



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

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

Research Promotion Night (Honorees p. 4) **Student Night**

Main Program: Condenser Heat Recovery
Jerry Laumann, Johnson Controls (Bio p. 3)

Tech Session: Water Treatment 101
Tom Mastbaum, Solid Blend Technologies (Bio p. 3)

5:00 Tech Session

5:30 Social

6:15 Dinner

7:00 Main Program

FREE for local members, prospective members and student members
All others \$20 at the door

November 14, 2011

Engineer's Club of Dayton
110 East Monument Avenue

RSVP: By Thursday, November 10, 2011, 12 noon to
Jeremy Fauber at JPFauber@heapy.com or 224-0861

COMING EVENTS:

- ◆ Dayton ASHRAE BOG Meeting — November 17, 2011
8 AM Heapy Engineering
- ◆ December Meeting: Monday, December 12, 11:30 AM at the
Engineer's Club
- ◆ ASHRAE Winter Meeting, Chicago, January 21-25, 2012

ASHRAE

2011-2012 OFFICERS

President

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smeier@watkem.com

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President's Monthly Brief:



I'm not sure if it's here to stay but it got cold in a hurry. Everyone cross your fingers for warm weather in Chicago for the Winter Conference and AHR Expo... Who am I kidding, it's Chicago in January... As always, it will be a great show and conference. If you have any interest in going up as a group email Greg Cohron (gcohron@rcme.com) who is putting together a party on a bus.

This month's meeting is Research Promotion Night and also Student Night. Two very good causes to recognize: Our generous donors who step up to the plate to fund valuable ASHRAE Research to keep our organization on the forefront of technology and also the future of our industry and organization. A refresher course on Water Treatment is the Tech Session and Heat Pumps/Heat Recovery is on slate for the dinner presentation. Come out and support Research and our Students!

I'd like to send out a special thanks to Steve Coppock of Habegger for sponsoring the students who came to last month's meeting. His donation to the Chapter covered the meal expenses for the Sinclair and UD students who attended. Thanks Steve!

Dayton ASHRAE is also on Facebook. Just search for us and look for our logo. You can see up to date pictures from meetings, post feedback and see interesting articles from the engineering community.

February 19-25 is National Engineer's Week. As a Chapter we would like to be seen in at least 10-15 different school districts to talk about HVAC and opportunities that come from strong math and science skills. If you are interested in speaking on behalf of ASHRAE and your company, please email me (smeier@watkem.com) for more details.

As a side note, November has been renamed Movember to raise awareness for Men's Health. You may see me wandering around with what seems like a mustache. It's not a fad, it's just for a month. However, I encourage all our guys, young or old to stay on top of your health by seeing your doctor regularly. Ladies, encourage the men in your life to do the same. 1 in 2 men will be diagnosed with cancer sometime in their life. Let's all take steps to minimize the impact cancer can have on our lives. Visit www.movember.com for more information.

Keep your stick on the ice,

Steve Meier

President, Dayton ASHRAE

Annual Meeting Calendar Coming Soon!



Check out

The Student Zone

on page 5!



Research Promotion Notes:

Tonight we honor the companies and individuals who helped us reach our Research Promotion goal this year (see page 4). If your name is not listed, use the form on page 9 to make your contribution now. Individual contributions of at least \$100 and company contributions of at least \$150 are recognized. See you on the list next year!



Presenting, for your Learning Enjoyment:

Main Program Speaker: Jerry Laumann, LEED AP

Senior Application Engineer
Chiller Solutions, Johnson Controls

Jerry Laumann has a B.S. in mechanical engineering from the University of Maryland – College Park and has spent 6+ years in the HVAC industry working in marketing and applications for Johnson Controls. For the last 4 years he has worked in the Chiller Solutions group as an application engineer based out of York, PA. He is also a 6 year member of ASHRAE and has been a LEED AP since 2009.

Tech Session Speaker: Tom Mastbaum, Solid Blend Technologies

Tom is a graduate of the University of Dayton, Dayton, Ohio and performed at graduate work Wright State University, Fairborn, Ohio. He is employed by Solid Blend Technologies, Dayton, Ohio. In his position as Technical Sales Director, Tom is responsible for overseeing the implementation of industry best practices for water treatment systems, performing engineering and other consultative studies for water systems. He also designs water treatment equipment systems interfacing water treatment controls and equipment with heat exchange equipment, boilers and cooling towers. Tom is a Certified Water Technologist (CWT) and a member of the Association of Water Technologists where he serves on the Green Task Force Committee. He is a member of ASHRAE, and the National Association of Power Engineers, and is past Region 3 Director, and founder of the Philadelphia Chapter. He is a licensed NIULPE Engineer as well as holding an ASOPE Engineering License. In addition he holds certifications as a licensed pesticide applicator and trainer in New York, Connecticut and Pennsylvania.. He is also a member of the Water Environment Federation and former Chairperson of the Industrial Wastes committee in the State of Ohio.

**It's Never too Early to Contribute
to ASHRAE Research!**

See contribution form on page 9!



ASHRAE members interested in presenting programs related to our industry in the public schools. Chaminade – Julianne has already requested speakers for this year. Materials will be provided—just need a couple of hours of your time. Interested? Contact

Lorraine.Kapka@Sinclair.edu

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

Helmig Lienesch LLC

Individuals

HONORS

Greg Cobron

James Davidson

Jeremy Fauber

Tom Ferdelman

Joe Ferdelman

Jason Gillespie

Sidney Hagan

Dennis Helmig

Lorraine Kapka

Dennis Lammlein

Frank Mauro

Steven Meier

John Patterson

Richard Pavlak

Gordon Schweitzer

DAYTON ASHRAE

The Student Zone



Student Chapters Need Speakers

Student chapters at both the University of Dayton and Sinclair Community College are looking for speakers for their 2011-2012 programs. If you have something to share, contact:

Brad.turnwald@gmail.com (UD) or
Russell.marcks@sinclair.edu (SCC)

Scholarship Info on Page 13!

Students Need Books!

So you just got your new ASHRAE Handbook and are wondering what to do with the old one? Donate it to a current college student—bring it to the next ASHRAE meeting—we'll make sure a deserving student benefits!





Remembering Lynn Bellinger

AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR-CONDITIONING ENGINEERS

Dear ASHRAE Members,

Last week, we shared with you the sad news that ASHRAE Presidential Member Lynn G. Bellenger passed away on Oct. 19. In a short time, we have had many gracious messages of remembrance from members, companies and allied organizations around the world.

I do not have to tell you – she touched many, many lives. Let me share a sampling of the messages we have received.

She could make you feel that she was available just for you. When speaking to a large or even a smaller audience - it seemed like she could talk at once to each person in the room and uplift them to what she wished to emphasize.

As a woman in the engineering field, someone who is passionate about energy savings and an active ASHRAE member, I am so sad that this wonderful, intelligent kind person is no longer with us. This is a huge loss to the engineering community and to the people on this planet.

Very early on, in her ASHRAE career, Lynn told me that she was trying to model herself on other ASHRAE giants that she looked up to and, in this regard, she made a magnificent effort to accomplish this dream.

Many people are asking what they can do to show their love and support in this sad time. To honor the remarkable legacy that she leaves, ASHRAE is establishing the Lynn G. Bellenger Memorial Fund, which will be used to recognize women in engineering through scholarships or other means.

If you would like to contribute to this fund and continue her legacy as a role model not only for women but for all of us and our future generations, you can do so via mail or online.

Mail contributions

Lynn G. Bellenger Memorial Fund
c/o ASHRAE
1791 Tullie Circle NE
Atlanta, GA 30329

Contribute online

[Click here to fill out the online form and make your contribution online.](#)

I thank you in advance and ask that you share this message with other members or those in the industry who would be interested.

Thank you,

A handwritten signature in black ink that reads "Ronald E. Jarnagin".

Ron Jarnagin 2011-12
ASHRAE President



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

October 13, 2011

New Guidance Released to Help Schools Earn Top Marks in Energy Efficiency

ATLANTA—Inefficient lighting, uncontrolled plug loads and poorly insulated roofs are just few of the factors that can contribute to a failing grade in energy consumption for K-12 school buildings. Fortunately, guidance is available to help design teams constructing K-12 school buildings cut annual energy use by 50 percent or more using off-the-shelf technology.

To help ensure schools receive an A+ in energy efficiency; owners, engineers, designers, architects and others on the building team are encouraged to download the free Advanced Energy Design Guide for K-12 School Buildings: Achieving 50% Energy Savings Toward a Net Zero Energy Building. The guide is the second to be released in a series which provides recommendations to achieve 50 percent energy savings when compared with the minimum code requirements of ANSI/ASHRAE/IESNA Standard 90.1-2004, Energy Standard for Buildings Except Low-Rise Residential Buildings. Advanced Energy Design Guides, or AEDGs, allow owners, contractors, consulting engineers, architects and designers to easily achieve advanced levels of energy savings without detailed energy modeling or analyses. Written in partnership with ASHRAE, the American Institute of Architects, the Illuminating Engineering Society of North America, the U.S. Green Building Council and the U.S. Department of Energy, the guides are available for free in electronic form at www.ashrae.org/freeaedg.

“Significant research demonstrates that the quality of the physical environment affects student performance,” Shanti Pless, chair of the steering committee, said. “An environment that includes appropriate lighting, sound, temperature, humidity, cleanliness, color and air quality can help students learn better. In many cases, improving these attributes can also reduce energy use.”

The new guide features easy-to-follow recommendations for various climate zones and how to implement tips via a series of real-life school construction case studies. Also included is information on integrated design, including best practices, as a necessary component in achieving 50% energy, and the inclusion of a performance path; specifically, offering guidance for early stage energy modeling and annual energy use targets to help with goal setting

Additional design tips include:

- High performance building envelope that is better than Standard 90.1-2004.
- Different ways to daylight 100 percent of the floor area of classrooms, resource rooms, cafeterias, gymnasiums and multipurpose rooms for two thirds of school hours.
- Methods to achieve space-by-space interior lighting power densities that are, on average, 40 percent better than Standard 90.1-2004.
- Ways to reduced exterior (façade, walkway, parking lot and drive) lighting energy consumption.
- Recommendations for computers, vending machines, kitchen cooking equipment, walk-in refrigeration equipment, kitchen exhaust hoods and service water heating.
- Three different HVAC system types that achieve significant energy savings over a typical system.
- Recommendations for commissioning and measurement and verification to ensure that energy savings potentials are realized.

The AEDG also addresses the notion that energy efficient buildings are more expensive.

“Owners should not expect energy-efficient schools to cost more; they can cost more, but they shouldn’t have to. The tips, guidelines and tables included in the newest AEDG for K-12 schools can set building owners on their way to more energy efficient, productive schools in a cost efficient manner,” Pless said.

The 50% Advanced Energy Design Guide series follows an earlier six-book series that provided guidance to achieve 30 percent savings. The ultimate goal is to provide guidance to achieve net zero energy buildings; that is, buildings that, on an annual basis, produce more energy than they consume. ASHRAE, AIA, IES, DOE and USGBC are currently developing the third guide in the 50 percent series, which will focus on medium/big box retail. Publication is targeted for winter of 2012, followed by large hospitals in the spring of that year.

Advanced Energy Design Guide for K-12 School Buildings: Achieving 50% Energy Savings Toward a Net Zero Energy Building is available as a free download at www.ashrae.org/freeaedg.

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.

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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? Lorraine.Kapka@Sinclair.edu

Application Must be Postmarked by
January 31, 2012

*Up to two scholarships will be awarded.

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

