



American Society of Heating, Refrigerating, and Air Conditioning Engineers, Inc.

ASHRAE Iowa Chapter

Board of Governors

Susan Oltrogge
 Odean Jukam
 Jeff Lindell
 Matt Gumm
 Doug Sullivan

Officers

President..... Dan Zaug
 President Elect..... Ron Engelhardt
 Secretary..... Jeff Gross
 Treasurer Chuck Heldenbrand

Committee Chairperson

Attendance/Reception .. Fred Miller
 Auditing Jim Hall
 Awards & Honors Chris Nelson
 Historian..... Susan Oltrogge
 House..... Chuck Heldenbrand
 Membership Shannah Eitter
 Programs Jerrod Sieverding
 e-Committee Benny Skelton
 Refrigeration Jeff Lindell
 Resource Promotion Jason Kems
 Student Activities Jim Hall
 TEGA Roger Leshner

ASHRAE Region VI

Director & Regional Chairman
 James K. Vallort

**ASHRAE Society
 Headquarters**

ASHRAE, Inc.
 1791 Tullie Circle N.E.
 Atlanta, Georgia 30329
 (404) 636-8400
<http://www.ashrae.org/>

Get this by E-mail TODAY!

The Iowa Chapter is now mailing newsletters electronically! If you're one of the few people still receiving this by "snail mail" and want to jump on the technology bandwagon, logon to www.ashraeiowa.com or send a message to benny@mail.ashrae.org and we'll get you on the mailing list!

Student Night Monday, November 18, 2002

Location: Iowa Energy Center – DMACC Ankeny Campus

Schedule:	4:30 – 5:30 PM	Tech Session
	6:00 – 7:00 PM	Dinner
		\$15 Members & Guests
		\$7 Students
	7:00 – 8:00 PM	Main Program

The Future with Better Building Controls

Tech Session 1: Better Building Controls – Defining the Problem

Commercial buildings are routinely operated with Energy Management and Control Systems that are malfunctioning and not operating properly. Problems with control systems are a primary cause of inefficient energy use. This presentation by John House defines the problem and describes the National Building Controls Information Program launched by the Iowa Energy Center.

Tech Session 2: Fuzzy Logic in Your Future

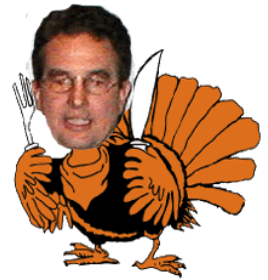
Fuzzy Logic control is based on a set of control rules which make use of people's common sense and experience. Adaptive Fuzzy Logic controls were one of the 15 new technology options selected for further study by the DOE Office of Building Technology on the basis of energy savings potential estimated at 5% of the primary energy consumed by commercial building HVAC systems. Learn how a computer can act more like a human operator when making control decisions, saving energy and increasing control stability at this Technical Session presented by Ron Nelson, Department of Mechanical Engineering, ISU. Ron is currently working on developing and testing an adaptive fuzzy logic controller for HVAC applications using the test systems at the Energy Resource Station.

Main Program: Automated Fault Detection and Diagnostics

Today's Energy Management and Control Systems have seemingly limitless capability for controlling and monitoring complex HVAC Systems. However, the control systems lack the tools necessary to detect system operational problems (Faults) that exist and to assist building operators in diagnosing the problems that arise. The concept of automated Fault Detection and Diagnostics (FDD) will be presented. The presentation will include an update on ASHRAE research in the active area of FDD, a discussion of the various diagnostic approaches and a demonstration of state of the art FDD tools.

The presentation will be made by John House, PhD., Research Engineer at the Energy Resource Station. John serves as Research Committee Chairman for ASHRAE Technical Committee 4.11 Smart Building Systems and is very active in the area of controls system research. John has made several presentations at the annual ASHRAE meetings in this subject area.

The President's Corner



Past Presidents

Susan Oltrogge2001-2002
Christopher Nelson 2000-2001
Donald Swanson1999-2000
Edward Truslow1998-1999
James Hall1997-1998
Robbin Vannoy1996-1997
Mark Conway1995-1996
Paul Melton1994-1995
Gregory Maxwell1993-1994
Jeffery Hammer1992-1993
Jack Culp1991-1992
James Lee1990-1991
Clint Leonard1989-1990
Charles Pedersen ..1988-1989
Gary Reynolds1987-1988
Dennis Hogan1986-1987
Eugene Zefron1985-1986
Donald Hagge1984-1985
Rober Rist1983-1984
Joseph Proctor1982-1983
Mark Allen1981-1982
Curtis Klaassen1980-1981
Gerald Anderson1979-1980
C.W. Miller1978-1979
Richard South1977-1978
LaVerne Stewart1976-1977
Curtis Hammer.....1975-1976
Ralph Schilling1974-1975
Donald Bonicamp ...1973-1974
Kent Mosher1972-1973
Thomas Van Hon1971-1972
Robert McBride1970-1971
William Whitman1969-1970
Einar Dahl1968-1969
Eugene O'Neil1967-1968
James Green1966-1967
Neil Hanson1965-1966
Bob Flanagan1964-1965
Lyndon Kelley1963-1964
Elwood Giberson1962-1963
Vern Polly1961-1962
John Bain1960-1961
Crom Campbell1959-1960
R.T. Howard1958-1959
W.A Schworm1957-1958
D.E. Schroeder1956-1957
G.J. Kraai1955-1956
W.E. Nanes1954-1955
J.F. Sandfort1953-1954
R.H. Schnell1952-1953
C.H. McGuiness1951-1952
R.S. Stover1950-1951
D.E. Wells1949-1950
D.C. Murphy1948-1949
C.A. Wheeler1947-1948
E.O. Olson1946-1947
B.E. Landes1945-1946
W.W. Stuart.....1944-1945
C.W. Helstrom1943-1944
P.E. Triggs1942-1943
Perry LaRue1941-1942
R.A. Norman1940-1941
Tracy Johnson1939-1940
W.R. White.....1938-1939

Dear ASHRAE Members:

Thank you to everyone who made it to our October meeting at the North End Diner. This was our joint meeting with CSI. Speaker Dennis J. Hall talked about the "Master Spec Format Changes". We learned about different scenarios being proposed and discussed how they will impact our industry.

This month's meeting is our "Student Night" meeting at the Iowa Energy Center - Energy Resource Station on the DMACC campus. Curtis Klaassen and John House will be discussing several research projects currently going on at the Iowa Energy Center.

With it being student night, several members from our student chapter at Iowa State University will be attending. We will be awarding scholarships during the meeting to well deserving students with an interest in the HVAC industry. Those who wish to sponsor a student meal may do so with Chuck Heldenbrand at the sign-in table.

Our e-committee has done a great job with the new IowaStalks newsletter. I hope you enjoy receiving it via e-mail. Make sure you let Ben Skelton know if you've changed e-mail addresses or if you would like to be added to the e-mail list. Also if you have ideas or suggestions for the newsletter, please let us know.

I'll see you on Monday, November 18th at the Iowa Energy Center.

Regards,

Daniel Zaug
Chapter President

Spring CRC

Plan to attend the Chapter Regional Conference in Cedar Rapids on April 24-26th. This is as close as a CRC will come without being in Des Moines.

October ASHRAE Meeting Summary -Jerrod Sieverding

On October 18, 2002 ASHRAE held its monthly meeting in conjunction with the Des Moines CSI chapter. The speaker was Mr. Dennis Hall of Hall Architects, Inc. of Charlotte, North Carolina. Mr. Hall spoke on the upcoming "Master Spec Format Changes". The attendance for the meeting was 35.

e-Committee Update -Benny Skelton

Checkout the new Iowa ASHRAE website (www.ashraeiowa.com). You will find archived newsletters, information about membership, current calendar, and much much more! You can also submit your email address to receive the newsletter electronically.

ASHRAE EXPO ANYONE?

The Iowa Chapter is looking for anyone interested in organizing a trip to the Winter AHR Expo January 25-29th in Chicago, IL. Please contact any board member if you are interested in sponsoring this trip.





INVESTORS FOR 2002-03

Honor Roll (minimum \$100)

Mr C Edward Truslow
 Mr Charles S Heldenbrand
 Mr Daniel V Zaug
 Mr Don Stanek
 Mr Frederic L Miller
 Mr Jason E Kems
 Mr Jeffrey J Gross
 Mr Mark G Conway
 Mr Odean H Jukam
 Mr Peter Konstant
 Mr Ronald A Engelhardt

Individual Members

Mr Curtis J Klaassen
 Mr George D Boothe
 Mr George M Ruby
 Mr Paul K Melton
 Mr Robbin R Vannoy

Company Investors

(HR = Honor Roll Participants w/\$150 min)

Casey's General Stores Inc
 Kapaun Consulting Engineers P C
 System Management & Balancing Inc

\$14,401 – Goal
\$2,300 - Current



Just a reminder that we will be trading cash donations for paper tickets that may be exchanged for a valuable prize if yours matches the one pulled out of the hat by the end of the chapter meeting.
 1-ticket for \$3 or 2-tickets for \$5

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 _____

COMPANY _____

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.

Thank you for your donation!

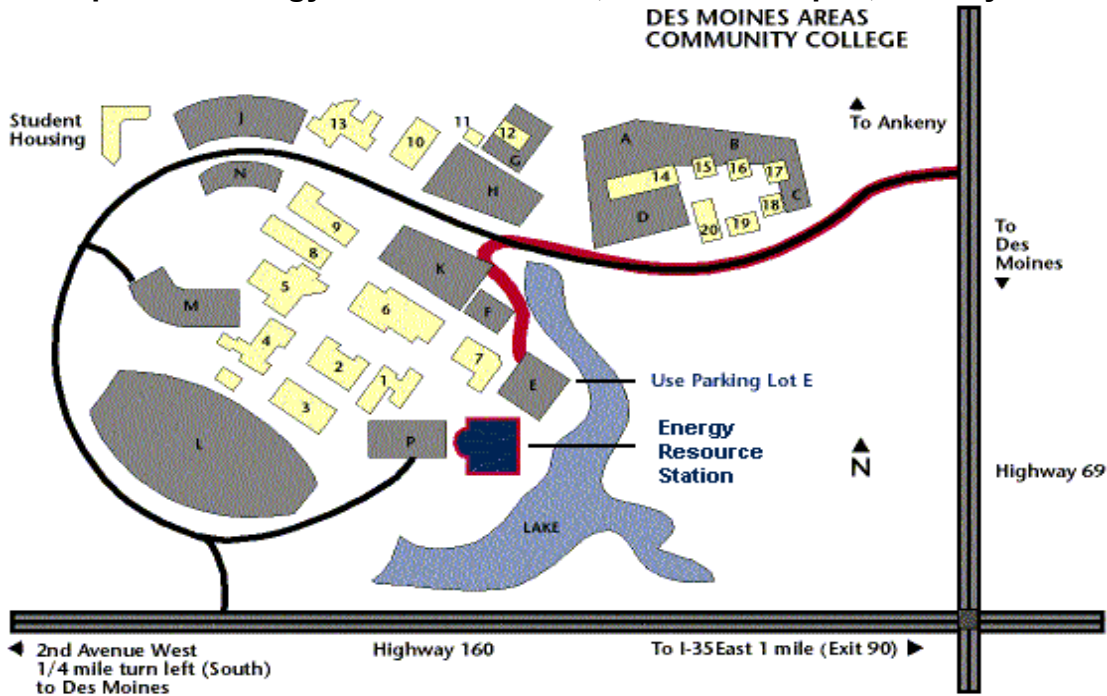
Send to:
 ASHRAE RESEARCH PROMOTION
 C/O KJWW Engineering
 2882 106th St., Suite 100
 Des Moines, IA 50322-3715
 Attn: [Jason Kems](mailto:kemsje@kjww.com)

PHONE: 334-9906
 FAX: 334-9908
 E-mail: kemsje@kjww.com



IOWASTALKS
 Benny Skelton, Editor
 KJWW Engineering Consultants
 2882 106th St, Ste 100
 Des Moines, IA 50322-3715

Map to the Energy Resource Station, DMACC Campus, Ankeny



Iowa ASHRAE Chapter 2002 – 2003 Calendar

WHEN	WHAT	WHERE	THEME
Monday, September 16 th	Fall Frolic	The Legacy Golf Course	Golf/RP
Tuesday, October 22 nd	Membership Night	North End Diner (Joint Meeting w/ CSI)	Changes to Master Spec Format
Monday, November 18th	ASHRAE Research Projects	Iowa Energy Center DMACC Campus	Student Night
Monday, December 16 th	History & Past Presidents	Embassy Club Nollen Plaza	Fun Meeting
Wednesday, January 22 nd	Sheet Metal School Tour	Sheet Metal Apprenticeship School	Resource Promotion
January 27-29	AHR Expo	Chicago, IL	Winter Meeting
Tuesday, February 24 th	Controlling Mold in Building Systems	North End Diner	Student Night
Monday, March 10 th	“The Fuzzy Edge Disease in Construction”	Okoboji Bar & Grill Johnston	RP & TEGA Night Energy & Awards
Monday, April 21 st	New Chiller Design	Okoboji Bar & Grill Johnston	“R” in ASHRAE
April 24-26	Spring CRC	Cedar Rapids	
Monday, May 19 th	Spring Fling	TBD	Golf/RP