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Iowa Stalks Monthly Newsletter - February 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

Refrigeration Meeting

Date: Thursday, February 15th

Where: Hotel Renovo
11167 Hickman Rd. Urbandale, IA 50322

Presentations:

- Distinguished Lecturer (DL) Dr. Douglas Reindl, Ph. D., P.E. will present on Safe Design of Refrigerant Systems. One Professional Development Hour (PDH) is available for this presentation.

Schedule:

- 5:00 – 6:00 – Social/Networking
- 6:00 – 6:30 – Eat

- 6:30 – 6:45 – Announcements and Introduction
- 6:45 – 7:30 – Safe Design of Refrigerant Systems Presentation

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



Dr. Douglas Reindl professor in the Departments of Engineering Professional Development and Mechanical Engineering at the University of Wisconsin-Madison (UW) and founding director of the Industrial Refrigeration Consortium (IRC) at UW. He is a registered professional engineer in the State of Wisconsin and presently serves on the Board of Directors of the International Institute of Ammonia Refrigeration. Dr. Reindl is a past chair and member of ASHRAE's Standard 15 committee – Safety Standard for Refrigeration Systems, a past recipient of ASHRAE's Distinguished Service Award, and the first recipient of ASHRAE's George C. Briley Award for the best refrigeration article in the ASHRAE Journal.

President's Corner

Greetings fellow ASHRAE members. It looks like six more weeks of winter this year according to Punxsutawney Phil, but that is not stopping your BOG members from thinking warm thoughts and planning for spring!

This upcoming Thursday, we are privileged to have a Distinguished Lecturer join us for our chapter meeting. Dr. Douglas Reindl will be

ASHRAE Iowa Chapter

www.ashraeiowa.org

- Board of Governors -

Brandon Bratz

Chris Clausen

Ted Gerber

Joe Nielsen

providing us a presentation on “Safe Design of VRF and Other Refrigeration Systems with Standard 15.” I hope you were able to get signed up for this event, 1 PDH hour will be available.

With our minds set on spring, we are planning a new event this April. We will be hosting our first ASHRAE Bowling Tournament. Please join us at Val Lanes on April 18th. We will have a short chapter meeting then test out our bowling skills.

A couple weeks after our bowling tournament, we will be hosting our Chapter’s Regional Conference at the Marriott Downtown. We hope to see everyone there. This year’s CRC is slated to have a lot of PDH opportunities, we hope you are able to take advantage of this tremendous resource! Stay tuned for registration information.

To round off this spring the Golf Committee is finalizing this year’s Spring Fling. This will be an excellent way to relax and unwind with your fellow ASHRAE members. It has been a busy year for our chapter, we are grateful for your participation and support this year. What better way to reminisce about CRC then on the golf course with your fellow friends in the industry?

Some more fantastic news, the new product directories will be arriving to your place of business in the next week or two! They are currently at the printing company. To help expedite the delivery process we are trying something new this year, your product directory will be mailed.

Also, a PDF copy is available to download. Please visit our chapter website www.ashraeiowa.org. Using the selection tabs at the top of the webpage go to:

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Honors & Awards

Matt Gumm

Membership

Tim Conrad

Mitch McColloch

Product Directory

Holly Elbert

Refrigeration

Justin Barrett

Research Promotion

Michael Gustafson

Dan Ponxs

Student Activities

committees>membership>membership and
product directories, select the 2017-2018
Directory.

Thank you,

Luke Miller

Emmett Konrad

Mike Wolfe

TEGA

Peter Erzen

Matt Swenka

YEA

Heidi Turner

Iowa Chapter President (2017-2018)

Past Presidents

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 Leshner 2009-2010

Kit Cartwright 2008-2009

Jerrold 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 Truslow 1998-1999

James Hall 1997-1998

Robbin Vannoy 1996-1997

Mark Conway 1995-1996

Paul Melton 1994-1995

Gregory Maxwell 1993-1994

Verne Stewart 1976-1977

Curtis Hammer 1975-1976

Ralph Schilling 1974-1975

Donald Bonicamp 1973-1974

Kent Mosher 1972-1973

Thomas Van Hon 1971-1972

Robert McBride 1970-1971

William Whitman 1969-1970

Einar Dahl 1968-1969

Eugene O'Neil 1967-1968

James Green 1966-1967

Neil Hanson 1965-1966

Bob Flanagan 1964-1965

Lyndon Kelley 1963-1964

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

D.E. Schroeder 1956-1957

G.J. Kraai 1955-1956

W.E. Nanes 1954-1955

J.F. Sandfort 1953-1954

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
 Eugene 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

R.H. Schnell 1952-1953
 C.H. McGuiness 1951-1952
 R.S. Stover 1950-1951
 D.E. Wells 1949-1950
 D.C. Murphy 1948-1949
 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
February	15	Hotel Renovo	Refrigeration DL Presentation
March	28	Noah's Ark	MP, RP, & History Project
April	18	Val Lanes	Chapter Meeting and Bowling Tournament
April	19	At Your Desk!	ASHRAE Webcast - Myths About Energy Efficiency
May	14	Hyperion Field Club	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

The Baker Group Tour

The Baker Group graciously hosted the ASHRAE Iowa Chapter at their new facility in Ankeny. After a presentation on 3D scanning, they offered up tours of their office and Advanced Manufacturing Facility. Coupled with their 3D scanning and modeling technology, their new facility has allowed increased ability to prefabricate large and complex installations in-house before shipping to the job site for final field installation. The Chapter was extremely fortunate and grateful to get such behind the scenes access to this beautiful facility.



Chapter President Luke Miller getting chapter business covered before the presentation on 3D scanning.



Small group tour of Advanced Manufacturing Facility.



Prefabricated restroom group being constructed in the Advanced Manufacturing Facility.

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		35.1% OF GOAL \$12,975.00 -TO GO!		HR = Honor Roll participants \$150 min	
Mr Eric R. Peterson	HR	\$20,000		AJ Allen Mechanical Contractors Inc.	HR
Mr Mark G. Conway	HR	\$19,500		Woodman Controls	HR
Mr Jason E. Kems	HR	\$19,000		ASHRAE Iowa Chapter	HR
Mr Corey B. Metzger	HR	\$18,500		Vest-Feld-Hazer & Associates	HR
Mr Michael K. Gustafson	HR	\$18,000			
Mr Luke Miller	HR	\$17,500			
Mr Rodney Heston	HR	\$17,000			
Mr Brian A. Steffens	HR	\$16,500			
Mr Daniel L. Ponss	HR	\$16,000			
Mr Justin J. Barrett, PE	HR	\$15,500			
Mr David Poetting	HR	\$15,000			
Mr James Edward Hall	HR	\$14,500			
Mr Adam Puls	HR	\$14,000			
Mr Daniel V. Zaug	HR	\$13,500			
Mr. Paul K. Melton	HR	\$13,000			
Mr. Fred Miller	HR	\$12,500			
Mr. Tyson Scheidecker	HR	\$12,000			
Mr. Andrew L. Pospisil	HR	\$11,500			
Mr. Christopher W. Nelson	HR	\$11,000			
Mr. James A. Lee	HR	\$10,500			
Mr. Matthew S. Jesson	HR	\$10,000			
Mr. Peter J. Erzen	HR	\$9,500			
Mr. Richard A. Kapustka	HR	\$9,000			
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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!

Technology Awards

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 their projects. The program also builds recognition for the member's employers and the owners of the buildings. The Board of Governors encourages all members to consider submitting any innovative or energy efficient projects.

What's new in the Iowa Chapter?

This year, your chapter has been working diligently on putting together CRC in May, but that doesn't mean the BOG has shirked its responsibility to provide you with great local learning and social opportunities throughout the year. One new opportunity to note is this year's bowling tournament to take place in April. This event is shaping up to be a lot of fun. There will be awards for the best bowlers and a concurrent YEA event to continue to encourage involvement in society. Keep an eye out for more information.

Michael Seymour, Iowa State University's Student Chapter President, has won a regional Reuben Trane Scholarship with his application to the ASHRAE Society level awards. This award will be handed out at a future Iowa Chapter meeting. If you get a chance to meet Michael, please congratulate him on this honor.

USGBC-Iowa's annual meeting is taking place on March 1st. This year the meeting is at the Iowa State Research Park Hub Office in Ames, starting at 3:30 with a tour of the facility and social hour to follow. GBCI credits for the tour are pending. Visit Facebook event links are below for use in the ASHRAE newsletters and social media accounts.

[Click Here for More Information and to Sign Up](#)

ASHRAE Society News

Redesigned Website

ASHRAE has a newly redesigned society website that focuses on simplifying content and streamlining navigation. The new ashrae.org will be available Wednesday, February 14th! Key features include:

- Device-responsive layout will allow users to view the ashrae.org website easily on smartphones, tablets and desktop / laptop computers.

- Mega-menus offer more information at a quick glance.
- Enhanced Amazon Elastic search engine provides thousands of relevant results from ashrae.org, ASHRAE's Bookstore, ASHRAE's Technology Portal and more.
- Opportunity for locally-targeted content based on a website visitor's location. This feature will continue to evolve over time as content is made available (so some may see it sooner than others).
- Live social feed of ASHRAE members and chapters from around the world on the new homepage. #MyASHRAE

[Visit the new and Improved ASHRAE.org](#)

Industry News

[50-Year-Old Energy Storage Idea Finally Becomes Reality](#)

CAMBRIDGE, Mass.—A type of battery first conceptualized in 1968 could become one of the most prominent energy storage technologies, according to researchers at MIT. The battery, based on electrodes made of sodium and nickel chloride, and augmented with a new type of metal mesh membrane, could be used for grid-scale installations to make intermittent power sources such as wind and solar capable of delivering reliable baseload electricity. The concept never caught on because it requires a thin membrane to separate its molten components. However, a paper-thin membrane that also is sturdy proved too difficult to make. The MIT team was able to use a metal mesh to overcome that hurdle. The findings are published in the journal *Nature Energy*.

[Google Plans Large, Ultraefficient Campus](#)

SUNNYVALE, Calif.—Google plans to build a new energy-efficient campus in California. The technology conglomerate has chosen Bjarke Ingels Group (BIG) to design its new campus near Santa Clara. The campus will be centered around two similar buildings rising to five stories and having a total floor space of 505,078 ft² and 537,000 ft² (46 923 m² and 49 889 m²), respectively. The buildings will be topped by partially green roofs and will feature gently sloping terraces that offer access to each floor. The office interiors will make use of natural daylighting, solar power and graywater recycling. The campus—called "Caribbean"—is designed to achieve LEED gold certification.

[Human Skin Flakes Linked to Odor From AC Units](#)

HONG KONG—Flakes of human skin are a source of food for the bacteria found in cooling units, which can then produce odors even in a dust-free air-conditioning

system, recent research at Hong Kong Baptist University has found. The research is the first to show that the accumulation and bacterial degradation of skin squames (cells that peel off from the skin surface) in air-cooling units is correlated to the complaints of a urine-like smell in air-conditioned areas. The bacteria produce keratinase, enzymes that degrade the main structural protein in skin cells, resulting in the production of volatile fatty acids and ammonia. The study is published in the journal *Indoor Air*.

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

[Click Here for More Details](#)

ASHRAE Learning Institute is offering HVAC Design Level I and Level II courses in St. Louis, MO in March. Level I is scheduled for March 19-20, and Level II is scheduled for March 21-22. There are discounted rates for ASHRAE Members and company discounts available. Learn the basics of HVAC design in the Level I course, expand your knowledge in Level II, or do both to fast track your experience level.

[Click Here for More Details](#)

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](#).

CRC Sponsors

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

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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.



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