



CLEVELAND ASHRAE NEWSLETTER

April 2012



APRIL MEETING

Win Win Contracts – IPD & BIM

April 16, 2012

Speaker: Hank Reder

Times:	4:15pm - 5:30pm	Board Meeting
	5:30pm - 6:15pm	Attitude Adjustment Hour!
	6:15pm - 7:15pm	Dinner
	7:15pm - 8:15pm	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.

At our Monday, April 16th meeting we welcome Mr. Hank Reder. Mr. Reder will be discussing "Win Win Contracts - IPD & BIM." As our construction industry continues to change, the implementation of Integrated Project Delivery will increase and Hank will be presenting key points to consider in your contracts for these types of projects.

This Month's Sponsor



Carrier

A United Technologies Company

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



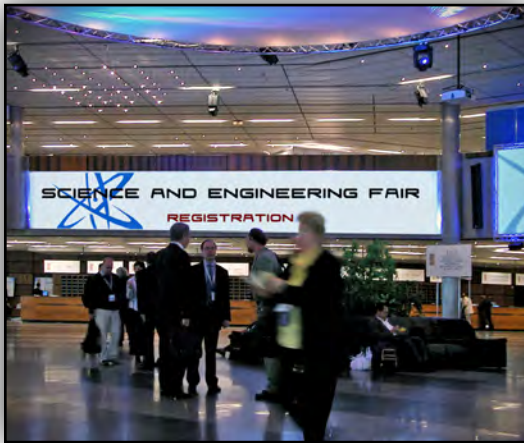
THE PRESIDENT'S CORNER

BY SHAWN BERES



OFFICERS & COMMITTEE CHAIRMEN

Each year in March, the Cleveland ASHRAE Chapter, represented by Steve Armstrong, participates in judging the Northeast Ohio Science and Engineering Fair (NOSEF). This science and engineering fair determines the winners, from each of the school districts, who will go on to competing at the regional level. The winners of the regions move forward to compete at an international level.



I have had the great fortune of judging the last seven science fairs with Steve Armstrong. For me, it's great to see so many young future engineers and scientists. It's also interesting to see the faces of these kids light up when they find out that we are "real" engineers representing ASHRAE. I can still remember that feeling in meeting an engineer in my youth.

It was like meeting a superhero of sorts; someone we aspire to be like. It is important, as Cleveland ASHRAE members, we mentor the youth who have gravitated towards the

hard sciences and the field of engineering. For these kids will one day be designing the bridge we drive over, performing surgery on a loved one, or designing conditioning systems for buildings we occupy.

We also need to mentor the new engineers in our profession. One of the best ways we can mentor our new engineers is having our companies sponsor the cost of their membership in ASHRAE and encouraging them to attend our meetings. Their attendance will pay dividends by the quality of engineer they develop to the businesses that sponsor and encourage them in ASHRAE.

I look forward to mentoring and encouraging of ASHRAE-Cleveland Chapter in both the youth interested in the hard sciences as well as the new engineers in our profession.

- Shawn W. Beres

2011-2012

Officers and Board of Governors

President	Shawn Beres
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Board of Governors

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Chapter Technical Transfer Committee	Robert Laneve
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Membership & Roster	Brendan Hall
Product Directory	Daniel J. Bacik
Research Promotion	Kris Haycook
Newsletter	James Dudd
Student Activities	Scott K. Jordan
Honors & Awards	Fred H. Hollman
Historian	Dave Deschler
Science Fair	Steven R. Armstrong
Meeting Host	Scott Dusenbury Shariq Ali
Scholarship Fund (Sal Triana & Gardiner)	Ken Borah Billy Kodosky Shawn Beres Gary Gardiner
Golf Outing	Louis A. Bentzen Ken Borah
Engineer's Week	James G. MacMillan
Special Events	Brian McFearin
Budget & IRS Compliance	Fred H. Hollman
Sunshine Fund	James W. Wickert
Website	Matt Nelson



SPEAKER BIO



Mr. Henry "Hank" Reder, AIA, Esq.

Henry I. "Hank" Reder, AIA, ESQ. is an attorney and a registered architect in the State of Ohio. Mr. Reder's 32 years as an attorney focuses on architectural and construction law representing a wide range of owners, architects, engineers, construction managers and contractors in hospital project consulting, planning, team building, contracts, design issues and construction claims or litigation. Mr. Reder is a member of the American Bar Association's Forum on the Construction Industry and Construction Litigation Section; a professional member of the Ohio State Bar Association and its construction law committee; a corporate member of the American Institute of Architects; including past president of AIA Ohio and AIA Cleveland; former director of the Cleveland Chapter of the Construction Specification Institute; member of the Construction Industry Affairs Council of Cleveland; past member of the American Arbitration Association's Construction Advisory Council; and an arbitrator for the American Arbitration Association since 1979. He is currently serving a five year appointment to AIA National's Risk Management Committee. Since 2006, he has been listed by Chambers USA, America's leading Lawyers for Business, in the area of Construction. Mr. Reder's prior experience includes 11 years with architectural firms including Liverpool England and seven years as a professor in the Kent State University School of Architecture including Co-Director of its Florence Italy Program (1982).

MARCH MEETING RECAP

On Wednesday, March 21, 2012 our chapter gathered for a lunch presentation by Mr. Scott Bissett of Armstrong Monitoring Corporation. Mr. Bissett discussed "Gas Detection for Commercial Buildings." Gas detection is quite often used for reasons such as life safety, regulatory compliance, ventilation control, energy management, asset protection and labor relations. In the commercial market, product applications typically include vehicle exhaust, indoor air quality, refrigeration, combustible gases and toxic gas leaks. Typical measurement values involve parts per million or percent by volume, but for combustible gases the lower explosive limit is monitored. A typical

detection system consists of the sensor, the transmitter and the monitor/controller. After explaining the characteristics of the common sensor technologies of electrochemical, solid state, catalytic and infrared, Scott discussed common application examples. These examples included vehicle exhaust, indoor air quality, refrigerants/mechanical rooms, and combustible gases. Special attention was given to the specific components required for compliance with refrigerant room monitoring. The attendees were reminded that many systems continue to be installed with missing components. For vehicle maintenance facilities, it is important to use electrochemical

sensors; typically sized for about 7500 square feet per sensor while keeping in mind a 50 foot radius of coverage. Combustible gas sensors should be sized for a approximately 20-25 foot radius of coverage. Attendees left with a much better understanding regarding the selection, application and technology behind gas detection systems. Thank you Scott for visiting our Cleveland ASHRAE Chapter. Special thanks also goes out to Scott for presenting to both Columbus ASHRAE and Cleveland ASHRAE in the same week!

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...



Region V CRC

We continue to build momentum toward our “really big” CRC dates of **August 9, 10, and 11!**

Our golf marshal and past-President Lou Bentzen got us a sweet deal at Columbia Hills Country Club for Thursday's Welcome Golf Outing.

We would like to welcome **Brendan Hall** as our latest planning team member! Brendan will be our hotel “ground zero” and registration coordinator. We could use some help for Brendan!

Speaking of sponsorships - Dennis Wessel welcomes our newest **Platinum** sponsor, **Air Control Products**. Other new sponsors include Karpinski and Victaulic.

Our next planning committee meeting is **Tuesday April 10th** at noon at Karpinski Engineering's office. Lunch is provided.

For more information on sponsoring the CRC or attendance information, please review the information on the CRC website at: <http://www.clevelandashrae.org/crc/>.



ASHRAE RESEARCH PROMOTION

THANK YOU DONORS!

The Cleveland Chapter would like to recognize **Rick Zbin** and **Ann Stockmaster** for agreeing to the 10% challenge in Cleveland! What is this you ask? They have agreed to donate 10% of our chapter's RP campaign, potentially **\$2500** for the **5th** year in a row. These donors are a rare find, and we hope to make them proud of our accomplishments this year!

ASHRAE would like to extend a special thank you to all of those who generously donated to Research Promotion so far this year and invite others to add their name to this list!

Air Control Products - Cleveland
Armor & Associates
Boyd Lofgren & Co
Brewer Garrett Company
Denk Associates Inc
Direct Air Systems Inc
Energy Control
Fulton & Associates
H.E.A.T. Total Facility Solutions
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The Libb Company
Wadsworth Slawson Northwest
Young Regulator Co

The Cleveland chapter has raised just over **\$7,300.00** with our goal of **\$18,000!**

To support and invest in ongoing efforts of ASHRAE that provide our engineering community with the tools and knowledge for successful designs, go to: www.ashrae.org/rp.



SUNSHINE COMMITTEE



*P*aul C. Menster, long-time ASHRAE Member, died in mid-March at age 90. He had been living recently at the Laurel Lake Community in Hudson while his Parkinson's Disease progressed. Paul was raised in Louisville, Ohio, in the rural area east of Canton. Following service in World War II, he graduated from Case Institute of Technology, where he was a member of Phi Kappa Psi. He began his career with the Carrier office in Cleveland, travelling the region by railroad to call on Carrier distributors every week or two to provide manufacturer's engineering support. He then worked for a period for Roth Brothers in Youngstown, before he started his own Consulting Engineering Practice, with early employees Joe Denk Sr. and Jim Kish. That firm later became Menster McHenry, and continues today, after Paul's retirement, as McHenry and Associates.

Paul was dedicated to saving energy, long before that attitude became fashionable. He became an expert in Ice Skating Rink design and Ammonia Refrigeration. He was very active in ASHRAE, serving on the international Nominating Committee and the Technology Council, and on the vital core technical committees TC 4.1, Load Calculations and Procedures, and TC 10.1, Custom Engineered Refrigeration Systems, as well as contributing his special expertise as a member of TC 10.2, Automatic Icemaking Plants and Skating Rinks. In recognition, ASHRAE gave him the Distinguished Service Award in 1993, and the Distinguished 50-Year Member Award in 2003. We miss both Paul's subtle sense of humor, and his late wife Esther's effervescence, at our Chapter social events. His funeral Mass was held at St Gregory the Great Catholic Church in South Euclid on Monday, March 19, 2012, where Fred Hollman, Bill Vadakin Sr., and several others represented our Chapter. He was buried in All Souls Cemetery. He is survived by a brother, four daughters and one son, and eight grandchildren.



April 19, 2012 1:00 PM–4:00 PM EDT

Dedicated Outdoor Air Systems:

A Path to Balancing Energy and IEQ

Hear leading experts discuss the role of Dedicated Outdoor Air Systems in the overall HVAC system and describe various DOAS equipment configurations, characteristics, and applications. This webcast will identify common design and operational pitfalls, and cover challenges unique to DOAS.

FREE
ASHRAE
Webcast

Presenters



Ron Jarnagin, 2011–12
ASHRAE President
Staff Scientist | Pacific Northwest National Laboratory | Richland, WA



Tim McGinn, P.E., LEED AP
Principal | DIALOG | Calgary, AB, Canada



Stan Mumma, Ph.D., P.E.
Professor Emeritus | Pennsylvania State University | University Park, PA



John Murphy, LEED AP
Applications Engineer | Trane | La Crosse, WI

Viewing held at Karpinski Engineering's multimedia conference room conveniently located at:

3135 Euclid Ave Cleveland, OH 44115

Lunch sponsored by Cleveland ASHRAE chapter at Noon followed by webcast

PDH Credits are available to viewers who complete the "Participant Reaction Form"

RSVP to Doug Barnes DBarnes@karpinskieng.com by April 16, 2012.

Sponsored by:



valent
AIR MANAGEMENT SYSTEMS



Brought to you by the ASHRAE Chapter Technology Transfer Committee

For more information about the program, presenters, continuing education credits, sponsorships, and DOAS resources please visit us at www.ashrae.org/doaswebcast



2012 ANNUAL CONFERENCE



Join ASHRAE at its **2012 Annual Conference**

June 23–27, 2012/San Antonio, Texas



Special
Rates for
**First-time
Attendees**

First time attendee registration fee—
a special rate of \$320 if you register by June 1;
\$480 during onsite registration that begins June 11.

Join ASHRAE in San Antonio! Take advantage of the opportunity to discuss and examine the latest topics in the building industry, such as high performing buildings and integrated design, through the technical program; participate in technical tours; attend ASHRAE Learning Institute courses; and earn professional credits.

Technical Program – From integrated energy systems to indoor environmental applications, the Technical Program features seven tracks addressing topics and principles important in the HVAC&R industry today. The technical program also features a new mini-conference format on Integrated Building Controls. Earn PDHs, AIA LUs and LEED AP credits.

Virtual Conference – If you can't make it to San Antonio, take advantage of the knowledge shared in the technical program with the on-demand Virtual Conference recordings of all the presentations.

ASHRAE Learning Institute – ASHRAE Learning Institute provides high-quality courses presented by industry-recognized subject matter experts. Select from two all-day seminars and six half-day courses to stay current on HVAC&R trends.

www.ashrae.org/sanantonio



CHAPTER CALENDAR



September 19, 2011

Airside Economizer
Regulatory Evolution
Eric Hancock

Location: [Harry's Steakhouse](#)

October 17, 2011

Energy Plus
Drury Crawley, ASHRAE DL
Location: [Harry's Steakhouse](#)

November 21, 2011

Fan Efficiency Grades
YEA Night

Location: [Harry's Steakhouse](#)

January 18, 2012

Lunch Meeting: Legionella Control
Location: [Crowne Plaza](#)

January 21-25, 2012

Winter Conference
Location: [Chicago, IL](#)

February 15, 2012

Lunch Meeting: Downtown Cleveland Alliance
Location: [Crowne Plaza](#)

March 21, 2012

Lunch Meeting: Hazardous Gas Sensing Technologies
Location: [Crowne Plaza](#)

April 16, 2012

Win Win Contracts - IPD & BIM
Location: [Harry's Steakhouse](#)

April 19, 2012

ASHRAE Webcast: DOAS
Location: [Karpinski Engineering](#)

May 21, 2012

Past Presidents Night
Location: [Harry's Steakhouse](#)

June 2012

Membership Promotion
Golf Outing

August 9-11, 2012

Region V CRC
Location: [Cleveland](#)