



Iowa Stalks Monthly Newsletter - February 2020

This Month at ASHRAE Iowa

February Meeting Information

Refrigeration

Presentation and

Exile

Tour

When

Tuesday February 18, 2020

- 4:30 – 6:00 Check-in, brewery tour, and social hour
- 6:00 – 7:00 Dinner
- 6:15 – 7:15 Technical Presentation

Location

Exile Brewery
1514 Walnut St
Des Moines, IA 50309

Every tour attendee must pre-register.

Presentation:

The Future of Refrigerants

Presenter: Stephen “Steve” Kujak

Director – Next Generation Refrigerant Research – Ingersoll Rand

President's Corner

Hello again, Iowa Chapter members. I'd like to start by thanking everyone who attended our panel discussion in January. Many braved the snow covered roads out to Hotel Renovo and participated in the discussion with our panel of building operators. If you weren't able to join us, we have plenty of opportunities in the coming months that I'd like to highlight here.

Next week, on **February 18th**, we will be hosting our Region VI Refrigeration Chair, Steve Kujak. We are honored to have Steve join us and provide a presentation on “The Future of Refrigerants”. We will meet at Exile Brewing Company and start the evening off with a social hour and tour of their brewery. We will then meet in the Beer Hall for our chapter meeting, dinner, and Steve's presentation. The event is just a week away, so sign up today and we'll see you next week!

Mark your calendars for March 25th. We'll be hosting our Super Tech session with three

afternoon classes at the Downtown Marriott. ASHRAE Distinguished Lecturer Dru Crawley will be joining us to give the presentations. More details on the topics will be released soon. Don't miss out on this opportunity to earn 3 PDHs in one afternoon.

We have some exciting events planned to finish off the ASHRAE year with a bowling event in April and our annual Spring Fling Golf Outing in May. The golf outing is set for May 18th at Des Moines Golf and Country Club. Registration will not open until April 6th, but you can sign up to sponsor the outing on our [website](#) now. The Spring Fling will fill up fast so please save the date and consider sponsoring the event to support the Iowa Chapter RP campaign.

It's hard to believe it's already time to start thinking about the 2020 ASHRAE Region VI Chapters Regional Conference (CRC). This year's CRC will be hosted by the Central Illinois Chapter in Peoria, IL. Mark your calendars for May 7-9 and watch for emails from the Central Illinois Chapter to get signed up for the conference. You can visit their [website](#) for more details.

We hope to see you next week at Exile!

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

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www.ashraeiowa.org

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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	Hotel Renovo (Urbandale)	Building Operators Panel
February	18	Exile Brewing	"Future of Refrigerants," by Steve Kujak
March	25	Marriott Downtown	Super-tech MP, RP, & History Project
April	TBD	At Your Desk!	ASHRAE Webcast
April	TBD	Val Lanes	Chapter Meeting and Bowling Tournament
May	18	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?

January Meeting - Building Operators Panel

January's meeting was held at Hotel Renovo where a discussion with building owners and operators from various industry segments took place. Panelists shared their experiences and the issues they face on a daily basis.





Next YEA Meeting at Smash Park

The YEA Committee invites the YEA members for an evening of drinks, eats, and trivia on March 9th at Smash Park. Meet around 6:30, trivia start at 7. Sign up at www.Ashraelowa.org



2020 Product Directory is Complete

Thank you to all sales representatives for advertising. The directory is available in PDF format on our website ([Click 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

Apply for Regional Historian Position

Wanted: Regional Historian

Term: 3 years, DRC-appointed

Travel: CRC, Regional Planning, chapter visits as needed

Position Description (from the Regional and Chapter Historians Guide, June 2011)

In June 1978, the position of Regional Historian was created by the ASHRAE Board of Directors and appointed by the Director and Regional Chair (DRC). Guidelines were established by the Society's Committee for the Regional Historians as follows:

1. Aid and encourage the chapter historian and communicate often.
2. Receive and retain chapter publications and minutes of the annual CRC, under the review and direction of the DRC. Also, receive copies of communications from headquarters that are sent by the Society to chapter historians.
3. Seek regional sources of artifacts, photographs and documentary articles relating to the HVAC industry through chapter historians.
4. Collect historical pictures and data that could be used for publication from major manufacturers who are willing to furnish them.
5. Make inquiries through chapters as to which libraries have materials, publications and references of interest to our members as well as which libraries would be willing to loan such items.
6. Oversee PAOE points for the current year on the ASHRAE website for Historical Data entered by the chapter historians and enter points that are assigned to the Regional Historian...
7. Coordinate time and facilities for the annual CRC with the DRC & General Chair to host a workshop for chapter historians and encourage historians' attendance.
Note: The regional historian shall assemble electronic materials for distribution to chapter historians prior to or immediately after the CRC workshop. This is to be done with reference and guidance.
8. Review and seek comments on the individual chapter Gold Ribbon entries, send them to the Society and present Gold Ribbon Awards at CRC.
9. Maintain and record lists of all members receiving Regional and Society Awards.
10. Maintain a list of all regional officers.
11. Prepare and annually update the history for the region on the Historical Committee website.

Interested? Contact Eric Sturm | esturm@trane.com | (608) 787-

ASHRAE Technology Awards

ASHRAE IOWA Members. We are at that time of year again where we ask our Members to submit projects for the ASHRAE Technology Awards. The Technology Awards recognize ASHRAE members who are involved in the design of innovative and energy efficient buildings. Fill out the attached application and submit following the procedure below.

This year's chapter deadline is **April 3rd**

Projects may be new buildings, existing buildings, or commissioning of existing buildings and are divided into six categories:

- Commercial Buildings
- Institutional Buildings
- Health Care Facilities
- Industrial Facilities or Processes
- Public Assembly
- Residential

Prize: We are giving away **\$100 prizes** to the first-place winner in each of the six categories.

All projects must be complete and a minimum of one year of energy data must be submitted. Submissions are first reviewed at the Chapter level. Winners from this level are then submitted to the Regional Level. Regional winners may then be submitted to the Society level where winners are then published in the ASHRAE Journal. There are two submission forms, a short form and a long form. The short form is acceptable for chapter and regional level submissions. In order for a project to be able to compete at the Society level, a long form submission must be

completed.

More information about the Technology Awards program and submission forms can be found on the [Technology Awards](#) page at the ASHRAE Iowa Website. Projects should be submitted electronically to Dan Ponxs. Contact information can also be found on the ASHRAE Iowa Technology Awards page.

The Technology Awards program is a great way for Members to gain recognition for their projects. The program also builds recognition for the member's employers and the owners of the buildings. I encourage all members take a look at their past projects and consider submitting any of them that are innovative or energy efficient.

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		31.4% OF GOAL \$13,729.88 -TO GO!	HR =
Mark G Conway	HR		
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		\$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)
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- Building Energy Assessment Professional (BEAP)
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Learn more at: <https://www.ashrae.org/professional-development/ash>

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