

**Refrigerating & Air-Conditioning Engineers**[www.daytonashrae.org](http://www.daytonashrae.org)**2015-2016 OFFICERS*****President*****MIKE KENNEDY**MBKennedy@heapy.com  
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Heapy Engineering**Mark Your Calendars*****November 19th*****Board of Governors**

8AM, Heapy Engineering

***December 14th*****Lunch Meeting*****December 16th*****Board of Governors**

8AM, Heapy Engineering

**Student Night &  
ASHRAE Distinguished Lecturer****November 9th, 2015****Engineer's Club****110 East Monument****Dayton, Ohio 45402****Jim Vallort**, Fellow ASHRAE  
**Senior Vice President**

Environmental Systems Design Inc.

**Intelligent Buildings****How Technology is Changing What is Possible  
in the Built Environment**An in depth look at how the intelligent building will  
result in a more efficient, secure and productive  
asset that has the capacity to continuously  
improve over its lifetime.**Tech Sessions: 5:00pm to 6:00pm**

"Intelligent Buildings Part 1"

**Social/Cocktail: 5:30pm to 6:30pm****Part 2 of the Presentation to Follow**

With a Brief Review of Part 1

**FREE to All Members and Students.****\$20 to All Others.**RSVP by Noon on 11/5 to [JPFauber@heapy.com](mailto:JPFauber@heapy.com)

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Heapy Engineering

**RICK PAVLAK**

Heapy Engineering

**LARRAINE KAPKA**

Sinclair Community

**A Note from the President:**

There was a great turnout at our first meeting of the year. Thanks to all that came early for the Tech Session. Also, a big THANKS to all the hard work we were able to recognize for last year's Research Promotion donors! This month we will host a special distinguished lecturer featuring a presentation on Intelligent Buildings, from the ASHRAE Society Vice President. This will also be Student Night. So students, please don't miss this FREE opportunity! Also, please remember to fill out your application for the opportunity to win one of the \$1,000 scholarships available from Dayton ASHRAE. Applications must be mailed by January 31, 2016. The Dayton Chapter will have a Habitat for Humanity build day setup for December 12<sup>th</sup> in Huber Heights. There are 2 slots still available if anyone else is interested, please email me. Look for a flyer on our next YEA outing coming in December and one for our Holiday Party, downtown at the Racquet Club on January 8, 2016. See you next Monday, at the Engineer's Club.

*Mike Kennedy*—President, Dayton ASHRAE

**Remember When... (1994/95)**

President:	Mark Nieheisel	Uptime Solutions
Pres. Elect:	John Mosgo	Siebe Barber Colman
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Secretary:	Jim Hocker	Stan & Associates
Treasurer:	Dave Deger	Air Control Equipment
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Education:	Russell Marcks	Sinclair College
Membership:	Joe Ferdelman	Heapy Engineering
Res Promotion:	Mark Steiner	BWSC
TEGA:	Ken Baily	Dayton Power & Light
Refrigeration:	Dale Haxton	NCR Corporation

# Employers!

## Have an Open Position?

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

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](mailto:Lorraine.Kapka@Sinclair.edu)

Like us  
on  
Facebook!

Find news  
and  
updates  
from  
Dayton



# Membership

## Welcome New Members

No New Members

### Transfer-In Members:

Sheila Sagerer  
Alan Carney

## Membership Recognition

### 10-Year

Ken Elrich

## ATTENTION Student Members!

Apply for a Dayton Chapter ASHRAE Scholarship.

See Details and Application on Page 8.

Now is a Good Time to Get  
Involved in ASHRAE!

***Go National...***

**Apply for Membership on a  
Technical Committee!**

*ASHRAE welcomes new members to its technical committees.*

To be considered for technical committee membership, you must:

- ◆ Notify ASHRAE staff at [TCStaff@ashrae.net](mailto:TCStaff@ashrae.net) of your interest in a particular TC, TG, TRG, or MTG.
- ◆ Create or update your ASHRAE biographical record under the "Manage Your Membership" link from the ASHRAE Web site.

# Research Promotion Honor Roll

## *Individuals*

### *HONORS (\$100 or more)*

*Steven A Coppock  
Jeremy P Fauber  
Thomas J Ferdelman  
Larraine Kapka  
Mike Kennedy  
Nathan Lammers  
Thomas E Mastbaum*

*Robert A Mauro  
Steven N Meier  
Evan Nutt  
Sumeta Sachdeva  
Bryan W Schenck  
Samuel T Tobias*

### *BRONZE (\$150 or more)*

*Helmig & Lienesch LLC*

### *PLATINUM (\$1,000 or more)*

*Dayton ASHRAE*

# Research Promotion News



Currently, we have achieved

**31.3% (\$5,434 of \$17,306)**

**of our yearly goal**

**Make YOUR donations by following the directions on Page 6.**

# ASHRAE

## News!

### Design Build Sessions Offered by ASHRAE at AHR Expo

ATLANTA – Four sessions focused on design build are being offered for free at the AHR Expo as part of the ASHRAE 2016 Winter Conference.

The Conference takes place Jan. 23-27, Orlando Hilton, while the ASHRAE co-sponsored AHR Expo takes place Jan. 25-27, next door at the Orange County Convention Center. To register for the ASHRAE Conference, which includes free access to the Expo, visit [www.ashrae.org/orlando](http://www.ashrae.org/orlando). Information about the Expo can be found at [www.ahrexpo.com](http://www.ahrexpo.com). The Technical Program features eight tracks, some 100 sessions and more than 300 speakers. It runs Sunday, Jan. 24 through Wednesday, Jan. 27, and offers over 200 Professional Development Hours, as well as Continuing Education Units, which can be applied toward a Professional Engineering license in many states, including the state of Florida.

Four sessions are being offered at no cost at the AHR Expo. The three seminars and one workshop are all part of the Design Build track.

“ASHRAE is always looking for opportunities to improve the Technical Program, and at the same time, to include the theme of the Society president,” Jennifer Leach, Conference chair, said. “ASHRAE President David Underwood spent much of his career as a design-build contractor and suggested the Design Build track. Offering these programs at the Expo is a win-win given its close proximity to ASHRAE Conference at the hotel next door. ASHRAE gets an opportunity to reach out to its contractor members and engineers now have another reason to attend the Expo.”

The sessions are:

- Don't Call it a Comeback! The New and Improved Design-Build Survival Guide, 11 a.m.- noon, Tuesday, Jan. 26. ASHRAE published its “Survival Guide to Design-Build” in 2004. Since that time, the design build delivery method has exploded. In this seminar, speakers provide a first look at the new, improved and updated Design-Build Survival Guide.
- Avoiding Pesky Pitfalls Integrating Seismic and Sound Control, 1-2 p.m., Tuesday, Jan. 26. This session addresses the advantage of integrating seismic compliance and sound control early in the design build process. Design of building systems for seismic, wind, sound and vibration control generally occurs later in the project, with the feeling that it is not essential to the design of the HVAC, controls, electrical or other system. However, when this seemingly non-essential item is overlooked, the cost to meet code compliance and/or owner demands often becomes more than budgeted. Speakers discuss how to avoid these pitfalls.
- Design-Build for DDC: Yes, It Works! No, It Doesn't! A Healthy Debate by Two Experts, 2:30-3:30 p.m., Tuesday, Jan. 26. Those who recommend design build for every situation need to be careful. When it comes to direct digital controls (DDC), design build may not be the best solution. Some general contractors claim that the controls subcontractor is no different than the drywall subcontractor, and if a design build delivery method works for one, it should work for all. One speaker in this session feels strongly that a design build scenario is the best solution for today's DDC systems, while the other speaker begs to differ.
- How Does the Criterion Engineer's Role Affect the Design Build Contractor's and Design Build Engineer's Roles

during All Phases of a Design Build Project?, 3:45-5:15 p.m., Tuesday, Jan. 26. Building owners often retain a criterion engineer to establish the initial design criteria for a project. The engineer creates documents that are handed off to a design build contractor. After this, the role of the engineer can vary. This seminar discusses issues that can arise as the owner and design build contractor interpret the bridging documents and how open or closed a line of communication is with the engineer during all phases of a design build project.

ASHRAE, founded in 1894, is a global society advancing human well-being through sustainable technology for the built environment. The Society and its more than 54,000 members worldwide focus on building systems, energy efficiency, indoor air quality, refrigeration and sustainability. Through research, standards writing, publishing, certification and continuing education, ASHRAE shapes tomorrow's built environment today. More information can be found at [www.ashrae.org/news](http://www.ashrae.org/news).



## 2015-2016 ASHRAE RESEARCH PROMOTION Dayton, OH ASHRAE

**2014-2015 saw ASHRAE continue its leadership in developing standards and guidance for the design, operation and maintenance of healthy, energy efficient buildings.**

**The HVAC Industry gives us all our livelihood. ASHRAE's research and educational programs are what keeps our industry and professions on the leading edge and assures its continued existence. Confident that you will recognize the benefits of this investment, we are asking you to help fund future HVAC&R research and development by donating this year. Thanks so much for your help in advance!**

### Together we can all make a difference!

Amount Enclosed:    \_\_\_\$500    \_\_\_\$250    \_\_\_\$150    \_\_\_\$100    \_\_\_\$100    \_\_\_\$50

\$\_\_\_\_\_ Other (Please Specify)

Name: \_\_\_\_\_

Street Address:  
\_\_\_\_\_

City/State/Zip: \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

Phone Number: (\_\_\_\_) - \_\_\_\_\_

Member Number (if known):  
\_\_\_\_\_

Donation in Memory of: \_\_\_\_\_

Do you wish to be recognized in the Dayton ASHRAE Newsletter as a Contributor? \_\_ YES \_\_ NO

Please Mail this completed form with your check to:

ASHRAE Dayton Chapter  
ATTN: Research Promotion  
P.O. Box 3202



**Dayton Chapter ASHRAE**[daytonashrae.org](http://daytonashrae.org)

Please select:

 Local member (\$95)       Local student member (\$30)

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 Your Name
 

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 Home Address
 

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 City

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 State

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 Zip

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 Home Phone

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 (    )    -    \_\_\_\_\_  
 Alternate Phone

---

 Home e-mail address

---

 Alternate e-mail address

Student members only:

**Student:** School \_\_\_\_\_ Degree \_\_\_\_\_ Approximate Graduation Date \_\_\_\_\_

**SEND NEWSLETTER TO:**      Home email address      Alternate 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    Website

 CTT (Refrigeration; Technical, Energy & Government; Programs)    Golf Outing    Communication

**Dayton Chapter dues for the Society year beginning July 1, 2014 and ending June 30, 2015.**

**Full member: \$95 per year includes 6 lunch/dinner meetings and the holiday party.**

**Student member: \$30 per year includes 6 lunch/dinner meetings (excludes holiday party).**

**Please return this application and a check or money order in the amount of \$95 (member) or \$30**

**(student member) made payable to Dayton ASHRAE to:**

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



## \$1000 SCHOLARSHIP

### Dayton Chapter

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

#### STUDENT APPLICATION FOR ASHRAE / DAYTON CHAPTER SCHOLARSHIP

(Please Type)

Name of Student: \_\_\_\_\_ Date of Birth: \_\_\_\_\_  
Mo. Day Year

Permanent Address: \_\_\_\_\_  
\_\_\_\_\_

Phone: \_\_\_\_\_ E-Mail Address: \_\_\_\_\_

Name of and Family Relationship to Dayton Chapter Member: \_\_\_\_\_  
OR

Student ASHRAE number \_\_\_\_\_

Student's Country of Legal Residence: \_\_\_\_\_

College/University Attending: \_\_\_\_\_

Major and Minor (if applicable) Field of Study: \_\_\_\_\_

Student's Year in College: \_\_\_\_\_

Indicate expected month and year of college graduation: \_\_\_\_\_

Signature \_\_\_\_\_ Date: \_\_\_\_\_

The following attachments must be included:

1. A personal recommendation from a faculty member of the school that the student is attending that describes the student's academic standing, character, and contribution to the Industry.
2. Current transcript including grades from most recent Fall Term (an unofficial transcript is acceptable).
3. A 100-200 Word Statement from the student explaining why the student wishes to study a discipline that relates to the Construction Industry.
4. List of Activities / Outside of the Industry and University
5. List of Activities associated with Industry and/or University
6. List the Degree(s) for which the scholarship will apply

**Application must be postmarked by January 31 of the application year or submitted electronically.  
Mail should be sent to:**

**ASHRAE, Dayton Chapter  
PO Box 3202  
Dayton, OH 45401**



# ASHRAE Learning Institute

## Seminars & Courses at ASHRAE's Winter Conference in Orlando, FL

### 2 WAYS TO REGISTER

Internet: [www.ashrae.org/orlandocourses](http://www.ashrae.org/orlandocourses)

Phone: Call 1-800-527-4723 (US and Canada) or 404-836-8400 (worldwide)

### Full-Day Professional Development Seminars

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

#### Commercial Building Energy Audits

Saturday, January 23, 2016 – 8:00 a.m. to 3:00 p.m.

#### Energy Modeling Best Practices and Applications

Tuesday, January 26, 2016 – 9:00 a.m. to 4:00 p.m.

#### Commissioning Process in New & Existing Buildings

Saturday, January 23, 2016 – 8:00 a.m. to 3:00 p.m.

#### Operations & Maintenance of High-Performance Buildings

Tuesday, January 26, 2016 – 9:00 a.m. to 4:00 p.m.

#### Designing HVAC Systems to Control Noise & Vibrations

Saturday, January 23, 2016 – 8:00 a.m. to 3:00 p.m.

### Half-Day Short Courses

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

#### Laboratory Design: The Basics and Beyond

Sunday, January 24, 2016 – 3:30 p.m. to 6:30 p.m.

#### Advoiding IAQ Problems

Monday, January 25, 2016 – 2:45 p.m. to 5:45 p.m.

#### Troubleshooting Humidity Control Problems

Sunday, January 24, 2016 – 3:30 p.m. to 6:30 p.m.

#### Commissioning Process & ASHRAE Standard 202

Monday, January 25, 2016 – 2:45 p.m. to 5:45 p.m.

#### Understanding & Designing Dedicated Outdoor Air Systems

Sunday, January 24, 2016 – 3:30 p.m. to 6:30 p.m.

#### Complying with Standard 90.1-2013: HVAC/Mechanical

Monday, January 25, 2016 – 2:45 p.m. to 5:45 p.m.

#### Variable Refrigerant Flow System Design & Applications **NEW!**

Sunday, January 24, 2016 – 3:30 p.m. to 6:30 p.m.

#### Evaluation and Control of Legionella in Building Water Systems **NEW!**

Monday, January 25, 2016 – 2:45 p.m. to 5:45 p.m.

#### Air-to-Air Energy Recovery Applications: Best Practices

Monday, January 25, 2016 – 8:30 a.m. to 11:30 a.m.

#### Exceeding Standard 90.1-2013 to Meet LEED Requirements

Monday, January 26, 2016 – 9:00 a.m. to 12:00 p.m.

#### Applications of Standard 62.1-2013

Monday, January 25, 2016 – 8:30 a.m. to 11:30 a.m.

#### IT Equipment Design Evolution & Data Center Operation Optimization

Monday, January 26, 2016 – 9:00 a.m. to 12:00 p.m.

#### Building Demand Response & the Coming Smart Grid

Monday, January 25, 2016 – 8:30 a.m. to 11:30 a.m.

#### Designing High-Performance Healthcare HVAC

Monday, January 26, 2016 – 1:00 p.m. to 4:00 p.m.

#### Energy Management Best Practices

Monday, January 25, 2016 – 8:30 a.m. to 11:30 a.m.

## ASHRAE HVAC Design Training

### 2 Courses, 5 Days of Intense Instruction

Atlanta • Halifax • Hong Kong • Houston

Kuala Lumpur • Miami • Minneapolis • Vancouver

### **HVAC Design: Level I – Essentials** - Registration is \$1,264 (\$1,009 ASHRAE Member)

Gain practical skills and knowledge in designing and maintaining HVAC systems that can be put to immediate use. The training provides real-world examples of HVAC systems, including calculations of heating and cooling loads, ventilation and diffuser selection using the newly renovated ASHRAE Headquarters building as a living lab.

### **HVAC Design: Level II – Applications** - Registration is \$854 (\$699 ASHRAE Member)

*HVAC Design: Level II — Applications* provides instruction on HVAC system design for experienced HVAC designers and those who complete the HVAC Design: Level I – Essentials training. The training provides information that allows practicing engineers and designers an opportunity to expand their exposure to HVAC systems design procedures for a better understanding of system options to save energy.

Visit [www.ashrae.org/hvactraining](http://www.ashrae.org/hvactraining) to register.