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## Iowa Stalks

### Monthly Newsletter - September 2020

#### This Month at ASHRAE Iowa

### YEA Event - September 25

Join YEA for an evening bike ride and drinks, September 25th. We will be biking from Gray's Lake to Captain Roy's for some drinks and socializing and then head back to our starting point. Meet at Gray's Lake around 5, the bike ride will start at 5:30pm. Each leg of the ride is ~30 mins. We plan on ending the night around 7:30. If you plan on joining us for the bike ride be sure to bring your bike and any safety gear you find necessary! If you plan on only attending drinks we will be at Captain Roy's around 6pm. Check out the website for more details!!

**Next Chapter Meeting Is the October Student Night at Jethros in Ames on October 22. Look for more information coming soon!**

**The Fall Golf Outing was a success! We had a great turnout with 116 golfers and great weather! Thank you to everyone that helped put it together and for all the participants for coming out!**



### Results!!!

CHAMPIONSHIP FLIGHT				
1st Place Team	2nd Place Team	3rd Place Team		
Gerber	Conrad	Derrick		
Connor	Moench	Friedhoff		
Luttenegger	Miller	Reed		
Hennessey	McColloch	Wos		
Pin Event	Hole	Winner		
Longest Drive	6	Rick Hollendeck		
Closest to the Pin	7	Matt Peters		
Longest Putt	9	Val Hageman		
Longest Drive	11	Jake Connor		
Closest to the Pin	15	Jim Lee		
Longest Putt	18	Todd Magnani		

President's Corner

Certainly these weren't the global circumstances I expected when I started my journey through the officer ranks three years ago, but we will make the best of it! My name is Adam Puls and I am the ASHRAE Iowa Chapter President for 2020-2021. I grew up in Des Moines, went to Iowa State (Go Cyclones!), and promptly moved back to Des Moines to begin my career in engineering. I have been a consulting engineer for over nine years and have been active in the Iowa Chapter since 2014. As chapter president, I am striving to offer great learning, social, and networking opportunities to all of our members. I want to be sure to thank our previous Chapter President David Poetting for all the work he did last year and for teaching us how to host successful virtual meetings. With the community health concerns we still face, having the experience to run these meetings online will be key to maintaining active engagement throughout the chapter. Even as we hope to move back to a normal, in-person meeting structure, we will strive to make our meetings available virtually to make attendance easier for all members.

We have already hosted three Board of Governors (BOG) meetings, one virtual chapter meeting, and the golf outing! The chapter owes chapter member Corey Metzger a big thanks for presenting at that chapter meeting. His presentation on ASHRAE's Covid-19 task force's return to school guidelines was fantastic. We had over 160 people in attendance including region and society level officers. Clearly the impact of the Iowa Chapter reaches beyond central Iowa!

We hosted the annual Fall Frolic at Briarwood on August 31<sup>st</sup>. Our golf committee worked hard to ensure we were able to have this outing. All golf outing funds go directly to our Research Promotion (RP) campaign.

Our October meeting this year will be our annual

## - Board of Governors -

Matt Jesson

Nick Terhall

Laura Russo

Jacob Larson

## - Officers -

### President

Adam Puls

### President Elect

Tyson Scheidecker

### Treasurer

Michael Gustafson

### Secretary

Ted Gerber

## - Committee Chairs -

### Attendance

Dan Zaug

### Auditing

Joe Moench

### CTTC

Gary Thompson

Dan Blake

### eCommittee

Jason Kems

Chris Clausen

### Education

Kit Cartwright

Matt Gumm

### GAC

Matt Swenka

### Historian

David Poetting

### Honors & Awards

Brian Steffens

### Membership

Luke Miller

### Product Directory

Holly Elbert

### Refrigeration

Justin Barrett

### Research Promotion

engagement with the Iowa State Student Chapter even if we are unable to meet in person. We will also be awarding several scholarships to some well-deserving students.

The “November” meeting is scheduled for December 1<sup>st</sup> and will be an opportunity for all of us professional engineers to grab one of the required, sometimes elusive, ethics professional development hours. This year we are hosting ASHRAE Distinguished Lecturer (DL) and ASHRAE Society President Elect, Mick Schwedler. Mick will spend an hour discussing ethics and two additional hours presenting on more technically focused topics. This meeting is planned to take place in person, however, ASHRAE currently has banned DL travel to chapters. Mick has graciously agreed to present virtually if the travel ban remains in effect.

The BOG has been working hard to put together another fun and fulfilling ASHRAE year. I hope we can attend most meetings person but realize that may be unlikely for the foreseeable future. Even if we can't meet in person, I hope you'll take the opportunity to engage with our local chapter. If you are interested in learning more about the BOG or want to participate in the chapter leadership, please contact me. Thank you for supporting your local chapter!

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

### Student Activities

Joe Nielsen

Michael Seymour

### TEGA

Mike Wolfe

### YEA

Elli Cloyd

Terrence Schafer

### Golf Outing Committee

Jeff Hammer

Nathan Edwards

## Past Presidents

David Poetting 2019-2020

Brian Steffens 2018-2019

Luke Miller 2017-2018

Verne Stewart 1976-1977

Curtis Hammer 1975-1976

Ralph Schilling 1974-1975

Justin Barrett 2014-2015	Thomas Van Hon 1971-1972
Tim Conrad 2013-2014	Robert McBride 1970-1971
Matt Jesson 2012-2013	William Whitman 1969-1970
Kelly Crow 2011-2012	Einar Dahl 1968-1969
Holly Elbert 2010-2011	Eugene O'Neil 1967-1968
Roger Leshner 2009-2010	James Green 1966-1967
Kit Cartwright 2008-2009	Neil Hanson 1965-1966
Jerrold Sieverding 2007-2008	Bob Flanagan 1964-1965
Jason Kems 2006-2007	Lyndon Kelley 1963-1964
Chuck Heldenbrand 2005-2006	Elwood Giberson 1962-1963
Jeff Gross 2004-2005	Vern Polly 1961-1962
Ron Engelhardt 2003-2004	John Bain 1960-1961
Dan Zaugg 2002-2003	Crom Campbell 1959-1960
Susan Oltrogge 2001-2002	R.T. Howard 1958-1959
Christopher Nelson 2000-2001	W.A. Schworm 1957-1958
Donald Swanson 1999-2000	D.E. Schroeder 1956-1957
Edward Truslow 1998-1999	G.J. Kraai 1955-1956
James Hall 1997-1998	W.E. Nanes 1954-1955
Robbin Vannoy 1996-1997	J.F. Sandfort 1953-1954
Mark Conway 1995-1996	R.H. Schnell 1952-1953
Paul Melton 1994-1995	C.H. McGuinness 1951-1952
Gregory Maxwell 1993-1994	R.S. Stover 1950-1951
Jeffery Hammer 1992-1993	D.E. Wells 1949-1950
Jack Culp 1991-1992	D.C. Murphy 1948-1949
James Lee 1990-1991	C.A. Wheele 1947-1948
Clint Leonard 1989-1990	E.O. Olson 1946-1947
Charles Pedersen 1988-1989	B.E. Landes 1945-1946
Gary Reynolds 1987-1988	W.W. Stuart 1944-1945
Dennis Hogan 1986-1987	C.W. Helstrom 1943-1944
Eugene Zefron 1985-1986	P.E. Triggs 1942-1943
Donald Hagge 1984-1985	Perry LaRue 1941-1942
Robert Rist 1983-1984	R.A. Norman 1940-1941
Joseph Proctor 1982-1983	Tracy Johnson 1939-1940
Mark Allen 1981-1982	W.R. White 1938-1939
Curtis Klaassen 1980-1981	
Gerald Anderson 1979-1980	
C.W. Miller 1978-1979	
Richard South 1977-1978	

## Upcoming Meetings

there.

## Iowa Chapter Future Meetings

Month	Date	Location	Topic
August	31	Briarwood Country Club Ankeny	Fall Frolic Golf Outing
October	22	Jethros - Ames, IA	Student Night + Women in Industry Panel
December	1	Embassy Club West	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

special thanks to Justin Barrett, Tim Conrad, and Jon Scanlan with HyVee for spearheading the efforts to assist with this program.

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## 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.

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## ASHRAE COVID-19 Resource Page

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To view ASHRAE's COVID-19 resource page, click here:

<https://www.ashrae.org/technical-resources/resources>

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## 2020 Product Directory is Complete

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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](mailto:helbert@bbsae.com)

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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](mailto: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.



## 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 2020-2021			
Go to <a href="http://ashraerp.com">http://ashraerp.com</a> to donate online. Please contribute all donations to the Endowed Research via ASHRAE Foundation.			
Individual Investors HR = Honor Roll participants \$150 min		6.3% OF GOAL     \$18,750.00 -TO GO!	Company Investors HR = Honor Roll participants \$500 min
Ronald A Engelhardt	HR		Miller Mechanical Specialties, Inc.
Curtis J Klaassen	HR	\$20,000	Millennium Technology of Iowa
Luke Miller	HR	\$19,500	
Fred Miller	HR	\$19,000	
Adam Puls	HR	\$18,500	
		\$18,000	
		\$17,500	
		\$17,000	
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		\$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

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 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

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>

## 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. The cost is \$125.





Send payment to:

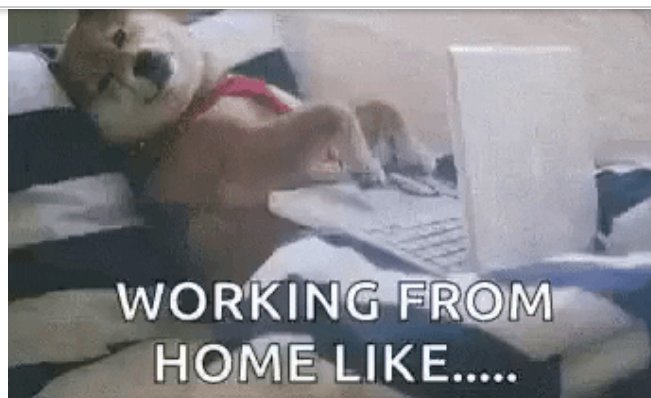
Peter Erzen

ASHRAE Newsletter Sponsorship

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Urbandale, IA 50323

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](mailto:tgerber@dptgroup.com).



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