

American Society of Heating, Refrigerating & Air-Conditioning Engineers

www.daytonashrae.org



2015-2016 OFFICERS

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Mark Your Calendars

April 20th

Board of Governors

8AM, Heapy Engineering

May 18th

Board of Governors

8AM, Heapy Engineering

June 15th

Board of Governors

8AM, Heapy Engineering

The Helix Innovation

Center Tour

April 11th, 2016

Presented by Emerson Climate Technologies

Rajan Rajendran

Director, The Helix Innovation Center &

Vice President, Systems Innovation & Sustainability

Rajan Rajendran, the director of the Helix, is also the vice president of systems innovation and sustainability for Emerson. In this additional role, he represents Emerson in various policy and industry organizations, working with agencies such as the EPA, DOE etc. He graduated from Iowa State University in Ames, IA and has been with Emerson for twenty six years.

The Helix Innovation Center is a one of a kind facility, designed for collaboration and teaming around an ecosystem approach to the markets served by Emerson. The goal of the center is to bring experts from Emerson and around the industry and academia to focus on customers' problems from a holistic point of view, thus enabling better solutions. The building, while enabling innovation through collaboration and rapid prototype and testing, also helps create a different way of thinking for Emerson and the industry.

The Helix Innovation Center

40 West Stewart Street

Dayton, Ohio 45479

Social: 5:30PM

Dinner: 6:00PM

Tour: 7:00PM

FREE to All Members & Students. \$20 to All Others.

RSVP Required.

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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:

Some crazy Dayton weather these days, right? Where did Spring go! Coming up next week is our annual HVAC tour. This one is a special occasion in collaboration with Emerson's new Helix center and the University of Dayton. This will be a large attendance so please arrive early for better parking. Link here - http://www.emersonclimate.com/en-us/about_us/industry_stewardship/pages/the-helix.aspx The ASHRAE Webcast this year will discuss Net Zero buildings on April 21st, at Heapy Engineering. Snacks and soft drinks will be provided. See information below. Attention students! Tuesday April 12th Victor Goldschmidt, an ASHRAE Distinguished Lecturer, will be visiting Sinclair Community College for a special presentation on "Thinking Like an Engineer and Societal Challenges." Please contact Russ Marcks, our Student Activities Chair, if interested in attending. Thanks again to all of our Chapters Regional Conference sponsors that have donated already! Stay tuned for a YEA outing by the end of the month and make sure to note our save the dates for some networking outings this summer.

Mike Kennedy—President, Dayton ASHRAE

Remember When... (1984/85)

President:	Mark Rae	Greater Dayton H&C
Vice Pres.:	Dennis Lammlein	Monsanto Research Corp
Secretary:	Tom Homan	Allied Supply
Treasurer:	Bill Bissmeyer	Lathrop Trotter
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	Jack Putnam	Lorenz & Williams
	Jack Rosati	Carrier Midwest/Dayton
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	Mark Ganser	Trane Co.
Education:	Alan Watton	Sinclair College
Membership:	Bill Bissmeyer	Lathrop Trotter
	Mark Ganser	Trane Co.
Res Promotion:	James Albitz	Trane Co
Energy Mgmt:	Jack Kolb	Lorenz & Williams
Social Events:	Michael Nauman	Heapy Engineering

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
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Facebook!

Find news
and
updates
from
Dayton



Membership

Dayton Chapter | 3

Welcome New Members

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

Brad Bishop
Hung Pham
Paul Hawkins

John Downing
Mohammad Aldubyan
Drew Hasenkamp
Ishita Rai

Membership Recognition

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

20-Year—Andrew Tepe

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.

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



Currently, we have achieved

73% (\$12,709 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 Celebrates New Faces of Engineering

ATLANTA – Two ASHRAE members are being recognized as part of a national effort to bring attention to the future generation of engineers.

This week, DiscoverE announced the winners of its two New Faces of Engineering programs – Professional and College. Supporting associations of DiscoverE nominate members for each program. ASHRAE created the New Faces program in 2003, when it served as lead society for National Engineers Week.

The New Faces of Engineering Professional Edition recognizes the outstanding talents, skills and abilities the next generation of engineering leaders (age 30 or younger) have shown on projects that significantly impact public welfare or further professional development and growth.

ASHRAE's top nominee for this program is Rachel Romero, P.E., an energy engineer at the National Renewable Energy Laboratory, Golden, Colo. Through her work, Romero serves as a project manager and technical expert for the Department of Homeland Security energy management program and has worked on the creation of the national Standard Work Specifications for residential building professionals to ensure quality outcomes for the home energy retrofit industry.

Outside of work, she serves as the main competition organizer for the 2016 Race to Zero Student Design Competition, which brings together 34 collegiate institutions and over 300 students to inspire the next generation of building science professionals. She also is active in ASHRAE, serving at both the national and chapter levels.

Her advice to engineering students? "Find an internship right now and get real-world experiences before you decide what type of engineer you want to be," she said. "Engineering is a broad career and there are so many facets to even our industry with ASHRAE."

The New Faces of Engineering College Edition, which targets 3rd, 4th and 5th year engineering college students, recognizes the nation's most promising engineering professionals of tomorrow.

ASHRAE's top nominee is Danielle Passaglia, an architectural engineering major, at the University of Nebraska-Lincoln, Omaha. She serves as president for the university's ASHRAE Student Branch and volunteers her time during Engineers Week and Introduce a Girl to Engineering Day, where she promotes opportunities available within engineering to students.

Passaglia plans on using her education to help make an impact on the industry.

"The opportunities that come with an engineering degree are endless, and it will allow me to find my niche in this field," she said. "I am excited to work with other individuals who share this passion and see how our ideas can come together to make something innovative."

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 55,000 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.

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



Save the Date



Chapters Regional Conference



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.

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



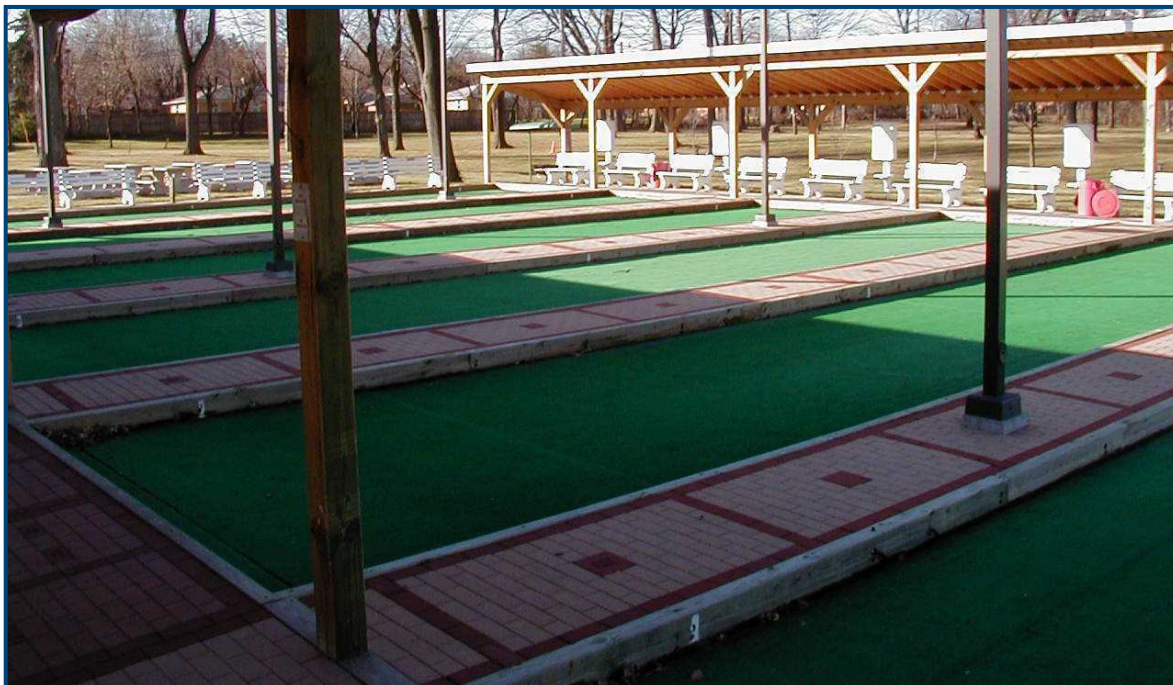
JULY

28 - 30



SAVE THE DATE

The Second Annual
Bocce Ball Tournament



**September
16th 3:00PM**

**Requesting
Donations for :
Snacks
Hot Dogs/Buns
Burgers/Buns
Beverages**

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.

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!

HVAC Design: Level II—Applications

ASHRAE's *HVAC Design: Level II — Applications* provides instruction on HVAC system designs for experienced HVAC designers and those who complete the HVAC Design: Level I — Essentials training. In two days, gain an in-depth look into *Standards 55, 62.1, 90.1, 189.1* and the *Advanced Energy Design Guides*. Training will focus on a range of topics including: HVAC equipment and systems, energy modeling, designing a chiller plant, and BAS controls.

- Sustainability / Green/LEED / HPB / NZEB
- Standard 55
- Standard 62.1
- Building Systems: Education Facility
- System Applications: Chiller/Boiler, Air Handlers, VAV Terminals
- Life Cycle Cost
- Building Systems: Multi-story Office Building
- Water-to-Water GSHP Option 1 Chilled Beam with DOAS
- Water-to-Water GSHP Option 2 UFAD

HVAC Design: Level II—Applications

When: June 9-10, 2016 | Cleveland, OH

Cost: \$854 (ASHRAE Member: \$699)

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

REGISTER



BONUS!

Get a FREE copy of *ASHRAE GreenGuide: Design, Construction, and Operation of Sustainable Buildings, 4th. ed.*

A \$100 Value!



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,

A handwritten signature in blue ink, appearing to read "Evan Mott".

CRC General Chair

A handwritten signature in blue ink, appearing to read "Rob Mauro".

Chapter President



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: Heapy Engineering & Waibel Energy Systems)

- ❖ 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.



P.O. Box 3202
Dayton, OH 45401

2016 ASHRAE Region V CRC Sponsorship Outline

SILVER LEVEL - \$1,000

(Limited to Four: JCI, MSD, Rieck Services, Solid Blend Technologies)

- ❖ 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 (Unlimited sponsorships available)

- ❖ 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 (Unlimited sponsorships available)

- ❖ 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.