

ASHRAE Iowa Chapter www.ashraeiowa.org

- Board of Governors -

Adam Puls
Joe Moench
Brian Steffens
Tyler Luttenegger

- Officers -

President
Justin Barrett

President Elect
Matt Gumm

Treasurer
Andrew Pospisil

Secretary
Luke Miller

- Committee Chairs - Attendance/Reception

Dan Zaugg

Auditing
Susan Oltrogge

CTC
Xiaohui (Joe) Zhou
Chad Raymer

e-Committee
Jason Kems

Education
Kit Cartwright

GGAC
David Poetting

Historian
Tim Conrad

Honors & Awards
Matt Jesson

Membership
Patrick Peterson

YEA
Val Hageman

Refrigeration
Christopher Deal

Research Promotion
Dan Ponxs
Vince Sanders

Student Activities
Holly Elbert
Mike Wolfe

TEGA
lyhab Hasan

THIS MONTH AT ASHRAE Fall Frolic Golf Outing



2014 Fall Frolic ASHRAE Golf Outing "Shotgun Start"



When: 1:00 PM Thursday, September 11, 2014

Where: **Echo Valley County Club**

3150 County Line Road
Des Moines, IA 50321

www.echovalleycc.com
515-285-0101



Costs: Golf: \$80.00 for 18 Holes and Half a Cart

Dinner: \$40.00 Dinner

Dinner & Golf: \$120.00 Total

PLUS

\$5.00 Mulligans and

\$5.00 Pink Tee's

(Limit 4 mulligans and 1 pink tee per player)

Send to: (Please make Checks payable to ASHRAE Iowa Chapter)

Jeff Hammer by Thursday September 4, 2014

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



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

DRESS CODE - See reverse

For Credit Card Payments:

If you would like to pay by credit card, we would ask that you register and pay on-line at our registration website under the Event Registration tab. If you would prefer to pay with a credit card over the phone, please call the number above and ask for Jason Kems or Jeff Hammer. You may use Visa, Master Card or American Express.

Registering On-Line:

Registration for this event is available on-line. You can enter all of your teammates and get your mulligans and pink tees 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.

NEW!

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 - \$1,000

also gets your name at the registration table and sponsors the main door prizes

PAST PRESIDENTS

Tim Conrad	2013-2014
Matt Jesson	2012-2013
Kelly Crow	2011-2012
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 Zaig	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
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
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
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. Wheeler	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

President's Corner



Hello and welcome to the 2014-15 ASHRAE chapter year! I hope everyone enjoyed their summer and is looking forward to the fall. The Board of Governors began planning for the chapter year back in July and has some great technical programs and social activities lined up. Our goal is for ASHRAE to continue to be a great resource for professional development and networking.

Coming up on Thursday, September 11th is the Fall Frolic golf outing at Echo Valley Country Club in Norwalk. The golf committee has lined up another great outing on a great course. There is still time to get in a last-minute registration or sponsorship if you haven't already signed up.

On Wednesday, October 22nd, we will be holding our annual student night in Ames. It will start off with an industry discussion panel; continue with a social hour, dinner, and business meeting. We will finish with a tour of the recently completed ISU ABE building.

Keep an eye out for meeting registration info via email and the chapter website. Hope to see everyone at the Fall Frolic and October meeting in Ames.

Justin Barrett
Iowa Chapter President
2014-2015

UPCOMING CHAPTER MEETINGS

September 11th

Fall Frolic Golf Outing

Location:
Echo Valley Golf Club
Norwalk, IA

October 22nd
Membership Night and Student Night

Location:
Torrent Brewery
Ames, IA

November 19th
Resource Promotion & Tech Session

Location:
Ramada Tropics Resort
Merle Hay Rd
Ames, IA

Engineers Club

of Des Moines
Est. 1918

SEPTEMBER 2014 MEETING NOTICE

DATE: Thursday, September 11, 2014

TOUR: We are kicking off our fall meeting schedule with a tour of the Iowa Aviation Heritage Museum at the Ankeny Regional Airport. The Museum commemorates the history of Iowa Military Aviation and General Aviation from before WW II to present day. There is an incredible amount of Military Aviation History associated with Iowa. The goal of the Museum is to keep this history from being lost.

The Museum has a large number of artifacts on display such as a Stinson 10A – the airplane used to patrol the Gulf of Mexico for German submarines during WW II. Other planes on display or undergoing restoration include a Twin Navion and an F 84 Thunderjet. Also on display are remote control aircraft from Byron Originals and the Ida Grove airshow.

PLACE: Iowa Aviation Heritage Museum
3704 SE Convenience Blvd.
Ankeny Regional Airport
Ankeny, Iowa 50021

Take I-35 north from Des Moines and exit on Oralabor Road. Go east to the first stoplight and then turn south. Drive past the Monsanto and the Casey's buildings and follow Convenience Blvd. as it turns to the east. At the junction near the airport turn right (south). You will see a large scale model of a B-25 bomber mounted on a pole in front of the Museum.

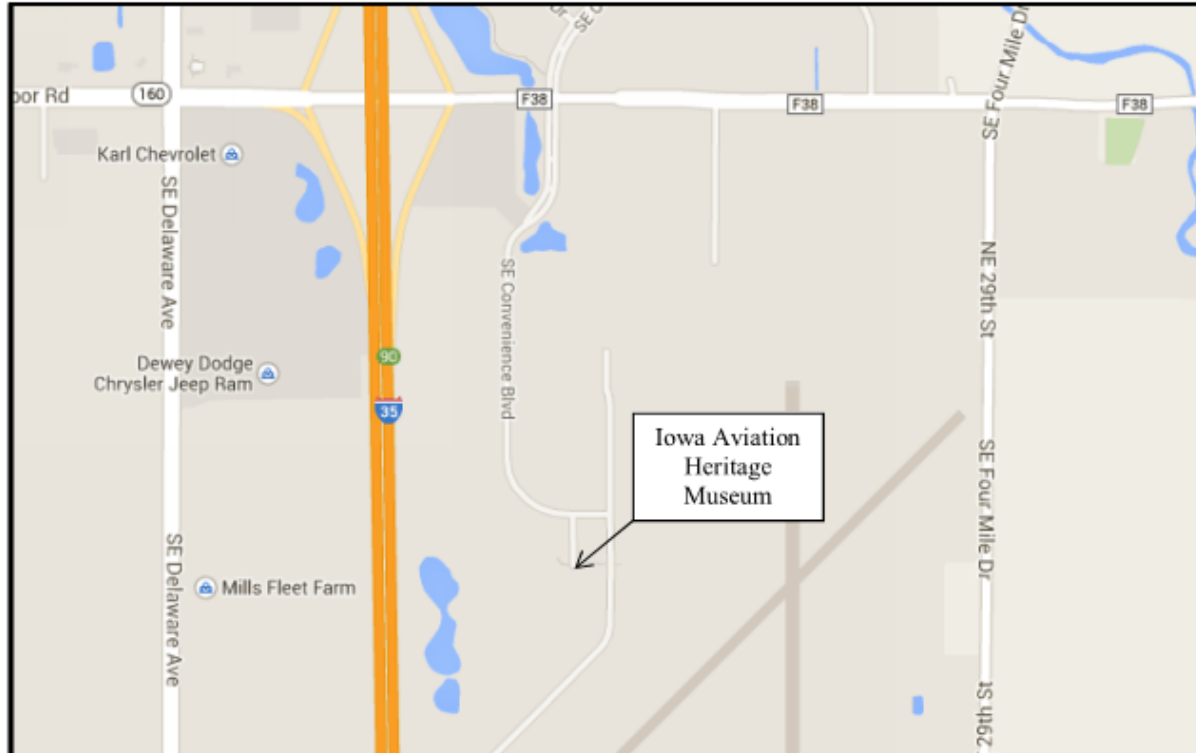
After entering the building, go left and follow the aisle to the workshop area at the back of the building. You will find tables and chairs available for fellowship and meal time.

DINNER: We will be enjoying the famous Jethro's BBQ Sandwich with your choice of BBQ meats, sides and sauces. The catered dinner by Jethro's BBQ will be available for \$15.00.

TIME: 5:30 PM – Gathering time
6:00 PM – Dinner
7:00 PM – Semi self-guided tour

GUESTS: Guests are welcome and encouraged to attend. You will be called for reservations.

MAP:



Iowa Aviation Heritage Museum:

**3704 SE Convenience Blvd.
Ankeny Regional Airport
Ankeny, Iowa 50021**





Pressurization and Ventilation: Achieving Energy Efficiency and IAQ Compliance

Free Seminar/Webinar presented by Leonard A. Damiano, EBTRON, Inc.

Tuesday, September 16, 2014 | 12:00 p.m. – 2:00 p.m. CDT
Energy Resource Station | Ankeny, IA

Adequate building ventilation and pressurization while minimizing building energy use and maintaining occupant comfort for commercial buildings will be the central issue discussed in this presentation. The Iowa Energy Center will sponsor this seminar/webinar to discuss the major reasons to measure airflow for HVAC control and backfill those answers with supporting information that includes compliance with professional design standards and local codes. The material concludes with a discussion of the differences between the measurements technologies that are available. The material presented is targeted at building professionals (building designers, mechanical engineers, building control engineers, testing and balancing contractors, ASHRAE members, etc.).

Earn Professional Development Hours (PDH)

A certificate for two PDH's will be awarded to onsite seminar participants.

About the Presenter



For over 35 years, Len Damiano has held a variety of HVAC industry senior management positions with North American air control and air movement product manufacturers. Len is currently Vice President of Marketing and International Sales at EBTRON, Inc. where he has been employed for 22 years.

Len became a full Member of ASHRAE in 1990. He is active with and currently a member of three Technical and six Standing Projects Committees. He has been a contributor to the *Fundamentals Handbook* on Instrumentation and *Applications Handbook* on Controls.

Len is a member of both the U.S. Green Building Council, which developed and maintains the LEED Green Building Rating Systems, and an Associate Member of the International Code Council. He has developed, contributed, written or co-authored numerous technical articles published in the *ASHRAE Journal*, *ASHRAE Transactions*, *HPAC Engineering*, the *TAB Journal* (AABC Magazine) and www.automatedbuildings.com.

Registration

The seminar is FREE but registration for onsite participation is required. To register, contact Denise at the Energy Resource Station at (515) 965-7055 or email djunod@iastate.edu. A free lunch will be provided to registered onsite participants.

Webinar Participants

Webinar participation is FREE; registration is not required.

Connect to the live webinar by going to <https://connect.extension.iastate.edu/pressurization/>.

Log in as "Guest", no username/password is needed.

Conference Number: 1-866-249-8583

Participant Code: 411819

Professional Development Hour certificates can only be provided to onsite participants. This event will be recorded and available on the Iowa Energy Center website at a later date.

Onsite Location

Iowa Energy Center, Energy Resource Station (ERS)

Bldg. 23, DMACC

2006 S. Ankeny Blvd.

Ankeny, IA 50023

For a map of this location, go to the ERS page on the Iowa Energy Center website at www.iowaenergycenter.org.

ABOUT US

The Iowa Energy Center has been actively serving Iowans since 1990. We support economic growth through collaborative projects that bring smart and sustainable energy technologies closer to market and by providing Iowans with reliable, objective information on energy and efficiency options.

We are your resource for relevant energy [news and updates](#), [upcoming events](#), [online training](#), [competitive grants](#), and [funding opportunities](#).

WAYS TO CONNECT

Visit our website, www.iowaenergycenter.org

Follow us on [Facebook](#), [Twitter](#), and [LinkedIn](#)

Sign up for our [news feed delivered directly to your inbox](#)

October Meeting (Wednesday the 22nd)



Membership Promotion and Student Night

Schedule (times still to be finalized):

4:00 PM: Industry Panel Discussion with Students

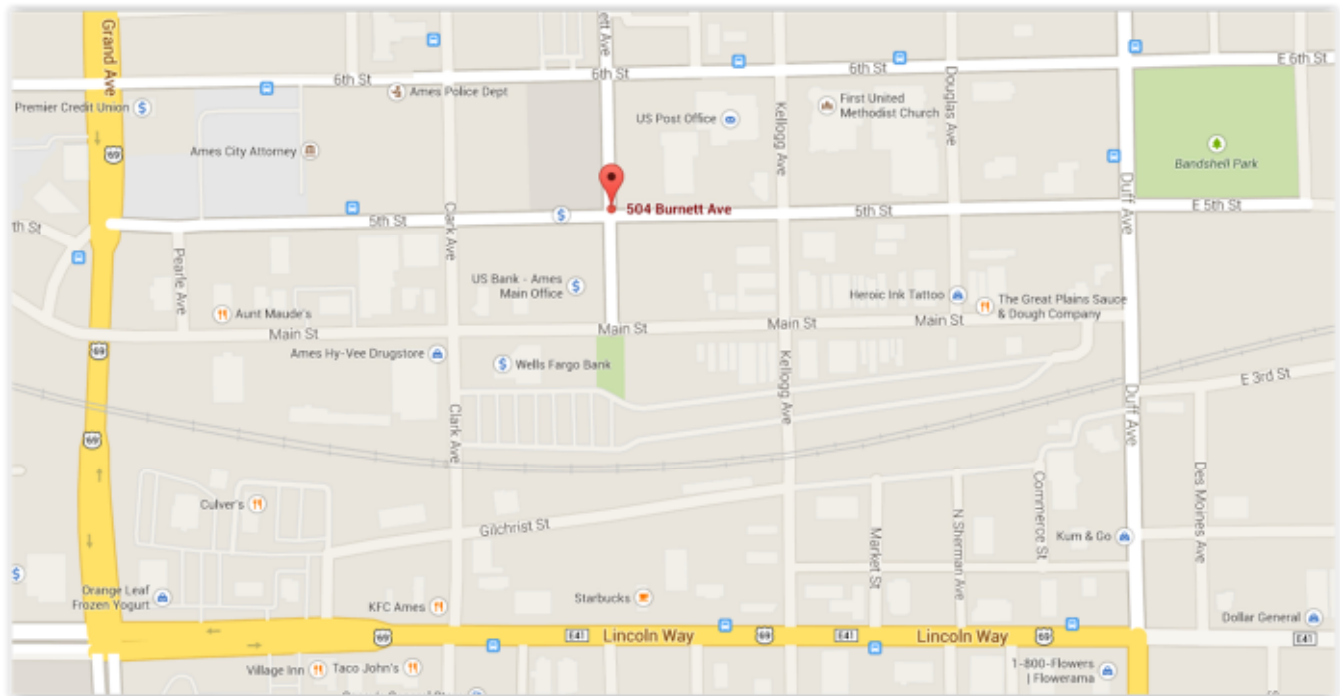
5:00 PM: Social Hour

6:00 PM: Dinner and Meeting

7:00 PM: Jobsite Tour – ISU ABE Building

Location:

Panel Discussion, Social Hour, Dinner and Meeting to be held at [Torrent Brewing Co. in Ames, IA.](#)



[“Click Here” for Iowa State University’s Student ASHRAE Chapter](#)

November Meeting (Wednesday the 19th)



Resource Promotion and Tech Session

Schedule (times still to be finalized):

1:00 – 4:30 PM: Tech Session

5:00 – 6:00 PM: Social Hour

6:00 – 7:00 PM: Business Meeting

Location:

Ramada Tropics Resort Conference Center
5000 Merle Hay Road
Des Moines, IA 50322



Abstract for Gordon Sharp's Iowa ASHRAE Tech Session:

A Holistic Overview of Technologies and Strategies to Achieve Deep Energy Reductions in Laboratories

As we strive to build more energy efficient laboratories and vivariums, the most impactful approach is often to reduce the outside airflow. In the last few years new design approaches such as demand based control of lab air change rates, chilled beams (hydronic cooling), and VAV exhaust fan control have been successfully employed to safely reduce these lab airflows to as low as 2 ACH to cut energy consumption significantly. Although these concepts may have been discussed individually in the past, this talk provides a detailed holistic discussion of how these and other energy saving technologies such as heat recovery can be combined to create a whole that is greater than the sum of the parts. A sophisticated lab energy analysis tool that can determine potential energy and capital cost savings will be used to both examine, quantify, and then compare the relative contributions of different energy savings approaches for a typical lab building in some representative climates. Several case studies will be provided including a large near net zero lab project in Abu Dhabi, UAE.



Finally, building HVAC systems naturally can degrade and building energy use can rise over time with maintenance staffs often lacking the time to analyze building performance. One solution that will also be discussed is the use of intelligent agent systems and monitoring based commissioning. These systems can be used to automatically analyze lab building energy and IEQ data, often using approaches like dashboards to help ensure long term energy savings and a healthier indoor environment.

ASHRAE's Attic & Antiques



Have you ever encountered pieces of HVAC history while working on remodel projects? Are you fascinated by the origins of modern HVAC equipment? If so, help us to launch our new section, ASHRAE's Attic & Antiques. We're trying to populate our newsletter and website with fascinating old photos and historical anecdotes, preferably with a local bent. Send your photos and stories to Tim Conrad at tconrad@mechsales.com

The HVAC&R Industry

ASHRAE Supports Change To NCEES Education Initiative

ASHRAE supports a recent move by United States engineering and surveying licensing boards to remove a requirement for an additional 30 credit hours for obtaining licensure as a Professional Engineer (P.E.). In 2006, the National Council of Examiners for Engineering and Surveying (NCEES) approved language in its model law requiring the additional 30 hours—roughly the equivalent of a master's degree—to obtain a P.E. license. The requirement was slated to take effect in 2020. At its 2014 annual meeting held Aug. 20–23, NCEES voted to modify that approach, and instead develop an official NCEES position statement that supports additional engineering education beyond a bachelor's degree. Under the change by NCEES, beginning in 2020, the group's model law and model rules will continue to require an engineering bachelor's degree from an EAC/ABET-accredited program to fulfill the education requirement for engineering licensure.

[Read more](#)

Masterpiece Warped by Rome Museum's Faulty AC

ROME—A Renaissance masterpiece by Raphael has warped because the air conditioning in a Rome museum has not worked for six months. In the heat and humidity of the Italian summer, the High Renaissance master's "Deposition" became deformed, forcing officials in the Galleria Borghese to place a dehumidifier next to the painting in an attempt to save it. In May, the museum's director Anna Coliva warned the air conditioning had not worked for two months because the system, which was fitted in 1997, was "completely worn out."□ In August, local temperatures were around 35°C (95°F). Other priceless works remain at risk, including paintings by Caravaggio, Titian and Rubens, and sculptures by Bernini and Canova.

[Read more](#)

2014-2015 Meeting Dates

MONTH	GENERAL MEETING	
	Topic	Date
July	-	-
August	-	-
September	Fall Frolic Golf Outing – Echo Valley Golf Club	11
October	Student Night / Membership Promotion	22
November	Research Promotion	19
December	Past Presidents / History (joint w/ CSI and SMCI)	15 (Lunch)
January	Membership Promotion	13
February	Resource Promotion	16 (Lunch)
March	Refrigeration	16
April	ASHRAE Webcast	16
May	Spring Fling Golf Outing	21

Winter Meeting	2015 Winter Conference – Chicago, IL	Jan 24-28
CRC	Region VI CRC – Bettendorf, IA	April 30-2
Summer Meeting	2015 Annual Conference – Atlanta, GA	Jun 27-1

ASHRAE 2014-2015 Research Promotion Fund

ASHRAE Iowa Research Investors 2014-2015		
Individual Investors <small>HR = Honor Roll participants \$100 min</small>	4.1% OF GOAL \$15,350.00 -TO GOI	Company Investors <small>HR = Honor Roll participants \$150 min</small>
Mr. Mark G Conway (HR)	\$16,000	
Mr. Charles S Heldenbrand (HR)	\$15,500	
Mr. Rodney Heston (HR)	\$15,000	
Mr. Jason E. Kems (HR)	\$14,500	
Mr. Jeff Lindell (HR)	\$14,000	
	\$13,500	
	\$13,000	
	\$12,500	
	\$12,000	
	\$11,500	
	\$11,000	
	\$10,500	
	\$10,000	
	\$9,500	
	\$9,000	
	\$8,500	
	\$8,000	
	\$7,500	
	\$7,000	
	\$6,500	
	\$6,000	
	\$5,500	
	\$5,000	
	\$4,500	
	\$4,000	
	\$3,500	
	\$3,000	
	\$2,500	
	\$2,000	
	\$1,500	
	\$1,000	
	\$500	
	\$0	

Your contribution puts us closer to achieving our goal. Please send what you can today!

COMPLETE THE INFORMATION BELOW AND RETURN IT WITH YOUR INVESTMENT

Please accept my research investment in the amount of \$_____ CK# _____

NAME _____ PHONE _____

COMPANY _____ FAX _____

ADDRESS _____

CITY _____ STATE _____ ZIP _____

PLEASE CHECK ONLY ONE: () Personal Contribution () Company Contribution

Charge my gift to: () VISA () MC () AE

Credit Card #: _____ Exp. Date: _____

Signature: _____

ASHRAE is a 501(c)(3) organization. Contributions are deductible as allowed by law.
A receipt will be sent to the address listed above.

Send to:
ASHRAE RESEARCH PROMOTION
C/O Dan Ponxs
P.O. Box 3686
Urbandale, IA 50323
PHONE: 515-964-0904
dponxs@woodmaninc.com

Thank you for your donation!

Thank you once again to our 2013-2014 Newsletter Sponsors! Please remember to renew your sponsorship for the 2014-2015 year.



A.J. ALLEN
MECHANICAL CONTRACTORS, INC.

Plumbing · Heating · Air Conditioning · Refrigeration · Boilers · Controls
Planned Preventative Maintenance

320 S.E. 6th Street
Des Moines, IA 50309

Phone: (515) 697-3500
Fax: (515) 697-3501
E-mail: aja@ajallen.com

C.H. McGuiness Company

CI3 – Control Installations of Iowa, Inc.



HART - HAMMER, INC.

Phone (515) 277-6305
Fax (515) 277-3069

529 Elm St • PO Box 65517
West Des Moines, IA 50265

www.harthammer.com
info@harthammer.com



Hydronic Energy, Inc.

3307 104th Street Des Moines, IA 50322
Office: 515-276-4935, Fax: 515-276-1017

Rick Kapustka

Cell: 515-250-7120

Email: rick@hydronicenergy.com

Bret Wagoner

Cell: 515-250-6090

Email: bret@hydronicenergy.com

www.hydronicenergy.com

MidAmerican Energy Company

MMS, Inc.

Precision Test & Balance

Rist and Associates

Patrick Peterson, LEED AP
Sales Engineer

Kelly Crow, LEED AP
Sales Engineer

SETPOINT
MECHANICAL SOLUTIONS

1450 NE 69th Place Ste#56
Ankeny, IA 50021
www.setpointmech.com

Office: 515-974-6497
Patrick@setpointmech.com
Kelly@setpointmech.com

Specialized Products, Inc.

SMB SYSTEMS
MANAGEMENT &
BALANCING, INC.



- HVAC System Test and Balance - Air & Water Balancing -
HVAC System Commissioning

925 S.E. Olson Drive Phone 515-987-2825
Waukee, IA 50263 Fax 515-987-5036

www.hvactab.com

James E. Hall, P.E. Matt Jesson
jimh@hvactab.com mattj@hvactab.com



Troy McIntyre
Sales Engineer

Troy@sys-kool.com

SYS-KOOL, L.L.C.
11313 S. 146th Street
Omaha, NE 68138

Tel: (402) 597-1449
Fax: (402) 597-1454
Cel: (402) 889-7376

Representing Cooling Towers & Filtration Equipment
www.sys-kool.com

 **VHF Sales, Inc.**

2655 SE Enterprise Drive - Grimes, IA 50111
PHONE 515.986.3671 - FAX 515.986.3564

DALE VEST VINCE SANDERS

2014-2015 Newsletter Sponsors

Sponsoring our monthly newsletter is a great way to advertise your business and support your Iowa ASHRAE Chapter. Renewing and new sponsors need to send in payment immediately for inclusion in next month's (and all subsequent) newsletter. Make check payable to: ASHRAE Iowa. Cost is \$125. Send to:

Andrew Pospisal
ASHRAE Newsletter Sponsorship
P.O. Box 3686
Urbandale, IA 50323

Luke Miller is collecting cards for all of 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: lukem@ajallen.com