

[View this email in your browser](#)



Iowa Stalks Monthly Newsletter - November 2019

This Month at ASHRAE Iowa

November is Student Night in Ames

Iowa State Student Innovation Center (SIC) Tour

Date: Tuesday, November 19th

Please bring PPE (hard hat, safety glasses, high visibility vest...etc.) if you have it and dress appropriately for an active construction site. There will be extra PPE at the tour site for those who do not bring their own

Refer to the attached map for presentation location, construction site location and parking options

Schedule:

4:00-5:00 – ASHRAE Industry/Student Panel Discussion – Room 3155 at Marston Hall

5:00-5:15 – Registration – **Room 3155 at Marston Hall**

5:15-5:45 – Student Innovation Center (SIC) Presentation by Lincoln Pearce and Ryan LePera – Room 3155 at Marston Hall

5:45-6:00 – Walk to Site for SIC Tour

6:00-7:00 – SIC Tour

7:30 – ASHRAE Social/Dinner at Jethro's in **Ames**

The new Student Innovation Center at Iowa State University will be the first of a kind facility on campus. The building is comprised of several different spaces types for collaborative use by students from all colleges within the University. The building will provide opportunities for hands-on student learning including:

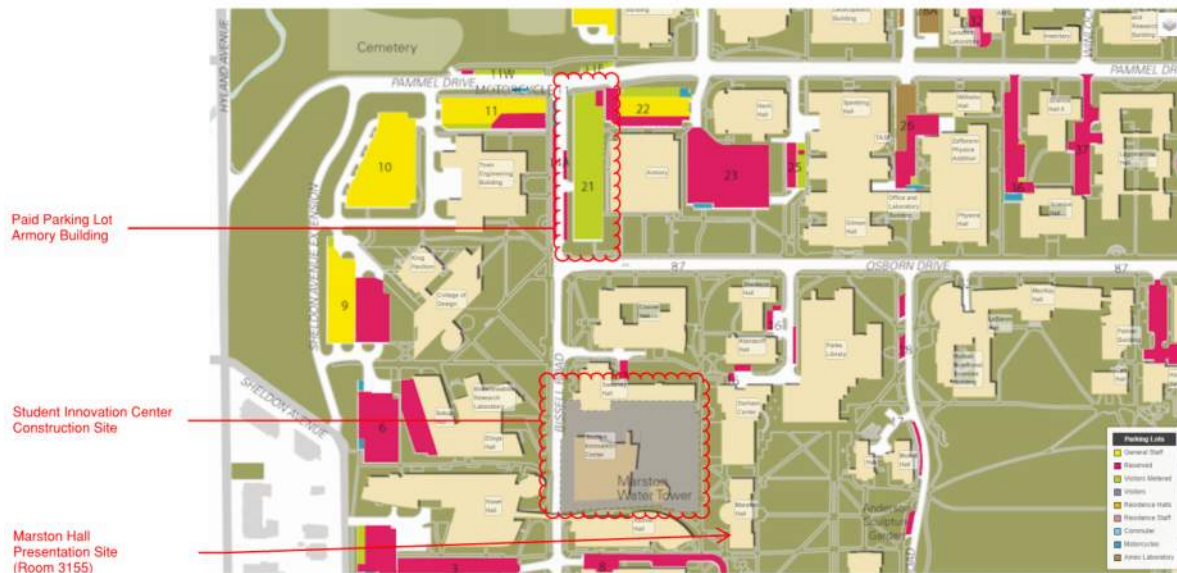
- Welding shop
- Woodworking shop
- Paint booth

[Subscribe](#)[Past Issues](#)[Translate ▾](#)[RSS](#)

- Demonstration kitchen
- Lunar lab
- Engine dynamometer lab
- Recording studio
- Presentation space
- Meeting and classroom space

With several varying spaces types in the building and a need for future flexibility, multiple unique HVAC systems types serve the building. The systems include energy savings features integral to the operation of the building. The presentation and will discuss the building systems design and decision making process.

ASHRAE Iowa - Student Innovation Center Tour ISU Campus Tuesday 11/19/2019



President's Corner

With the temps this week, it seems we have skipped fall and went straight to winter. Hopefully you will still be able to make it to a few ASHRAE events before the year is up as we have several events planned for the remainder of 2019!

You may have noticed the Iowa Chapter website has been down for a couple weeks. We are in the process of transferring our website from the existing server to a new hosting service. We have

ASHRAE Iowa Chapter

www.ashraeiowa.org

- Board of Governors -

Matt Jesson

Sara Schmerbach

Elli Abel

Terence Schafer

- Officers -

[Subscribe](#)[Past Issues](#)[Translate ▾](#)[RSS](#)

the meantime, watch your inbox for Iowa Chapter emails and follow our [Facebook](#) page for meeting information. Thank you for your patience during this transition.

We held our first meeting of the year a few weeks ago at Hyperion. It was wonderful to see such a great turnout to hear Rita Perea's presentation on "Professional Ethics for Licensed Engineers". Thanks to everyone who came out to help make the meeting a success.

On the 19th we'll be making our annual trip to Ames to support the ASHRAE ISU Student Chapter. We will start with a student panel discussion at Marston Hall followed by a presentation and tour of the Student Innovation Center. We will end the evening at Jethro's for some BBQ, drinks, and award a few student chapter scholarships. With our website being down, you can view meeting information and RSVP for the event [here](#).

The December meeting will be our annual joint lunch with CSI and SMCI at the downtown Holiday Inn. This year's meeting will be on December 16th and will feature SMACNA's Executive Director, Eli Howard, speaking on "HVAC System Effects – Efficient Duct System Selection". Mark your calendars and we hope to see you there.

We are also planning a Young Engineers in ASHRAE (YEA) event for early December. Details are still being finalized, so stay tuned for more information in the coming weeks.

We hope to see you next week in Ames!

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

President Elect

Adam Puls

Treasurer

Tyson Scheidecker

Secretary

Michael Gustafson

- Committee Chairs -

Attendance

Dan Zaug

Auditing

Joe Moench

CTTC

Peter Erzen

Ted Gerber

eCommittee

Jason Kems

Chris Clausen

Education

Kit Cartwright

Matt Gumm

GAC

Matt Swenka

Historian

Brian Steffens

Honors & Awards

Luke Miller

Membership

Tim Conrad

Product Directory

Holly Elbert

Refrigeration

Justin Barrett

Research Promotion

Tjaden Ahrens

Gary Thompson

Student Activities

Mike Wolfe

Joe Nielsen

TEGA

Dan Ponxs

YEA

Heidi Meyer

AG Oviatt

Golf Outing Committee

[Subscribe](#)[Past Issues](#)[Translate ▼](#)[RSS](#)

Past Presidents

| | |
|------------------------------|---------------------------|
| Brian Steffens 2018-2019 | Verne Stewart 1976-1977 |
| Luke Miller 2017-2018 | Curtis Hammer 1975-1976 |
| Andrew Pospisal 2016-2017 | Ralph Schilling 1974-1975 |
| Matt Gumm 2015-2016 | Donald Bonicamp 1973-1974 |
| Justin Barrett 2014-2015 | Kent Mosher 1972-1973 |
| Tim Conrad 2013-2014 | Thomas Van Hon 1971-1972 |
| Matt Jesson 2012-2013 | Robert McBride 1970-1971 |
| Kelly Crow 2011-2012 | William Whitman 1969-1970 |
| Holly Elbert 2010-2011 | Einar Dahl 1968-1969 |
| Roger Leshner 2009-2010 | Eugene O'Neil 1967-1968 |
| Kit Cartwright 2008-2009 | James Green 1966-1967 |
| Jerrod Sieverding 2007-2008 | Neil Hanson 1965-1966 |
| Jason Kems 2006-2007 | Bob Flanagan 1964-1965 |
| 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 | |

[Subscribe](#)[Past Issues](#)[Translate ▼](#)[RSS](#)

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 |
| November | 19 | Ames | Student Night & Tour |
| December | 16 | Holiday Inn (Downtown) | SMCI / CSI Joint Meeting |
| January | 22? | TBD | Building Operators Panel? |
| February | 19? | TBD | Refrigeration Meeting? |
| March | 25? | TBD | Super-tech MP, RP, & History Project |
| April | TBD | At Your Desk! | ASHRAE Webcast |
| April | TBD | Val Lanes | Chapter Meeting and Bowling Tournament |
| May | TBD | Des Moines Golf and Country Club | Spring Fling Golf Outing |

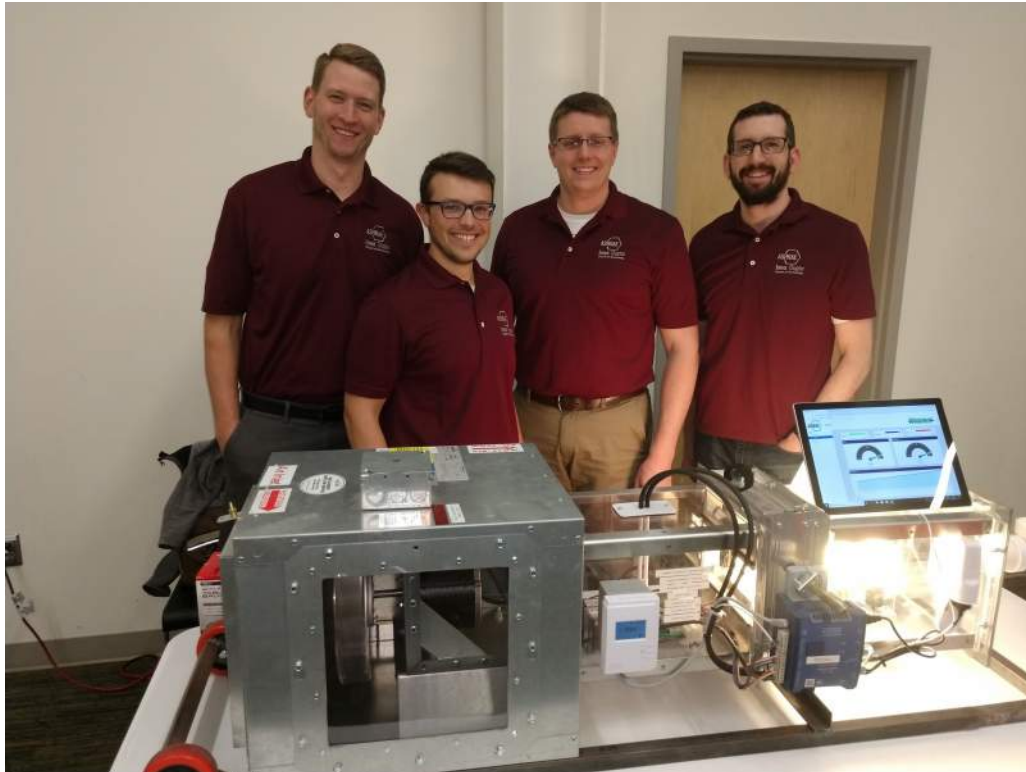
Society & Region Events

| 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?

ASHRAE Promotes STEM at DMACC

We presented our custom-built AHU demo rig at the DMACC STEM event on Monday, October 28th. Having a presence at this event was a good way to reach out to students to encourage their engagement in the HVAC industry.



[Subscribe](#)[Past Issues](#)[Translate ▼](#)[RSS](#)

DMACC Ankeny

STEM FESTIVAL

Science • Technology • Engineering • Math

MONDAY, OCTOBER 28, 6pm-8pm
DMACC ANKENY CAMPUS, FFA ENRICHMENT CENTER

Register at sctemhub.drake.edu

FUN, FAMILY-FRIENDLY, FREE
event for 3rd-8th graders and families.

An evening of interactive STEM activities designed for students to **EXPLORE, CREATE, MAKE,** and **LEARN** about exciting opportunities in Science, Technology, Engineering and Math.

Questions? Contact
Amy Steenhoek
a.steenhoek@dmacc.edu
or 515-965-7117

DMACC
2006 S. Ankeny Blvd.



Sponsored by

DMACC
DES MOINES AREA
COMMUNITY COLLEGE
Life's Calling™

DMACC CAREER DISCOVERY NETWORK

GREATNESS FROM STEMS

This is not a school district publication. It is being distributed through the school district as a community service of the District to inform you of other community activities or services available.

Good Turn Out at Ethics Seminar

We had our October meeting on the 23rd at the Hyperion Field Club in Johnston. Rita Perea presented to us on "Professional Ethics for Licensed Engineers."



Next YEA Event to be Hosted at The Hall

The next Young Engineers in ASHRAE (YEA) event will be on December 9th at The Hall in Valley Junction. We'll be playing Bingo! Keep an eye on your email for the official announcement.

December Meeting Info

It's SMCI's turn to plan the December joint meeting. The lunch meeting will be held at the Holiday Inn downtown Des Moines. The topic will be on efficient duct system selection:

HVAC System Effect – Efficient Duct System Selection

With the continued focus on high efficiency, today's presentation on fan system effect and impacts of duct fitting selection will provide key components for a high performance air distribution system. This highly interactive "live" demonstration comparing the performance of various inlet/outlet conditions and how they greatly impact the overall performance of the fan and system will be covered.

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 Endowed Research via ASHRAE Foundation. | | | |
| Individual Investors HR = Honor Roll participants \$150 min | | 7.0% OF GOAL \$18,600.00 -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 | |
| | | \$15,000 | |
| | | \$14,500 | |
| | | \$14,000 | |
| | | \$13,500 | |
| | | \$13,000 | |
| | | \$12,500 | |
| | | \$12,000 | |
| | | \$11,500 | |
| | | \$11,000 | |
| | | \$10,500 | |
| | | \$10,000 | |
| | | \$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!

Industry News

[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](#)

[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](#)

[Winners, Finalists Named in 2020 AHR Expo Innovation Awards](#)

Some of the most inventive and original products, systems and technologies that will be on display at the 2020 AHR Expo in Orlando, Fla., on Feb. 3–5 have been announced as winners and finalists for the annual AHR Expo Innovation Awards. Ten winners and 30 finalists were selected. The AHR Expo Product of the Year will be announced during the Expo.

[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](#)

[Using Intelligent Workstations to Boost Employee Production](#)

The University of Southern California and Arup are designing a workstation that uses artificial intelligence that will adjust to worker preferences and patterns to improve overall employee well-being. Thermal comfort is a priority, as it affects health, especially in people who are prone to type 2 diabetes, heart disease and obesity. [Read more](#)

ASHRAE Learning Opportunities

[Subscribe](#)[Past Issues](#)[Translate ▼](#)[RSS](#)

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 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.





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.



Pictured: ASHRAE golfers demonstrating how not to golf.



Copyright © 2019 ASHRAE Iowa, All rights reserved.

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

