. The device can be used as a control agent within an existing heat pump. [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](#)

[Thermal Comfort Model Measures Body Shape With Sensors](#)

A team at Carnegie Mellon University has created the first model that combines environmental information with data on an individual's body shape to determine thermal comfort. Information is aggregated to find the temperature that the most occupants possible will find comfortable. The system estimates body shape information from depth-imaging sensors, which are less privacy-invasive than approaches such as cameras. [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



ASHRAE offers 7 certification programs that demonstrates a design professional's knowledge and skills in a practice area. The certifications allow you to stand out to potential 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 (OPMP)

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

## Newsletter Sponsors

Sponsoring our monthly newsletter is a great way to advertise your business and support your Iowa ASHRAE Chapter. Please consider sponsoring for the 2020-2021 society year. Renewing and new sponsors need to send in payment immediately for inclusion in next month's newsletter. Please make checks payable to: ASHRAE Iowa or see the link below. The cost is \$125. Get your sponsorship in to get your logo below!

[https://ashraeiowa.org/?espresso\\_events=2020-21-newsletter-sponsorship](https://ashraeiowa.org/?espresso_events=2020-21-newsletter-sponsorship)

**Send payment to:**

Peter Erzen  
ASHRAE Newsletter Sponsorship  
P.O. Box 3686  
Urbandale, IA 50323



**CORN STATES METAL FABRICATORS**



**HART - HAMMER, INC.**

Phone (515) 277-6305  
Fax (515) 277-3069  
529 Elm St • PO Box 65517  
West Des Moines, IA 50265  
[www.harthammer.com](http://www.harthammer.com)  
[info@harthammer.com](mailto:info@harthammer.com)









**L.A. FULTON & SONS**



***MECHANICAL SALES INC.***   
*SERVICE IS OUR TRADEMARK!*



**Millennium Technology**  
OF IOWA

20 YEARS OF INNOVATIVE HVAC SOLUTIONS

1454-30th Street, Suite 207  
West Des Moines, IA 50266

Phone (515) 223-6048  
Fax (515) 223-7269  
[info@milltechhvac.com](mailto:info@milltechhvac.com)

[www.milltechhvac.com](http://www.milltechhvac.com)



**RAYMON ENTERPRISES**



**Rist & Associates**  
MANUFACTURERS REPRESENTATIVES







Phone: (515) 243-8720  
FAX: (515) 243-8714  
[www.ristandassociates.com](http://www.ristandassociates.com)

4 Washington Ave.  
P.O. Box 1807  
Des Moines, Iowa 50305



## SME MECHANICAL



IOWA CHAPTER



Ted Gerber 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: [tgerber@dptgroup.com](mailto:tgerber@dptgroup.com).



Copyright © 2021 ASHRAE Iowa, All rights reserved.

Want to change how you receive these emails?  
You can [update your preferences](#) or [unsubscribe from this list](#).

