

IOWASTALKS

A Newsletter for the Iowa Chapter of ASHRAE



TOPICS THIS MONTH

- Fall Frolic
- Presidents Corner
- Upcoming Meetings
- Research Promotion
- What's New
- CRC Updates



2017 Fall Frolic ASHRAE Golf Outing "Shotgun Start"

**When:** 1:00 PM Thursday September 14, 2017**Where:** Legacy Golf Club400 Legacy Parkway
Norwalk, IA 50211www.thelegacygolfclub.com

(See Map on Back)

515-287-7885



Costs: Golf: \$65.00 for 18 Holes and Half a Cart
Dinner: \$35.00 Dinner
Dinner & Golf: \$100.00 Total

PLUS**\$5.00 Mulligans**
(Limit 4 mulligans per player)**Send payment to:** (Please make Checks payable to **ASHRAE Iowa Chapter**)**Jeff Hammer by Thursday September 7, 2017**

Mail to: Hart-Hammer, Inc.
529 Elm Street
West Des Moines, Iowa 50265
Attn: **Jeff Hammer**
Phone - (515) 277-6305
Fax - (515) 277-3069
jhammer@HartHammer.com

SEE
BELOW TO
REGISTER
ONLINE



- Dinner will follow immediately after golf
- Soft spikes are required on this course
- **Cash Bar the entire event**
- 1st Place Individual Trophies
- 1st Place Traveling Trophy
- Pin Events / Betting Hole
- Door Prizes - Don't Forget to Sponsor
- **DRESS CODE - See reverse**

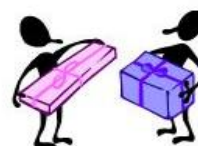
Registering On-Line:

Registration for this event is required **on-line**. You can sponsor the event, enter all of your teammates and get your mulligans all set up prior to the event. Payment is fast and secure using PayPal or we can accept checks. Please have all payments in for the event no later than the registration deadline or your spot may be given to someone else.

www.ashraeiowa.org

Sponsorships and Door Prizes

Proceeds will go to ASHRAE RESEARCH PROMOTION and the Iowa Chapter of ASHRAE.

**All sponsorships must be requested and paid for by the registration deadline.****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**also gets your name at the registration table and sponsors the main door prizes

ALL sponsorship levels will have a portion of the sponsorship go to purchasing door prizes for the event. The main door prizes will be given at the end of the event after dinner. You must be present to win.

Don't miss the opportunity to be a sponsor for the outing. See our website at www.ashraeiowa.org for more details and to register on-line. You don't have to put together a team to sponsor the event.

PRESIDENT'S CORNER:

Welcome fellow ASHRAE members to a new society year!

We hope you were able to enjoy the summer months. Now it's time to refocus on the upcoming football season. When we aren't cheering on the Cyclones to victory, our ASHRAE Iowa BOG has a busy year planned for us.

Our annual Fall Frolic Golf Outing is Thursday, September, 14th at The Legacy Golf Club in Norwalk. We hope you were able to get a team rounded up to come enjoy a beautiful day on the links. Not only is this a terrific venue to network with your peers in the industry, but you help support a good cause. Your corporate sponsorship as well as the fun events and raffles support our Research Promotion (RP) campaign. The proceeds from the golf outing help fund research and grants within our region (Region VI).

If you and your company would like to support our ASHRAE RP Campaign, please take a few moments to visit our RP section of the newsletter. We have directions provided on how you can support our chapter. We are encouraging contributions to be directed towards our Endowed Research via ASHRAE Foundation (our fund name is "ASHRAE Iowa"). This money still helps research grants in our territory, but it helps our ASHRAE Iowa Chapter further develop our endowment.

Looking ahead to October, our CTTC chairs are finalizing the last few details for our October meeting. We are planning for a dinner event accompanied by a speaker on October 18th. Please watch your emails in the next couple weeks for more details.

The ASHRAE Iowa Chapter has the honor and privilege to host the ASHRAE Region VI's Chapters Regional Conference (CRC). From May 3, 2018 through 5, 2018 we will be hosting all of Region VI as well as a few dignitary's from society at the Marriott in Downtown Des Moines. Our CRC chairs are revolutionizing the structure for this event, please encourage everyone you work with to join us! They are working on a great line up of technical programs to appeal to all of our members.

We look forward to seeing you at the Fall Frolic as well as our upcoming meetings. Thank you for supporting our local chapter!

Luke Miller ([email](#))
Iowa Chapter President 2017-2018

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www.ashraeiowa.org

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All past ASHRAE Iowa Chapter Presidents can be found on our webpage here: [Past Presidents](#)

October Meeting

Membership & RP Night

Date: Wednesday, October 18th

Location: Ramada Tropics Resort
5000 Merle Hay Rd,
Des Moines, IA 50322

Topic: Speaker will be Lee Buddrus, President and Owner of ACME Engineering. He will present on the upcoming changes in fan Energy regulations.

Time: 5:00 – 6:00 Social
6:00 – 6:20 Dinner
6:20 – 6:45 Business Update, RP & MP
6:45 – 7:30 Presentation

Sponsor: Hart-Hammer

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Future Meetings

Month	Date	Location	Topic
September	14	The Legacy Golf Club	Fall Frolic Golf Outing
October	18	Ramada Tropics	Membership & RP Night
November	15	Ames	Student Night
December	11	Holiday Inn	SMCI / CSI Joint Meeting
January	17	Baker Group Offices	
February	15	TBD	DL Presentation-Refrigeration
March	28	TBD	TBD
April	TBD	TBD	Special Event – Stay Tuned
April	19	TBD	ASHRAE Webcast – Myths About Energy Efficiency
May	TBD	TBD	Spring Fling Golf Outing

January	20-24	Chicago, IL	2018 Winter Conference
May	3-5	Des Moines, IA	Region VI CRC
June	23-27	Houston, TX	2018 Annual Conference

ASHRAE Iowa Research Investors 2017-2018

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 \$100 min		5.3% OF GOAL \$18,950.00 -TO GO!		Company Investors HR = Honor Roll participants \$150 min	
Mr Eric R Peterson	HR	\$18,000			
Mr Mark G Conway	HR	\$17,500			
Mr Jason E Kems	HR	\$17,000			
Mr Corey B Metzger	HR	\$16,500			
Mr Michael K Gustafson	HR	\$16,000			
Mr Luke Miller	HR	\$15,500			
Mr Rodney Heston	HR	\$15,000			
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Your contribution puts us closer to achieving our goal. Please send what you can today!

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 dponxs@woodmaninc.com.

Thank you for your donation!

Science, Technology, Engineering, and Math (STEM) curriculums appear to be here to stay, and the Iowa Chapter continues to take the opportunity to promote ASHRAE and the HVAC industry to students across Iowa. Our members have built a model of an HVAC system to display at STEM events in an effort to encourage interest among K-12 students. Below is a photo of Roger Leshar, Kit Cartwright, and Matt Jesson after a long afternoon of updates to the STEM "Rig". Matt Gumm eagerly took the photo to defer his moment in the spotlight. The Rig will make its next appearance at the Blank Park STEM Event September 19th.



For more information on the Rig, STEM activities in the ASHRAE Iowa Chapter, or volunteer opportunities, please contact [Kit](#), [Roger](#), or [Matt Gumm](#).

ASHRAE News**Registration Opens for 2018 ASHRAE Winter Conference, AHR Expo**

Registration is open for the 2018 ASHRAE Winter Conference, to be held in Chicago on Jan. 20–24, at the Palmer House Hilton. Registration is also open for the ASHRAE-cosponsored AHR Expo, to be held Jan. 22–24 at Chicago's McCormick Place. The ASHRAE Winter Conference features a technical program with more than 200 presentations and 300 speakers in eight conference tracks. The Conference also will include tours, social events, and keynote speaker Debbie Sterling, founder and CEO of GoldieBlox. In addition, ASHRAE Learning Institute (ALI) will offer two full-day, and five half-day seminars during the conference.

Industry News**On-Chip Dielectric Cooling Could Be Commercialized in 2018**

ARLINGTON, Va.—The Defense Advanced Research Projects Agency's (DARPA) Intrachip/Interchip Enhanced Cooling (ICECool) program has partnered with IBM and the Georgia Institute of Technology to solve the liquid cooling problem for 3-D chip stacks. The resulting approach uses an insulating dielectric refrigerant instead of water. The on-chip solution could help cool off entire data centers. Tests of the technology resulted in temperature reduction by 25°C (45°F), and chip power use reduction by 7% compared to traditional air cooling. The dielectric technology is expected to be available commercially as soon as 2018.

Water-Cooling Solar Panels Expel Building Heat Into Space

PALO ALTO, Calif.—Researchers at Stanford University have developed a solar cooling system that expels heat into space. The system consists of three components installed on a roof. The first component is plastic topped with a silver coating that reflects nearly all incoming sunlight. The second component is a snaking copper tube. Water is piped through the tube, where it sheds heat to the plastic. That heat is then radiated out by the plastic at a wavelength that is not absorbed by the atmosphere, but instead travels to outer space. The whole panel is encased in a thermally insulating plastic housing to ensure that heat comes from the circulating water and not the surrounding air. Under modeled conditions, the system lowers the building's air-conditioning electrical demand by 21% over the summer.

Newly Developed Tools Share Power From Renewable Energy Sources During Outages

SAN DIEGO—A team of engineers at the University of California, San Diego has developed a series of algorithms to allow homes to use and share power from their renewable energy sources during outages by strategically disconnecting solar inverters from the grid. The equations take into account forecasts for solar and wind power generation as well as how much energy storage is available. The algorithms combine that information with the amount of energy that the residents are projected to use as well as the amount of energy that a cluster of homes can generate. The team says the algorithms work with existing technology and can improve systems' reliability by 25% to 35%.



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ASHRAE Learning Institute 2017 Online Course Series

2 WAYS TO REGISTER

Internet: www.ashrae.org/onlinecourses

Phone: Call 1-800-527-4723 (US and Canada) or 404-636-8400 (worldwide)

One-part course (3 hours) **\$284 (\$219 ASHRAE Member)** – – – Two-part course (6 hours) **\$484 (\$359 ASHRAE Member)**

NEW! Fundamental Requirements of Standard 62.1-2016

Wednesday, September 6, 2017 – 1:00 p.m. to 4:00 p.m.

Designing High-Performance Healthcare HVAC Systems

Tuesday, September 19, 2017 – 1:00 p.m. to 4:00 p.m.

Laboratory Design: The Basics and Beyond

Tuesday, October 10, 2017 – 1:00 p.m. to 4:00 p.m.

Introduction to Ultraviolet Germicidal Irradiation (UVGI) Systems

Monday, October 16, 2017 – 1:00 p.m. to 4:00 p.m.

NEW! Complying with Standard 90.1-2016

Part I: Wednesday, November 1, 2017 – 1:00 p.m. to 4:00 p.m.

Part II: Tuesday, November 7, 2017 – 1:00 p.m. to 4:00 p.m.

NEW! Variable Refrigerant Flow System: Design & Application

Wednesday, November 29, 2017 – 1:00 p.m. to 4:00 p.m.

NEW! New ASHRAE-Classified Refrigerants to Meet Society's Changing Needs

Tuesday, December 5, 2017 – 1:00 p.m. to 4:00 p.m.

ASHRAE HVAC Design & Operation Training

2 Courses, 5 Days of Intense Instruction

Atlanta • Columbus • Denver • Dubai

HVAC Design: Level I – Essentials - Registration is \$1,264 (\$1,009 ASHRAE Member)

Gain practical skills and knowledge in designing and maintaining HVAC systems that can be put to immediate use. The training provides real-world examples of HVAC systems, including calculations of heating and cooling loads, ventilation and diffuser selection using the newly renovated ASHRAE Headquarters building as a living lab.

HVAC Design: Level II – Applications - Registration is \$854 (\$699 ASHRAE Member)

HVAC Design: Level II — Applications provides instruction on HVAC system design for experienced HVAC designers and those who complete the HVAC Design: Level I – Essentials training. The training provides information that allows practicing engineers and designers an opportunity to expand their exposure to HVAC systems design procedures for a better understanding of system options to save energy.

Visit www.ashrae.org/hvactraining to register and learn how your Chapter can earn PAOE points.

Contact Karen Murray (kmurray@ashrae.org) to discuss scheduling ASHRAE HVAC Training in your Chapter area.

CRC will soon be upon us. The CRC committee has been busy planning the event to ensure that there are a plethora of activities for education and fun. If you want to get involved in hosting or want to donate to the event, please contact Jason Kems. Updates this month include continuous improvements on the technical sessions, finalization of banquet locations, and the selection of an official logo!



Stay tuned for continued updates and check out the sponsors who have already gotten involved. All sponsors at the Yellow Ribbon and above threshold get recognition in each newsletter this society year, so don't miss out on the opportunity to reach your customers through ASHRAE.

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Contact [Luke Miller](#) if you are interested in sponsoring the 2018 ASHRAE Region VI CRC.

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Sponsoring our monthly newsletter is a great way to advertise your business and support your Iowa ASHRAE Chapter. This is the final month of sponsorship for last year's sponsors. Please consider sponsoring for another 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:

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ATTN: David Poetting
P.O. Box 3686

Adam Puls 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: apuls@shive-hattery.com.