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Iowa Stalks Monthly Newsletter - October 2020

This Month at ASHRAE Iowa

UPDATE!!! The October Chapter meeting was changed to an all virtual meeting. Sorry for the confusion on this. See link below to register for the virtual meeting tomorrow!

<https://us02web.zoom.us/join/joinMeeting?meetingRef=1601007379>

The Region VI CRC virtual event is going on now! There is still time to register and access lots of sessions going on over the next few days. Use the link below to register and view the meeting information!

<https://ciashrae.org/meetinginfo.php?id=16&ts=1601007379>

President's Corner

Welcome to Autumn Iowa Chapter! In normal years, the time between the golf outing and the first chapter meeting seems long, in 2020, it feels like it's been years. We are looking forward to getting together again on October 22nd.

This year we are having our annual joint meeting with the Iowa State Student ASHRAE Chapter virtually for the health and safety of all attendees. This unfortunately means no tours of the latest and greatest buildings Ames has to offer, but does allow us all a better opportunity to join in on our industry panel. We are continuing the tradition to host a panel of industry professionals to discuss their work, involvement in ASHRAE, and path to their career with students. This year we are fortunate to have an all-female panel with experience in all aspects of our industry. I know that the knowledge and experience of our panelists will be valuable to all and encourage you to participate. We will also be awarding several scholarships to some well-deserving student applicants. See our [website](#) for additional details and to register for the event.

Looking ahead, we have planned an afternoon of ethics and technical information for our "November" meeting set for December 1st. We are fortunate to have secured Distinguished Lecturer (DL) Mick Schwedler as a speaker. Unfortunately, due to continued COVID-19 concerns, ASHRAE Society has banned DL travel for the remainder of the calendar year. While this has sidelined our in-person planning for that meeting, we have worked out a virtual backup plan and will release final details shortly.

ASHRAE Iowa Chapter

www.ashraeiowa.org

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and ability to safely host chapter meetings in person. We understand that a large portion of chapter membership is the networking and personal bonds forged between members at our meetings; however, we have decided to continue meetings virtually for the time being for the health and safety of all of our members. Thank you for your understanding and for your continued support of our chapter. If you have any thoughts, questions, or concerns with these decisions, please do not hesitate to contact me.

Finally, a plea for money! If you or your company would like to support our ASHRAE Research Promotion (RP) campaign, please take a few moments to visit our RP section of the newsletter. There you will find directions on how you can support our chapter and its fundraising goals. The Iowa Chapter has been a consistent RP leader in our region, and we aim to continue that this year. Please also consider sponsoring this newsletter. If you have a desire to become a newsletter sponsor, please contact either of our RP chairs. Thank you for your support!

We hope to see you on October 22nd!

Adam Puls (adam.puls@ijsinc.com)
Iowa Chapter President 2020-2021

- Luke Miller
- [Product Directory](#)
- Holly Elbert
- [Refrigeration](#)
- Justin Barrett
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- Nick Seymour
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- | | |
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| <ul style="list-style-type: none"> David Poetting 2019-2020 Brian Steffens 2018-2019 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 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 | <ul style="list-style-type: none"> 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 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 |
|---|--|

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	31	Briarwood Country Club Ankeny	Fall Frolic Golf Outing
October	22	***VIRTUAL***	Student Night + Women in Industry Panel
December	1	***VIRTUAL***	Super Tech with Mick Schwedler
December	14	Holiday Inn (Downtown)	SMCI / CSI Joint Meeting
January	20	Des Moines Area TBD	Air Side Testing and Balancing
February	17	Des Moines Area TBD	Refrigeration
March	16	Des Moines Area TBD	Hydronic Balancing with Luciano Belo
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
January 2021	23-27	Chicago, IL	2021 Winter Conference
April-May 2021	29-1	Green Bay, WI	2021 Region VI CRC

What's New in the Iowa Chapter?

Food Bank Efforts & "Pack the Pantry"

A joint effort with local industry, local government, Iowa State University Extension, and our chapter has helped over 100 grant applications secure nearly \$450,000 in funding for walk in coolers projects at local food pantries. Applicants can receive up to \$10,000 to increase refrigeration capacity making more perishable, locally-grown foods available to their customers. A special thanks to Justin Barrett, Tim Conrad, and Jon Scanlan with HyVee for spearheading the efforts to assist with this program.

2020 History Project is Ready!

Check out the latest history project that Brian Steffens put together. He helped organize and albumize all of our past photos into one location for viewing – our [website!](#)

If you want to find the page on your own, go to the Committee menu, History and Photo Album History. From there, click on any of the many albums created to view the photos.

Have some old ASHRAE related photos you want to share? Send them to Brian or get them to any one of the board members. We'll get them added to our archive and posted so everyone can enjoy them for years.

ASHRAE COVID-19 Resource Page

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

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 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

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://ashraerp.com> to donate online. Please contribute all donations to the Endowed Research via ASHRAE Foundation.

Individual Investors HR = Honor Roll participants \$150 min		10.0% OF GOAL \$18,000.00 -TO GO!	Company Investors 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		
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		
Tyson Scheidecker	HR	\$16,000		
David Poetting	HR	\$15,500		
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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

[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



Advance your Career with ASHRAE Certifications

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>

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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. The cost is \$125.



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