**This Month at ASHRAE Iowa**

Join us for another virtual chapter meeting this month on Tuesday, March 16 at Noon! Lunch will be provided via GrubHub digital gift card to order from your favorite local restaurant. Cutoff for registration to receive the gift card is Monday March 15th at 5:00pm.

You are invited to a Zoom meeting.
When: Mar 16, 2021 12:00 PM Central Time (US and Canada)
Register in advance for this meeting:
https://us02web.zoom.us/meeting/register/tZ0od--hrT0sGdUfSe6RZmjZAIeQl45sIvL

After registering, you will receive a confirmation email containing information about joining the meeting.

The Region VI CRC this year will be a hybrid in person and virtual event from April 27 through May 1. See more information at the link below.
https://www.newiashrae.org/crc-2021

Mark your calendars for May 17 when we will be holding the annual Spring Fling Golf Outing at Des Moines Golf and Country Club.

---

**President’s Corner**

Hey there, it looks like spring is trying it’s best to arrive this month, let’s hope the warmer weather continues.

This month’s meeting will focus on hydronic balancing and take place over the lunch hour on March 16th. Attendees will get a gift card for lunch. We hope to see you there. On April 27th, we have Society President Chuck Gulledge presenting his presidential theme on “Design-Build-Operate-Maintain. What could possibly go wrong?”. Our most recent Chapter President, David Poetting, will present his chapter history project.

As vaccines begin their roll out, positivity and hospital rates drop, and our state opens up we have been thinking long and hard about when to get ASHRAE back to in-person meetings. I know I’m eager to get drink tickets in Zaug’s hands and chat with members face to face. However, we have decided to follow society’s lead and the recommendations of the CDC regarding gatherings and finish out the regular chapter meetings as virtual events this year. We looking forward to seeing everyone in person at the golf outing at Des Moines Golf and Country Club in May.

As we continue to look forward to a more normal future, be on the lookout for board member elections within the coming weeks. President-elect Tyson Scheidecker has been hard at work...
board positions or potentially joining the board, please reach out to myself or Tyson. We’d love to help you get involved!

Thank you for information and continued support of the ASHRAE Iowa Chapter.

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

Past Presidents

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 Lesher 2009-2010
Kit Cartwright 2008-2009
Jernod 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 Trustlow 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
Edward 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

Iowa Chapter Future Meetings

<table>
<thead>
<tr>
<th>Month</th>
<th>Date</th>
<th>Location</th>
<th>Topic</th>
</tr>
</thead>
</table>

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.
Society & Region Events

<table>
<thead>
<tr>
<th>Month</th>
<th>Date</th>
<th>Location</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>October 2020</td>
<td>25-27</td>
<td>Peoria, IL - Virtual</td>
<td>2020 Region VI CRC</td>
</tr>
<tr>
<td>February 2021</td>
<td>9-11</td>
<td>Virtual</td>
<td>2021 Winter Conference</td>
</tr>
<tr>
<td>April-May 2021</td>
<td>29-1</td>
<td>Green Bay, WI and Virtual Option</td>
<td>2021 Region VI CRC</td>
</tr>
</tbody>
</table>

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 your service!

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

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/.

ASHRAE COVID-19 Resource Page
To view ASHRAE's COVID-19 resource page, click here:
https://www.ashrae.org/technical-resources/resources

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 were delivered by mail by the 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...
Consider ASHRAE eLearing

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
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**

*Bermachine 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.

<table>
<thead>
<tr>
<th>Certifications offered:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Certified HVAC Designer (CHD)</td>
</tr>
<tr>
<td>High-Performance Building Design Professional (HBDP)</td>
</tr>
<tr>
<td>Building Energy Modeling Professional (BEMP)</td>
</tr>
<tr>
<td>Building Commissioning Professional (BCxP)</td>
</tr>
<tr>
<td>Healthcare Facility Design Professional (HFDP)</td>
</tr>
<tr>
<td>Building Energy Assessment Professional (BEAP)</td>
</tr>
<tr>
<td>Operations &amp; Performance Management Professional (OPMP)</td>
</tr>
</tbody>
</table>

Learn more at: [https://www.ashrae.org/professional-development/ashrae-certification](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 Einzen
ASHRAE Newsletter Sponsorship
P.O. Box 3686
Urbandale, IA  50323

---

**A.J. Allen Mechanical Contractors, Inc.**

**Bluestone Engineering**

**Brockway Mechanical & Roofing**

**"Performance Driven"**

**Central Sales Inc.**

**Control Installations of Iowa, Inc.**

**Corn States Metal Fabricators**
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.