Iowa Stalks
Monthly Newsletter - September 2018

This Month at ASHRAE Iowa

Note the new start time this year!!
President's Corner

Welcome to a new ASHRAE year!

I hope everyone had a great summer and are
ready to kick off the 2018-2019 ASHRAE Iowa Year! Our Board of Governors are off to a great start planning an exciting year for us. We plan to offer lots of PDH opportunities mixed in with fun social events.

The Fall Frolic Golf Outing will kick off our year on Wednesday, September 12th at The Legacy Golf Club in Norwalk. I hope you were able to get a foursome put together and plan to join us. Note the earlier 11 AM shotgun start. Hopefully the weather has gotten all this rain out of its system this past wet week so we will have great sunny weather for our event. As of now, the weather report is looking fantastic! There is still time for your company to help sponsor our golf event. The proceeds from the golf outing help raise money for ASHRAE Research Promotion which funds research and grants right here within our region.

The following month will be at the Ramada Tropics Resort on Merle Hay on October 17th. Our Chapter Technology Transfer Committee (CTTC) chairs are working out the final details of the event, so be on the lookout for additional details soon!

In November, we will make our annual trip up to Ames for student night. We hope to provide some educational networking with soon-to-be engineers that will enter our industry in the near future. We will also get to tour the recently renovated historical Marston Hall, so mark your calendars so you can make the trip up there and join us.

Stay tuned for additional details on the rest of our monthly meetings. I’m looking forward to seeing you all there. Thanks for supporting your local

- Board of Governors -
  Tjaden Ahrens
  Matt Jesson
  Matt Peters
  Sara Schmerbach

- Officers -
  President
  Brian Steffens
  President Elect
  David Poetting
  Treasurer
  Adam Puls
  Secretary
  Tyson Scheidecker

- Committee Chairs –
  Attendance
  Dan Zaug
  Auditing
  Joe Moench
  CTTC
  Matt O’Banion
  Peter Erzen
  eCommittee
  Jason Kems
  Chris Clausen
  Education
  Kit Cartwright
  Matt Gumm
  GAC
  Matt Swenka
  Historian
  Luke Miller
  Honors & Awards
  Andrew Pospisal
  Membership
  Tim Conrad
  Product Directory
  Holly Elbert
chapter!

Brian Steffens (bsteffens@shive-hattery.com)
Iowa Chapter President 2018-2019

Refrigeration
Justin Barrett

Research Promotion
Michael Gustafson
Ted Gerber

Student Activities
Mike Wolfe
Joe Nielsen

TEGA
Dan Ponxs
Emmett Konrad

YEA
Heidi Turner
AG Fleckenstein

Past Presidents

Luke Miller 2017-2018
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 Lesher 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

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
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
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 Zebron 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
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
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

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

<table>
<thead>
<tr>
<th>Month</th>
<th>Date</th>
<th>Location</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>September</td>
<td>12</td>
<td>The Legacy Golf Club</td>
<td>Fall Frolic Golf Outing</td>
</tr>
<tr>
<td>October</td>
<td>17</td>
<td>Ramada Tropics</td>
<td>Membership &amp; RP Night</td>
</tr>
<tr>
<td>November</td>
<td>14</td>
<td>Ames</td>
<td>Student Night &amp; Tour</td>
</tr>
<tr>
<td>December</td>
<td>12</td>
<td>Holiday Inn</td>
<td>SMCI / CSI Joint Meeting</td>
</tr>
<tr>
<td>January</td>
<td>17*</td>
<td>TBD</td>
<td>TBD</td>
</tr>
<tr>
<td>February</td>
<td>15*</td>
<td>Hotel Renovo</td>
<td>Refrigeration Meeting</td>
</tr>
</tbody>
</table>
March  28*   TBD   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

<table>
<thead>
<tr>
<th>Month</th>
<th>Date</th>
<th>Location</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>January</td>
<td>12-16</td>
<td>Atlanta, GA</td>
<td>2019 Winter Conference</td>
</tr>
<tr>
<td>May</td>
<td>2-4</td>
<td>Milwaukee, WI</td>
<td>Region VI CRC</td>
</tr>
<tr>
<td>June</td>
<td>22-26</td>
<td>Kansas City, MO</td>
<td>2019 Annual Conference</td>
</tr>
</tbody>
</table>

*Tentative dates

What's New in the Iowa Chapter?

Site Blends Sustainability, Function With Aesthetics

Congratulations to ASHRAE Iowa members Chris Deal and Mark Hersch for winning First Place Technology Award in the Commercial Buildings - Existing category. The project involved the renovation of the historic Advanced Thresher Company Warehouse in the East Village. Take a look at the project in the July issue of the ASHRAE digital journal.
Des Moines is exploring an energy benchmarking initiative using EnergyStar. The initiative is intended to help building owners and tenants be more informed about the potential problems, savings, and performance of the largest buildings in Des Moines downtown area. It is similar to other programs already in use at other Midwest cities such as Kansas City, Minneapolis, and Chicago. Read more about the proposed initiative here and here.

---

**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.
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://ashrae.org). 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](mailto:michael.gustafson@ashrae.org).

Thank you for your donation!
2018 Annual Conference

More Information Here

Industry News

Selecting Fans for Minimum Energy Consumption
By Michael Brendel, Ph.D., Member ASHRAE
According to the author, fan selection has largely become an automated process that matches system flow and pressure requirements to a pool of candidate fans. Trade-offs between first cost and power consumption often drive selections to the smallest fan, rather than to the most efficient. This article discusses proper fan selection with emphasis on how fan pressures and selection practices influence the result.

Propane-Burning Heat Pump Promises More Efficiency, Environment-Friendliness
MUNICH, Germany—Researchers at the Fraunhofer Institute for Solar Energy Systems are developing a heat pump that uses propane. Propane has excellent thermodynamic properties, but is highly flammable. To mitigate the flammability impact, the volume of propane in the heat exchanger is minimized by using compact, brazed, finned heat exchangers. The team says it is "currently modifying the technical design of the heat pump, testing the long-term behavior of its components, and developing sustainable safety strategies."

University of California Commits to 100% Renewable Energy by 2025
BERKELEY, Calif.—The University of California announced Sept. 4 that it will use 100% renewable and zero-carbon electricity by 2025. All 10 UC campuses and five medical centers have agreed to the plan. The University also committed to reducing its energy use intensity (energy per square foot per year) by 2% annually through the use of efficiency measures. In addition, the university said that after June 2019, no new buildings or major renovations will use on-site fossil fuel combustion for space and water heating.
New Software Tool to Help Design More Efficient Buildings

CAMBRIDGE, Mass.—MIT researchers have developed a faster and easier system for performing a life-cycle analysis of a building's environmental impact. The new process is simple enough that it could be integrated into the software already used by building designers, according to its developers. "We wanted to address how to bridge that gap between using LCA at the end of the process and getting architects and engineers to use it as a design tool," said Franz-Josef Ulm, Ph.D., a professor of civil and environmental engineering and director of MIT's Concrete Sustainability Hub.

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

CRC Sponsors
Sponsoring our monthly newsletter is a great way to advertise your business and support your Iowa ASHRAE Chapter. Please consider sponsoring for the 2018-2019 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:
Adam Puls
ASHRAE Newsletter Sponsorship
P.O. Box 3686
Urbandale, IA 50323

Tyson Scheidecker 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: tyson@shive-hattery.com.
Part golfing outing, part fishing.