Dayton Chapter | Mar 2016

American Society of Heating, Refrigerating & Air-Conditioning Engineers

PO Box 3202 Dayton, OH 45401

www.daytonashrae.org

2015-2016 OFFICERS

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Danis Construction

Secretary
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Heapy Engineering

Mark Your Calendars

March 16th
Board of Governors
8AM, Heapy Engineering

March 23rd
Joint Association Mixer
5:30-9PM, Dayton Racquet Club

April 11th
Emerson Helix Tour
5-8PM, The Helix

Membership Promotion Night

March 14th, 2016

Desiccant Dehumidification

Patrick Leach

Alfa Laval—KATHABAR Clean Air

Patrick Leach is recognized as an authority on the role of HVAC in Healthcare and Bio-defense. Mr. Leach has been involved in the design and implementation of clinical studies demonstrating the reduction of Healthcare Acquired Infections (HAIs) through application of Ultra Violet Germicidal Irradiation in Hospital HVAC systems. These published studies include Women and Children's Hospital of Buffalo, New York and Georgetown University Hospital in Washington, DC. Mr. Leach has functioned as an invited consultant with government agencies including The White House Office of Science and Technology, the GSA and the Department of Homeland Security.

Mr. Leach has designed and overseen efficacy testing in collaboration with the State University of New York at Buffalo, School of Medicine. The resulting Study demonstrated the efficacy on pathogens associated with HAIs through exposure to desiccant solutions. Currently he is conducting a Study of the application of liquid desiccant dehumidification, LDD, and influence on a Hospital OR.

The resulting Study will demonstrate the germicidal effect of a LDD system and the correlation of documented environmental microbial contamination with OR surgical site infections.

Presentation Will Cover:

Overview of De-Humidification Types (Dry & Liquid)
Specifics of Each De-Humidification Type
Healthcare: Microbial Contamination Control
Liquid Desiccant De-Humidification Studies
Pro-active Technology for Healthcare

Engineer's Club
110 East Monument
Dayton, Ohio 45402

Tech Session: 5:0PM to 6:00PM
Social/Cocktail: 5:30PM to 6:30PM
Presentation to Follow

FREE to All Members and Prospective Members.
$20 to All Others.

RSVP by 2:00PM on 3/11 to JPFauber@heapy.com

Please note any specific food considerations at this time.

Committee Chairs

Membership
JEREMY FAUBER
JPFauber@heapy.com
Heapy Engineering

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Grassroots/YEA
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Wat-Kem Mechanical

Board of Governors

JEREMY FAUBER
Heapy Engineering

RICK PAVLAK
Heapy Engineering

LARRAINE KAPKA
Sinclair Community

A Note from the President:

Spring is right around the corner and we have some exciting events lined up for it! We are aiming to have a couple more Young Engineers of ASHRAE (YEA) events lined up for April and May. If you haven't visited the site www.ashraexchange.org, I recommend you do so. From students to contractors to senior engineers, the forum is a nice way to stay informed with ASHRAE activities and discuss industry topics. If any company would be interested in helping sponsor a happy hour event, we are looking for YEA networking opportunities for dates around Thursday April 21st and May 19th. These dates are flexible. A big thank you to Emerson Climate Technologies for securing their slot as our Platinum sponsor for the 2106 Chapters Regional Conference! Please note the "Save the Date" section for our upcoming group events. The close of our year is fast approaching, which means we will be seeking individuals to fill committee positions within the chapter. We are in specific need of a new Chapter Technology Transfer Chair and Grassroots Advocate Chair to help coordinate our monthly events and speakers. Please consider stepping up and offering your support with a few hours of work a month. If you like where the chapter is headed, help keep it going that way. If you would like to see something different, get involved and help steer a new course. Remember – the chapter is only as strong as its members! Contact next year's President, Nathan Lammers, to express interest or for more information. Don't forget to set your clocks ahead Sunday March 13th!

Mike Kennedy—**President, Dayton ASHRAE**

Remember When... (1983/84)

President:	Jack Putnam	Lorenz & Williams
Vice Pres.:	Mark Rae	Greater Dayton H&C
Secretary:	Mark Stoermer	Stoermer Equipment Co
Treasurer:	Mark Ganser	Trane Co.
BOD:	John Stewart	Greater Dayton H& C
	Dick Wood	Enterprise Roofing & Sheet Metal
Education:	Alan Watton	Sinclair College
Membership:	Dennis Lammlein	Monsanto Research Corp
Res Promotion:	Larry Brelsford	Simplex
Energy Mgmt:	Jack Kolb	Lorenz & Williams
Social Events:	Michael Nauman	Heapy Engineering

Membership

Welcome New Members

The chapter is happy to welcome it's newest members:

Kumar Sivagnanam
Chad Werts **Greg Relue**

Membership Recognition

We would like to recognize the following members who have been with ASHRAE for the following years!

20-Year—Richard Hext
30-Year—Mark Neiheisel
40-Year—Bob Stan

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 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.

Employers!

Have an Open Position?

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

Please inquire for pricing based on ad size and term length.

All proceeds to Dayton ASHRAE Scholarship Fund.

Send inquiries to:
BWSchenck@heapy.com

Like us on Facebook!

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Research Promotion Honor Roll

INDIVIDUALS $100 or more

Steven A Coppock
Jeremy P Fauber
Thomas J Ferdelman
Larraine Kapka
Mike Kennedy
Nathan Lammers
Thomas E Mastbaum
Robert A Mauro
Robert A Mauro
Steven N Meier
Evan Nutt
Sumeta Sachdeva
Bryan W Schenck
Samuel T Tobias
Kyle Schroeder

HONORABLE MENTION $150 or more

Helmig & Lienesch LLC
Allied Supply
J. R. Patterson

ANTIQUE $250 or more

Uptime Solutions Associates

SILVER $1,000 or more

Dayton ASHRAE
Waibel Energy Systems

Research Promotion News

Endowed Research Investment Supported Chapter ASHRAE

Currently, we have achieved

44% ($7,659 of $17,306)

of our yearly goal

Make YOUR donations by following the directions on Page 5.

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.

Funds to accomplish this research are received from members and companies active in the industry. Once again the Dayton Chapter led the way in Region V , submitting a new high of $16,482.

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: _____$1,000_____$500 _____$250 _____$150 _____$100

$_____ 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, OH 45402-3202

ASHRAE News!

ASHRAE Funds 24 Undergraduate Projects; Aerial Vehicle for Energy Audits

ATLANTA – Engineers will get a bird's eye view of the energy use of building envelopes under a project funded through an ASHRAE Undergraduate Senior Project Grant.

This year, 24 schools from around the world were awarded grants. The grants, totaling some $110,000, are awarded by ASHRAE to colleges and universities worldwide to promote the study and teaching of HVAC&R, encouraging senior undergraduate students to pursue related careers.

The grants are used to design and construct projects, such as The University of Alabama's proposal to use an unmanned aerial vehicle to document building energy audits. The project notes that while building audits are a key process for determining building efficiency, performance and faults, audits require knowledge of the internal building and energy system and the external building envelope, which can present a challenge.

"The vehicle would be used to quantify envelope characteristics of hard-to-reach and large regions on modern buildings," Zheng O'Neill, Ph.D., of the Mechanical Engineering Department and advisor of the project, said. "The information will provide engineers with systematically measured control volume characteristics. For example, infrared thermal camera data will provide information of building envelope temperature, which can be used for building infiltration diagnostics."

She will work with Charles O'Neill of the Aerospace Engineering and Mechanics Department for the vehicle development and flight tests.

The goal of the project is to build a co-robot (human controlled with robotic assistance) quadcopter with onboard sensors including infrared temperature camera, visible light camera, heat flux sensors, direct temperature probes and location and orientation.

Other ASHRAE grant recipients are:

- Ryerson University, Toronto, Ontario, Design and Prototyping of a Heat Transfer Enhanced Hybrid Air Based Building Integrated Solar Photovoltaic/Thermal Collector for Net Zero Energy Building Applications
- **Sinclair Community College, Dayton, Ohio, Chiller Control Training Boards**
- Lamar University, Beaumont, Texas, A Laboratory System for Evaluating Cooling Systems in Consumer Electronic Devices
- University of Windsor (Ontario), A Novel Membrane Absorption Heat Pump
- University of Oregon, Eugene, Campus Audit Squads for Energy (CASE) Studies
- Carleton University, Ottawa, Ontario, Evaluation of Office-Level Energy Consumption Using a Sparse Sensor Network
- University of Alabama at Birmingham, Cooling and Electricity from Renewable Compressed Air
- Purdue University, West Lafayette, Ind., HVAC Heat Transfer Experiment and Modelling
- De La Salle University-Manila, Design, Fabrication and Testing of a Laboratory Set-up of an Aqua-Ammonia Absorption System
- University of Santo Tomas, Manila, Philippines, Development of an Ice Storage Air Conditioning System as Laboratory Equipment for Engineer Students of University of Santo Tomas
- Southern Illinois University, Carbondale, Solar Energy PCM Storage combined with Solar-Powered Water Purification
- The University of Texas at Tyler, Auto Self-Balanced Zoning System
- The University of Texas at Tyler, Phase II – TxAIRE House 2 Ground Source Heat Pump
- Capital University of Science and Technology Islamabad, Islamabad, Pakistan, Design and Fabrication of a Heat Pump
- Mapúa Institute of Technology, Manila, Philippines, Improvement of An Indoor Environmental Quality Laboratory
- Mapúa Institute of Technology, Manila, Philippines, Development of a Laboratory Set-Up of a Geothermal Air-Conditioning System
- Texas A&M University - Kingsville, Development of a Miniature HVAC System on Wheel for Classroom Application
- North Carolina A&T State University, Greensboro, N.C., Integrated Variable Air Volume and Terminal VAV Box Control with BACnet DDC, Matlab-Based Monitoring, and Simulation Systems
- The University of Alabama, Tuscaloosa, Building Energy Audits Using Unmanned Aerial Vehicles
- Sinclair Community College, Dayton, Ohio, Development of a Ground Source Heat Pump Simulator
- D Y Patil, Maharashtra, India, Performance Analysis of PTC based Solar Powered Solid Adsorption Refrigeration System
- Montana State University, Bozeman, Radiant Panel Design Set
- University of Algarve, Faro, Portugal, Development of a Clean Technology Applied in the Air Treatment and Energy Production
- Mississippi State University, Smart Building Wireless Sensor Network

Save The Date

2016 ASHRAE Dayton GOLF SCRAMBLE

Friday, June 17 @ Troy Country Club

9 AM Shotgun Start followed by Lunch & Awards

Please contact Nick Lamb (nicklamb@habeggercorp.com) if you are interested in any of the following SPONSORSHIP opportunities:

- ❑ Hole Sponsor (Company Logo on Sign at Hole): $100
- ❑ Lunch Sponsor: $TBD
- ❑ Drink Sponsor: $TBD
- ❑ Non-Alcoholic Drink Sponsor: $TBD
- ❑ Cigar Sponsor: $TBD
- ❑ Prize Sponsor (Donation or Check for Gift Card)

Contact Nick if you are interested in any of theses VOLUNTEER opportunities:

- ❑ Registration
- ❑ Lunch & Awards Setup
- ❑ Miscellaneous Activites

Troy Country Club

Where: DAYTON RACQUET CLUB

40 N. Main St, Dayton, OH 45423

When: March 23, 2016 - 5:30 - 8 PM

Joint Associations Mixer

~ JAM ~

FREE!

- Join us for this region-wide networking event!
- The JAMs are intended to bring together related Professional Organizations on a regular basis.
- The *US Green Building Council Southwest Ohio Region* has organized this series of Joint Associations Mixers (**JAM's**).
- There is no cost to attend the JAMs, however it is a CASH bar.
- **AND... Please RSVP to Attend:**

SW OHIO U.S. GREEN BUILDING COUNCIL CHAPTER REGION

Co-Sponsored by: ASHRAE Dayton Chapter

Copy this Website in to Your Web Browser to Register for the Event:
https://www.eventbrite.com/e/eventsjam-joint-associations-mixer-jam-tickets-21560339556

ASHRAE Learning Institute

2016 Spring Online Course Series

2 WAYS TO REGISTER

Take 3 or more courses and save 15% off registration!

Internet: www.ashrae.org/onlinecourses
Phone: Call toll-free at 1-800-527-4723 (US and Canada) or 404-636-8400 (worldwide)
Price: **$284** (**$219** ASHRAE Member); Two-part courses: **$484** (**$359** ASHRAE Member)
Note: You may register up to 24 hours prior to an online course. Courses are in US Eastern Time.

Combined Heat & Power: Creating Efficiency through Design & Operations
Mon, March 28, 2016 – 1:00 pm to 4:00 pm EDT

Commissioning Process & Standard 202
Wed, March 30, 2016 – 1:00 pm to 4:00 pm, EDT

IT Equipment Design Evolution & Data Center Operation Optimization
Wed, April 6, 2016 – 1:00 pm to 4:00 pm, EDT

Complying with Standard 90.1-2013: HVAC/Mechanical
Wed, April 13, 2016 – 1:00 pm to 4:00 pm, EDT

Laboratory Design: The Basics and Beyond
Mon, April 18, 2016 – 1:00 pm to 4:00 pm, EDT

Standard 188-2015 – Successfully Managing the Risk of Legionellosis
Mon, April 25, 2016 – 1:00 pm to 4:00 pm, EDT

Air-to-Air Energy Recovery Applications: Best Practices
Wed, April 27, 2016 – 1:00 pm to 4:00 pm, EDT

Fundamental Requirements of Standard 62.1-2013
Mon, May 2, 2016 – 1:00 pm to 4:00 pm, EDT

Variable Refrigerant Flow System Design & Applications
Mon, May 16, 2016 – 1:00 pm to 4:00 pm, EST

The following courses are comprised of two parts. Registrants must attend both parts in order to receive CEU/PDH credits.

Exceeding Standard 90.1-2013 to Meet LEED® Requirements
Part 1: Mon, April 11, 2016 – 1:00 pm to 4:00 pm, EDT
Part 2: Wed, April 20, 2016 – 1:00 pm to 4:00 pm, EDT

Operations & Maintenance of High-Performance Buildings
Part 1: Tue, May 17, 2016 – 1:00 pm to 4:00 pm, EDT
Part 2: Wed, May 18, 2016 – 1:00 pm to 4:00 pm, EDT

ASHRAE HVAC Design Training

2 Courses, 5 Days of Intense Instruction

Atlanta • Cleveland • Halifax • Hong Kong • Kuala Lumpur
Miami • Minneapolis • San Francisco • 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 to register.

ASHRAE Dayton Chapter

ASHRAE Region V

ASHRAE's HVAC Design Training

HVAC Design: Level I—Essentials

ASHRAE's *HVAC Design: Level I — Essentials* provides intensive, practical training for HVAC designers and others involved in the delivery of HVAC services. In three days, gain practical skills and knowledge in designing and maintaining HVAC systems that can be put to immediate use.

- Fundamentals
- Heating/Cooling Load Calculation
- System Selections
- HVAC System and Components
- Cooling System
- Basic Design of Hydronic Systems
- Basic Design of Air Systems
- Control/BAS

HVAC Design: Level I—Essentials

When: June 6-8, 2016 | Cleveland, OH

Cost: $1,264 (ASHRAE Member: $1,009)

Company Discount: Enroll 3 or more participants from the same company at the same time and SAVE!

REGISTER

BONUS!

Get a FREE copy of ***Standard 189.1-2014*** and ***User's Manual.***

A $200 Value!

Register for BOTH **training sessions** to save money and fast track your experience level!

Save the Date

Chapters Regional Conference

ASHRAE Region V

Location: Crowne Plaza Hotel

Need to reserve rooms by June 28, 2016.
Call 800-689-5586 for reservations.
Use group rate code "ASHRAE Region V CRC". $129 (plus taxes) per night.
Reservations made after the cutoff will be based on availability and higher rates may apply.

CROWNE PLAZA DAYTON

Planned Events:

Thursday night Dayton Dragons baseball game
Friday President's luncheon and technical tour
Friday night banquet
YEA pub crawl event
Saturday awards luncheon
Friday and Saturday companion tours

DAYTON DRAGONS PROFESSIONAL BASEBALL TEAM

JULY

28 - 30

ASHRAE Dayton Chapter

P.O. Box 3202
Dayton, OH 45401

Today's Date: February 23, 2016

Event: ASHRAE Region V – Chapters Regional Conference (CRC)

Event Location: Crown Plaza Dayton, 33 E. 5th St., Dayton, OH 45402

Event Date(s): July 28-30, 2016

Dear Fellow ASHRAE Benefactors,

On July 28, 2016, the Dayton ASHRAE Chapter will be proud to host the Chapters Regional Conference (CRC) for ASHRAE Region V! It has been 13 years since the CRC has been in the Gem City. For those who are unfamiliar, the CRC is a three day meeting where all of the region's chapters come together to discuss the past year's business, attend workshops and take part in a local technical tour. Region V is made up of 12 chapters from the three states of Indiana, Michigan, and Ohio. Each chapter will send a delegate, an alternate, and a chairperson for each committee within the chapter. Along with chapter attendees, our regional chairpersons and even national society representatives will be present. The event is also open to all of the attendees' family members, so this is a great opportunity to showcase our great city to others from the Midwest.

As you can imagine, it takes a lot of hard work to put an event like this together. On top of the volunteers' time, we absolutely cannot make this possible without the support of our local ASHRAE benefactors (YOU!). We are humbly asking for a sponsorship from your organization of a level you see fit. A sponsorship level sheet is included for your review (The levels that have limited availability will be awarded on a first come, first serve basis). Each level will help advertise your organization in different ways in return for your generous support. When choosing the level of your support, please keep in mind that ASHRAE is a non-profit organization and that your organization will be advertised to HVAC&R related businesspeople from all across the Midwest.

Hosting the ASHRAE Region V CRC in Dayton, OH only occurs every 12-13 years. Please take advantage of this *rare* opportunity to show your support of Dayton ASHRAE, the region, and society as a whole. Thank you for your continued support! We cannot do this without you!

Please contact Rob Mauro for setting up your sponsorships at (937) 607-9815 / rob.mauro@danis.com.

Sincerely,

CRC General Chair

Chapter President

ASHRAE Dayton Chapter

P.O. Box 3202
Dayton, OH 45401

2016 ASHRAE Region V CRC Sponsorship Outline

PLATINUM LEVEL - $3,500
(Limited to One: Emerson Climate Technologies)

- Name and logo on a large banner hung in the entrance of the host hotel
- Name and logo on a large banner hung in the main breakfast/lunch room
- Name and logo on display posters in breakout meeting rooms
- Name and logo on display posters in the registration area and hallway
- Name and logo on brochures
- Name and logo on inserts in welcome bags
- Name and logo on the Dayton ASHRAE Chapter's CRC website
- Name and logo in the Dayton ASHRAE Chapter's monthly newsletter
- Specialized plaque presented at the awards ceremony
- Individual, verbal recognition at all events (lunches, dinners, meetings, etc.)
- Name and logo advertised at the Dayton Dragon's event
- Name and logo advertised in the transportation buses
- 4 free passes to the 2016 Region V CRC
- 6 invitations to the donor event
- A brief speech at the donor event
- 6 free tickets to the Dayton Dragon's event
- The outstretched hand of the Dayton ASHRAE Chapter's officers and Board of Governors thanking you for your support

GOLD LEVEL - $2,000
(Limited to Two: Waibel Trane and [Available Sponsorship])

- Name and logo on display posters in breakout meeting rooms
- Name and logo on display posters in the registration area and hallway
- Name and logo on brochures
- Name and logo on inserts in welcome bags
- Name and logo on the Dayton ASHRAE Chapter's CRC website
- Name and logo in the Dayton ASHRAE Chapter's monthly newsletter
- Specialized plaque presented at the awards ceremony
- Individual, verbal recognition at all events (lunches, dinners, meetings, etc.)
- Name and logo advertised at the Dayton Dragon's event
- 3 free passes to the 2016 Region V CRC
- 4 invitations to the donor event
- 4 free tickets to the Dayton Dragon's event
- The outstretched hand of the Dayton ASHRAE Chapter's officers and Board of Governors thanking you for your support

Note: Sponsorship levels with limited availability will be awarded on a first come, first serve basis.

ASHRAE Dayton Chapter

P.O. Box 3202
Dayton, OH 45401

2016 ASHRAE Region V CRC Sponsorship Outline

SILVER LEVEL - $1,000
(Limited to Four: Solid Blend Technologies and [3 Available])

- Name and logo on display posters in breakout meeting rooms
- Name and logo on display posters in the registration area and hallway
- Name and logo on brochures
- Name and logo on inserts in welcome bags
- Name and logo on the Dayton ASHRAE Chapter's CRC website
- Name and logo in the Dayton ASHRAE Chapter's monthly newsletter
- Certificate presented at the awards ceremony
- Individual, verbal recognition at all events (lunches, dinners, meetings, etc.)
- 2 free passes to the 2016 Region V CRC
- 2 invitations to the donor event
- 2 free tickets to the Dayton Dragon's event
- The outstretched hand of the Dayton ASHRAE Chapter's officers and Board of Governors thanking you for your support

BRONZE LEVEL - $500

- Name and logo on brochures
- Name and logo on inserts in welcome bags
- Name and logo on the Dayton ASHRAE Chapter's CRC website
- Name and logo in the Dayton ASHRAE Chapter's monthly newsletter
- Certificate presented at the awards ceremony
- 1 free pass to the 2016 Region V CRC
- The outstretched hand of the Dayton ASHRAE Chapter's officers and Board of Governors thanking you for your support

FRIENDS OF ASHRAE - $100

- Name and logo on brochures
- Name and logo on inserts in welcome bags
- Name and logo on the Dayton ASHRAE Chapter's CRC website
- Name and logo in the Dayton ASHRAE Chapter's monthly newsletter
- Verbal recognition at the awards ceremony
- The outstretched hand of the Dayton ASHRAE Chapter's officers and Board of Governors thanking you for your support

Note: Sponsorship levels with limited availability will be awarded on a first come, first serve basis.