

Refrigerating & Air-Conditioning Engineers

www.daytonashrae.org



2015-2016 OFFICERS

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SUMETA SACHDEVA

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Heapy Engineering

Mark Your Calendars

December 16th

Board of Governors

8AM, Heapy Engineering

December 17th

Happy Hour

5-8PM, Dayton Beer Company

January 8th

Holiday Party

6-10PM, Dayton Racquet Club

Lunch Meeting

December 14th, 2015

Engineer's Club

110 East Monument

Dayton, Ohio 45402

Paul J. Selman PE, MBA

Thybar Corporation

Seismic Wind

Load Presentation

Roof Curbs: Meeting International Building Codes

Paul is a licensed professional engineer in all 50 states and the District of Columbia.

This presentation is an in depth look at roof curb building codes related to seismic wind load calculations and requirements.

11:30 AM to 1:00 PM

Lunch and Presentation

FREE to All Members.

\$20 to All Others.

RSVP by Noon on 12/10 to JPFauber@heapy.com

Please note any specific food considerations at this time.

Committee Chairs**Membership****JEREMY FAUBER**

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Board of Governors**JEREMY FAUBER**

Heapy Engineering

RICK PAVLAK

Heapy Engineering

LARRAINE KAPKA

Sinclair Community

A Note from the President:

Hope everyone had a plentiful Thanksgiving this year. Thanks to Distinguished Lecturer Jim Vallort for a great presentation on Intelligent Buildings at the last Engineers Club meeting! He was very impressed with the number of students in attendance. December features an ASHRAE Sustainability Project working with Habitat for Humanity, a luncheon discussing Seismic and Wind field updates, as well as a YEA outing to Dayton Beer Company. Ring in the holiday cheer with the AIA/ASHRAE members and an ugly christmas sweater contest! Special thanks to Nathan Lammers for updating our way-overdue ASHRAE name-tag collection! Please email him if you are yet missing one. Look for our annual holiday dinner flyer in the coming week for a night at the Dayton Racquet Club. Each local full member and a guest are free to attend. We hope to release our new website design before the end of 2015. So stay tuned. All, have a safe and joyful rest of their holiday season!

Mike Kennedy—President, Dayton ASHRAE

Remember When... (1995/96)

President:	John Mosgo	Siebe Barber Colman
Pres. Elect:	Dennis Lewis	EG&G Mound App Tech
Vice Pres.:	Dave Deger	Air Control Equipment
Secretary:	Dave Patterson	Patterson Equipment Co
Treasurer:	Jim Hocker	Stan & Associates
BOD:	All Officers & Committee Members	
Education:	Russell Marcks	Sinclair College
Membership:	Joe Ferdelman	Heapy Engineering
Res Promotion:	Mark Steiner	BWSC
TEGA:	Ken Baily	Dayton Power & Light
Refrigeration:	Dale Haxton	

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

Like us
on
Facebook!

Find news
and
updates
from
Dayton



Membership

Welcome New Members

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

Brian Abels
Joshua Foor

We would also like to recognize those with a membership anniversary this month:

10-Year

Kyaw Wynn

25-Year

Russell Marcks

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 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
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*

ANTIQUÉ \$250 or more

Uptime Solutions Associates

SILVER \$1,000 or more

Dayton ASHRAE

Research Promotion News



Currently, we have achieved

32.8% (\$5,683.57 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 Research Promotion - Donor Levels

Platinum Circle Donor – (\$20,000 +)

Receives 1 day Meeting Registration at the ASHRAE Winter Meeting
 Receives 2 tickets to Members Night Out and Welcome Party at the ASHRAE Winter Meeting
 Presented Commemorative Sculpture
 Individually recognized at the President's Luncheon at the ASHRAE Winter Meeting
 Invited to the President's Luncheon at the ASHRAE Winter Meeting
 Invited to the Board of Directors Luncheon at the ASHRAE Winter Meeting
 Listed on special display at the President's Luncheon at the ASHRAE Winter Meeting
 Group photo published in the spring issue of ASHRAE Insights
 Listed on RP Display in Registration
 Receives Gold ASHRAE Commemorative Coin & Plaque
 Listed in annual Investor Honor Roll in the ASHRAE Journal

Golden Circle Donor – (\$10,000 to \$19,999)

Presented Commemorative Sculpture
 Individually recognized at the President's Luncheon at the ASHRAE Winter Meeting
 Invited to the President's Luncheon at the ASHRAE Winter Meeting
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 Listed in annual Investor Honor Roll in the ASHRAE Journal

ASHRAE Partner – (\$5,000 to \$9,999)

Receives personalized shadowbox plaque
 Listed in annual Investor Honor Roll in the ASHRAE Journal

ASHRAE Associate – (\$2,500 to \$4,999)

Receives Gold ASHRAE Commemorative Coin & Plaque
 Listed in annual Investor Honor Roll in the ASHRAE Journal

Major Donor – Silver – (\$1,000 to \$2,499)

Receives Silver ASHRAE Commemorative Coin & Plaque
 Listed in annual Investor Honor Roll in the ASHRAE Journal

Major Donor – Bronze – (\$500 to \$999)

Receives Bronze ASHRAE Commemorative Coin & Plaque
 Listed in annual Investor Honor Roll in the ASHRAE Journal

Major Donor – Antique – (\$250 to \$499)

Receives Antique ASHRAE Commemorative Coin & Plaque
 Listed in annual Investor Honor Roll in the ASHRAE Journal

Honor Roll Donor – (Individual Honor Roll begins at \$100)

Receives blue desktop coin holder & Commemorative Coin
 Listed in annual Investor Honor Roll in the ASHRAE Journal



Dayton Chapter ASHRAEdaytonashrae.org

Please select:

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

 Your Name

 Home Address

 City

 State

 Zip

 () - _____
 Home Phone

 () - _____
 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, 2015 and ending June 30, 2016.

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

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

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.

ASHRAE Standard 188-2015 – Successfully Managing the Risk of Legionellosis **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 • 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.

RECAP: Bocce Ball

Inaugural Dayton ASHRAE Chapter Bocce Ball Tournament

Date of Event: September 19, 2015

The first annual ASHRAE Bocce Tournament was a success—not a huge success, but a success nevertheless. Approximately \$600.00 was raised towards our scholarship awards.

Eight teams signed up for the tournament from different areas of our industry—Engineering, Architecture, Contracting and Systems suppliers. One of the two Architectural teams involved won the tournament with some timely play. The prize was a professional set of Bocce balls for each member of the winning team, suitable for lawn play.

ASHRAE would like to thank to the companies that donated food, drinks, and time involvement to the event:

Wat-Kem Mechanical: donation of the beer and soda, and support in setting up the tournament

Waibel Energy Systems: donation of the hamburgers, brats, and hot dogs for lunch

Solid Blend Technologies: donation of the coffee, juice and donuts for the morning breakfast

Danis: support in setting up the tournament, and providing a Sargent at Arms (a Marine) to assure that the rules were properly followed

The Italian Club: providing use of their Bocce courts for minimal costs

The ASHRAE Board of Governors decided that they would like to try a Second Annual Bocce Tournament, slated for September of 2016, with some changes meant to attract more teams. The biggest issue with this first event was the fact that on Saturday morning (the day the 2015 tournament took place) it was too difficult for people to attend. One team had to cancel entirely due to other, last minute commitments. In 2016, a weekday (preferably Friday) will be tried. The Tournament will start somewhere around 3:00 PM and continue into the evening. The Bocce courts are lit and a full tournament could take place.

ASHRAE wants to emphasize that participants can include ASHRAE members, family of ASHRAE members, employees of our Industry, and guests. There is a playground for young people at the Italian Club. No experience is necessary, as the winning AIA team expressed that they had not played before, but they were able to overcome that handicap and win the tournament.

More information regarding a date for 2016, costs, etc. will be forthcoming as ASHRAE sets up the future Tournament. Join ASHRAE for a day of fun, friendship, and relaxation.

Sad News in our Local Industry...

Dayton ASHRAE received a notice that former Ohio Valley ABC Chairman, and long-time supporter of your Dayton ASHRAE Chapter, Michael G. Ayers of Applied Mechanical Systems passed away on November 3rd after a brief battle with end-stage liver disease.

Dayton ASHRAE Chapter would like to extend it's deepest sympathies to the Ayers Family, the Applied Mechanical Systems, Incorporated Family, and all those touched by Mr. Ayers leadership in the industry and local community.

Save The Dates

*Happy Hour w/ Dayton AIA
December 17th*

*5-8 PM, Dayton Beer Company
Free Pizza, Networking,
& Ugly Sweater Contest*

*ASHRAE Holiday Party
January 8th*

*6-10 PM, Dayton Racquet Club
Enjoy the Holiday Season with your
fellow Dayton ASHRAE members*



Position Available

Account Manager: Sales Professional with Business Development Focus
Send Resume to Emily Rincon at erincon@pcuinc.com

PCU designs and builds customized systems for industrial companies with fluid and gas management needs. We are seeking a Sales Professional with a business development focus to join our team in Dayton, OH.

The Account Manager will need to meet the following requirements:

- Engineering Degree from Accredited University
- Proven track record of success in active business development or selling a technical product or solution
- Must be willing to make cold, warm, and hot phone calls to prospects
- Must currently be working in an industry related to industrial fluid and gas management systems in manufacturing
- Experience in Project Management, Project Engineering, Negotiations, Customer Service are all a plus for this position.
- Excellent Communicator, able to give presentations, and carries high level business conversation skills
- Travel 40% as well as attend industry events, trade fairs, and networking sessions
- This person must have the mindset that training is critical to professional sales and be open minded and eager to learn our sales methodology
- Be proficient with using a CRM software for running their sales program, Microsoft Office Suite, and computer savvy.
- Must be able to travel internationally and will be expected to travel in the Americas
- Must have: Energy, Energizing Ability, Execution, Edge



Position Available

Controls Engineer

Send Resume to Emily Rincon at erincon@pcuinc.com

PCU designs and builds customized systems for industrial companies with fluid and gas management needs.

We are seeking a Sales Professional with a business development focus to join our team in Dayton, OH.

The Controls Engineer will need to meet the following requirements:

- Excellent knowledge of working procedures of electrical engineering
- Ability to develop clean sheet PLC programs in multiple PLC languages. Allen-Bradley, GE, Mitsubishi, and/or Siemens.
- Knowledge of industrial equipment electrical standards NFPA 79 & 497, UL508a
- High Level programming language experience in C++, VB, C#
- Ability to work on a large range of challenging projects
- Resolving problems related to electrical control, automation and design
- Must be able to communicate effectively at all levels
- Broad understanding of various techniques and technological implementation of these technologies
- Establish control engineering responsibility and scope for new project opportunities.
- Estimate industrial controls, electrical hardware material and required labor resources needed for new project opportunities.
- Control Schematic ability with AutoCAD Lt
- Requires a bachelor's degree in electrical engineering and 6+ years of experience in the field or in a related area.
- Up to 25% travel



Position Available

Field Service Technician

Send Resume to Emily Rincon at erincon@pcuinc.com

PCU designs and builds customized systems for industrial companies with fluid and gas management needs.

We are seeking a Sales Professional with a business development focus to join our team in Dayton, OH.

The Field Service Technician will need to meet the following requirements:

- Perform mechanical, electrical, and controls system equipment check-out activities for industrial automated equipment. Check-Out activities include; 1) system set-up, 2) initial I/O check-out and verification of electrical, pneumatic, mechanical, and hydraulic systems. 3) System Process verification; 4) Support of equipment buy-off activities.
- Supervise industrial equipment installation. Must have the ability to instruct plant trades and work with contractors.
- Participate in installation and debug of mechanical, electrical and control systems. Must be able to verify customer processes.
- Perform field modifications on existing equipment including electrical, mechanical, and control system modifications.
- Electrical troubleshooting skills – 460/3/60 Power & Motors, 24Vdc I/O, and instrumentation (typically 4-20mA) troubleshooting.
- Mechanical troubleshooting skills – Pneumatics, including solenoids, pumping systems, compressors.
- PLC programming experience with Rockwell Control Logix, GE, Mitsubishi or Omron.
- Must have or will gain networking experience including - Ethernet/IP, Control Net, and Device Net.
- Associates Degree preferred and 3+ years of experience in the field or in a related area.
- Travel up to 75% including weekends.