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Iowa Stalks

Monthly Newsletter - March 2020

This Month at ASHRAE Iowa

March Super Tech Session Information

Super Tech Session

When

Wednesday, March 25th, 2020

Program

1:00 – 1:15 Check In

1:15 – 2:15 Getting from AEDGs to Zero-Energy Buildings

2:30 – 3:30 Building Performance Simulation: What's in the Black Box

3:45 – 4:45 Big, Smart and Everything: Data, Technology, Buildings, Cities and the IoT

5:00 – 6:00 Social Hour

Presenter: Dru Crawley is Bentley Fellow and Director, Building Performance Research focusing on building performance, BIM, net-zero-energy buildings, sustainability, resilience, and smart cities. Prior to being elevated to Bentley Fellow in 2014, he led development of Bentley's suite of building performance software for four years. Before joining Bentley in 2010, Dr. Crawley developed and managed EnergyPlus and the USDOE's Commercial Buildings Initiative (now Better Buildings Initiative and Alliances) promoting creation of net-zero-energy buildings.

Location

Marriott Downtown

700 Grand Ave

Des Moines, IA 50309

Cost

\$50 for ASHRAE Iowa members

\$100 for non-members

Always free for students

Please [register](#) online if you are attending.

President's Corner

I'd like to start by thanking everyone who was able to make it to our February meeting at Exile. What a great turnout! Whether you came for the tour, presentation, food, beer, or fellowship, we appreciate the support of your local chapter. If you couldn't make it, there are still several opportunities to get involved this spring.

Our next meeting will be March 25th at the Downtown Marriott. We are honored to host ASHRAE Distinguished Lecturer Dru Crawley, as he will be providing three interesting presentations for our chapter. This will be an excellent opportunity to earn 3 PDHs in one afternoon. More information on Dr. Crawley and the topics he will be presenting can be found on our [website](#). After the presentations are over be sure to stick around and join us for social hour.

Save the date for our third annual bowling event on April 20th. Come out and join us for this fun and casual event that will include a short chapter meeting, pizza, refreshments, and of course bowling. Bowling skills are not required! The Spring Fling is also 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

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www.ashraeiowa.org

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If you haven't already done so, please consider submitting a project for our annual chapter technology awards. It is an easy process to fill out the forms. Winners at the chapter level will receive a \$100 prize and will move on to the regional competition. More details can be found later in this newsletter and on our [website](#). Submissions are due on April 3rd, so don't delay.

Registration should open up any day now for 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 the [CRC website](#) for more details.

I look forward to seeing some familiar faces, as well as new ones, at these upcoming events!

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

Matt Gumm

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Brian Steffens 2018-2019

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Kelly Crow 2011-2012

Holly Elbert 2010-2011

Roger Leshner 2009-2010

Kit Cartwright 2008-2009

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

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	E.O. Olson 1946-1947
Gary Reynolds 1987-1988	B.E. Landes 1945-1946
Dennis Hogan 1986-1987	W.W. Stuart 1944-1945
Eugene Zefron 1985-1986	C.W. Helstrom 1943-1944
Donald Hagge 1984-1985	P.E. Triggs 1942-1943
Robert Rist 1983-1984	Perry LaRue 1941-1942
Joseph Proctor 1982-1983	R.A. Norman 1940-1941
Mark Allen 1981-1982	Tracy Johnson 1939-1940
Curtis Klaassen 1980-1981	W.R. White 1938-1939
Gerald Anderson 1979-1980	
C.W. Miller 1978-1979	
Richard South 1977-1978	

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

Subscribe	Past Issues		Translate ▼	RSS
	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	20	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?

Golf Outing Sponsorship Registration is Now Open Registration Will Open on April 6th

Monday May 18th, 2020 – 11:00 am Shotgun Start – NOTE THE START TIME!

4-Person Best Ball Tournament

Dinner to follow right after Golf

Door, Pin Event and Place Prizes after dinner

Des Moines Golf and Country Club

1600 Jordan Creek Parkway

West Des Moines, IA 50266

www.dmgcc.com

Pricing:

\$130 – 18-holes – 1/2-cart

NOTE: You must bring cash – NO CREDIT CARDS WILL BE ACCEPTED AT THIS EVENT. There will be ample opportunities before the event to stock your cart as well as on the course.

Be a Sponsor for the event!

You can sponsor during your golf team registration or right now. The earlier you sponsor, the more publicity you will get. See below for sponsorship levels and our sponsors.

- Silver – \$100 – gets you a color sign at a tee box of one of the holes
- Gold – \$250 – also gets your name on a sponsorship list at the prize table and sponsors a pin event
- Platinum – \$500 – (**Maximum of 3**) also gets your name at the registration table, sponsors the main door prizes **AND ALLOWS FOR SETTING UP AT A TEE BOX TO GREET GOLFERS ALL DAY** (This is a new item added for the Platinum level!)

A BIG *Thank You* to our Spring Fling 2020 Sponsors:

Platinum – \$500 (limit 3 – ONLY ONE LEFT!)

Mechanical Sales, Inc.

Victaulic

Gold – \$250

Your name could be here!

Silver – \$100

Mack McClain Associates

Register a team online and pay through our secure payment system or mail a check to:

ASHRAE Golf c/o Hart-Hammer, Inc.

ATTN: Jeff Hammer

529 Elm St. – PO Box 65517

West Des Moines, IA 50265

See the [2020-05-18-Golf-DMGCC-Flyer](#) for all of the information in a printable version (just don't mail it in!

Register online!)

Golf and dinner Registration Closes May 13th (or when we reach maximum capacity).

- Payment **MUST** be made prior to registration closing or your spot may be given to next team on the waitlist.
 - **You must register online** – you can mail/deliver a check, just make sure it's in by the deadline!
-

Who to contact for help:

If you have questions with the website or registration site, contact Jason Kems or Chris Clausen.

If you have questions about Golf, Dinner or Payments, contact Jeff Hammer.

If you have questions about signs, contact Nathan Edwards.

If you have questions about sponsorships, contact Tjaden Ahrens or Gary Thompson.

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.





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 have already been delivered by mail 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

ASHRAE Photos Wanted

Brian Steffens is compiling and organizing all of our pictures for his history project. If anyone has photos from any Iowa Chapter event from any year, please send them to Brian: bsteffens@shive-hattery.com

Apply for Regional Historian Position

Term: 3 years, DRC-appointed

Travel: CRC, Regional Planning, chapter visits as needed

Position Description (from the Regional and Chapter Historians Guide, June 2018):

In June 1978, the position of Regional Historian was created by the ASHRAE Board of Directors and is appointed by the Director and Regional Chair (DRC). Guidelines were established by the Society Historical 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 guidance and direction of the DRC. Also, receive copies of communications from headquarters' staff 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 receive such items.
6. Oversee PAOE points for the current year on the ASHRAE website for Historical that are 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 hold 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 used for reference and guidance.
8. Review and seek comments on the individual chapter Gold Ribbon entries, send in entries to 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's website.

Interested? Contact Eric Sturm | esturm@trane.com | (608) 787-3736

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.

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](#).

Go to <http://asnraerp.com> to donate online. Please contribute all donations to The Endowed Research via ASHRAE

Foundation.

Individual Investors HR = Honor Roll participants \$150 min		31.4% OF GOAL \$13,729.88 -TO GO!	Company Investors HR = Honor Roll participants \$500 min	
Mark G Conway	HR	\$20,000		
Luke Miller	HR	\$19,500		
David Poetting	HR	\$19,000		
Larry Dewey		\$18,500		
Brian Steffens	HR	\$18,000		
Justin Barrett		\$17,500		
Christopher Nelson	HR	\$17,000		
Matthew Jesson		\$16,500		
Gary Thompson	HR	\$16,000		
Adam Puls	HR	\$15,500		
Tjaden Ahrens	HR	\$15,000		
Dale Vest	HR	\$14,500		
Michael Gustafson	HR	\$14,000		
Tyson Scheidecker	HR	\$13,500		
Ronald Engelhardt	HR	\$13,000		
Daniel Poxs		\$12,500		
Daniel Zaug	HR	\$12,000		
Richard Kapustka		\$11,500		
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		\$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!

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 standout 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 2019-2020 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. The cost is \$125.





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Send payment to:

Tyson Scheidecker

ASHRAE Newsletter Sponsorship

P.O. Box 3686

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.



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