

A Newsletter for the Iowa Chapter of the American Society of Heating, Refrigerating, and Air Conditioning Engineers

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## THIS MONTH AT ASHRAE

### The World of Green Heating – Dan Holohan

#### **TECHNICAL SESSION**

**DATE:**

Monday, March 28, 2011

**SCHEDULE:**

12 PM – 1 PM Lunch Buffet  
1 PM – 4 PM Program  
4 PM – 5 PM Social Hour

**COST:**

Program = \$75  
Lunch = FREE (members),  
\$25 (non-members)  
(RSVP to Tim Grossman at  
[tgrossman@mechsales.com](mailto:tgrossman@mechsales.com))

**LOCATION:**

Ramada Inn  
5000 Merle Hay Road  
Des Moines, IA 50322  
[MAP](#)

(SEE REGISTRATION FORM AT THE  
END OF THIS NEWSLETTER)

Special Thanks to Mechanical  
Sales Inc. for sponsoring  
refreshments at this event:



This month's meeting showcases Dan Holohan, known for his other seminars titled Classical Hydronics and Dead Men's Steam School, will present on his newest three-hour travelogue – The World of Green Heating. During this seminar, he will take you on a tour of the heating systems

he's visited around the world, explain the thinking that goes into the design of these systems, and talk about what may be coming to the United States in the future.

Dan will cover some of the following topics: how one old technology (and does!) dramatically reduce cooling loads, the power of the chimney sweep, energy performance certificates – what are they and why are they slowly coming to America, modular hydronic components and square pipes, ground-source heat pumps and geothermal – both growing like crazy around the world, windows as sources of heat, why burning wood is carbon-neutral and becoming so popular around the world, and many more.

*Biography* – Dan Holohan began his career in 1970 with a New York-based manufacturers' representative. In 1989, he started his own writing-and-speaking business. He's written 16 books and hundreds of magazine columns for a number of our industry's trade magazines. He also owns and operates the popular [www.heatinghelp.com](http://www.heatinghelp.com) website.

# Proposed Changes in Requirements to Take the Principles and Practice of Engineering (PE) Examination

If you or your employer feels that having a PE license is an important component of an engineer's career, you need to know about an important change being recommended for eligibility to take the PE examination.

The Model Law of the National Council of Examiners for Engineering and Surveying (NCEES) has been revised to require an MS degree or equivalent in addition to the current requirements of graduating from a four-year, ABET-accredited engineering program, four years experience and passing the Fundamentals of Engineering examination. State legislatures and licensing boards are being urged to adopt this change as early as 2012 so that it can be implemented in 2020.

The revision, commonly referred to as the Master's or Equivalent requirement, formerly referred to as B.S.+30, will have a tremendous impact on engineering education and the engineering profession. The Position Statement, prepared by the ASME and endorsed by the organizations like ASHRAE, provides reasons why the revision should not be implemented.

If having a PE license is important to you, we encourage you to become informed of your state or jurisdiction licensing board's position on the model law. Students and early career engineers, in particular, should think ahead in time about the consequences when you may need a license to be employed and discover that you have the degree and experience but lack the 30 acceptable units of credit. Employers should also be concerned about their ability to pay for these credits and hire PE's.

Make your opinions known to NCEES, your state or jurisdiction's licensing board and to the appropriate committees of your state legislature. Also, make your managers aware of the proposed changes. Finally, if you are a member of other engineering societies, discuss the issue in your meetings. All PE's need to become aware of the recommended changes. To see the formal letter from ASHRAE regarding this issue, please access the following link: <http://www.ashraeiowa.org/Docs/NCEES%20Model%20Law%20-%20%20June%2009.pdf>

The State of Iowa Licensing Board Meeting is scheduled for **March 17, 2011 @ 10 AM at 1920 SE Hulsizer Road, Ankeny, IA 50021 (MAP)**. Feel free to email [Corey Metzger](mailto:Corey.Metzger@iowalicensing.com) or [Holly Elbert](mailto:Holly.Elbert@iowalicensing.com) for additional information on the

## TEGA (Technical, Energy, & Government Activities) Awards

The ASHRAE Central Iowa Chapter is soliciting Technology Award Applicants. The purpose of the awards are three-fold:

- To recognize ASHRAE members who design and/or conceive innovative technological concepts that are proven through actual operating data
- To communicate innovative systems design to other ASHRAE members
- To highlight ASHRAE technological achievement to others, including associated professionals and societies worldwide, as well as building and facility owners



Submissions are due to Matt Gumm at [mgumm@bbsae.com](mailto:mgumm@bbsae.com) by **March 25, 2011**. Email Matt with the contact information of the project representative and he will follow up to assist you through the submission process. **Chapter winner receives \$100 cash!!!!**

For more information on the program, visit <http://www.ashrae.org/publications/detail/14704>

## PAST PRESIDENTS

Roger Leshner	2009-2010
Kit Cartwright	2008-2009
Jerrold 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
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Charles Pedersen	1988-1989
Gary Reynolds	1987-1988
Dennis Hagan	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 (THE ELBERT REPORT)



Thank you to everyone who came to our February lunch meeting featuring a presentation on Standard 189.1. I hope the lunch meeting provided our members with a nice change in pace compared to our regular afternoon/evening meetings. I'd like to thank Baker Group for graciously offering their training facilities for the meeting as well as our presenter Andrew Price from the Mississippi Valley Chapter.

This month is what I believe will be the biggest ASHRAE Iowa blow-out of the year (excluding golf-outings.) This meeting will be talked about for years to come so make sure you are there! We are having Dan Holohan of HeatingHelp.com fame

come to speak on The World of Green Heating. Many of you remember Dan's visit three years ago and his presentation on the Dead Men's Steam School, packed full of information and entertaining anecdotes. Dan is also a regular contributor to nationally published engineering periodicals. See the flyer in the newsletter for how to register and be sure to share it with others you many know who are interested in attending. This is not limited to only ASHRAE members.

Region VI CRC will be following closely on the heels of our March Meeting. This year it's a month earlier and will be held in Greenbay April 14-16. Registration is up and running. Visit the Northeast Wisconsin Chapters website for more information and to register at <http://www.newwisconsinashrae.org/>. Let myself or anyone else on the Board of Governors know if you plan to attend. Let's see if we can bring home the Hornblower award again!

**Holly Elbert, P.E.**  
**Iowa ASHRAE Chapter**  
**President 2010-2011**

## UPCOMING CHAPTER MEETINGS

**March 28<sup>th</sup>**  
 The World of Green Heating  
 Dan Holohan

**April 21<sup>th</sup>**  
 ASHRAE Satellite Webcast

**May 12<sup>th</sup>**  
 Spring Fling Golf Outing  
 Echo Valley C.C.

## MARCH MADNESS!



Visit us online at: [www.ashraeiowa.org](http://www.ashraeiowa.org)

## Industry News Links

[Architecture Billings Hold Steady after Two Months of Improving Conditions](#)

[DOE Offers Conditional Commitment for a Loan Guarantee to Support Maine Wind Project](#)

[List of Top 10 States for LEED Green Buildings Released](#)



## ASHRAE Winter Conference See Best Attendance in 15 Years

**ATLANTA** – The 2011 ASHRAE Winter Conference saw its highest attendance numbers in years, as well as the announcement of updated energy savings figures for ASHRAE's energy standard.

Some 3,400 people attended the Conference, held Jan. 29-Feb. 2, in Las Vegas, Nev.; of that number, 400 were first-time attendees.

Also taking place in conjunction with the meeting was the Air-Conditioning, Heating, Refrigerating Exposition, which attracted over 54,000 registered visitors and exhibitor personnel. The Show was by far the largest and best attended AHR Expo in the Western states, with more than 1,900 exhibiting companies and their 20,000 exhibiting personnel—the second largest number of exhibiting companies in the Show's history. Overall, the 2011 AHR Expo was the second largest held outside of Chicago.

The ASHRAE Conference offered a technical program with nearly 300 sessions, 20 educational courses and numerous social events. The meeting also featured more than 600 meetings of technical, standards and standing committees, developing guidance for the future of the industry and ASHRAE.

The biggest buzz at the Conference centered on the latest energy saving figures of ANSI/ASHRAE/IES Standard 90.1-2010, Energy Standard for Buildings Except Low-Rise Residential Buildings, which provides minimum requirements for the energy-efficient design of buildings except low-rise residential buildings. Without plug loads, site energy savings are 32.6 percent and energy cost savings 30.1 percent. Including plug loads, the site energy savings are estimated at 25.5 percent and energy cost savings 24 percent. The standard is written in mandatory code language and offers code

bodies the opportunity to make a significant improvement in the energy efficiency of new buildings, additions and major renovations.

Other Conference highlights included the Technical Plenary, with its focus on Standard 189.1, *Standard for the Design of High-Performance, Green Buildings Except Low-Rise Residential Buildings*. The Plenary drew over 700 attendees, with standing room only. Additional sessions from the Technical Program are part of ASHRAE's Virtual Conference, which provides access to more than 250 presentations and PDFs of posters. Register or access presentations at [www.ashrae.org/lasvegasvirtual](http://www.ashrae.org/lasvegasvirtual).

Also offered were six Professional Development Seminars and 14 short courses from the ASHRAE Learning Institute. The most popular courses were *Using Standard 90.1 to Meet LEED Requirements*; *Determining Energy Savings from Performance Contracting and LEED® Projects: Measurement and Verification*; *Successful Solar Applications for Commercial & Industrial Facilities*; *The Commissioning Process & Guideline 0*; and *Energy Modeling Best Practices and Applications: HVAC/Thermal*.

The Conference served as the launch of ASHRAE's newest certification program, the Building Energy Assessment Professional certification, with more than 60 candidates taking the exam. The new certification recognizes individuals' ability to audit and analyze residential, commercial and industrial buildings. It complements ASHRAE's Building Energy Quotient program as well as the Building Energy Modeling Professional certification. Together, the programs provide a valuable toolkit when it comes to the evaluation and reduction of building energy use.

**HAPPY ST. PATRICK'S DAY**

## ASHRAE Energy Modeling Conference

**April 4-6, 2011 – ASHRAE Headquarters, Atlanta, GA**

The conference covers energy modeling procedures, elements, and systems; case studies; and how different software applications address similar energy modeling challenges all while providing ample opportunities of networking.

This conference is ideal for hands-on modelers, principals responsible for energy modeling projects. For more information, and to register for the conference and apply for the Building Energy Modeling Professional (BEMP) exam, visit [www.ashrae.org/energymodeling](http://www.ashrae.org/energymodeling). Registration is \$450/member of ASHRAE, USGBC, or AIA and \$500/non-member

## ASHRAE Region 6 CRC

**April 14-16, 2011 – KI Convention Center, Green Bay, WI**

This year's Region 6 conference will be held by the Northeast Wisconsin ASHRAE Chapter. The following three technical tracks will be offered as part of this event:

1. Track 1 – Fire and Smoke System Technologies
2. Track 2 – Professional Development
3. Track 3 – Energy Modeling and Savings Programs

For additional information and register, please visit <http://www.newwisconsinashrae.org/wp-content/uploads/2011/02/Region-VI-CRC-Brochure.pdf>

(Be sure to book your hotel by March 11, 2011 to get the discounted rate of \$110/night)



## Region 6 Regional Vice Chair (RVC)

If you are looking for ways to get more involved with ASHRAE, please email [Holly Elbert](mailto:Holly.Elbert@ashrae.org) about possible RVC positions becoming available throughout Regions 6. This would be a great opportunity to use your knowledge and passion of the industry to help influence others in the industry. Please respond to Holly by Wednesday, April 13, 2011 so she can nominate you at the Region 6 CRC in Green Bay, WI.

# February 2011 Meeting



## 2010 – 2011 Meeting Dates

MONTH	GENERAL MEETING	
	Topic	Date
July	-	-
August	Fall Frolic Golf Outing – Legacy	31
September	-	-
October	Bill Coad – VAV System Design	18
November	ISU Student Panel/Ames Power Plant Tour	16
December	Matt Krueger – What's New in DDC	20
January	Aviva USA Headquarters Tour	18
February	Andrew Price – ASHRAE Standard 189.1	15
March	Dan Holohan – The World of Green Heating	28
April	ASHRAE Satellite Webcast	21
May	Spring Fling Golf Outing – Echo Valley	-

Winter Meeting	<a href="#">2010 Winter Conference – Las Vegas</a>	Jan 29- Feb 2
CRC	<a href="#">Region VI CRC – Green Bay</a>	Apr 14-16
Summer Meeting	<a href="#">2010 Annual Conference – Montreal</a>	Jun 25-29

# ASHRAE 2010-2011 RESEARCH PROMOTION FUND

ASHRAE Research Investors 2010-11		
Individual Investors HR = Honor Roll participants \$100 min	24.8% OF GOAL \$10,150.00 -TO GO!	Company Investors HR = Honor Roll participants \$150 min
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Mr. Christopher W Nelson (HR)	\$6,500	
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Donations may also be contributed via the Internet at [www.ashrae.org](http://www.ashrae.org)

under the "Contribute Online" quick link.

Updated: 3/2/2011

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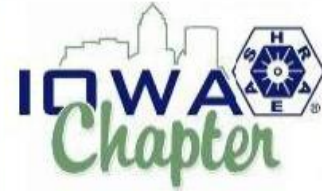
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# The World of Green Heating

Presented by Dan Holohan

DATE: March 28, 2011

Lunch Buffet: 12:00pm  
Program 1:00-4:00pm  
Social Hour 4:00-5:00pm

Lunch and Program are at the Ramada located just off I-80 on Merle Hay Rd.

Ramada Northwest Inn & Suites  
5000 Merle Hay Road  
Des Moines, IA 50322

Please send Registration Form and payment to the address below before March 22nd, 2011

In this three-hour, technical travelogue, Dan Holohan will take you on a fascinating tour of the heating systems he's visited around the world. He'll explain the thinking that goes into the design of these systems, and talk about what may be coming to the U.S.



"Dan Holohan began his career in 1970 with a New York-based manufacturers' representative. In 1989, he started his own writing-and-speaking business. He's written 16 books and hundreds of magazine columns for a number of our industry's trade magazines. He also owns and operates the popular Heating-Help.com Web site."

## Highlights

- How one old technology can (and does!) dramatically reduce cooling loads.
- Energy Performance Certificates- What they are and why they are slow in coming to America
- Micro-CHP units are changing the way the world heats homes and makes electricity
- Ground-source heat pumps and geothermal - both growing like crazy around the world.
- Why you need your room key to make anything work in a Danish hotel room (and why the escalators don't start until you step on them)
- District hot-water heating systems, and how they're changing the world
- District hot-water systems tied to solar - and geothermal sources (coming to America!)
- And much more!!

### Registration Form

ASHRAE IOWA c/o Tim Grossman

8564 Alice Ave. Suite A  
Des Moines, IA 50325

Phone: 515-276-9005  
Fax: 515-276-8993  
E-mail: tgrossman@mechsales.com

Make checks payable to ASHRAE Iowa Chapter

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- Lunch \$20 (non-members). Free (ASHRAE Iowa members)
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