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Iowa Stalks Monthly Newsletter - January 2018

If you have any thoughts, suggestions, or concerns about the newsletter or its format, please contact Iowa Chapter Secretary Adam Puls at apuls@shive-hattery.com.
Thank you!

This Month at ASHRAE Iowa



Baker Group's New Facility Tour

Date: Wednesday, January 17th

Where: Baker Group
1600 SE Corporate Woods Dr, Ankeny, IA 50021

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- How is BIM being taken to the next level with Advanced Manufacturing
- New fabrication facility tour to discuss innovative fabrication methods.

Schedule:

- 5:00 – 5:30 – Social/Networking
- 5:30 – 6:00 – Eat
- 6:00 – 6:30 – Introduction – Topic “How is BIM being taken to the next level with Advanced Manufacturing”
- 6:30 – 7:00 – Tour Baker Group’s Facility
- 7:00 – Gather back in the conference room for a recap and Q&A

Cost: Free for ASHRAE Iowa members; \$20 for non-members; Always free for students

[Register for the January Meeting Here](#)

President's Corner

Happy New Year!

Welcome to 2018, we are now in the home stretch of this ASHRAE Society Year. Thank you to everyone who has been able to attend an ASHRAE function this year. If you haven’t been able to attend an event yet, we have plenty of opportunities left!

Wednesday, January 17th, we will be heading over to Baker Group’s new facility. We will tour their new state of the art “Advanced Manufacturing Facility.” We had to condense the social hour to keep the

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On February 15th, we have the honor to host a Distinguished Lecturer (DL) for our Refrigeration Night. Dr. Douglas Reindl will provide a presentation on "Safe Design of VRF & Other Refrigeration Systems with Standard 15". We are trying a new venue, this will be hosted at Hotel Renovo next to Living History Farms.

Stay tuned for further details about our March meeting. On March 28th, we will host our Spring RP Night, Membership Night. Last year's president Andrew Pospisal will also share with us his history project that he has been working on this year.

We have some fun ideas planned to round off this society year. We are planning a new meeting & social event for April. We are going to host our first bowling tournament. The fire at Plaza Lanes threw a wrench into the planning process, we hope to have more information to you in the next newsletter.

The countdown to CRC 2018 is getting closer! Watch for emails from ASHRAE Iowa Chapter for more details. For those wishing to still sponsor, please feel free to contact me directly. We will be closing our sponsorship registration in February. Thank you to everyone who has committed to date.

Please promote the upcoming ASHRAE meetings and the Chapter's Regional Conference (CRC) within your firm. We are always looking for new members and love seeing familiar faces!

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Thank you,

Luke Miller

Iowa Chapter President (2017-2018)

Past Presidents

Andrew Pospisal 2016-2017
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 Tim Conrad 2013-2014
 Matt Jesson 2012-2013
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 Holly Elbert 2010-2011
 Roger Lesher 2009-2010
 Kit Cartwright 2008-2009
 Jerrod Sieverding 2007-2008
 Jason Kems 2006-2007
 Chuck Heldenbrand 2005-2006
 Jeff Gross 2004-2005
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 Dan Zaug 2002-2003
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 Gregory Maxwell 1993-1994
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 William Whitman 1969-1970
 Einar Dahl 1968-1969
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 James Green 1966-1967
 Neil Hanson 1965-1966
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 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
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 Donald Hagge 1984-1985
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 Curtis Klaassen 1980-1981
 Gerald Anderson 1979-1980
 C.W. Miller 1978-1979
 Richard South 1977-1978

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 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

Upcoming Meetings

February Meeting

Date: Thursday, February 15th

Location: Hotel Renovo, 11167 Hickman Rd, Urbandale, IA 50322

Topic: Dinner presentation by distinguished lecturer (DL) Dr. Douglas Reindl on "Safe Design of VRF and Other Refrigeration Systems with Standard 15". A professional development hour (PDH) will be available from this presentation.

More details to come!

Iowa Chapter Future Meetings

Month	Date	Location	Topic
September	29	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	Advanced Prefabrication Techniques & Tour

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February	15	TBD	MP, RP, & History Project
March	28		

April	19	TBD	ASHRAE Webcast – Myths About Energy Efficiency
May	TBD	TBD	Spring Fling Golf Outing

Society & Region Events

Month	Date	Location	Topic
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

Last Month's Meeting in Review

CSI and SMCI Joint Meeting

ASHRAE Iowa held up tradition by joining the local CSI chapter and SMCI at the downtown Holiday Inn for a joint meeting in December. Per usual past presidents were recognized and photographed.

This year David Ruffcorn, AIA, Senior Construction/Design Engineer with the State Fire Marshal's Office, Building Code Bureau, gave a presentation outlining Building Envelope Performance Specifications. His presentation touched on the State Energy Code basics and how they affect the design of the building envelope, the basics of building science and the affects of air sealing on a building, common construction mistakes and their impact on a building, as well as commissioning and how specifications can clarify the steps required to ensure energy performance and quality of construction.

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Current Iowa Chapter President Luke Miller thanking last year's President Andrew Pospisil for his service.



Current Iowa Chapter President and past presidents in attendance at the December meeting.
From left to right: Jason Kems, Jim Hall, Tim Conrad, Justin Barrett, Kit Cartwright, Luke

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Miller, Matt Jesson, Andrew Pospisal, Holly Elbert, and Matt Gumm.

Research Promotion

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		Company Investors	
HR = Honor Roll participants \$100 min		HR = Honor Roll participants \$150 min	
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Mr Daniel L. Ponss	HR		
Mr Justin J. Barrett, PE	HR		
Mr David Poetting	HR		
Mr James Edward Hall	HR		
Mr Adam Puls	HR		
Mr Daniel V. Zaug	HR		
Mr. Paul K. Melton	HR		
Mr. Fred Miller	HR		
Mr. Tyson Scheidecker	HR		
Mr. Andrew L. Pospisal	HR		
Mr. Christopher W. Nelson	HR		
Mr. James A. Lee	HR		
Mr. Matthew S. Jesson	HR		
Mr. Peter J. Ernzen	HR		
Mr. Richard A. Kapustka	HR		

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](http://ashraerp.com). 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.

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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!

Technology Awards

2018 Society Level – First Place

2017 Region VI – First Place

2017 ASHRAE Iowa Chapter – First Place

Mark Hersch was our 2017 ASHRAE Iowa Technology Awards first place winner in the Commercial Buildings – Existing Category for his submission of the Market 1 Project. His submission then moved on to the Region VI level and the Society level where it also was a first-place winner in both competitions.

The Market 1 project is one of only seven Society Level first place winners for 2018 and competed with submissions from across the world. As a first place Society Level winner, design team members Holly Stevens and Mark Hersch and Building Owner, Justin Doyle, have been invited to the 2018 ASHRAE Winter Conference in Chicago to receive their award. The Market 1 project will also be featured in the March 2018 issue of the ASHRAE Journal.

Below are some highlights of the Market 1 project:

- Renovation of an existing historical factory and warehouse building into a commercial office building.
- Exterior envelope upgraded where allowed while maintaining the historical appearance of the building.
- Addition of a hybrid geothermal and air to air heat pump HVAC system.
- Addition of a photovoltaic system that has a total capacity of more than 200 KW.
- 95% of the interior lighting is LED. All interior and exterior lighting is on a lighting control system.
- Energy star score of 94.
- Site EUI that is over 60% lower than the baseline building (34.6 KBtu/SF/Year).

You can read Marks submission on the [Technology Awards](#) page on the ASHRAE Iowa website.

Congratulations to Mark and the entire Market 1 team!

2018 ASHRAE Iowa Chapter Awards

We are currently accepting submissions for the 2018 ASHRAE Iowa Chapter Technology Awards. This year's Chapter submission deadline is **March 1st, 2018**. More information about the Technology Awards program and submission forms can be found on the [Technology Awards](#) page at the ASHRAE Iowa Website. Projects should be submitted electronically to Peter Ernzen or Matt Swenka. Contact information can also be found on the ASHRAE Iowa Technology Awards page.

NEW FOR THIS YEAR

For this year we will be giving out **\$100 prizes** for the first-place winner in each of the submission categories. There are six categories and six possible prize winners. The categories are:

- Commercial Buildings
- Institutional Buildings
- Health Care Facilities
- Industrial Facilities or Processes
- Public Assembly
- Residential

All projects must be complete and a minimum of one year of energy data must be submitted. Submissions are first reviewed at the Chapter level. Winners from this level are then submitted to the Regional Level. Regional winners may then be submitted to the Society level. Society level winners, like the Market 1 project, are published in the ASHRAE Journal and honored at the annual Winter Conference. There are two submission forms, a short form and a long form. The short form is acceptable for chapter and regional level submissions. In order for a project to be able to compete at the Society level, a long form submission must be completed.

The Technology Awards program is a great way for Members to gain recognition for

submitting any innovative or energy efficient projects.

What's new in the Iowa Chapter?

For the second consecutive year, ASHRAE Iowa has been selected by Region VI to receive a grant through ASHRAE's Chapter Industry Fund program. Last year the money was spent on updating the materials for the STEM fairs we attend across the state. This year we are looking to use the funds to upgrade the profile of ASHRAE Iowa at public and private events with a branded pop up tent and matching flags. Be on the look out for these at ASHRAE Iowa events in the near future.

ASHRAE Society News

[Registration for 2018 ASHRAE Winter Conference, AHR Expo](#)

Registration is still 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.



[Subscribe](#)[Past Issues](#)[Register for Winter Conference Here](#)

Join your fellow Region VI members at the Region V and VI Winter Conference Dinner at Maggiano's on Sunday, January 21st at 6:30pm. The cost is \$60/person (cash bar) and includes a choice of appetizer, salad, pasta, entree, and dessert. Reservations are limited, contact John Rieke (john.rieke@benham.com) to reserve your spot.

New Building EQ Portal

ASHRAE's new Building Energy Quotient (Building EQ) is the most comprehensive assessment platform providing actionable recommendations for today's commercial and institutional buildings. The "In Operation" rating program provides a quick energy analysis that compares your building to similar buildings within the same climate, helps to identify means to improve your building's energy performance, and provides data on Indoor Environmental Quality.

Features include:

- Online data entry and submission process
- Metered energy data exchange from ENERGY STAR™ Portfolio Manager
- Median EUI calculation aligned with ENERGY STAR™
- Building EQ Performance Score visible to all users on the main input screen at all times
- Redesigned label shows Building EQ Performance Score on a barometer/scale. No more letter grades!
- Standard reports can be automatically generated by credentialed users
- Improved submission approval process

Help and validation information is built into the system

Industry News

[International Energy Agency, UN Environment Call Energy Efficiency in Buildings 'Urgent Need'](#)

PARIS—Near-zero energy, zero-emissions buildings must become the global construction standard within the next decade for the world to be able to adequately fight climate change, according to a [report](#) this week by the International Energy Agency and UN Environment. It states the floor area of buildings worldwide was 235 billion m² (2.5 trillion ft²) in 2016. By 2060, 230 billion m² (2.475 trillion ft²) will be added. The organizations add that making these buildings energy efficient to reduce energy costs and carbon emissions is an "urgent need." "The building sector is seeing some progress in cutting its emissions, but it is too little, too slowly," said UN Environment executive director Erik Solheim. The report says more than half of buildings that will exist in 40 years will be constructed during the next 20 years, and two-thirds of those will be in countries that currently do not have adequate building energy codes in place.

[University Renovates Decommissioned Heating Facility as Cogeneration Plant](#)

MINNEAPOLIS—A deteriorated, decommissioned 104-year-old heating plant on the University of Minnesota's Twin Cities campus in the Dinkytown neighborhood has been renovated as a combined heat and power plant that is 83% efficient. The university refurbished the former Old Main Heating Plant, replacing old boilers with a new 22.8 MW combustion turbine and heat recovery system that will generate electric power and steam for the Minneapolis campus. The University sees the natural-gas-fueled plant as a key investment in its climate action plan to reduce campus emissions in half by the year 2020. The Main Energy Plant will save the University an estimated net \$2 million annually in utility operating costs.

[NHL Ice Arena Achieves LEED Silver Certification](#)

EDMONTON, Alberta—Rogers Place, home of the NHL's Edmonton Oilers, has received LEED Silver certification. It is reportedly the first NHL facility to do so. Rogers Place opened in fall 2017. The facility used sustainable building materials during its construction, according to DIALOG, which acted as sustainability consultant on the project. DIALOG adds that Rogers Place "continues to reduce their environmental impact by committing to green operations including cleaning, education, and food waste handling." The City of Edmonton has a sustainable building policy that mandates

[Google's 'Landscape' Could Herald Lower and Longer Shape of Tomorrow's Built Environment](#)

LONDON—When complete, Google's new London headquarters will be longer than the Shard—the tallest skyscraper in the UK—is tall. The Shard is 1,016 ft (310 m) tall. Google's London headquarters is 1,082 ft (330 m) long. The building's architects, Bjarke Ingels Group and Heatherwick Studios, call it a "landscape." While Google's building is one of the first landscapers in the world, it likely won't be the last. Trends such as movement of corporate buildings away from dense city centers; developments in elevator technology; limiting building heights to accommodate drones; and the need to protect buildings from severe weather conditions will result in a marked flattening of the built environment.

ASHRAE Learning Institute

Check out ASHRAE eLearning for more than 90 courses available on your computer. These courses have been created by HVAC&R professionals using ASHRAE's extensive pool of knowledge and most courses are recognized PDHs by AIA and GBCI (confirm with licensing body for specifics). Course options include:

- Introduction to Refrigerants
- Refrigerant Selection
- Refrigerant Management
- Ethics for the Built Environment Professional Engineer
- Standard 62.1-2013: Natural Ventilation Procedure
- Using Standard 90.1-2010 to Meet LEED Requirements
- Building Information Modeling
- Humidity Control Design: Basic Principles, Loads and Equipment
- Standard 189.1 for High-Performance Green Buildings - Energy Efficiency
- School of Hard Knocks: Controlling Moisture & Humidity in Buildings

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ASHRAE Learning Institute offers four intensive HVAC Design and Operation training sessions that fill the need to improve overall building performance. From HVAC Design

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Chapter Regional Conference

As CRC draws near, the Iowa Chapter is busy putting the final planning pieces into place to make this a great event. A schedule for the event will be available soon, but get May 3-5 blocked out on your calendar so you don't miss it. In addition to multiple PDH opportunities, there will be special events including a tour of the new Kum & Go Headquarters downtown. We look forward to hosting you and the rest of the region at this year's conference.



There's still time if you want like to get involved please contact [Jason Kems](#).

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