

Iowa Stalks

Monthly Newsletter - Febraury 2019

This Month at ASHRAE Iowa

2019 Chapter ByLaws Update

Amendments to the chapter by-laws have been proposed by the Board of Governors. [Please see this link for the full Bylaws update.](#) The update contains three amendments plus some housekeeping such as renumbering paragraphs. The amendments are:

1. The President-Elect is responsible for reviewing the Bylaws annually.
2. Officially adding the Young Engineers in ASHRAE committee.
3. Renaming of Grassroots Government Advocacy committee to the Government Affairs Committee per the suggestion of Society.

Bylaw updates must be voted on by chapter members. Once you have reviewed the changes, [please vote using this link.](#) Voting will close February 15th.

March Super-Tech Meeting

While registration is closed for February's meeting (reminder that the tour starts at 5:30 sharp at the [Hy-Vee Commissary Facility](#)), it's not too early to start planning for March! Be on the looking for the sign-up e-mail, there's a great lineup of FREE beer PDHs (for ASHRAE members.)

Date: Wednesday March 20th

Where: Marriott Downtown Des Moines

Speaker: Tom Lawrence, Ph.D., P.E.

ASHRAE DL

University of Georgia

Timeline: 1:00 – 1:30: Registration

1:30 – 2:30: Session #1 - ASHRAE Standard 189.1 and the International Green Construction Code

2:30 – 2:45: Break

2:45 – 3:45: Session #2 - CO2 Monitoring for Outdoor Airflow and Demand-Controlled Ventilation

3:45 – 4:00: Break

4:00 – 5:00: Session #3 - Thermal Comfort as Related to Energy Consumption: What is the Balance

5:00 – 6:00: Social Hour

Cost: Free for members

\$20 per session for non-members

President's Corner

Hello fellow ASHRAE members!

We have some awesome events coming up and I want to highlight a few of those here. Keep reading through this entire newsletter for even more events, and additional details. (Even you Zaug, keep reading!)

If you missed our January meeting, you missed a

ASHRAE Iowa Chapter

www.ashraeiowa.org

- Board of Governors -

Tjaden Ahrens

Matt Jesson

Matt Peters

Sara Schmerbach

great event. I want to extend a big thank you to your speaker, Ghassan F. Elkhatib, and to our drink sponsor, Mechanical Sales.

This week, on **February 12**, we will be hosting our annual Refrigeration night. As I am writing this, the outside temperature is currently -1°F, what an appropriate time to celebrate refrigeration! We will get the opportunity to tour Hy-Vee's new commissary facility in Ankeny and then have dinner at Jethro's BBQ 'n LakeHouse. It should be a fascinating tour.

Mark your calendars for **March 20**. We will be hosting a Super Tech Day with an opportunity to earn 3 PDHs and we are making it FREE to ASHRAE Iowa members. I am excited to hear the topics presented by ASHRAE DL, Thomas Lawance, PhD, PE. This will be our third ASHRAE DL this year, so that's quite the honor for our chapter.

One last reminder, this year's ASHRAE Region VI Chapters Regional Conference (CRC) is in Milwaukee, WI and will be held **May 2-4**.

Additional details can be found here:

<https://crcmke.org/>.

Looking forward to seeing you on Tuesday,

Brian Steffens (bsteffens@shive-hattery.com)

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Verne Stewart 1976-1977

Curtis Hammer 1975-1976

Ralph Schilling 1974-1975

Donald Bonicamp 1973-1974

Kent Mosher 1972-1973

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Holly Elbert 2010-2011
Roger Leshner 2009-2010
Kit Cartwright 2008-2009
Jerrod 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
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

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Robert McBride 1970-1971
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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
R.H. Schnell 1952-1953
C.H. McGuinness 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

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

Perry LaRue 1941-1942
R.A. Norman 1940-1941
Tracy Johnson 1939-1940
W.R. White 1938-1939

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
September	12	The Legacy Golf Club	Fall Frolic Golf Outing
October	17	Ramada Tropics	Membership & RP Night
November	14	Ames	Student Night & Tour
December	12	Holiday Inn	SMCI / CSI Joint Meeting
January	23	Hotel Renevo	UFAD Systems
February	12	Hy-Vee Commissary Tour	Refrigeration Meeting
March	20	Des Moines Marriott Downtown	MP, RP, & History Project
April	18*	Val Lanes	Chapter Meeting and Bowling Tournament
April	19*	At Your Desk!	ASHRAE Webcast
May	14*	TBD	Spring Fling Golf Outing

Society & Region Events

Month	Date	Location	Topic
January	12-16	Atlanta, GA	2019 Winter Conference
May	2-4	Milwaukee, WI	Region VI CRC
June	22-26	Kansas City, MO	2019 Annual Conference

*Tentative dates

What's New in the Iowa Chapter?

Engineer's Week

Thanks go out to Matt Swenka with the Government Affairs Committee for working with the State to issue a proclamation for Engineer's Week (February 17-23). Governor Kim Reynolds signed the proclamation using language submitted by ASHRAE Iowa.

State of Iowa
Executive Department

IN THE NAME AND BY THE AUTHORITY OF THE STATE OF IOWA

PROCLAMATION

WHEREAS, engineers use their scientific skills and specialized knowledge and skills in creative and innovative ways to fulfill society's needs; and

WHEREAS, engineers help solve major technological challenges of our time - from designing efficient building systems to rebuilding towns devastated by natural disasters; and

WHEREAS, engineering has been called the invisible or stealth profession because everything around us and things we use every day have been engineered in some way, yet we may not see the engineers behind the scenes or know much about engineering; and

WHEREAS, founded in 1951, National Engineers Week (EWeek) is dedicated to ensuring a diverse and well-educated future engineering workforce by increasing understanding of, and interest in, engineering and technology careers; and

WHEREAS, EWeek is a formal coalition of more than 70 engineering, education and cultural societies, with more than 50 corporations and government agencies dedicated to raising public awareness of engineers' positive contributions to quality of life; and

WHEREAS, EWeek promotes recognition among parents, teachers and students of the importance of a technical education and a high level of math, science and technology literacy, and motivates youth to pursue engineering careers in order to provide a diverse and vigorous engineering workforce;

NOW, THEREFORE, I, Kim Reynolds, Governor of the State of Iowa, do hereby proclaim the week of February 17-23, 2019 as

ENGINEERS WEEK

in Iowa.



IN TESTIMONY WHEREOF, I HAVE HERETO SUBSCRIBED MY NAME AND CAUSED THE GREAT SEAL OF THE STATE OF IOWA TO BE AFFIXED. DONE AT DES MOINES THIS 5th DAY OF FEBRUARY IN THE YEAR OF OUR LORD TWO THOUSAND NINETEEN.

Kim Reynolds
KIM REYNOLDS
GOVERNOR OF IOWA

ATTEST:
Paul Pate
PAUL PATE
SECRETARY OF STATE

IMPACT Conference



The U.S. Green Building Council's IMPACT conference is the Midwest's green building event of the year, attracting hundreds of green building professionals from across the region, and serving as a forum for builders, developers, sustainability leaders and change makers to unite and demonstrate the many innovative ways the Midwest is raising the bar when it comes to green building.

The 2019 IMPACT conference will be held April 8-9 in Saint Paul, Minnesota, and will be co-located with the Green Schools Conference & Expo (GSCE), the largest annual event for green school advocates in the U.S. The event will feature two days of conference programming and tours, kicking off with a welcome reception at the Science Museum of Minnesota. The conference will also feature a keynote from Zaria Forman, a world-

renowned artist known for her pastel depictions of climate change.

The IMPACT conference unites industry leaders, experts and professionals to inspire, connect and advance sustainable building across the Midwest. Industry professionals attending IMPACT have a unique opportunity to enhance their understanding of the K-12 schools sector by also attending GSCE. GSCE offers an opportunity for attendees to learn creative strategies to support healthy, sustainable schools. The co-location of the two conferences will bring together experts from diverse industries within the green building world for a unique opportunity to collaborate and share successes.

Register today! Visit impact.usgbc.org for more information.

IMPACT is a USGBC regional event hosted by our local communities: Central Plains, **Iowa**, Minnesota, Missouri Gateway, Nebraska Flatwater, North Dakota and Wisconsin.

Research Promotion

Please consider donating to RP if you haven't already. With the new year, we have a new goal. Any donation is helpful and appreciated. If you have any specific questions about how your donated money will be used, [please contact Michael Gustafson](#).

ASHRAE Iowa Research Investors 2018-2019			
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		35.5% OF GOAL \$12,890.55 -TO GO!	Company Investors HR = Honor Roll participants \$250 min
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Updated: 05-02-19

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 Michael Gustafson](#).

Thank you for your donation!

ASHRAE Society News

What's new?

Updating Equipment Load Factors for the *ASHRAE Handbook*

Plug loads are one of the main contributors to the building's overall energy consumption in most office buildings, so they need to be considered in load calculations, according to an article in [Science and Technology for the Built Environment](#). Weekday and weekend power consumption profiles are developed for different office equipment in the article, "[Equipment Power Consumption And Load Factor Profiles For Buildings' Energy Simulation \(ASHRAE 1742-RP\)](#)," written by Omer Sarfraz, Student Member ASHRAE, and Christian Bach, Ph.D., Associate Member/Student Branch Advisor, an assistant professor at Oklahoma State University. [Read more](#).

Residential Energy Efficiency

Newly Revised Standard 90.2 Includes New Performance Specifications, More

The newest version of ANSI/ASHRAE/IES Standard 90.2-2018, *Energy-Efficient Design of Low-Rise Residential Buildings*, seeks to deliver residential building energy performance that is at least 50% more efficient than the energy efficiency defined by the 2006 IECC. [Read more](#).

[Acoustical Testing Requirements Updated in Chilled Beam Standard](#)

[More Standards Actions](#)

[Five New Errata Released for Standards 90.1, 189.1](#)

[New Interpretation of Standard 62.1 Addresses Exhaust Requirements](#)

[Public Reviews Open for Commercial Aircraft Standard, Guideline + More](#)

[Comment on Newly Approved Standards Projects](#)

[Join Committees on Fan-Coil Units, Lab Fume Hoods + More](#)

[Submit Nominations for Standards Achievement Award by Dec. 31](#)

Industry News

[DOE Funding R&D Projects for Building Technologies](#)

WASHINGTON, D.C.—The U.S. Department of Energy (DOE) will provide up to \$42 million in funding to support early-stage research and development (R&D) projects for commercial building and residential technologies for energy efficiency. A total of 46 research teams were selected by the Office of Energy Efficiency and Renewable Energy's (EERE) Building Technologies Office. EERE separated the projects into three focus areas: "Buildings Energy Efficiency Frontiers & Innovation Technologies;" "Solid State Lighting;" and "Building America."

Microgrids for California's Fire Stations

FREMONT, Calif.—Gridscape Solutions, a renewable energy project developer, is [working with California fire stations](#) to build resilient microgrids. The microgrids allow fire stations to run independently of the grid, and the company believes it's a model that can be replicated across the state. Said Vipul Gore, the company's president and CEO, "All the loads in this fire station are critical loads. With our system, there's full power at the fire station, even if there is no power to anyone else, and then it will run on the solar and the battery system." Microgrid pilots are installed at three fire

stations in Fremont, in the San Francisco Bay area. "[Microgrids for Energy Reliability](#)" by Dave Robinson in the November 2013 *ASHRAE Journal* discussed the efficacy of, and design considerations for, microgrids, particularly in emergency applications.

Mixed Feelings on Efficiency From Data Center Managers

SAN JOSE, Calif.—A [recent report](#) found that energy efficiency ranks fourth in terms of importance of considerations for data centers. The survey found that 59% of respondents consider power efficiency as "extremely important" or "important" to their data center designs. However, 58% of respondents are still not measuring Power Usage Effectiveness (PUE). The issue was discussed in this [ASHRAE Journal article from December 2007](#).

Casino Improves IAQ Efficiency With New AHUs

SLOAN, Iowa—The WinnaVegas Casino is installing a [new HVAC system with an air-purifying system](#). It will replace an HVAC system originally installed in 1992. According to Casino Air, which installed the new system, the old air handlers at WinnaVegas had "basically been destroyed by years and years of tar and nicotine abuse." An *ASHRAE Journal* article from June 2013 discusses [health and economic impacts of smoking in casinos](#).

ASHRAE Learning Opportunities

2019 Building Performance Analysis Conference

www.ashrae.org/BuildPerform2019

September 25-27 · Denver, Colorado

Unleash your innovative design and modeling skills, collaborate with project team members and showcase your building design to conference attendees!

[Sign up NOW for the 5th Annual LowDown Showdown that will take place at the 2019](#)

[ASHRAE Building Performance Conference September 25 – 27th in Denver, Colorado.](#)

Here's your chance to join an integrated team that will compete for fun and prizes in the annual LowDown Showdown modeling competition. This year's 2019 Building Analysis Conference (BPAC) will center on the integration of building science into the design process. Innovation in modeling and analysis will be a driving force in defining high performance buildings of the future!

In that spirit, the 2019 LowDown Showdown model building will not only challenge participants to achieve "near net zero" but also to include design and modeling elements to create a resilient building capable of withstanding natural disasters and providing prolonged emergency operations.

And the **2019 model building** is a:

90,000 sf town hall (new construction) located in San Diego, California

The facility will be a multi-functional building, housing many of the cities vital public services including being an Emergency Operations Center in times of disaster or crisis.

Bring your creative ideas and analytic thinking to the table as you design a new town hall for San Diego, California.

Overview

The goal of the 2019 LDSd competition is to engage participants in a collaborative and fun learning experience that explores new advances in building science, modeling and technology. Teams are comprised of building analysts, designers, architects, engineers and other participants. Teams will be responsible for creating the architectural design and a performance analysis model based on model building data. The teams may use any software or a combination of software to complete their projects.

Each team will create and submit a poster of their building design, complete the performance analysis model and results spreadsheet and write a one-page narrative on project workflow. Teams will present their projects at the BPAC conference and be judged by a panel of industry experts who will select the winners. Teams will be judged on seven categories: Creativity, Innovative Approaches, Resilience, Workflow, Energy Use, Teamwork and Presentation.

Sign up now and be assigned to a team OR sign up with your friends and colleagues and create your own team.

The deadline to sign up to participate in the 2019 LowDown Showdown is April 1, 2019.

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