



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

Dayton Chapter
PO Box 3202 Dayton, OH 45401
<http://www.daytonashrae.org>



Lunch and Learn

Seismic Restraint of Mechanical Systems:

James Tauby, ASHRAE Distinguished Lecturer (p.3)

Tech Session: Steam-powered Condensate Pumps

Mike Sneary, Kadant Johnson (p.3)

Sponsored by Steffens-Shultz

Members and local student members: **FREE**

Student ASHRAE members: **\$10**

Non-members: **\$20**

December 12, 2011

Tech session: 10:30

Lunch: 11:30

Speaker: 12:00



Engineer's Club of Dayton
110 East Monument Avenue

RSVP: By Thursday, December 8, 2011,
12 noon to Jeremy Fauber at
Fauber@heapy.com or 224-0861

COMING EVENTS:

- ◆ Dayton ASHRAE BOG Meeting — December 15, 2011
8 AM Heapy Engineering
- ◆ January Holiday Party—FRIDAY, January 13, 2012
- ◆ ASHRAE Winter Meeting, Chicago, January 21-25, 2012

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President's Monthly Brief:



My first thought was to write this over the Thanksgiving Holiday but unfortunately I left my iPad in the other room and I couldn't move to get off the couch. Now its time to get back into gear for December, which always seems to fly by.

Speaking of December, our meeting this month will be at lunch to help everyone avoid the Holiday party rush. Our presentation will be on Seismic Restraint of Mechanical Systems. We welcome the local Structural Engineers Group as a part of our December meeting. I hope to see everyone there!

Mark your calendars for the evening of Friday, January 13th. Our annual Holiday Party will be held at the American Packard Museum in Downtown Dayton. We will have ample social time along with plenty of examples of Dayton's engineering history. All local dues paying regular (not student) members and 1 guest are free. Look for more information in the coming month.

Last month's meeting was Research Promotion Awards night. I'd like to thank everyone that came out and especially thank all of our donors. Dave Waibel graciously helped us kick off the 2011-2012 campaign with his contribution. Let's all follow his example! It's never a bad time to donate to the valuable research that ASHRAE sponsors on our behalf!

Don't forget to encourage those eligible to apply for our local scholarship. Jarrett Kelley from UD was last year's winner—we can give out up to two if we have some deserving candidates!

Happy Holidays!

Steve Meier

President, Dayton ASHRAE



Check out

The Student Zone

on page 5!



Research Promotion Notes:
Are you on the Naughty or the Nice List?
See page 4 for last year's NICE list of those who contributed to ASHRAE Research. Get your tax-deductible contribution in NOW and April 15th won't be so TAXING! Use the contribution form on page 8!

JAMES R. TAUBY, P.E.
Mason Industries, Inc.
Long Island, NY

Mr. Tauby is Chief Executive Engineer for Mason Industries, Inc., a worldwide leader in the field of noise and vibration control products, as well as seismic and wind restraint systems. He is a professional engineer in 45 states. He holds a Bachelors of Science in Mechanical Engineering from the University of Alabama.

He regularly lectures around the world on topics ranging from vibration isolation, seismic and wind restraint of mechanical systems to the use of elastomeric expansion joints for piping in seismic applications. He was a member of a team of engineers that inspected numerous buildings after the Loma Prieta and Northridge earthquakes. He has been a featured speaker at the American Society of Plumbing Engineers (ASPE) and ASHRAE National Conventions numerous times.

He is a past chairman of ASHRAE's Technical Committee TC-2.7, "Seismic and Wind Restraint Design." He is currently the chairman of ASHRAE Standards Committee SPC 171P, "Method of Test of Seismic Restraints for HVAC & R Equipment." He is currently ASHRAE's liaison to the American Society of Civil Engineers' (ASCE) Wind Load Task Group. He is a member of the Standards Committee for ASHRAE.

He is a member of the "Hanging and Bracing of Water-Based Fire Protection Systems," technical committee for the National Fire Protection Association's (NFPA) NFPA-13. He is a corresponding member of the Building Seismic Safety Council's (BSSC) TS-5, Masonry construction. He was a member of the BSSC "Anchorage Task Group."

He was an editor on FEMA documents 412, 413, & 414 for the installation of seismic restraints on equipment, piping, ductwork, and electrical distribution systems.

He was the lead author on ASHRAE design publication, "A Practical Guide to Seismic Restraint." This publication includes code requirements, specification considerations, seismic restraint connection methods, along with determining whether a piece of outdoor equipment is governed by seismic or wind loads on a particular project.

Seismic Restraint of Mechanical Systems

This lecture goes over how mechanical systems are seismically braced. This includes piping, ductwork, suspend equipment and floor supported equipment. Other topics discussed are housekeeping pads, building codes, anchorage and specifications. Typical details from the ASHRAE Manual "A Practical Guide to Seismic Restraint" will be discussed.

Mike Sneary, Kadant Johnson

Mike Sneary is business development manager at Kadant Johnson Inc., a subsidiary of Kadant Inc. (NYSE:KAI). He has worked in various areas of sales and product management roles during his 30-year tenure with Kadant Johnson, and continues to provide product management for the company's steam specialty products used in industrial / commercial steam distribution and fluid handling applications. Mike holds an associate degree in Mechanical Engineering and enjoys playing golf on the local Elk's league, woodworking, reading, travel, and spending time with his wife and two (adult) children.

Research Promotion Honor Roll 2010-11

Corporations

PLATINUM

Emerson Climate Technologies

GOLD

Waibel Energy Systems

SILVER

Steffens-Schultz

Heapy Engineering

Uptime Solutions Associates, Inc.

BRONZE

Allied Supply Company, Inc.—Dayton

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Sidney Hagan

Dennis Helmig

Lorraine Kapka

Dennis Lammlein

Frank Mauro

Steven Meier

John Patterson

Richard Pavlak

Gordon Schweitzer

DAYTON ASHRAE

The Student Zone

Dayton ASHRAE Announces New Student Membership Program:

ASHRAE Student Membership: CHECK

Dayton ASHRAE Student Membership: Huh?

Dayton ASHRAE currently sponsors student ASHRAE members at local meetings for only \$10 a meeting. Sign up for a Dayton student membership for \$20 and come to the next 4 meetings free (that is a “Black Friday” special price of only \$5 per meeting). Email Larraine.kapka@sinclair.edu for a student membership form or make reservations for the next meeting and pay the membership fee at the door!

Pay now—save later!

Scholarship Info on Page 12!



Dayton ASHRAE Needs You!

Wanted: Individual to work with current Research Promotion Chair (Dennis Lammlein) with the goal of becoming RP Chair in the future.

Qualifications: Willingness to talk to members about contributing to ASHRAE Research.

Wanted: Webmaster for the Dayton ASHRAE Website to take over from Russ Marcks.

Qualifications: Ability to use web authoring software to update and freshen the website and add new, interactive features desired by members.

Each of these positions requires just a few hours a month. Please contact President Steve Meier (smeier@watkem.com) or any Board Member (see page 2 for directory).



Employers



Have a Job to Fill?

Advertise in your Dayton ASHRAE Newsletter and on the Dayton ASHRAE Website.

Insert a business-card size ad for \$20 a month or \$100 a year.

All proceeds to Dayton ASHRAE Scholarship Fund.

Send ad copy to : Lorraine.Kapka@Sinclair.edu

Dayton ASHRAE Members

Need a Job?

Submit your profile to your Dayton ASHRAE Newsletter.

We'll print it for FREE!

Limited to 250 words plus contact information.

Send ad copy to : Lorraine.Kapka@Sinclair.edu

Volunteers Needed

Ready to Give Back to YOUR Industry?

Dayton ASHRAE needs members to work on committees.

Contact Steve Meier at:
smeier@watkem.com

2011-2012 ASHRAE RESEARCH Dayton ASHRAE

Contribution Form



2010-2011 saw ASHRAE continue its leadership in developing standards and guidance for the design, operation and maintenance of healthy, energy-efficient buildings. The Dayton Chapter again met their goal to raise money for research, setting a new high. Research dollars help fund the science behind the handbooks and standards, making sure that guidance has a solid foundation.

This industry gives all of us our livelihood. ASHRAE's research and educational programs are what keeps our industry and profession on the leading edge and assures its continued existence. Confident that you will recognize the benefits of this investment, I am asking you to help fund future HVAC&R research and development. Together, we can all make a difference!

Amount enclosed: ___ \$250 ___ \$150 ___ \$100 ___ \$50 ___ Other (specify) _____

Name: _____

Address: _____

Phone Number: _____

Member Number (If known): _____

Donation in memory of: _____

Do you want to be recognized in the Dayton newsletter as a contributor? (circle) YES NO

Mail completed form with your check, payable to ASHRAE Research to:

Denny Lammlein
29 Sandelwood Street
Springboro, OH 45066

Invest in the Future:

Support ASHRAE Research!



For Release:
Contact: Amanda Dean, Public Relations
678-539-1216
adean@ashrae.org

November 14, 2011

ASHRAE Provides Guidance on the “How-To’s” of Energy Audits

ATLANTA—Seeking to promote best practices and offer a “how-to” approach, ASHRAE has released updated guidance on building energy audits. While energy audits are a commonly used component of the industry, there is great diversity in the services delivered to customers, and little industry standardization. The second edition of “Procedures for Commercial Building Energy Audits” promotes best practices, provides “how-to’s” and fills a void in available information for engineers, building owners, managers and government entities. The new publication includes time-saving tips for energy auditors, how to hire an auditor, what to ask for in a comprehensive audit report and how to build a successful energy efficiency retrofit team. “As we work to reduce energy consumption in our commercial buildings, we want to ensure that recommendations are cost effective, technically feasible, maintain safety and comfort and result in significant energy savings” Jim Kelsey, a member of Technical Committee 7.6, Building Energy Performance, and who oversaw the writing of the updated publication, said. “This volume focuses on how to improve energy audit best practices. Providing the best audits that we can will help move the industry forward to net zero buildings.”

Additionally, the publication addresses how to build a successful team, analytical methods, successful approaches to site visits, incorporating on-site measurements, economic evaluation of measures and how to organize an energy audit report that promotes action on the part of building owners and managers. It includes many tips for conducting energy audits and reviewing results prepared by others. For example, the top things to check for in when reviewing an audit report include verifying that:

- ◆ proposed measures are feasible and appropriate for the building;
- ◆ proposed measures meet applicable building codes;
- ◆ data are internally consistent;
- ◆ savings estimate methods follow established principles and methods;
- ◆ estimates of potential energy savings are reasonable compared to quick estimates and historical energy use;
- ◆ proposed cost estimates are reasonable relative to field experience;
- ◆ interactions between EEMs are identified and addressed;
- ◆ recommendations and report meet the project scope, goals and client’s needs;
- ◆ any financial discussion includes current and viable mechanisms available per the tax structure, location, and motivations of the client.

Another benefit of the new publication is a greatly expanded section of forms and template analyses, including “live” Excel spreadsheets, checklists and equipment-specific forms suitable for field collection of detailed commercial building data, to name just a few. “Procedures for Commercial Building Energy Audits, Second Edition” is available in the ASHRAE bookstore, www.ashrae.org/bookstore, for \$99 (\$84, ASHRAE members). Or, contact ASHRAE Customer Service at 1-800-527-4723 (United States and Canada) or 404-636-8400 (worldwide), fax 404-321-5478, to order.

ASHRAE, founded in 1894, is an international organization of some 50,000 persons. ASHRAE fulfills its mission of advancing heating, ventilation, air conditioning and refrigeration to serve humanity and promote a sustainable world through research, standards writing, publishing and continuing education. ###



The Official Jobs Board for the American Society of
Heating, Refrigerating and Air-Conditioning Engineers

Welcome to ASHRAEJobs.com
Your source for HVACR Engineering Careers



ASHRAE jobs

ASHRAE Learning Institute

Seminars & Courses at ASHRAE's Winter Conference in Chicago, IL

2 WAYS TO REGISTER

Internet: www.ashrae.org/lasvegascourses

Phone: Call 1-800-527-4723 (US and Canada) or 404-636-8400 (worldwide)

Full Day Professional Development Seminar

\$485/\$395 ASHRAE Member -- Earn 6 PDHs/AIA LUs or .6 CEUs

The Commissioning Process in New & Existing Buildings

Saturday, Jan 21 – 8:00 a.m. to 3:00 p.m.

Data Center Energy Efficiency

Saturday, Jan 21 – 8:00 a.m. to 3:00 p.m.

Integrated Building Design

Saturday, Jan 21 – 8:00 a.m. to 3:00 p.m.

Using Standard 90.1 to Meet LEED Requirements

Tuesday, Jan 24 – 9:00 a.m. to 4:00 p.m.

Energy Modeling Best Practices and Applications: HVAC/Thermal

Tuesday, Jan 24 – 9:00 a.m. to 4:00 p.m.

Half Day Short Courses

\$159/\$119 ASHRAE Member -- Earn 3 PDHs/AIA LUs or .3 CEUs

Understanding Air-to-Air Energy Recovery Technologies & Applications

Sunday, Jan 22 – 2:00 p.m. to 5:00 p.m.

Understanding & Designing Dedicated Outdoor Air Systems (DOAS)

Sunday, Jan 22 – 2:00 p.m. to 5:00 p.m.

Application of Standard 62.1-2010: Multiple Spaces Equations & Spreadsheet Calculation

Sunday, Jan 22 – 2:00 p.m. to 5:00 p.m.

Basics of High-Performance Building Design

Monday, Jan 23 – 8:30 a.m. to 11:30 a.m.

Complying with Standard 90.1-2010: Envelope/Lighting

Monday, Jan 23 – 8:30 a.m. to 11:30 a.m.

Energy Management in New & Existing Buildings

Monday, Jan 23 – 8:30 a.m. to 11:30 a.m.

Advanced High Performance Building Design

Monday, Jan 23 – 2:30 p.m. to 5:30 p.m.

The Commissioning Process & Guideline 0

Monday, Jan 23 – 2:30 p.m. to 5:30 p.m.

Comply with Standard 90.1-2010: HVAC/Mechanical

Monday, Jan 23 – 2:30 p.m. to 5:30 p.m.

Evaluating the Performance of LEED-Certified Buildings

Monday, Jan 23 – 2:30 p.m. to 5:30 p.m.

Combined Heat & Power

Tuesday, Jan 24 – 9:00 a.m. to 12:00 p.m.

Healthcare Facilities: Best Practice Design

Tuesday, Jan 24 – 9:00 a.m. to 12:00 p.m.

Project Management for Improved IAQ

Tuesday, Jan 24 – 9:00 a.m. to 12:00 p.m.

Healthcare Facilities: Best Practice Applications

Tuesday, Jan 24 – 1:00 p.m. to 4:00 p.m.

Design Toward Net Zero Energy Commercial Buildings

Tuesday, Jan 24 – 1:00 p.m. to 4:00 p.m.



ASHRAE
LEARNING INSTITUTE

ASHRAE HVAC Design Essential Workshop

January 11-13, 2012 • ASHRAE Foundation Learning Center • Atlanta, GA

Obtain the skills needed to:

- Improve overall building performance
- Design high-performance HVAC systems
- Effectively collaborate on an integrated design team

ASHRAE has created the HVAC Design Essentials to provide intensive, practical education for designers and others involved in delivery of HVAC services. Developed by industry-leading professionals, this workshop provides participants with training design to accelerate their evolution into effective member on a design, construction or facilities maintenance team.

In addition to gaining in-depth knowledge and understanding, attendees will receive real-world examples of HVAC systems based on the newly renovated ASHRAE Headquarters building. The workshop teaches a systematic approach to guide a design team to a solution that optimally meets the client's expectations.

Visit www.ashrae.org/hvacdesign to register



Dayton Chapter ASHRAE

<http://www.daytonashrae.org>

Membership Application and Roster Information 2011 - 2012

| | | | | | |
|---------------------|-------------|-----|-------------------------|-------|------------|
| Your Name | | | Your Company Name | | |
| Home Address | | | Business Address | | |
| City | State | Zip | City | State | Zip |
| () - | | | () - | () - | |
| Home Phone | Spouse Name | | Business Phone | Ext. | Fax Number |
| Home e-mail address | | | Business e-mail address | | |

SEND NEWSLETTER TO: Home Address Home email address Business Address Business email address

I prefer Lunch Meetings I prefer Dinner Meetings I have no preference

Chapter achievements are accomplished through active committee involvement. If you would like to promote your Society by serving as a committee chair or assist on one of the chapter committees, please indicate in which committee you are interested below. Please indicate your first preference by number 1 and so on.

- Education
 Membership
 Research
 Historian
 Newsletter
 Chapter Office
 CTTC (Refrigeration; Technical, Energy & Government; Programs)
 Golf Outing
 Communication
 Holiday Party
 Honors & Awards

Please Select Your Preferred Roster Affiliation

Consultant **Contractor** **Industry/Government** **Retired**
Education **Student:** School _____ Degree _____ Approximate Graduation Date _____

Wholesalers, Manufacturer's Rep/Sales Offices, Fill in trade names of products you represent below

| | |
|--------------------------------|-------------------------|
| Air Devices | Louvers and Dampers |
| Air Handlers | Make-Up Air Units |
| Boilers | Packaged A/C |
| Building Automation | Pre-Insulated Pipe |
| Chillers | Pumps |
| Coils | Sound Attenuation |
| Computer Room Equipment | Steam Specialties |
| Cooling Towers | Air Terminal Units |
| Ductwork | Thermal Storage |
| Dust Collection | Unit Heaters |
| Fans | Unit Ventilators |
| Fan Coil Units | Vibration Isolators |
| Filtration | Valves |
| Heat Exchangers | Variable Speed Drives |
| Heating Equipment | Water Source Heat Pumps |
| Humidity Control | Water Treatment |
| Kitchen, Laboratory Fume Hoods | Other |

*Dayton Chapter ASHRAE dues for the Society year beginning July 1, 2011 and ending June 30, 2012 are \$95 per year. Dayton Chapter ASHRAE dues include 6 dinner/lunch meetings, and both you and a guest for the holiday event. * Note: Be sure to begin paying Local dues when you pay your National Dues.*

Please return this application and a check or money order in the amount of \$95 made payable to Dayton ASHRAE to:

DAYTON ASHRAE, PO Box 3202, Dayton, OH. 45401

Paid local dues with your annual dues? Please return the form anyway!

ASHRAE

\$500 SCHOLARSHIPS*



Promoting the Art and Science of Heating and Air Conditioning in the Miami Valley!

Dayton Chapter

Eligibility:

1. Undergraduate or graduate degree candidates enrolled in Engineering, Engineering Technology, Energy Engineering, Facilities Management, Construction Management or similar degree leading to a career in an ASHRAE-related industry.
2. Member of Dayton Chapter of ASHRAE (paying local dues) or their immediate family members, or Student ASHRAE member.
3. Have completed 12 quarter hours or semester hours towards their degree.

Application Requirements:

1. Completed application.
2. College transcript including grades from Fall, 2011 term.
3. Personal recommendation from faculty member in student's program of study.
4. Statement from the student as to why they wish to study an ASHRAE-related discipline.
5. Lists of activities within and outside the University and Industry.

Application Available at
www.daytonashrae.org

Questions? Larraine.Kapka@Sinclair.edu

Application Must be Postmarked by
January 31, 2012

*Up to two scholarships will be awarded.

Pictures from the November Meeting!



Dave Waibel Kicks off Research Promotion Campaign with Donation!

**Jarrett Kelley
Receives First
Dayton
ASHRAE
Scholarship in
Honor of Alan
Watton!**



April 19, 2012 1:00 PM-4:00 PM EDT

Dedicated Outdoor Air Systems: *A Path to Balancing Energy and IEQ*

Hear leading experts discuss the role of Dedicated Outdoor Air Systems in the overall HVAC system and describe various DOAS equipment configurations, characteristics, and applications. This webcast will identify common design and operational pitfalls, and cover challenges unique to DOAS.



Presenters



**Ron Jarnigan, 2011-12
ASHRAE President**
Staff scientist | Pacific North-
west National Laboratory |
Richland, WA



Tim McGinn, P.E., LEED AP
Principal | Dialog | Calgary, AB,
Canada



Stan Mumma, Ph.D., P.E.
Professor Emeritus | Pennsylvania
State University | University Park, PA



John Murphy, LEED AP
Applications Engineer | Trane |
La Crosse, WI

How to Participate

- You may register to view the Webcast on your PC
- You may host a webcast viewing site for your colleagues
- View the webcast at a site

PDH Credits

Three (3) Professional Development Hours (PDHs) or three (3) AIA Learning Units may be awarded to viewers who complete the "Participant Reaction Form" by May 3, 2012.

Sponsored by:



Brought to you by the ASHRAE Chapter Technology Transfer Committee

For more information about the program, presenters, continuing education credits, sponsorships, and DOAS resources please visit us at www.ashrae.org/doaswebcast

Join ASHRAE in Chicago!

January
21–25,
2012

Don't miss the chance to participate in ASHRAE's historically best-attended Conference!

Technical Program — join your fellow members and industry leaders to discuss and examine the latest topics in the building industry, such as high performing buildings and integrated design.

Virtual Conference — if you can't make it to Chicago, take advantage of the knowledge shared in the technical program with the Virtual Conference.

AHR Expo — The ASHRAE co-sponsored AHR Expo takes place Jan. 23–25 at McCormick Place. www.ahrexpo.com.

ASHRAE Certification — all six certification programs are being offered: Building Energy Assessment Professional; Building Energy Modeling Professional; Commissioning Process Management Professional; High-Performance Building Design Professional; Healthcare Facility Design Professional; and Operations and Performance Management Professional.

ASHRAE Learning Institute — five Professional Development Seminars and 14 Short Courses are offered, including a new course on the basics of combined heating and power systems and updates to courses covering Standards 62.1 and 90.1 reflect changes in the 2010 versions of these standards.

www.ashrae.org/chicago

