

FORT WAYNE ASHRAE NEWSLETTER

WINTER 2017



www.fortwayneashrae.org

HAPPY NEW YEAR FORT WAYNE ASHRAE!

Recap: 2016 4th Quarter Events

The Oct meeting was well attended and the speaker, Jim Vallort, gave an excellent presentation on Intelligent Buildings. He received several good comments on the feedback cards, and had an overall rating of 96.2% favorable with our local group.



Jim Poehling delivered another successful presentation for our group in the month of November. His talk on water quality and its use in process water applications, along with his personal experience of 40 years as a PE was extremely enlightening.

In December, we all took a break from the industry grind, and enjoyed each other's company at our Annual Chapter Holiday Party. Several gift cards and prizes were handed out as usual, and many joys & laughs exchanged as well.



Our January meeting with Chris Cummings brought in a good crowd as well. His talk on cogeneration focused on optimizing energy supply for reliability, security, cost, and sustainability.

February Meeting Information

ASH BUILDING SITE VISIT

Date: Thursday, February 9, 2017

Place: ASH Skyline Plaza (220 W Wayne St.)

Time: 11:30 AM to 1:00 PM

Topic: ASH Brokerage Tour

Cost: \$20.00, Includes Lunch

Note: All meeting attendees not pre-registered online will NOT be provided a lunch at this meeting.

For online reservations, please visit our website at www.fortwayneashrae.org. Please reserve your seat by Monday 02/06/17 to avoid last minute logistical disruptions.

February Co-Speaker



Mike Nichter, PE, LEED AP, CEM

- BSME from Purdue University
- MBA from Indiana University
- Professional Engineer
- LEED AP certified
- CEM (certified energy manager)
- Employed at MSKTD for 27 years
- MSKTD Director of Mechanical Eng.
- Over 30 years' experience designing and managing HVAC, plumbing, and sprinkler systems

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Wagner Meinert, LLC

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Bryan Wight	REFRIG.
Devin Snowberger	HISTORIAN
Russ Morris	WEB MASTER
JP Heisserer	NEWSLETTER

ASHRAE MISSION

To advance the arts and sciences of heating, ventilating, air conditioning and refrigerating to serve humanity and promote a sustainable world.

Please contact JP Heisserer (Newsletter Editor) at jp@vc-solutions.com with any concerns, questions, and/or applicable Fort Wayne ASHRAE news. The Fort Wayne ASHRAE Newsletter does not reflect the opinions or views of the National Society. *While avoided when possible, Fort Wayne ASHRAE reserves the right to substitute speakers without notice due to last minute schedule conflicts.



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February 2017 Meeting (cont.) ASH BUILDING SITE VISIT

February Co-Speaker



Joshua Smith, Architect

- BS Architecture Ball State University
- Over 10 years' experience as project designer on wide variety of projects
- Employed at MSKTD for 5 years

Mike Nichter and Joshua Smith will be giving a brief power point of the ASH building, while sharing experiences during design and construction. They will display photos and illustrations showing just how the mechanicals went together, along with some cool "flyby" visuals generated by drone aircraft. Joshua will be highlighting on the architectural aspects, while Mike will comment on various engineering particulars. Following the presentation, a guided tour of the facility will be given.

History Look of the Month

(By Devin Snowberger, FW Chapter & Region V Historian)

As this year has gone by, I would like to take some time to place the spot light on our Fort Wayne Chapter. Our chapter was started in 1974 with Alfred Gunterman as President. We are the only Chapter in ASHRAE who has won the Presidential Award of Excellence in our region, Region V, and we are the only Chapter in all of ASHRAE to win the Presidential Award of Excellence two years in a row.

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In addition, we have had seven members awarded the Chapter Service Award. We currently have six Life Members and I would like to personally say thank you for your service to ASHRAE:

- Marv Bok: Since 1974
- Larry Coss: Since 1981
- John Current: Since 1981
- Al Eynon, PE: Since 1969
- Edwin Kurek: Since 1949
- Jim Witzeman: Since 1981

CHAPTER BUSINESS

Member Lists:

If you or someone you know is not receiving Fort Wayne ASHRAE information, and would like to be, please contact Chapter Secretary, Paul Fernandez, at pfernandez@hydstm.com so the list can be updated.

Membership:

(By Paul Fernandez, Membership Promotion Chairman)



Thank you all for your participation in Fort Wayne ASHRAE. If you have not had an opportunity to renew your membership for the 2016 – 2017 Season, please login at www.ashrae.org and complete the steps under the Membership & Conferences tab. You can also add your payment for Fort Wayne membership dues under this link when you renew. Membership in ASHRAE supports the advancement of HVAC/R around the world and in our local community.



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SPECIAL THANKS GOES OUT TO THE FOLLOWING ANNUAL ASHRAE GOLF OUTING CO-SPONSORS FOR 2016-2017 SEASON:



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CHAPTER BUSINESS (cont.)

Resource (Formerly Research):

(By Devin Snowberger, Resource Promotion Chairman)



Hello, Everyone! I want to say thank you to those who kindly donated their winnings from the Fort Wayne ASHRAE Golf Outing Hole #6. With the donations that we have received to date, as of this writing, we are now over \$1,000, which puts us just **over 40% from achieving our goal of \$2,500!** Let's keep up the great work! If you would like to donate, please email me at dsnowberger@primary-eng.com, and I can help you with your donation.

Student Membership / YEA:

(By Matthew Klok, Student Membership / YEA Chairman)

Through its scholarships, ASHRAE seeks to motivate students and prospective students worldwide to pursue an engineering or technology career in the HVAC&R field, part of the science, technology, engineering and mathematics (STEM) industry. The Society's Scholarship Program also serves the public interest by aiding in the education of men and women to become qualified to practice as engineers in HVAC&R. For more information, please visit the following website link:

<https://www.ashrae.org/membership--conferences/student-zone/scholarships-and-grants/ashrae-scholarship-program-and-stem>

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Seeking Committee Members:

(By JP Heisserer, Membership Committee)

A reminder that our chapter is always looking for and open to ASHRAE members interested in participating in one of our many local Chapter committees. Volunteer work would be minimal for incoming participants, and would help grow our local Chapter offering to the community.



In most cases, newcomers would be paired up with an experienced ASHRAE chair member of their particular committee of choice. If you are interested in signing up with us, please contact our Chapter President, Bryan Wight, at bwight@wmillc.com.

ASHRAE TRIVA:

Did you know that Engineering News-Record recently awarded the Skyline Plaza Garage (**home of our Chapter's February Site Visit**), the Midwest's Best Project Award for a government or public building? The editors cited the precast construction project in their award, as well as other challenges.



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President's Message:

(By Bryan Wight, Fort Wayne Chapter President)

Hello Fort Wayne ASHRAE! We hope everyone had a great Christmas and New Year's Holiday and all are getting back into the swing of things this New Year.

Fort Wayne ASHRAE had a great start to the 2016-2017 Season. The September Golf Outing was a huge success and big hit for everyone. Special thanks goes to Matthew Klok, our Golf Outing Chair, for his hard work every year in organizing the Fort Wayne ASHRAE Golf Outing.

We also had a great turnout for our Annual Holiday Party in December at JK O'Donnells. This is always a fun evening for Fort Wayne ASHRAE Members and Friends. Thanks to all the volunteers who helped make it possible and to everyone that was able to attend. Good times were definitely had by all!

Fort Wayne ASHRAE is gearing up for an exciting second half of the season. Among a lineup of great speakers (including the ASHRAE President in March), we will also be touring the ASH Brokerage Building in Downtown Fort Wayne this February! Please be sure to sign up early for this event.

Our Board of Governors has been staying busy this year. We sent our Research Promotion Chair (Devin Snowberger) and Membership Chair (Paul Fernandez) to centralized training in Chicago and Atlanta this past fall. Both of these guys have already gone above and beyond our expectations for fulfilling these important duties in our chapter. Don't be surprised if either of them reaches out to you about Research Promotion or Membership!

Thank you to those of you reading this and that benefit from the efforts of the Fort Wayne ASHRAE Chapter. Our Board of Governors is proud to serve the Fort Wayne ASHRAE Community and excited for what is to come. There is a continual need for dedicated and motivated individuals to get involved on the Fort Wayne ASHRAE Board. Please reach out to myself or any of our officers if you would like to attend one of our board meetings to learn what we are about.

We look forward to seeing everyone in 2017!



Sincerely,

Bryan Wight
Chapter President
Fort Wayne ASHRAE
bwight@wmillc.com



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2016 – 2017 Fort Wayne ASHRAE Season Calendar:

(By Mike Frantz, CTTC Chairman)



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OCTOBER

DATE: Thursday, 10/27/16
TIME: 11:30 AM – 1:00 PM
PLACE: Parkview Field
TOPIC: *Intelligent Buildings*
SPEAKER: Jim Vallort, P.E.

NOVEMBER

DATE: Thursday, 11/17/16
TIME: 11:30 AM – 1:00 PM
PLACE: Parkview Field
TOPIC: *Water Quality in Process Systems*
SPEAKER: Jim Poehling, P.E.

DECEMBER *(Dinner Meeting)*

DATE: Week of 12/12/16
TIME: 6:30 PM – 9:00 PM
PLACE: TBD
TOPIC: *Christmas Party*
HOST: Local Board of Gov's

JANUARY

DATE: Thursday, 01/19/17
TIME: 11:30 AM – 1:00 PM
PLACE: Parkview Field
TOPIC: *Cogeneration*
SPEAKER: Chris Cummings, P.E.

FEBRUARY

DATE: 02/09/17
TIME: 11:30 AM – 1:00 PM
PLACE: ASH Skyline Plaza
TOPIC: *Site Visit / System Tour*
SPEAKER: M. Nichter / J. Smith

MARCH

DATE: Wednesday, 03/29/17
TIME: 11:30 AM – 1:00 PM
PLACE: Parkview Field
TOPIC: *Adapting Today to Shape Tomorrow*
SPEAKER: Tim Wentz, P.E.
Society President

APRIL

DATE: Thursday, 04/20/17
TIME: 11:30 AM – 1:00 PM
PLACE: Parkview Field
TOPIC: *Doing More with Less*
SPEAKER: Doug Zentz, P.E.
Distinguished Lecturer

MAY

DATE: Thursday, 05/18/17
TIME: 11:30 AM – 1:00 PM
PLACE: Parkview Field
TOPIC: *Leadership and Effective Communication*
SPEAKER: Scott Druhot, P.E.

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ASHRAE Learning Institute

2017 Online Course Series

2 WAYS TO REGISTER

Internet: www.ashrae.org/onlinecourses

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

One-part course (3 hours) **\$284 (\$219 ASHRAE Member)** – -- -- Two-part course (6 hours) **\$484 (\$359 ASHRAE Member)**

Basics of High-Performance Building Design

Wednesday, February 8, 2017 – 1:00 p.m. to 4:00 p.m.

Designing Toward Net-Zero Energy Commercial Buildings

Tuesday, February 14, 2017 – 1:00 p.m. to 4:00 p.m.

ASHRAE Guideline 0: The Commissioning Process

Tuesday, February 21, 2017 – 1:00 p.m. to 4:00 p.m.

Commissioning Process & ASHRAE Standard 202

Monday, February 27, 2017 – 1:00 p.m. to 4:00 p.m.

NEW! Fundamental Requirements of Standard 62.1-2016

Thursday, March 9, 2017 – 1:00 p.m. to 4:00 p.m.

Commissioning Process in New and Existing Buildings

Part I: Monday, March 13, 2017 – 1:00 p.m. to 4:00 p.m.

Part II: Wednesday, March 15, 2017 – 1:00 p.m. to 4:00 p.m.

Design of Affordable & Efficient Ground Source Heat Pump Systems

Wednesday, March 29, 2017 – 1:00 p.m. to 4:00 p.m.

NEW! Complying with Standard 90.1-2016: Envelope/Lighting

Wednesday, April 5, 2017 – 1:00 p.m. to 4:00 p.m.

NEW! Complying with Standard 90.1-2016: HVAC/Mechanical

Tuesday, April 11, 2017 – 1:00 p.m. to 4:00 p.m.

NEW! Complying with Standard 90.1-2016: Appendix G

Tuesday, April 18, 2017 – 1:00 p.m. to 4:00 p.m.

Air-to-Air Energy Recovery Fundamentals

Wednesday, May 3, 2017 – 1:00 p.m. to 4:00 p.m.

Air-to-Air Energy Recovery Applications: Best Practices

Tuesday, May 9, 2017 – 1:00 p.m. to 4:00 p.m.

Humidity Control: Basic Principles, Loads and Equipment

Tuesday, June 13, 2017 – 1:00 p.m. to 4:00 p.m.

Humidity Control: Applications, Control Levels and Mold Avoidance

Tuesday, June 20, 2017 – 1:00 p.m. to 4:00 p.m.

NEW! New ASHRAE-Classified Refrigerants to Meet Society's Changing Needs

Tuesday, July 11, 2017 – 1:00 p.m. to 4:00 p.m.

Advanced High-Performance Building Design

Wednesday, August 9, 2017 – 1:00 p.m. to 4:00 p.m.

NEW! Fundamental Requirements of Standard 62.1-2016

Wednesday, September 6, 2017 – 1:00 p.m. to 4:00 p.m.

Designing High-Performance Healthcare HVAC Systems

Tuesday, September 19, 2017 – 1:00 p.m. to 4:00 p.m.

Laboratory Design: The Basics and Beyond

Tuesday, October 10, 2017 – 1:00 p.m. to 4:00 p.m.

Introduction to Ultraviolet Germicidal Irradiation (UVGI) Systems

Monday, October 16, 2017 – 1:00 p.m. to 4:00 p.m.

NEW! Complying with Standard 90.1-2016

Part I: Wednesday, November 1, 2017 – 1:00 p.m. to 4:00 p.m.

Part II: Tuesday, November 7, 2017 – 1:00 p.m. to 4:00 p.m.

NEW! New ASHRAE-Classified Refrigerants to Meet Society's Changing Needs

Tuesday, December 5, 2017 – 1:00 p.m. to 4:00 p.m.

ASHRAE HVAC Design Training

2 Courses, 5 Days of Intense Instruction

Atlanta • Dallas • Doha • Hartford • Toronto

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 and learn how your Chapter can earn PAOE points.

Contact Karen Murray (kmurray@ashrae.org) to discuss scheduling ASHRAE HVAC Training in your Chapter area.

The Benefits of an ASHRAE Certification

SHINE IN A RISING FIELD

Certification validates critical job knowledge, skills and abilities in a given practice area.

GAIN A COMPETITIVE EDGE

ASHRAE certifications are recognized by over 30 national, state and municipal entities.

DISTINGUISH YOURSELF

Use the ASHRAE Certified logo and designation—e.g. Curtis Smith, BEAP, BEMP—in email signatures, professional networking and business cards to enhance your reputation.

LET ASHRAE PROMOTE YOUR ACHIEVEMENT

Certificants and their employers are listed on the website and in ASHRAE *Insights*.



Certified

5 Easy Steps to Earn and Maintain an ASHRAE Certification

1. Read the *Candidate Guidebook*

Visit www.ashrae.org/certification and download the guidebook for the program in which you are interested.

2. Complete the Application

Complete the online application at www.ashrae.org/certification. Membership in ASHRAE is not a requirement for certification.

3. Schedule an Examination

BCxP, BEAP, BEMP, HBDP, HFDP and OPMP examinations are offered at over 300 conveniently located computer-based testing centers worldwide. Candidates may schedule an examination appointment online or by telephone.

4. Review Available Resources

The *Candidate Guidebook* for a program identifies available resources, including practice exams, that may help candidates gain an understanding of the body of knowledge that the examination tests. Purchase of books or course registrations is not a prerequisite to taking any ASHRAE certification examination.

5. Renew the Certification

Each certification is renewable every three years. To retain certification, each certification holder must earn 45* Professional Development Hours (PDHs) during the three year period following initial certification or the last renewal.

*BCxP requires 50 PDHs.

Schedule an exam at one of over **300 testing centers** worldwide **TODAY!**

To learn more or apply, please go to
www.ashrae.org/certification

ASHRAE Certification

More than 2,500 professionals certified in six key built-environment fields.

Are You Ready to Join Them?



Validation. Pride. Recognition.

"Because of the high level of expertise, professionalism and ethics demonstrated by ASHRAE, achieving certification under their established requirements implies one of the highest levels of competence and knowledge available in the industry."

Jeffrey G Ross-Bain, BEMP, Ross-Bain Green Building, LLC



Certified

ASHRAE, the standard setter for sustainable building performance and system design and operation, validates through certification the critical knowledge, skills and abilities of professionals in six key, built-environment fields.

Recognized by over 30 national, state and local government bodies – and with over 2,500 certifications earned – ASHRAE certifications increasingly have become the must-have credential for built-environment professionals.

Building Energy Modeling Professional (BEMP)



The BEMP certification validates competency to evaluate, select, implement, calibrate and interpret the results of energy modeling software when applied to new and existing building and systems energy performance.

The BEMP certification complements ASHRAE's Building Energy Quotient (BuildingEQ) program by helping to ensure that only qualified practitioners can submit As Designed Workbooks to receive building ratings from ASHRAE. Only those certified as BEMPs, and Professional Engineers licensed in the jurisdiction where a BuildingEQ project is located, may submit the As Designed Workbooks to ASHRAE. Like BEAPs who may submit In Operation BuildingEQ Workbooks, BEMPs may display the BuildingEQ Certified Provider logo with descriptions of their services.

Building Energy Assessment Professional (BEAP)



The growing emphasis on energy consumption reduction and cost savings has highlighted the need for credible specialists who assess energy use in buildings. The BEAP certification validates competency to audit, assess and analyze residential, commercial and industrial building energy use and develop and implement recommendations.

The BEAP certification is integral to ASHRAE's Building Energy Quotient (BuildingEQ) program, as is its BEMP certification. Together, the programs provide a valuable toolkit when it comes to the evaluation and reduction of building energy use. Two separate Workbooks, As Designed and In Operation, are part of the BuildingEQ program. Submitting both of these Workbooks can earn an As Designed and In Operation building rating. Only those certified as BEAPs, or Professional Engineers licensed in the jurisdiction where a BuildingEQ project is located, may submit the In Operation Workbook. Additionally, only BEAPs (and BEMPs whose certification relates to the As Designed Workbook) may display the BuildingEQ Certified Provider logo with descriptions of their services.

Healthcare Facility Design Professional (HFDP)



The HFDP certification validates competency to incorporate standards, guidelines and regulatory codes as well as unique healthcare facility requirements and design principles in HVAC system design.

Growing numbers of aging medical facilities, advances in technology, shifting environmental requirements and an increasingly older population have created a critical need for expansion and renovation of healthcare facilities.

Operations & Performance Management Professional (OPMP)



The OPMP certification validates competency to manage facility operations and maintenance to achieve building performance goals, including those related to indoor environmental quality, health and safety.

Today's complex buildings can fade from green to gray when building operators don't realize the full potential of the systems they manage. Staying current with the latest facility operation strategies and technologies can reduce energy use in buildings by 10% to 40%.

Value of Earning Your ASHRAE Certification

In a recent "Value of Certification" survey, this is what ASHRAE-certified professionals had to say:

- ASHRAE Certification validates my level of specialized knowledge and ability (89%).
- ASHRAE Certification helps differentiate me from my peers (82%).
- In my field, ASHRAE Certification has provided me with greater professional recognition (73%).

Building Commissioning Professional (BCxP)



The BCxP certification validates competency to lead, plan, coordinate and manage a commissioning team to implement commissioning processes in new and existing buildings.

Many building owners look for ways to lower energy bills, reduce change orders during construction, avoid premature equipment replacement costs, and create safer and healthier buildings. Building commissioning measures and tunes up performance of existing buildings and ensures that new buildings begin their lifecycle at optimal productivity.

High-Performance Building Design Professional (HBDP)



The HBDP certification, an ANSI accredited certification program, validates competency to design and integrate sustainable HVAC&R systems into high performing buildings.

Today's building design market requires use of ground-breaking technologies in new and existing structures to meet the need of building owners.