



CLEVELAND ASHRAE NEWSLETTER

January 2015



JANUARY LUNCH MEETING

Energy/Electric Rates

Wednesday, January 21, 2015

Speaker: Tom Schmuhl – Director of Sales, FirstEnergy Solutions

Times: 11:30 AM - 11:50 AM Member Sign-In
 11:50 AM - 12:20 PM Lunch
 12:20 PM - 1:00 PM Presentation

Location: Harry's Steakhouse
 5664 Brecksville Road
 Independence, OH 44131

R.S.V.P. via your Constant Contact invitation.
Guests are welcome for a \$25 meal charge.

Please join us for a rousing discussion on the major components of a customer's electric bill and the market forces which are causing those to change over time. We will discuss impacts of clean air requirements and how these will impact customers in the future. We will also explore steps customers can take to mitigate the impact of clean air requirements which are placing upward pressure on the supply of energy.

This Month's Sponsor

R.L. Deppmann Company

6910 Treeline Drive, Suite A
Brecksville, Ohio 44141
Phone: (440) 529-2439
FAX: (440) 526-6454
Website: www.deppmann.com



If you are interested in sponsoring the newsletter,
please contact Jack Malone at 216-391-3700.



THE PRESIDENT'S CORNER

BY DOUG BARNES



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2014-2015

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Research Promotion	Shariq Ali
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Student Activities	Matt Nelson
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Science Fair	Steven R. Armstrong
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Golf Outing	Louis A. Bentzen Ken Borah
Engineer's Week	James G. MacMillan
Special Events	Brian McFearin
Sunshine Fund	James W. Wickert
Website	Matt Nelson

Happy 2015 to all our Cleveland chapter members!

I hope you have successfully navigated the holiday season without overdoing it on eggnog and fruitcake or catching the dreadful flu bug.

A couple of quick New Year thoughts:

You may have received a "home energy report" from your gas utility rating your gas usage last winter. My post-war era home earned a rating of two smiley faces for being more energy efficient than similar houses. Was it due to adding insulation to my walls , a high efficiency furnace, or some other modern engineering marvel? Nope. Much to my wife's chagrin , it's because we keep our thermostat too low. I proudly showed her how much money we had saved to the response, "That's nice, honey, it's cold in here." Followed by her walking out of the room muttering something about the cobbler's kids not

having any shoes.

You may have also happened to be channel surfing on New Year's Eve between the major stations. I paused on a station that was covering Downtown Cleveland's celebration CLE Rocks NYE. There was something distinctive about that coverage that separated it from the glitz of Times Square or the glamour of Hollywood or the skimpy dress of Miami. To borrow a term made famous by [Frankie Yankovic](#), I can only describe it as "Cleveland Style." It would have made Drew Carey proud.

Have you ever taken a picture in the field, only to wish it was two feet to the left when you got back to the office? A couple engineers in our office have discovered a free app that can help with that.

[Photosynth](#) by Microsoft allows the user to take a series of photos in a multitude of directions and stitch them together to create a 360-degree view of the space you were in. Try it out – it may save you an extra trip to a job site.

Enjoy this month's speakers on Electric Utility Rates. I will be out of town, but am looking forward to the rest of our meetings this coming year.

- Doug Barnes



SPEAKER INFO



TOM SCHMUHL | **FirstEnergy Solutions**
Director of Sales | Akron, Ohio



Tom Schmuhl is the Director of Sales, FirstEnergy Solutions headquartered in Akron, Ohio. Primarily responsible for Business Development by leading a team of energy professionals located throughout the PJM RTO market. Mr. Schmuhl has helped FirstEnergy Solutions become one of the largest retail supplier behind PJM. FES holds lead share positions in several markets promoting innovative product offerings to a vast number of commercial and industrial customers throughout the Midwest and mid-Atlantic regions.

Tom Schmuhl was previously the Product Manager for Electric Commodity, FirstEnergy Solutions with responsibilities for Product Development and Product Deployment within the Midwest ISO and PJM. Mr. Schmuhl has worked in various capacities in the Sales and Marketing areas at FirstEnergy Solutions throughout nearly twenty year career in the energy field.

During the years prior to electric deregulation Mr. Schmuhl worked in various selling capacities including the energy management arena working with large multi-state firms with energy spends in excess of \$10M.

Prior to joining FirstEnergy Solutions Mr. Schmuhl was the Vice President of Sales & Marketing for a national firm serving the mortgage industry. Mr. Schmuhl resides in Norwalk, Ohio.

ASHRAE Scholarship Application



If you know of someone who is actively attending college to earn a mechanical or architectural engineering degree at a Northeast Ohio University or out of the area but is from the Northeast Ohio area, please point them in a direction of a Sal Triana Scholarship possibility. The intent of this scholarship is to help those engineering students seeking to someday make a career in the HVAC consulting/engineering/sales businesses get through the financial struggles of a higher education.

Applications can be found on the Cleveland ASHRAE Website and e-mailed to kborah@karpinskieng.com. If you have any questions please feel free to contact Ken Borah at **216-391-3700**.



IN THE NEWS...



ASHRAE NOTES

Reminder: Atlanta Conference
Program Proposals Accepted Jan. 5th through Feb. 9th, 2015!
Submit online at ASHRAE.org/Atlanta

An ASHRAE Conferences and Expositions Committee (CEC) Newsletter for TC Chairs, Program Subcommittee Chairs and Interested Parties SY 14/15 (November 2014)

Conference	Hotel/Web Site
2015 Winter, Chicago January 24-28, 2015	Palmer House Hilton www.ashrae.org/chicago
2015 Annual, Atlanta June 27 - July 1, 2015	Hilton Atlanta www.ashrae.org/atlanta

Help CEC, Help You

In the past, CEC has requested that conference presentations be uploaded in the month prior to the Conference opening, for commercialism review. Over the past two years, the number of presentations not uploaded before the conference opening has continually increased, which has led to many difficulties within the technical program. If a presenter misses a flight or has a family emergency that prevents them from attending, we don't have a pre-loaded presentation. The chair or other program presenter cannot give the presentation that our membership has paid to see, and members are disappointed with the gaps in the technical program.

To better manage this issue, starting at the 2016 Winter Orlando Conference, presentations will be REQUIRED to be uploaded before the conference opening onsite. If a presentation is not uploaded, the presenter will be assessed a strike, within our 3 strike program. If a presenter collects three strikes, he/she will not be selected to present at another ASHRAE conference until the issue is resolved.

Chicago 2015 Conference- Ready to Go!

The Chicago Technical Program features more than 100 sessions and 300 speakers over 8 tracks. The keynote speaker at the opening Plenary Session is Aron Ralston, adventurer and subject of the film *127 Hours*. In April 2003, during a hike into a remote area of Utah's canyon country in April 2003, Ralston accidentally dislodged a boulder that crushed and pinned his right hand. After six days of entrapment alone, he freed himself with a cheap multi-tool knife and hiked to a miraculous rescue. Since his amputation, Ralston has written an internationally bestselling book, *Between a Rock and a Hard*

Place, later turned into a movie nominated for six Oscars. He is an engineer and was an Associate Member of ASHRAE for five years and a corresponding member of TC 9.11.

Once again, a session will be held in conjunction with the AHR Expo at McCormick Place, and technical tours include a Walgreens Net-Zero store, a brewery, and McCormick Place.

AHR Expo

The ASHRAE co-sponsored AHR Expo, www.ahrexpo.com, will take place Monday through Wednesday, January 26-28, 2015 at McCormick Place.

Atlanta 2015 Annual Conference- Update!

The conference is off to a strong start with 132 conference paper abstracts submitted. Some upcoming deadlines to keep in mind:

1/5/15: Website opens for seminar, forum, and workshop proposals. Also, Final Conference Papers are due.

2/9/15: Seminar, Forum, and Workshop proposals due.

2/13/15: Revised Conference Papers/ Final Technical Papers due. For more information about the conference and tracks, go to www.ashrae.org/Atlanta

Atlanta Conference Tracks

- Track 1** HVAC&R Systems and Equipment
- Track 2** HVAC&R Fundamentals and Applications
- Track 3** Research Summit
- Track 4** Refrigeration
- Track 5** Building Operation, Maintenance, and Optimization/ Commissioning
- Track 6** Indoor Air Quality
- Track 7** Modeling throughout the Building Life Cycle
- Track 8** High Performance Buildings
- Track 9** Moving Advanced Energy Design Guidance to the Mainstream



IN THE NEWS...



NOTES

Future Winter and Annual Conferences

Winter 2015 – Chicago, Illinois; Jan. 24 – 28

Annual 2015 – Atlanta, Georgia; June 27 – July 1

Winter 2016 – Orlando, Florida; Jan. 23 – 27

Annual 2016 – St. Louis, Missouri June 25 – June 29

Specialty Conferences

International Conference on Energy and Environment in Ships

May 22 -24, 2015

Athens, Greece

www.ashrae.org/ships2015

International Conference on Energy Research and Development

November 9-11, 2015

Kuwait

ASHRAE IAQ 2016: Defining Indoor Air Quality: Policy, Standards and Best Practice

September 12-14, 2016

Alexandria, Virginia

Seattle 2014 Conference Recap

The Technical Program for Seattle contained 97 programs, 38 technical papers, 82 Conference Papers, 49 Seminars, and 12 Workshops, 3 Special Sessions and a Forum and Technical Plenary. 1770 attendees converged in Seattle, to seek new ideas, fellowship and SUN! We heard from Robert Bryce, about how humans are doing more with less and why we have every reason to be optimistic about the future in our Plenary. Technical Keynote Speaker and pioneer of Earth Day, Denis Hays, presented a different vision for renewable energy. Dr. William Bahnfleth explored the topic, "Are we Putting Enough Energy into Making Buildings Healthy?" in the Indoor Environment track Keynote address, and the Research Summit keynote address was presented by Krishnan Gowri, entitled, "Big Data, Bigger Challenges and Greater Opportunities. One of the highlights of the Technical Program was the Ground Source Heat Pump Track. The track was very comprehensive for engineer practitioners, which truly presented the state of the art of design, performance, and research in GSHP design.

Also in Seattle, the "workshop" sessions have continued and are starting to catch on with the technical committees as a great way to present short presentations with an increased emphasis on audience participation for young professionals in ASHRAE. The program featured 11 workshops including ASHRAE Presidential Fellow Bill Coad debating the ASHRAE Code of Ethics with

Larry Spielvogel; Peter Simmonds/ Steve Taylor on VAV Reheat vs. Active Chilled Beams; and Paul Doppel/ Brian Bogdan on Variable Refrigerant Flow.

The **Speaker and Program evaluations** that were completed by attendees at the Seattle Conference are now available online at: www.ashrae.org/seattleevaluations

Conferences and Expositions Committee

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IN THE NEWS...



ASHRAE Certification Programs

BEAP, BEMP, CPMP, HBDP, HFDP, and OPMP Practice Exams Available

The practice exams are designed to be similar in content and difficulty to the actual certification exam. They are low-cost, online tools for limited self-assessment with a score report overview of performance at the end of the exams.

Visit www.ashrae.org/certification to learn more about ASHRAE certifications.

New Publications from ASHRAE

ASHRAE, a leader in building information technology, develops publications that impact every facet of the environment, both indoors and out.

Data Center Design and Operation – ASHRAE Datacom Series CD 4th Ed.



This CD-ROM presents the full text of all eleven ASHRAE Datacom Series publications and Standard 127-2012 in fully searchable and printable PDF format. Authored by ASHRAE Technical Committee 9.9, the Datacom Series provides comprehensive treatment of data center cooling, energy efficiency, and related subjects.

\$289 (\$246 ASHRAE Member) / CD / 2014

ASHRAE Reference Offers Design Guidance on Healthcare HVAC Systems



The second edition of *HVAC Design Manual for Hospitals and Clinics* provides in-depth design recommendations based on best practices from consulting and hospital engineers, with a focus on presenting what's different about healthcare HVAC systems.

\$129 (\$109 ASHRAE Member) / 312 pages / 2013

Visit www.ashrae.org/bookstore to learn more about these and other outstanding ASHRAE publications!



MEMBERSHIP PROMOTION



What is it you say you do here?

This January I want to take a minute to highlight our membership promotion (MP) committee. The two main responsibilities of the MP committee are to sing the gospel of ASHRAE in hopes of attracting new members and to help to retain existing members. In our chapter we also produce a product directory and roster for the use of our members. You will be seeing some emails about this year's edition in the coming weeks as we try and improve our process for producing that publication.

Our chapter has been growing steadily the past few years and now stands at about 345 members strong. I would like to thank each one of you for supporting ASHRAE and for being a part of our organization. ASHRAE really is an important force in setting the path forward for our industry and we all benefit from the research and resources that are made possible by your contributions and activity. Many chapters in our region have been steadily shrinking, but the steady growth of our membership is really a reflection of the strength of our industry in Northeast Ohio.

This month we have a topic that has a very broad focus that should appeal to not only our members, but also to many of those who may have not previously thought of coming to an ASHRAE meeting. I would encourage everyone to help grow our chapter by extending a personal invitation to those who you think would have an interest in understanding how our energy prices are set and what challenges lie ahead.

Lastly, I would like to acknowledge all of our new members this society year (since July 1).

Jeffrey Burke

Kayla Frey

Alexa Copeland

Chanjuan Han

Domenic DeCaria

Jay Johnson

Colin Dee

John Krutko

Pete DeVine

Alex Lunder

Caroline Feldman

Todd Ratkosky

Emily Fike

Katherine Schmid

Tara Sulzer

Dan Wight

I look forward to seeing you all at the meeting on the 21st.



2015 CONFERENCES



2015 Winter Conference and AHR Expo

Winter Conference: January 24-28 | Palmer House Hilton | Chicago, Illinois

AHR Expo: January 26-28 | McCormick Place | Chicago, Illinois

ASHRAE is excited to return to Chicago for the 2015 Winter Conference, its historically best-attended event. Attendees can discuss the latest topics in the building industry; participate in technical tours; attend ASHRAE Learning Institute courses; earn professional credits; and obtain ASHRAE certifications. Chicago also serves as the site of the AHR Expo, co-sponsored by ASHRAE and held in conjunction with the Winter Conference.

The two events combine to create the ideal atmosphere for those interested in advancing the building industry to network, inspect the latest technology and learn about the newest practices for the built environment. Don't miss the chance to participate!

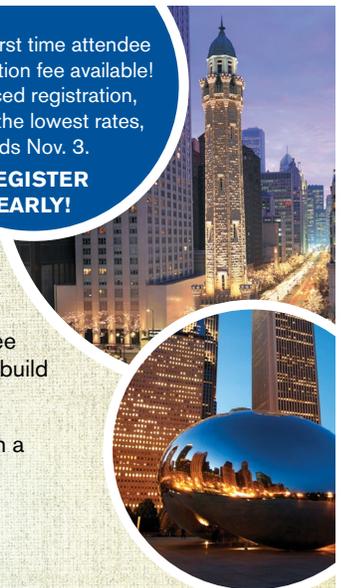


Join ASHRAE at its **Winter Conference** in Chicago, Jan. 24–28 **and AHR Expo** Jan. 26–28

Special first time attendee registration fee available! Advanced registration, offering the lowest rates, ends Nov. 3.

REGISTER EARLY!

- Gain personal and career excellence through peer contact, exchange of technical information and continuing education.
- 20 high-quality, authoritative Professional Development Seminars and Short Courses presented by the ASHRAE Learning Institute.
- Visit the World's Largest HVAC&R Marketplace. The AHR Expo brings the entire industry together to see the latest products and technology, learn about innovations and trends that are shaping the future, and build new relationships.
- With the Conference being held in the big city of Chicago, the Technical Program itself is going big with a focus on big projects, the big picture and big impacts. Eight tracks are featured.
- Gain valued credentials held by top engineers via ASHRAE's six Certification programs.
- See the technology you help create first-hand via a Technical Tour.



www.ashrae.org/chicago | www.ahrexpo.com



Click [HERE](#) for the AHR Expo Product and Show Guide!



SUNSHINE COMMITTEE



We extend our sympathy to member Doug Lancashire of Osborn Engineering, in the loss of his father, **Richard B. Lancashire**, who died August 9, 2014 in Michigan at 79. The elder Lancashire was a NASA mechanical engineer for 37 years, retiring as Deputy Division Chief of the Office of Advanced Space Analysis. In addition to his son Doug, he is survived by his wife Marilou, a daughter, another son, and eight grandchildren. A memorial service was held November 29, 2014 at the Westlake United Methodist Church.

We also note the passing of **Lieutenant Howard Benes**, retired Plan Reviewer for the Fire Prevention Bureau of the Cleveland Fire Department, at age 88, during the holiday season. Howard was the patient advisor to many of us seeking approval of our ideas and designs, in the process of obtaining Building Permits. He is survived by his daughters Linda and Sharon. His funeral was at the Independence United Methodist Church on Saturday, January 3, 2015.

*“When someone you love becomes a memory,
the memory becomes a treasure.”*



CHAPTER CALENDAR



2014

August 2014

Regional CRC

Location: [Detroit, Michigan](#)

September 15, 2014

Good, Better and Best Duct Design and Duct Leakage Measurement

Speaker: [Gerard Iacouzze](#)

Location: [Harry's Steakhouse](#)

October 20, 2014

VRF/ASHRAE 15

Speaker: [Mike Machemehl](#)

Location: [Harry's Steakhouse](#)

November 17, 2014

Stratified Air Ventilation Systems

Speaker: [Dr. Kishor Khankari](#) –

Distinguished Lecturer

Location: [Harry's Steakhouse](#)

2015

January 21, 2015

LUNCH MEETING

Energy/Electric Rates

Speaker: [Tom Schmuhl](#)

Location: [Harry's Steakhouse](#)

February 18, 2015

LUNCH MEETING

Fuel Oil Systems

Speaker: [Andrew Johnson](#)

Location: [Harry's Steakhouse](#)

March 11, 2015

People, Passion, Performance

Speaker: ASHRAE President [Tom Phoenix](#)

Location: [Harry's Steakhouse](#)

April 20, 2015

Potential Distinguished Lecturer

Speaker: TBD

Location: [Harry's Steakhouse](#)

May 18, 2015

Potential Distinguished Lecturer

Speaker: TBD

Location: [Harry's Steakhouse](#)