

CLEVELAND ASHRAE NEWSLETTER

September 2008



SEPTEMBER MEETING

The Evolution of VAV Systems -In Tribute to Bob Urban

September 15, 2008

Times: 4:15-5:30pm Board Meeting 5:30-6:15pm Happy Hour 6:15-7:15pm Dinner

7:15-8:15pm Dinner Presentation

Speaker: Jim Karpinski, Dave Nachman, Carl Opatrny, Brian

Wagner & Jim Wickert

Location: Harry's Steakhouse

5664 Brecksville Road Independence, OH 44131

R.S.V.P. @ (216) 373-0315 by 12:00 Noon on Friday, September 12th for Reservations. Please state if you need a CPD Certificate. Dress Attire is Business Casual.

Fall is in the air and we all know with every Fall comes a new year of ASHRAE! Hopefully, everyone had a great Summer and are now ready for a great year of ASHRAE!

For our first meeting on Monday, September 15, 2008, we will assemble a great team of industry professionals: Jim Karpinski of Karpinski Engineering, Dave Nachman of Panzica Construction, Carl Opatrny of the City of Independence, Brian Wagner of Comfort Control Group and Jim Wickert of Wickert Engineering. These gentlemen will be enlightening us about Bob Urban's revolutionary VAV Design in the 1960's (a first in the World, right here in Cleveland!), where VAV systems stand today, control characteristics of VAV systems and a possible look into the future of VAV.

Remember....this meeting is also STUDENT NIGHT...if you know any hard working students, offer them a "night-out-on-the-town" and bring them to the ASHRAE meeting!

This Month's Sponsor





THE PRESIDENT'S CORNER

BY MATT NELSON





September 9, 2008

Welcome back, I hope everyone had a fun and relaxing summer and is ready for the Cleveland ASHRAE chapter to kick-off another year of programming. In case you missed it, the first event of the year has already come and gone. The August outing, benefiting ASHRAE Research, was held a few weeks ago with much success. Our thanks go to Lou Bentzen and the other members who helped pull it off again to raise nearly \$4,000 to support ASHRAE Research. The winning team of Shawn Beres, Matt Morgan, Mike Heymann and Ken Tilley won the scramble on beautiful but windy day. I asked Shawn what his team's secret was and he said, "It was just total luck." If I had known that I would have bought them tickets to Vegas and made some money!

To start my presidential year I want to unveil this year's theme "The Year of the Freshman". This may not be as cool as Rick Long's "Let's Have Fun" theme or as sexy as Ken Borah's "Steak: It's What's For Dinner", but instead I wanted to set a theme that brought focus to what I think are important areas for us to develop ASHRAE locally. Some of the important goals that I would like to concentrate on this year are reviving a local student chapter, involving our younger engineers in our chapter, providing quality programming for our membership, and giving back to our community. If any of these topics strike a chord with you let me know. Don't be scared to get involved. What I strive for is to have all of us do a small part for our chapter instead of having a few members do all the "heavy lifting". This will involve the reinvestment of our older members as well as some first steps for our younger ones.

Now with my school theme in mind, our first program of the year will be revisiting some history curriculum titled "The Evolution of VAV, in Tribute to Bob Urban". This will be an exciting time so make sure you call into our reservation line to save your seat today.

Oh and Mr. Borah, yes, we will be having steak!

OFFICERS & COMMITTEE CHAIRMEN

2008-2009 Officers and Board of Governors		Refrigeration (CTTC)	Richard B. Long	Historian	Dave Deschler	Budget & IRS Compliance	Fred H. Hollman
<u></u>		()		Science Fair Steven R. Armstrong			
President	Matt Nelson	Gov't Activities	Matt Nelson		CI D	Sunshine Fund	James W. Wickert
President Elect Treasurer	Robert Laneve Billy Kodosky	(CTTC)		Meeting Host	Shawn Beres Joe Deucher		
Secretary	Shawn Beres	Membership &	Billy Kodosky				
Board of Governors		Roster		Scholarship Fur (Sal Triana &	nd Scott K. Jordan Richard B. Long		
Bodia of Governors	Ken Wissner Joe Deucher	Product Directory	Daniel J. Bacik	Gardiner)	Jerald K. Cohen Gary Gardiner		
	ominic Cacolici	Research	Dominic Cacolici		· · · · · · · · · · · · · · · · · · ·		
6 ''' 1.61		Promotion		Golf Outing	Louis A. Bentzen		
Committees and Chairs		Newsletter	Matt Morgan		Ken Borah		
Chapter Technical		Mail Morgan	Engineer's Week James G. MacMillan				
Transfer Committee	Robert Laneve	Student Activities	Scott K. Jordan				
	D 1		5 111 11 11	Special Events	Mike Denk		
Programs (CTTC)	Robert Laneve	Honors & Awards	Fred H. Hollman	(December Soc	ial)		



SUMMER RECAP

Current Awards...

2007-2008

CHAPTERS' REGIONAL CONFERENCE (CRC)
HONORS & AWARDS
REGION V



CRC PRESIDENTIAL AWARD OF EXCELLENCE (PAOE): KEN WISSNER

PAOE - Achieved minimum requirements in all categories of Chapter Operations, Technology Transfer, History, Membership Promotion, Research Promotion and Student Activities. Additionally, the Cleveland Chapter had the highest point total for Research Promotion in Region V.

Programs

TOP DOG – CIRCULATION PLAQUE: ROB LANEVE

*This is the Second year in a row that Rob Laneve has won.

Research Promotion

FULL CIRCLE AWARD (PATCH FOR BANNER): CHAPTER OFFICERS

*Each Chapter Officer and Research Promotion Chairman Dominic Cacolici has contributed at least \$100 to Research, in addition to the Efforts of their Office.

GOAL AWARD: DOMINIC CACOLICI

*The society amount assigned to the Chapter has been achieved

HIGH "5" AWARD: DOMINIC CACOLICI

*High 5 Award is computed as the average of last 5 years that has been exceeded.

CHALLENGE AWARD: DOMINIC CACOLICI

*Challenge Award adds 10% to the High 5 Award and has been exceeded.

TOP 5 AWARD: DOMINIC CACOLICI

*Top 5 Award is sharing recognition with other CRC Chapters.

Next CRC at:

Akron

July 30, 31, & August 1st, 2009

GOLF OUTING WINNERS

Membership Promotion (June): Mike Baraldi

Research Promotion (August): Shawn Beres

Matt Morgan Mike Heymann Ken Tilley

Congrats to Newly Elected Officers and Board of Governors

President

Treasurer

Matt Nelson Billy Kodosky

President-Elect

Chapter Board of Governors

Rob Laneve

Dominic Cacolici Joe Deucher

Secretary

Ken Wissner

Shawn Beres



REGION V

ASHRAE RESEARCH PROMOTION CAMPAIGN '08-09



Thank you to all of you who attended and/or sponsored the Research Promotion Golf Outing this year at Columbia Hills. As you know your support goes on to provide the continually needed improvement in testing and design guidelines for the HVAC industry.

Last year the Cleveland Chapter rounded up 5 awards at the CRC for our member's participation, congratulations! Many times people ask me where their donations are going, or how it helps them, other than getting their name published in the October ASHRAE journal. Besides the updated handbooks, below is a list of research projects being performed in our region, noting that our region has the most dollars of research throughout the entire country!

For more information on how ASHRAE can benefit your industry, go to www.ashrae.org/researchpromotion

ACTIVE RESEARCH PROJECTS AND GRANTS BY REGION

Spring 2008

1,741,882

IDENTIFIER TC/TG RESEARCH TITLE OR SUBJECT CONTRACTOR NOTES COST Chemical Out-Gassing From Indoor IMAGINATION RESOURCES, 1083-RP 9.8 98.420 Swimming Pools INC. - Dublin, OH Determine the Mechanism for Copper Completed Plating and Methods for Its Eliminations for 1249-RP 3.2 99.000 U. of DAYTON Nov. 2007 **HVAC Systems** Relate Air Quality and Other Factors to Comfort and Health related Symptoms BATTELLE MEMORIAL INST. Reported by Passengers and Crew on 1262-RP 9.3 980,952 Commercial Transport Aircraft (Part 2); - Columbus OH Partitioning of Non-Condesable Gases I IMAGINATION RESOURCES, 1303-RP 3.1 49,625 Refrigerant Liquid and Vapor Phases INC. - Dublin, OH **BUILDING ENERGY AND** Air Distribution Effectiveness with Stratified **ENVIROMENT ENGINEERING** 1373-RP 5.3 99.332 Air Distribution Systems - Layfette, IN Woven Compressor Enabling Economic and Scalable R-718 Chillers - Phase 1: Proof of 1476-RP 8.2 228,294 Concept MICHIGAN STATE UNIV. NEW! Energy and Performance of Secondary Coolant Low-Temperature Refrigeration 1484-RP 3.1 71,259 Systems **PURDUE** Liquid Flooded Ecrisson Cooler with Graduate Student GIA 07-08 10,000 PURDUE - Ian Bell Optimized Compressor and Expander Grant-in-Aid Microchannel Flow Boiling of Carbon Dioxide U. OF CINCINNATI - Prakash Graduate Student GIA 07-08 10,000 Near Critical and Sub-Critical Pressures Rapolu Grant-in-Aid Modeling Airflow and Contaminant Transport Graduate Student GIA 07-08 10.000 in Commercial Aircraft Cabin PURDUE U. - Zhao Zhang Grant-in-Aid Cost-Effective Fabrication Methods for U. OF MIAMI OF OHIO -New Investigator NI 08-09 45,000 Hydrophobic Metallic Heat Exchanger Fins **Andrew Sommers** Award Development of a System Design Methodology for Robust Thermal Control PURDUE U. - Derek Systems to Support Operationally Graduate Student GIA 08-09 10,000 Responsive Space Hengeveld Grant-in-Aid Convective Heat Transfer in a Novel Enhanced Heat Transfer Core Surface -UNIV. OF CINCINNATI - Omar Graduate Student Wavy Fins with Periodic Wall Perfusion for GIA 08-09 10.000 Macroscopic Mixing and Swirl Production Grant-in-Aid Huzayyin Development of a Electrostatic Precipitation Technology for Effective Dust Control in OHIO STATE UNIV. - Roderick Graduate Student 10,000 Animal Facilities Grant-in-Aid GIA 08-09 Manuzon Experimental and Numerical Study of PURDUE U. - Sagnik Moving Body Effects on Airflow and Airborne Graduate Student GIA 08-09 10,000 Contaminent Transport in an Airline Cabin Mazumdar Grant-in-Aid



IN THE NEWS...



ASHRAE Publishes New Guidance on Commissioning Process

ATLANTA – Specific tasks to successfully implement the commissioning process for HVAC&R systems and assemblies are featured in a new guideline from ASHRAE.

ASHRAE Guideline 1.1, *HVAC & R Technical Requirements for the Commissioning Process*, describes the technical requirements for the application of the commissioning process described in ASHRAE Guideline 0-2005 that will verify that the HVAC&R systems achieve the owner's project requirements.

"The quality-oriented process outlined in the guideline provides improved quality and greater cost effectiveness compared to commissioning as currently practiced by many commissioning providers," Walter Grondzik, secretary of the committee that wrote the guideline, said. "One problem with the current practice is that 100 percent checking is performed during the construction phase of the project delivery process, and this checking usually focuses on limited or targeted systems. Quality-based sampling is not used, and so the current approach has limited quality-based random inspection procedures."

The guideline contains more than 100 pages of annexes, providing concrete examples of forms and documents to assist the commissioning team and owners in their efforts to deliver quality buildings that meet the owner's project requirements. Twenty-five sample checklists, covering pre-design, design and construction, are included along with a sample owner's project requirements verification test procedure.

The cost of ASHRAE Guideline 1.1, HVAC & R Technical Requirements for the Commissioning Process, is \$69 (\$55, ASHRAE members).

To order, contact ASHRAE Customer Service at 1-800-527-4723 (United States and Canada) or 404-636-8400 (worldwide) or visit at www.ashrae.org/bookstore.



IN THE NEWS...



Cleveland ASHRAE Obituaries

ASHRAE Fellow Robert A. Urban, Chapter President in 1958-59, passed away Monday, June 16, 2008 at age 84, several years after a stroke affected his speech. Bob was a 1945 graduate of the Case School of Applied Science (now part of Case Western Reserve University).

Bob is best remembered for a truly Promethean achievement. Those of us who started careers in air conditioning design in the 1940s and 1950s were told by our bosses and mentors that "Variable Air Volume is great in theory, but bad in practice, because we all tried it in the 1930s and proved it can't work." Then, in the late 1960s came Bob Urban and the Cuyahoga Savings tower in downtown Cleveland. Bob at that time led the design and implementation of the first successful large variable volume air conditioning system in the world, for that building. Bob's concepts, proved in this project, have now become the world-wide standard for large building air conditioning.

On a more personal note, I have worked in ten different organizations in my career. The time I spent working for Bob at Byers, Urban, Klug & Pittenger was a truly unique experience. This was the only organization in my experience where everyone, from Bob to the office boy, was truly dedicated to doing the very best work they could. Perhaps Bob's greatest achievement was establishing that culture in his company.

- Jim Wickert

Every one of us have had teachers and mentors who have helped us in our careers. These words, originally a prayer of thanks to teachers from students, seem appropriate:

At the rising of the sun, and at its going down, we remember them
At the blowing of the wind, and in the chill of winter, we remember them
At the opening of the buds, and in the rebirth of spring, we remember them
At the shining of the sun, and in the warmth of summer, we remember them
At the rustling of the leaves, and in the beauty of autumn, we remember them
At the beginning of the year, and at its end, we remember them
As long as we live, they too will live, for they are a part of us, as we remember them
When we are weary and in need of strength, we remember them
When we have joy we crave to share, we remember them
When we have decisions that are difficult to make, we remember them

When we have achievements that are based on theirs, we remember them As long as we live, they too shall live, for they were a part of us, as we remember them

Our industry also lost two other former colleagues recently.

Anthony E. Lavelle passed away at age 91 after several years in a nursing home. Tony was one of the leaders of the Gorman Lavelle Company, and was widely respected for his honesty, fairness and integrity.

Leslie R. Buchanan passed away at age 84 on May 28, 2008. Les was a design engineer who worked in Consulting Engineer offices, mostly Havens & Emerson.

We also extend our sympathy to Member Dan Austrian on the loss of his mother in late August, and to Life Member Paul Berkild on the loss of his wife on August 31, 2008.



CHAPTER CALENDAR



September 15, 2008 Evolution of VAV Systems Location: Harry's Steakhouse

October 20, 2008 Control Systems Location: Harry's Steakhouse

November 19, 2008
CEUniversity (Bus. of Eng. & Applied Eng)
Location: Corporate College East

December 2008 ASHRAE Social

Wednesday, January 21, 2009 Lunch Meeting: Energy Rates Location: Sheraton Hotel

Wednesday, February 18, 2009 Lunch Meeting: AEDG K-12 Location: Sheraton Hotel March 16, 2009 Cleveland Market Trends OR ASHRAE Pres Location: Harry's Steakhouse

April 20, 2009 Cleveland Market Trends OR ASHRAE Pres Location: Harry's Steakhouse

> May 18, 2009 ASHRAE Learning Location: Harry's Steakhouse

June 2009
Membership Promotion Golf Outing

