



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

**ASHRAE Iowa Chapter**

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**ASHRAE Society  
 Headquarters**

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 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](http://www.ashraeiowa.com) or send a message to [benny@mail.ashrae.org](mailto: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**

<b>Schedule:</b>	<b>4:30 – 5:30 PM</b>	<b>Tech Session</b>
	<b>6:00 – 7:00 PM</b>	<b>Dinner</b>
		<b>\$15 Members &amp; Guests</b>
		<b>\$7 Students</b>
	<b>7:00 – 8:00 PM</b>	<b>Main Program</b>

**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**

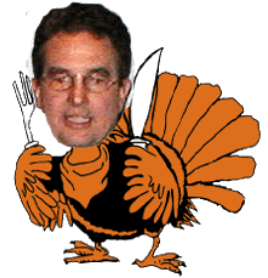
Fuzzy Logic control is based on a set of control rules which make use of people's common sense and experience. Adaptive Fuzzy Logic controls were one of the 15 new technology options selected for further study by the DOE Office of Building Technology on the basis of energy savings potential estimated 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 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  
Rober 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  
LaVerne 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

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 18<sup>th</sup> at the Iowa Energy Center.

Regards,

**Daniel Zaug**  
Chapter President

## Spring CRC

Plan to attend the Chapter Regional Conference in Cedar Rapids on April 24-26<sup>th</sup>. 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](http://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 25-29<sup>th</sup> 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# \_\_\_\_\_

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COMPANY \_\_\_\_\_

ADDRESS \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

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

Charge my gift to: ( ) VISA ( ) MC ( ) AE Credit Card #: \_\_\_\_\_ Exp. date: \_\_\_\_\_

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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!**

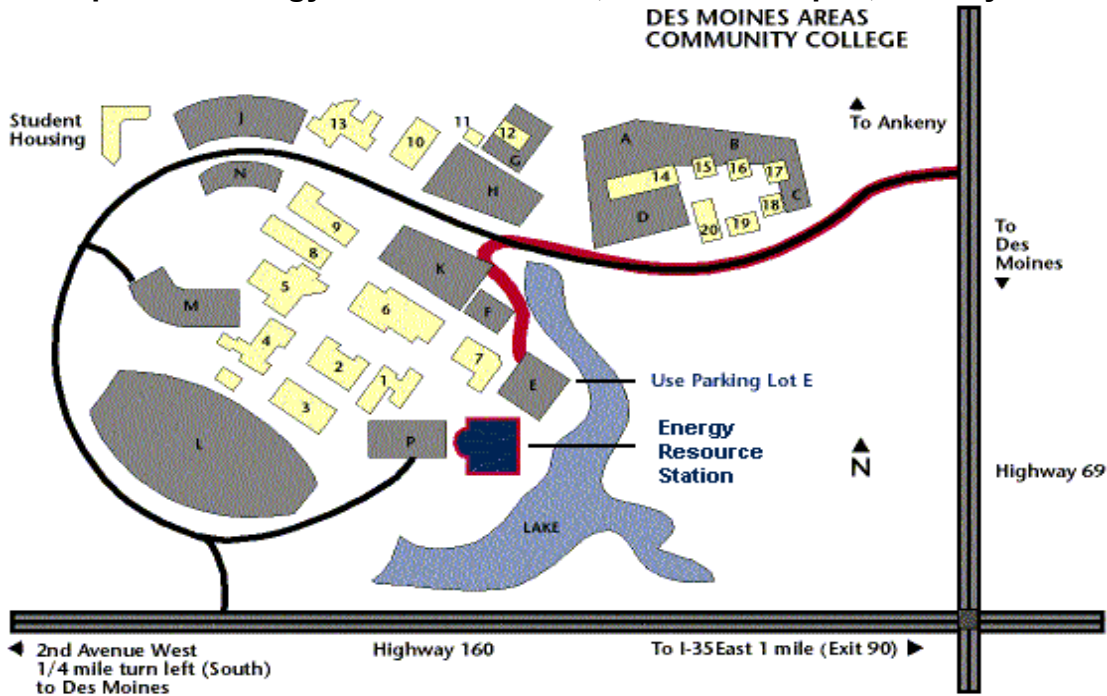
Send to:  
 ASHRAE RESEARCH PROMOTION  
 C/O KJWW Engineering  
 2882 106<sup>th</sup> St., Suite 100  
 Des Moines, IA 50322-3715  
 Attn: [Jason Kems](mailto:kemsje@kjww.com)

PHONE: 334-9906  
 FAX: 334-9908  
 E-mail: [kemsje@kjww.com](mailto:kemsje@kjww.com)



**IOWASTALKS**  
 Benny Skelton, Editor  
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**Map to the Energy Resource Station, DMACC Campus, Ankeny**



**Iowa ASHRAE Chapter 2002 – 2003 Calendar**

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