ASHRAE DAYTON CHAPTER

ISSUE IV | 2018

CURRENT OFFICERS

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Habegger Corporation

TREASURER
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SECRETARY
Nathan Launer
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Johnson Controls, Inc

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September Events

2018 Dayton Green EXPO

SEPTEMBER 18, 2018

SINCLAIR COMMUNITY COLLEGE

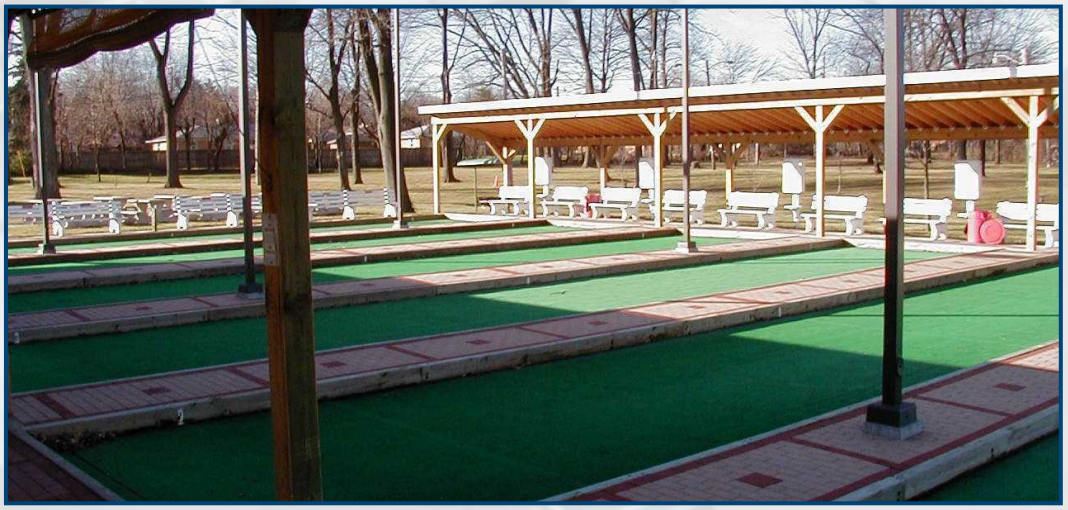
Building 12 Conference Center, Dayton, OH

Register Here

AND

2018 Fourth Annual Bocce Ball Tournament

Register for the Event Today



FROM THE PRESIDENT

We hope that everyone had a wonderful summer season!

Our events this year kickoff with a great one this Friday in our Annual Bocce Ball Tournament at the John Pirelli Lodge (Italian Club). We still have some availability to register additional teams, so please register today! If you've never played, it's a game that you can become acclimated with quickly, so come out and enjoy a fun, relaxing time.

The Tuesday following this event is our participation in the Dayton Green Expo, at Sinclair Community College (Building 12). We are co-sponsoring an education session and will have a table in the trade show. Please stop by and see us!

On October 8th, we have our first official chapter meeting at the Engineer's Club of Dayton which is a dinner meeting. This will be a Membership Promotion Night, as well as RP Night. This meeting is free to all members *AND* prospective members.

We look forward to meeting the membership this year at events like this, so please stop by!!

Bryan W. Schenck — **President Dayton ASHRAE**

Upcoming Events

September 12th
Board of Governors
8:00 AM, Heapy Engineering

September 14th
Bocce Ball Tournament
Italian Club, Dayton

September 18th
Dayton Green Expo
Sinclair Community College

October 8th
Chapter Meeting
5:00 PM, Engineer's Club

October 17th
Board of Governors
8:00 AM, Heapy Engineering

See Additional Events & Volunteer Opportunities Here

CHAPTER HISTORY (1983-1984)

President:	Jack Putnam	Lorenz & Williams
Vice Pres.:	Mark Rae	Greater Dayton H&C
Secretary:	Matt Stoermer	Stoermer Equipment Co
Treasurer:	Mark Ganser	Trane Co.
BOD:	John Stewart	Greater Dayton H&C
BOD:	Dick Wood	Enterprise Roofing & SM
Education:	Alan Watton	Sinclair
RP:	Larry Brelsford	Simplex
Membership:	Dennis Lammlein	Monsanto Research Cor

Meetings were held at the Ramada Inn.
CRC held in Cincinnati

83 Total Members
Received PAOE Presidential Award of Excellence

MEMBERSHIP

Committee Chairs

MEMBERSHIP
Jeremy Fauber
JPFauber@heapy.com
Heapy Engineering

HISTORY
Rob Mauro
RMauro@nelsonstark.com
Nelson Stark

COMMUNICATIONS
Nathan Lammers
Nathan.Lammers@waibelenergy systems.com
Waibel Energy Systems

RESEARCH PROMO
Open Position
Please Contact Bryan W. Schenck

STUDENT ACTIVITIES
Russell Marcks
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Sinclair Community College

CTTC
Evan Nutt
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Elitaire

GOVERNMENT AFFAIRS
Paul Hawkins
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Waibel Energy Systems

YEA (Co-Chairs)
Steven N. Meier
steve@skm.services
SKM Services

Phillip Reid
PAReid@heapy.com
Heapy Engineering

Board of Governors

Jeremy Fauber
Heapy Engineering

Rick Pavlak
Heapy Engineering

Larraine Kapka
Sinclair College

New Members

The Dayton Chapter is happy to welcome its newest members. If you see them please give them a warm welcome!

July
Robert Stohr

Do you know a colleague that would benefit from joining ASHRAE?

You can go to http://web.ashrae.org/connect_a_colleague/ and quickly sign up for ASHRAE to send an email to ask them to sign up on your behalf.

Membership Recognition

We would like to recognize the following members who have been with ASHRAE for the following years! Thank you for all your contributions to the field!

25 Years
Jeffrey Zelinski

Membership Promotion Committee

Looking for a way to get involved with your local ASHRAE chapter and meet new people? The membership promotion committee is looking for volunteers to join the committee. The committee's primary responsibility is to recruit new members and retain existing members. If you are interested in serving please contact Jeremy Fauber at JPFauber@heapy.com. Or by calling 937-224-0861

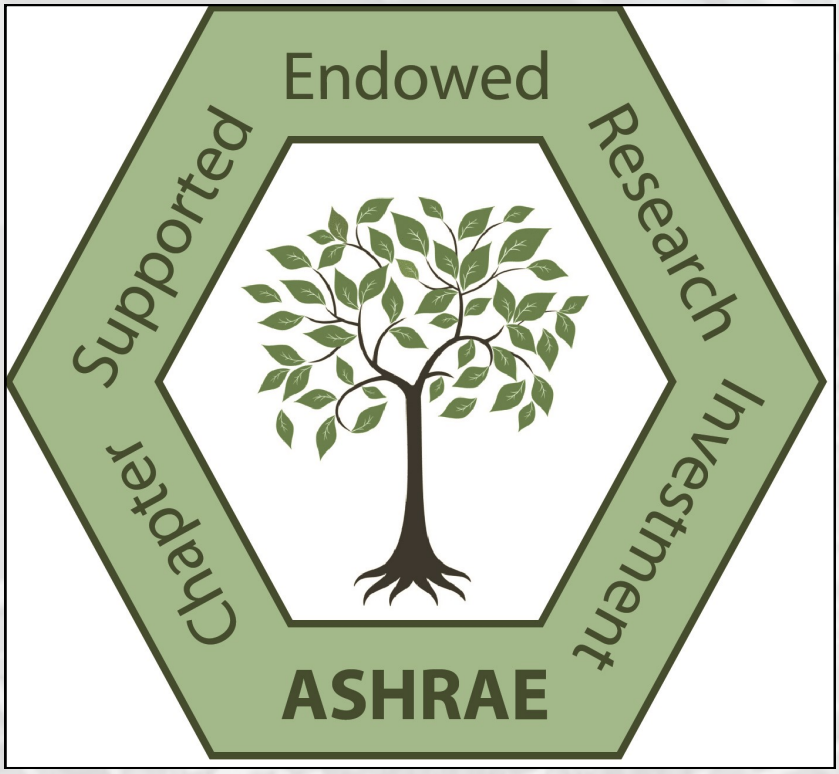
Membership Application Here

ASHRAE RP

INDIVIDUALS Begins at $100

Evan Nutt
Bryan W. Schenck
Steven N. Meier
David Crosley

Brian Turner
Tom Mastbaum
Nathan Lammers



RP NEWS

Make YOUR donations using the link below.

DONATE NOW

Our goal is not set yet for this year in Total Research Dollars.

To-date we raised $700

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!

ASHRAE News

EPA Proposes New Rule for Coal Power Plants

On August 21, the Environmental Protection Agency released its proposed "Affordable Clean Energy" rule to replace the Obama-era Clean Power Plan. The proposed rule recommends on-site efficiency improvements and relaxes emissions standards. **You can read the Administration's technical analysis here.**

City of Washington DC Updates Renewal Portfolio Energy Act

The City of Washington, DC recently updated its Renewable Energy Portfolio Act, passed in 2004, to increase the city's efforts to move to 100% renewable energy by 2032. This legislation will establish a solar energy standard after 2032, to require that electricity suppliers obtain a certain percentage of their energy from long-term purchase agreements with renewable generators. It will also enact a building energy performance program and expand the city's benchmarking program to include buildings of more than 10,000 square feet by 2024. **Click here to view the full legislation.**

HVAC Design Training

Minneapolis, MN October 15-19, 2018

Find more information here

HVAC Design: Level I – Essentials

ASHRAE's HVAC Design: Level I – Essentials training provides participants with instruction that accelerates their transformation into effective members of a design, construction or facilities maintenance team. Developed by industry-leading professionals selected by ASHRAE, the training provides attendees with the fundamentals and technical aspects of HVAC design. Attendees will gain practical skills and knowledge to design and maintain HVAC systems that can be put to immediate use.

In addition to gaining in-depth knowledge and understanding, attendees will receive real-world examples of HVAC systems based on the renovated ASHRAE Headquarters building. The training also teaches a systematic approach to guide a design team to a solution that optimally meets the client's expectations. Engineered drawings of the ASHRAE Headquarters renovation will also be discussed so participants are exposed to plan reading and visual understanding of system design.

HVAC Design: Level II – Applications

ASHRAE's HVAC Design: Level II – Applications training provides participants with instruction on HVAC system design. The training is tailored for engineers with advanced experience in the HVAC design field, or those who have completed HVAC Design: Level I – Essentials. Developed by industry-leading professionals, the training provides advanced 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.

ASHRAE Articles

Five Hospitals, One Goal: Maximum Energy Savings

Between 2010 and 2017, the CHU de Québec–Université Laval (Quebec City University Hospital Center) underwent major asset renewal across three of its sites (and a fourth one was completed as of press date). The CHU has slashed its energy consumption by 30%, generating $2.9 million in annual savings, and reducing its greenhouse gas emissions by 52% (12,000 metric tons per year).

The CHU chose a performance contracting model and used an integrated approach to completely rethink the way they consume energy. This resulted in maximum energy savings and energy efficiency incentives, which were used to pay for a large portion of the asset renewal required in the hospitals.

Project Sites

The CHU is a group of five main hospitals in Quebec City, with an annual energy bill of $9.5 million. Upgrades to the three sites were completed in 2015, with two full years of performance monitoring. The sites are located in a different neighborhoods and do not share a common district network. All were treated as separate projects. The largest site, and the first to be upgraded, was CHUL with a gross surface area of 1,375,434 ft2 (127 778 m^2) and a net surface area of 1,031,946 ft^2 (95 868 m^2). Upgrades to the two remaining sites began a year later.

Needs and Requirements

Although each site had particular needs, a few common drivers were present among all three sites:

- Renewing HVAC assets and addressing deferred maintenance resulting from years of government budget cuts to the hospitals' technical services;
- Achieving sustainability goals, including reduced water and energy use, lower GHG emissions, and eliminating certain refrigerants;
- Reducing maintenance costs for HVAC systems;
- Maintaining comfort for the patients and staff;
- Meeting energy efficiency targets set by the Quebec government for healthcare facilities; and
- Designing with a focus on results.

To achieve its goals, the CHU issued a public request for proposal (RFP), seeking a design-build firm that could also contractually guarantee the project cost, the financial incentives and the annual savings over the entire payback period. The project's simple payback period (excluding financing rate) was 6.5 years. One of the financial metrics used to choose the winning firm was net present value (NPV), which highlighted the project with the greatest overall value for the CHU, accounting for all expenses and savings over a 20-year period.

Over the following months, the chosen firm became an extension of the CHU's technical services department, doing extensive surveys of the HVAC systems and prompting feedback from the CHU's operating staff. The project team was focused on achieving substantial results, and took a holistic approach to the buildings, seeking every opportunity to improve the ventilation systems, heating and cooling networks, lighting, and centralized control systems.

A central aspect to the design was converting the hospitals' steam heating systems to hot water, making it possible to add high-efficiency heat pumps. The design for each site focused on maximizing heat recovery and minimizing energy losses throughout all networks (steam, hot water, chilled water).

See the full article in the June 2018 (volume 60, number 6) ASHRAE Journal...