



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

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

Research Promotion Night Student Night

ASHRAE Advanced Energy Design Guides

Merle McBride, ASHRAE Distinguished Lecturer

Tech Session: Lew Harriman, ASHRAE Distinguished Lecturer
Speaker Bios attached.

Monday, November 12, 2012

5:00 Tech Session—Humidity control with Lew Harriman

5:30 Social

6:15 Dinner

7:00 ASHRAE Advanced Energy Design Guides

FREE for local members and students

All others \$20 at the door

Engineer's Club of Dayton
110 East Monument Avenue

**RSVP by November 8, 2012, 12 noon to
Jeremy Fauber at JPFauber@heapy.com or 224-0861**

COMING EVENTS:

- ◆ November 12 November Dinner Meeting
- ◆ November 21 Board Meeting at Heapy Engineering, 8 AM
- ◆ December 10 December Lunch Meeting

ASHRAE

2012-2013 OFFICERS

President

Jason Gillespie 313-8843
 Point-to-Point Systems
jasondavidgillespie@gmail.com

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 Waibel Energy Systems
Kyle.kurtz@trane.com

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A Note from the President:

Fall is a great time of year. The leaves are changing, the sweltering heat is behind us (maybe), and election season (and all that comes with it) is almost over. The best is yet to come, as we move toward the holiday season, a great time to spend time with our families.

I would like to thank everyone that was able to join us at our October meeting with ASHRAE Distinguished Lecturer David Underwood. I'd also like to thank Jake and Jessica of Heapy Engineering for presenting an excellent tech session!

Looking forward, we have our November meeting, which will consist of a panel discussion of 189.1 moderated by Bruce Knapp. We will have two ASHRAE Distinguished Lecturers sitting on the panel, so it should be a great discussion. Mr. Lew Harriman will be presenting a tech session on humidity control before the main meeting, so come early if you can. In December we will have Jack Connell of Honeywell coming in to present a controls topic, so look for more information on that soon!

I know many of you utilize our [Dayton ASHRAE website](#) already, but did you know that we have a [Facebook](#) page as well?

Just a reminder that ASHRAE offers many training programs and opportunities throughout the year; see the pages attached to this newsletter for more information. I will be looking for members who are wanting to serve on our Community Sustainability Project Committee to sign up with their contact info before the next meeting as well. We are getting a great response from the UD student chapter and I'd like to get the ball rolling with our members as well. See me before the meeting to sign up!

And don't forget that November is both Research Promotion and Student night—be sure to make our students feel welcome!

Have a great month,

Jason Gillespie, President, Dayton ASHRAE

Research Promotion Notes:

Final Research Promotion Statistics for 2011-12:

New all time high: \$13,244.65

See the final honor roll for 2011-2012 attached.

Time to start the “One more” campaign for 2012-2013:



- ◆ One more Company (last year there were 11)
- ◆ One more individual (last year there were 23)
- ◆ One more dollar (or more) from each contributor

\$5226.76 to date for 2012-13!

The Dayton Chapter has approximately 180 assigned members, with 50-60 who regularly attend meetings. Can't you “give back” even a little to the organization that provides your livelihood?

Upcoming opportunities:

- ◆ **Full Circle: All board members contribute \$100 each by November 1st** ✓
- ◆ **November Research Promotion Meeting: Make a special contribution of \$20 that night and proudly wear an “I support ASHRAE Research” sticker.**

See the new 2012-2013 research promotion honor roll attached!

Program: ASHRAE Advanced Energy Design Guides

ASHRAE has published ten Advanced Energy Design Guides for a variety of buildings, including offices, retail, schools K-12, warehouses, highway lodging and healthcare facilities that achieve 30% to 50% energy savings relative to ASHRAE Standard 90.1. These guides provide simple prescriptive recommendations that can be used to achieve LEED certification in lieu of detailed simulations. The presentation will cover the development process, explain how the recommendations were set, review specific construction details related to the envelope, lighting and HVAC and conclude with the energy savings that were achieved.

Featured Speaker:

Merle F. McBride, Ph.D., P.E., Senior Research Associate, has been at the Owens Corning Center of Science and Technology for 36 years. He received his degrees in Mechanical Engineering from The Ohio State University and is a registered professional engineer in Ohio. His technical focus has been on the energy performance of residential and commercial buildings which he has used in the development of U.S. energy codes and standards. Dr. McBride has been an active member in ASHRAE at the national level since 1976, has served on several Technical Committees, was a contributing author to handbook chapters and served ten years on the Standards Committee. His current committee appointments include: Standards 90.1, 90.2 Chairman and 189.1. He has been on all ten of the ASHRAE Advanced Energy Design Guide committees. Dr. McBride has 50 technical publications, was awarded two U.S. patents, and received multiple awards from ASHRAE and industry.

Tech Session Speaker:

Lew Harriman, FASHRAE, Director of Research at Mason-Grant Consulting in Portsmouth, NH. He has 35 years of experience researching and solving problems related to energy, humidity and moisture in buildings and industrial processes. In recognition of his professional accomplishments, in 2010 Lew was elected a Fellow of ASHRAE.

Lew was the lead author and project manager for the *ASHRAE Humidity Control Design Guide*, and also for the *ASHRAE Guide for Buildings in Hot & Humid Climates*. He serves as Chair of ASHRAE Technical Committee 1.12 (Moisture Management in Buildings), and also as Chair of the Document Revision Committee for the ASHRAE Position Document titled: Limiting Indoor Mold and Dampness in Buildings.

Lew received his degree in Visual studies/Architecture from Dartmouth in 1971, where he also served as a Spanish language instructor. He served five years in the U.S. Air Force as a Captain in the Engineering & Services Division of the Headquarters, Strategic Air Command, and ten years working as application engineer and new markets manager for an international manufacturer of precision dehumidification systems. For the last 25 years, Lew has been a building science consultant, building forensic investigator, researcher, lecturer and author. He has lectured on the topics of humidity control design and trouble shooting, ventilation system design, building moisture management, infrared analysis of building systems, mold prevention and building energy retrofits for architects, engineers, contractors and building operators throughout North America, Europe and Asia.

Dayton History Returns!

Over the years I have been attempting to write two history items covering each year of local ASHRAE History from 1959 to the present 2013. One is the original Standard one page Time Line History covering names and employment of all Chapter Officers, Board Members, Committee Chairs and those with Major ASHRAE job Responsibilities. These are the people that keep the local ASHRAE Dayton Chapter operating at the high quality of service to which we are all accustomed. They are also the ones responsible for the Dayton Chapter receiving the yearly ASHRAE PAOE (Presidential Award of Excellence) given by Society to chapters performing at or above the standard of excellence. Also included in the Time line History is the information on each Technical session and Technical program including title and speakers name and employment, CRC information and PAOE Information. The up dated Time line for 2011-2012 is attached.

The other history is the newer verbal yearly history, covering the Local Chapter President for each year starting in 1959 and forward to about 1990. This history contains some information on his or her year as President and history information covering their place of employment. To date we only have information for years 1959 to 1990.

I am going to try to have a history item in each remaining monthly newsletter.

Tom Ferdelman, Historian.



**ASHRAE
Research
Needs You -
Contribute
Today!
(See page 9 for
a contribution
form!)**

Free!

SAVE THE DATE

April 18, 2013, 1:00 pm - 4:00 pm EDT

FREE ASHRAE Webcast

*Assessing Building Energy Performance:
From Principles to Practice*

Free!

Join ASHRAE at its 2013 Winter Conference and the AHR Expo®!

Jan. 26-30/Jan. 28-30, Dallas

Register before
Nov. 4 and **SAVE!!!**



www.ashrae.org/dallas

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

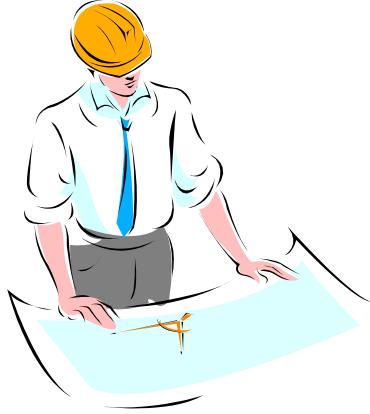
Virtual Conference—if you can't make it to Dallas, take advantage of the knowledge shared in the technical program with the Virtual Conference

AHR Expo—The ASHRAE co-sponsored AHR Expo takes place Jan. 28-30 at the Dallas Convention Center. 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 15 Short Courses are offered, including new courses on the air-to-air energy recovery, ultraviolet germicidal irradiation systems, combined heat and power efficiency, laboratory design and HVAC systems optimization.

Looking for my next Opportunity!



I am a Level II Mechanical Engineer seeking an H.V.A.C. system design position in educational, healthcare, and commercial construction consulting or as a component design engineer for mechanical system products. I graduated from Wright State University in March 2009 with a B.S.M.E., which included machining, material selection, and human factors engineering as technical-elective coursework. My software skills include AutoCAD, Revit MEP, COMcheck, Trane Trace 700, Adobe products, and Microsoft Office

Suite products.

Formerly with KLH Engineers, PSC, I have three years of engineering design and construction administration experience with projects ranging from residential equipment, fan coils with dedicated outdoor-air systems, and packaged rooftop units to variable air volume, air handling units and hot water boiler replacements. I also possess another five-plus years experience with mechanical system phasing, technical drawing, instructional writing, system detailing, and quality-check reviewing.

After a student membership and frequently attending presentations, I joined the A.S.H.R.A.E. Dayton Chapter in the spring of 2012 and I am now working with the membership committee for the upcoming calendar year. In addition to representing my firm at industry events, my efforts with the Dayton Regional S.T.E.M. Center as an Industry Fellow and with various neighborhood volunteering efforts have allowed me to boost my organization's regional awareness over the past three years.

For a full résumé and list of references please contact me at:

Eric Heinrich

ehein.83@gmail.com

(216) 225-2345 (cellular phone)



\$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 the construction industry.
2. Member of Dayton Chapter of ASHRAE (paying local dues) and their immediate family members, or Student ASHRAE member.
3. Have completed 12 quarter hours or semester hours towards their degree.

Application Available at www.daytonashrae.org

Questions? Lorraine.Kapka@Sinclair.edu

Application Must be Postmarked by January 31, 2013



Please help ASHRAE promote the availability of **more than 20 Society scholarships** for the 2013–2014 school year, available to high school seniors entering college through senior undergraduate engineering students.

Two High School Senior Scholarships—\$3,000 each

Applications due May 1, 2013

Three Engineering Technology Scholarships—\$3,000 each

Applications due May 1, 2013

Six Regional and University-Specific Scholarships—\$3,000–\$5,000 each

Applications Due December 1, 2012

11 Undergraduate Engineering Scholarships—\$3,000–\$10,000 each

Applications Due December, 2012

Scholarships are awarded for the academic year following the application deadline beginning with the fall semester. For a list of available scholarships, complete eligibility requirements, and an application, visit www.ashrae.org/scholarships

Now is a Good Time to Get More Involved in ASHRAE!

Go National!

Applying 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 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
- ◆

Please note:

If you do not have an ASHRAE ID, are or not applying for ASHRAE membership, and are applying for a position that requires an ASHRAE bio to be on file, please [click here](#) to request an ID and PIN. You may also use that link if you already have an ASHRAE ID as a non-member, but you do not have a record of what that number is. You will immediately be assigned as a Provisional Corresponding Member. The acceptance of provisional corresponding membership implies participation in committee activities through correspondence or in-person involvement. Provisional corresponding members serve 2 year terms. Although provisional corresponding members are not voting members, at the end of your term and based on participation in the committee, you may be considered for future voting membership. Notification of acceptance to a TC is emailed upon your appointment.

Stay Local!

See page 8 for local opportunities or contact any Board member (listed on page 2).

Dayton ASHRAE Needs You!



Wanted: Individuals to step up and work on the Dayton Sustainability Project.

Qualifications: Willingness to work with others to set up his year's sustainability project.

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.

Wanted: Newsletter editor to work with Lorraine Kapka and maybe assume full responsibility next year.

Qualifications: Access to Publisher and Adobe Acrobat a necessity. Takes just a few hours a month. Will train if you have the software.

Each of these positions requires just a few hours a month. Please contact President Jason Gillespie (jasondavidgillespie@gmail.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 Jason Gillespie at:

Jasondavidgillespie@gmail.com

2012-2013 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: Jodi Scott, Public Relations
678-539-1140
jscott@ashrae.org

October 19, 2012

Additional Compliance Path Proposed for ASHRAE/IES Energy Standard

ATLANTA – A proposed optional third path for compliance with the ASHRAE/IES energy standard would provide more flexibility for the industry.

Addendum bm to ANSI/ASHRAE/IES (Illuminating Engineering Society) Standard 90.1-2010, Energy Standard for Buildings Except Low-Rise Residential Buildings, is currently open for public review from Oct. 12 until Nov. 26, 2012. For more information, visit www.ashrae.org/publicreviews.

The proposed addendum would add a compliance path to Standard 90.1 to allow modeling in accordance with Appendix G (Performance Rating Method), provided the percentage improvement of at least 45 percent over a baseline design. In addition, this addendum proposes to make the baseline consistent with the prescriptive requirements of 90.1-2004, and it will remain that way in future versions of the standard.

The current paths in the standard – the Energy Cost Budget method and the Performance Rating Method – can lead to different modeling protocols for different functions, according to Michael Rosenberg, a member of the Standard 90.1 committee. All require slightly different rules, and a single project could require two or more different baselines.

"By allowing an additional compliance option, the standard provides more credit for integrated design resulting in energy savings such as efficient use of building mass, optimized building orientation, efficient HVAC&R system selection and right sizing of HVAC&R equipment," Rosenberg said.

The baseline could stay the same for beyond code programs as well such as the U.S. Green Building Council's (USGBC) Leadership in Energy and Environmental Design (LEED®) rating program, ANSI/ASHRAE/USGBC/IES Standard 189.1, Standard for the Design of High-Performance, Green Buildings Except Low-Rise Residential Buildings, and the federal tax incentive programs. Each simply chooses their own "% better than" target, according to Rosenberg.

"In addition, the performance path will no longer lag behind the prescriptive path as in the past it was not possible to incorporate prescriptive changes that occurred near publication date into the performance path," he said. "It also allows for a deliberate and consistent trend for energy reduction in each version of the standard, instead of just following the prescriptive path."

ASHRAE, founded in 1894, is a building technology society with more than 50,000 members worldwide. The Society and its members focus on building systems, energy efficiency, indoor air quality, refrigeration and sustainability within the industry. Through research, standards writing, publishing and continuing education, ASHRAE shapes tomorrow's built environment today.

###

The Only Specialty
Jobs Board for
HVACR Engineers

ASHRAE
Jobs

Welcome to ASHRAEJobs.com
Your source for HVACR
Engineering Careers





Dayton Chapter ASHRAE

<http://www.daytonashrae.org>

Membership Application and Roster Information 2012 - 2013

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, 2012 and ending June 30, 2013 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!

DAYTON CHAPTER ASHRAE HISTORY			2011/12
PRESIDENT	Steve Meier	Wat-Kem Mechanical	
PRESIDENT ELECT	Jason Gillespie	Point to Point	
VICE PRESIDENT	Vacant		
SECRETARY	Jake Tayler	Heapy Engineering	
TREASURER	Kyle Kurtz	Waibel Energy Systems	
BOD, Past Pres	Rick Pavlak	Heapy Engineering	
BOD	Jeremy Fauber	Heapy Engineering	
BOD	Greg Cohron	Ramsay Cohron	
BOD	Lorraine Kapka	Sinclair College	
Student Activities	Russell Marcks	Sinclair College	
Research Promotion	Dennis Lammlein	Singnature Technologies	
Membership	Greg Cohron	Ramsay Cohron	
Chapter Tech Transfer	Jeremy Fauber	Heapy Engineering	
Historian	Tom Ferdelman	Heapy Engineering	
News Letter	Lorraine Kapka	Sinclair College	
Home Page	Russell Marcks	Sinclair College	
Internet E-Mail	Jeremy Fauber	Heapy Engineering	
General Information			
Meeting's were held at the Dayton Engineers Club unless stated			
2011-2012	CRC	Indianapolis	attended by
		Tom & Marilyn Ferdelman, Rick Pavlak, Matt Herbert, Greg Cohron	
		Jeremy Fauber, Denny Lammliein, Steve Meyer, Jason Gillespie	
Regional Director		Lee Millies	
See History Detail file Cabinet Book for Board Meeting Minutes and Monthly News Letters			
PROGRAMS			
9/13/2010	Lunch	Young Engineers in ASHRAE	Primary Secondary/ Variable Primary
		Technical Program	Chilled water Control Sequences
10/10/2011	Dinner	Technical Session	Psychrometrics Revisited
		Creg Cohron	
		Technical Program	ASHRAE 90.1 Control Working Group Discussions
		Darryl De Angelis	Belimo America Standard 90.1 member
11/14/12	Dinner	Technical Session	Water Treatment 101
		Tom Mastbaum S	R
		Technical Program	Condenser Heat Recovery
		Jerry Laumann	Johnson Controls
12/12/2011	Lunch	Technical Session	Steam Powered Condensate Pumps
		James Tauby Ashrae Distinguised Lecturer	
		Technical Program	Seismic restraint of Mechanical systems
		Mike Sneary Kadant Johnson	
1/13/12	Dinner	Tour & Technical Meeting	Dayton Packard Museum
2/7/2012	Dinner	Technical Session Part 1	Standard ASHRAE Standard 189.1
		Technical Program Part 2	Merle McBride Phd Owens Corning
3/8/2012	Dinner	Technical Program	Milton Union's Energy efficient School
		Waible Energy Systems (Trane	
4/9/2012	Dinner	Technical Session	Utility Updates DP&L & Vectren
		Technical Program	Emerson Climate Technologies
5/10/2012	Golf Outing	Heatherwood Springboro Golf Club	
		Dinner and Golf \$100.00	
8/10/2012		CRC Cleveland Technical Program 57 Story Key Tower	
	2 Hr Tour		
RECEIVED PAOE	Presidential Award Of Excellence		
	High Honor Award,Star,Special Citation		



Research Promotion Honor Roll 2011-12

Corporations

PLATINUM (\$1000 or more)

Emerson Climate Technologies, Inc.

Dayton ASHRAE Chapter

GOLD (\$500 or more)

Waibel Energy Systems

SILVER (\$250 or more)

Controlled Air, Inc.

Uptime Solutions

BRONZE (\$150 or more)

Allied Supply Company, Inc.—Dayton

Individuals

HONORS (\$100 or more)

Jim Davidson

Jeremy Fauber

Joe Ferdelman

Tom Ferdelman

Jason Gillespie

Sidney Hagan

Dennis Helmig

Lorraine Kapka

Kyle Kurtz

Dennis Lammlein

Frank Mauro

James McCabe

Colin MacKenzie

Russ Marcks

Steven Meier

John Patterson

Richard L Pavlak

John Stewart

Mark Rapier

John Stewart

Jake Taylor

HONORABLE MENTION

Contech Design

Tom Monnig

Watkem

Evan Nutt

Richard B. Pavlack



Research Promotion Honor Roll 2012-13

Corporations

PLATINUM (\$1000 or more)

Dayton ASHRAE Chapter

GOLD (\$500 or more)

SILVER (\$250 or more)

BRONZE (\$150 or more)

Allied Supply Company

Individuals

HONORS (\$100 or more)

Jeremy Fauber

Russ Marcks

Jason Gillespie

Steven Meier

Lorraine Kapka

Evan Nutt

Michael Kennedy

Bob Patterson

Kyle Kurtz

Jake Taylor

Dennis Lammlein

HONORABLE MENTION

Steffens-Schultz



\$500 SCHOLARSHIPS*

Dayton Chapter

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

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 the construction industry.
2. Member of Dayton Chapter of ASHRAE (paying local dues) and 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, 2012 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 a discipline related to facility construction, operation or management.
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, 2013**

*Up to two scholarships will be awarded.

Concurrent with the ASHRAE Winter Conference . . .



**FREE
REGISTRATION**
www.ahrexpo.com

SHOW HIGHLIGHTS

- Over 1,700 Exhibitors
- 70+ Educational Presentations
- Hundreds of New Products
- Special emphasis on new technologies promoting energy efficiency and sustainability
- 2013 AHR Expo Innovation Awards

Expo co-sponsored by ASHRAE and AHRI and held at the Dallas Convention Center, Dallas, TX.

ASHRAE Learning Institute

Seminars & Courses at ASHRAE's Winter Conference and AHR Expo in Dallas, TX

2 WAYS TO REGISTER

Internet: www.ashrae.org/dallascourses

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

Full-Day Professional Development Seminars

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

The Commissioning Process in New & Existing Buildings

Saturday, Jan 26 – 8:00 a.m. to 3:00 p.m.

Complying with Standard 90.1-2010

Tuesday, Jan 29 – 9:00 a.m. to 4:00 p.m.

Data Center Energy Efficiency

Saturday, Jan 26 – 8:00 a.m. to 3:00 p.m.

Energy Modeling Best Practices and Applications:

HVAC/Thermal

Tuesday, Jan 29 – 9:00 a.m. to 4:00 p.m.

Healthcare Facilities: Best Practice Design & Applications

Saturday, Jan 26 – 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

Air-to-Air Energy Recovery Fundamentals

Sunday, Jan 27 – 2:00 p.m. to 5:00 p.m.

Commissioning Process & Guideline 0

Monday, Jan 28 – 2:45 p.m. to 5:45 p.m.

Humidity Control: Applications, Control Levels and Mold Avoidance

Sunday, Jan 27 – 2:00 p.m. to 5:00 p.m.

Evaluating the Performance of LEED®-Certified Buildings

Monday, Jan 28 – 2:45 p.m. to 5:45 p.m.

Air-to-Air Energy Recovery Applications: Best Practices

Monday, Jan 28 – 8:30 a.m. to 11:30 a.m.

Optimization of HVAC Systems & Components:

Techniques & Real-World Examples

Tuesday, Jan 29 – 9:00 a.m. to 12:00 p.m.

Application of Standard 62.1-2010:

Multiple Spaces Equations & Spreadsheet

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Gain practical skills and knowledge in designing, installing 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

Developed by industry-leading professionals, the workshop provides participants with advanced level information about designing, installing and maintaining HVAC systems that can be put to immediate use. Participants will gain an in-depth look into Standards 55, 62.1, 90.1, and 189.1 and the Advanced Energy Design Guides, as well as a range of other HVAC topics including: HVAC equipment and systems; energy modeling; designing mechanical spaces; designing a chiller plant; and BAS controls.

Visit www.ashrae.org/hvacdesign to register

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Registration is \$1239, \$989 (ASHRAE Member)

Enroll 3 or more participants from the same company and save!



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Registration is \$829, \$679 (ASHRAE Member)

Enroll 3 or more participants from the same company and save!

Visit www.ashrae.org/hvacdesign to register



SOCIETY UPDATES

October 2012

Applications Now Being Accepted for HVAC Design Scholarship

The ASHRAE Learning Institute is hosting a three-day HVAC Design Essentials Training that allows attendees to gain the fundamentals and technical aspects to design, install and maintain HVAC systems. The workshop will be held January 14 – 16, 2013 at ASHRAE Headquarters in Atlanta.

To encourage attendance by young professional ASHRAE members, the YEA Institute offers one full scholarship for attendance to the HVAC Design Level I Training: Essentials. The full cost of registration to Level I of this workshop will be covered by ASHRAE.

Criteria: All applicants must be ASHRAE members and 35 years of age or younger as of January 31, 2013 (*student members are not eligible*). Applicants will be reviewed based on contribution to the industry, ASHRAE involvement and career goals.



Deadline: All applications must be received by the close of business on Monday, November 12, 2012. Please complete the online application [here](#) and submit to Rhiannon Loomis at Rloomis@ashrae.org or mail to Rhiannon Loomis, 1791 Tullie Circle, Atlanta, GA 30329.

ASHRAE Webcast to Focus on Building Energy Performance

ASHRAE's upcoming webcast, titled **Assessing Building Energy Performance: From Principles to Practice**, will broadcast live on **April 18, 2013, from 1:00 – 4:00 pm EDT**. This **FREE** webcast is brought to you by the Chapter Technology Transfer Committee.

"This webcast will focus on the importance of building energy performance and its far reaching implications in both new and existing buildings," said Andy Cochrane, Chair of the CTTC Webcast Ad Hoc Committee. "This program will help participants to recognize the opportunities that Assessing Building Energy Performance (ABEP) presents. From recognizing the different approaches, team skills, and knowledge needed to properly assess building energy performance, to the application of ASHRAE building audit levels, this webcast will provide viewers with an understanding of ABEP principles and practical application knowledge."



The webcast presenters are: Christopher Mathis, President, MC Squared, Asheville, NC, Drury Crawley, Ph.D., Director of Building Performance, Bentley Systems, Washington, DC and Jim Kelsey, LEED AP, PE, BEAP, Principal, kW Engineering, Oakland, CA.

Online registration for the webcast will begin on March 18, 2013. For more information on the webcast program, sponsorship opportunities, continuing education credits, and ASHRAE resources related to assessing building energy performance, visit www.ashrae.org/ABEPwebcast. If you have questions about the webcast, call 678-539-1200 or email ashrae-webcast@ashrae.org.



Distinguished Lecturer Program Enhances Chapter Meetings

By **Farooq Mehboob – Fellow**

2012-13 Chapter Technology Transfer Committee Vice Chair

Most Chapter Programs are technical in nature and are greatly valued by our members. The Chapter Technology Transfer Committee (CTTC) (www.ashrae.org/cttc) is working to increase member interest and enhance ASHRAE's outreach to allied professions and Societies with more broad-based programs.

CTTC has identified thirteen Distinguished Lecturer's (DL's) who provide twenty-nine presentations highlighting Leadership, Communication, Decision Making, Negotiating, Problem solving, Planning, Ethics, and Project Management.

The list of DL's who present non-technical presentations is available at www.ashrae.org/distinguishedlecturers. Four ASHRAE Presidential Members are among the thirteen DL's who present twenty-nine non-technical topics.

Chapter programs on non-technical subjects provide an excellent opportunity to arrange joint meetings between ASHRAE Chapters and other allied professional Societies. Joint meetings improve ASHRAE's outreach to allied professions while providing excellent networking opportunities for ASHRAE members.

The ASHRAE DL Programs began in Society Year 1996-97. It is administered by CTTC and provides internationally recognized lecturers to local chapters, regions, student branches, and other organizations.

For a complete listing of Distinguished Lecturers and detailed procedures to arrange a presentation, visit www.ashrae.org/distinguishedlecturers. For additional information, contact Tammy Catchings at tcatchings@ashrae.org or 678-539-1123.

Chapter Programs Offer Support for Meetings

The Chapter Technology Transfer Committee (CTTC) aims to develop and maintain high quality and readily available tools to enable ASHRAE Chapters to offer timely and informative industry-related programs to all segments within the HVAC&R industry.

Check out the "Program Resources" Quick Link at <http://www.ashrae.org/cttc> and find great ideas like these: an IAQ Guide Speaker List, an If a Speaker Cancels....guide, an Attendance/PDH Certificate template, an ASHRAE Chapter Program Survey template, and even an Energy Star presentation, just to name a few.



This is the time to finalize plans for your chapter programs calendar for the entire ASHRAE year. Remember, great Chapter Programs empower your chapter, and all of ASHRAE for that matter, to carry out ASHRAE's mission and vision! Contact your CTTC Regional Vice-Chair for more information and additional resources.



Register For the ASHRAE Winter Conference!

Plenary Speaker Tells Story of Perseverance

Have you registered for ASHRAE's 2013 Winter Conference, Jan. 26-30 in Dallas, Texas? **Register by Nov. 4 and save!**

From its strong technical program to the first-hand experiences offered by its technical tours, the ASHRAE Winter Conference gives attendees opportunities for examining and discussing the latest technology. And don't miss Plenary Session keynote speaker Rocky Bleier.

Bleier had just been drafted for the Pittsburgh Steelers in 1968 when he received a different kind of draft: combat duty for Vietnam. Though he was wounded in both legs while fighting overseas, Bleier embarked on a two-year road to recovery, and eventually pressed on to become one of the Steelers' top leading ground-gainers, passing the 1,000-yard rushing mark in one season and contributing to four Super Bowl victories. His speech, "Be the Best You Can Be," motivates audiences to keep on striving for greater accomplishments.

Bleier shares his remarkable story during the Plenary Session, Saturday, Jan. 26. For more information, visit <http://www.ashrae.org/dallas>.



Specialty Conference Brings Important Topic to Attendees

The principal objective of the Seventh International Cold Climate HVAC Conference, Nov. 12-14, 2012 Calgary, Alberta, Canada, is to provide key elements of a strategy by which scientists, designers, engineers, manufacturers and other decision makers in cold climate regions can achieve good indoor environmental quality (IEQ), with a minimum use of resources and energy.

Some 60 peer-reviewed papers presented by diverse, international authors showcase world-wide perspectives and practices in cold climate design. The Scandinavian Federation of Heating, Ventilation and Sanitary Engineering Associations (Scancvac) and the Federation of European Heating and Air-Conditioning Associations (REHVA) are conference co-sponsors. To register, visit www.ashrae.org/ColdClimate

Young Engineers in ASHRAE (YEA) Hosts Hospitality Suite in Dallas

Attention young professional members age 35 and younger! You are invited to visit the YEA Hospitality Suite on Sunday, Jan. 27, from 4-7 p.m. The suite offers social and networking opportunities and light refreshments are served





New Faces of Engineering: College Edition

Encourage a Student to Apply for Scholarship and Recognition

The program recognizes outstanding junior or senior (defined as third, fourth or fifth year) ASHRAE student members enrolled in a Bachelor of Science in Engineering program from an ABET Accredited school who are proving themselves to be leaders in the field of engineering. The winner will receive a \$1000 **scholarship** and have their profile featured on the New Faces of Engineering: College Edition's Facebook page.

Applicants must “like” the New Faces of Engineering: College Edition Facebook page in order to apply.

To apply to be ASHRAE's New Face of Engineering: College Edition, you must:

- be an ASHRAE member
- be a junior or senior (defined as third, fourth or fifth year) engineering student as of Sept. 1, 2011
- be enrolled in a Bachelor of Science in Engineering program from an ABET Accredited school
- answer four short questions about your experience as an engineering student
- submit one professional-quality head and shoulders photo of yourself in business attire. Photos must be high resolution (300 dpi) to ensure the file size is near 1 MB.

ASHRAE's student New Face of Engineering would demonstrate academic excellence, with a GPA of 3.0 or higher, hold leadership positions within university student organizations, have outstanding communication skills, have a record of some non-engineering related community service and have a proven track record of involvement in the engineering industry. The New Face of Engineering will receive a \$1000 scholarship from ASHRAE. More information can be found [here](#).

Grants Promote the Industry and Gain Recognition For Students

The HVAC&R industry is constantly making strides to improve the technology that makes everyday living possible and better. ASHRAE relies on the research and efforts of young engineers and architects to make advances in the field that will make a difference for future generations.

The ASHRAE Senior Undergraduate Grant Program offers students at schools all over the world an opportunity to work on projects that increase their knowledge of the industry. With support and assistance from university faculty, senior undergraduates can work on an ASHRAE-related topic with funding from ASHRAE up to \$5,000 per project.

Applications for the grant must include details about the project and are to be submitted online by faculty in order to be considered. Projects involving the building of working models, testing equipment, experimental teaching aids, and laboratory experiments are encouraged. Grants may cover projects lasting from one academic term up to one year.

The deadline for application submissions is December 17, 2012. Applicants will receive notification of their application status by February 18, 2013. The highest ranking team will be awarded a trip to the 2014 Winter Conference to present their project at the student program. For complete information on the ASHRAE Senior Undergraduate Grant Program, go [here](#).



SOCIETY UPDATES

October 2012

ASHRAE Learning Institute

Seminars & Courses at ASHRAE's Winter Conference and AHR Expo in Dallas, TX

2 WAYS TO REGISTER

Internet: www.ashrae.org/dallascourses

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

Full-Day Professional Development Seminars

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

The Commissioning Process in New & Existing Buildings
Saturday, Jan 26 – 8:00 a.m. to 3:00 p.m.

Complying with Standard 90.1-2010
Tuesday, Jan 29 – 9:00 a.m. to 4:00 p.m.

Data Center Energy Efficiency
Saturday, Jan 26 – 8:00 a.m. to 3:00 p.m.

**Energy Modeling Best Practices and Applications:
HVAC/Thermal**
Tuesday, Jan 29 – 9:00 a.m. to 4:00 p.m.

Healthcare Facilities: Best Practice Design & Applications
Saturday, Jan 26 – 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

Air-to-Air Energy Recovery Fundamentals
Sunday, Jan 27 – 2:00 p.m. to 5:00 p.m.

Commissioning Process & Guideline 0
Monday, Jan 28 – 2:45 p.m. to 5:45 p.m.

**Humidity Control: Applications, Control Levels
and Mold Avoidance**
Sunday, Jan 27 – 2:00 p.m. to 5:00 p.m.

Evaluating the Performance of LEED®-Certified Buildings
Monday, Jan 28 – 2:45 p.m. to 5:45 p.m.

Air-to-Air Energy Recovery Applications: Best Practices
Monday, Jan 28 – 8:30 a.m. to 11:30 a.m.

**Optimization of HVAC Systems & Components:
Techniques & Real-World Examples**
Tuesday, Jan 29 – 9:00 a.m. to 12:00 p.m.

**Application of Standard 62.1-2010:
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