

# Lehigh Valley Insights

JOURNAL OF THE LEHIGH VALLEY CHAPTER OF THE ASHRAE, INC.

VOLUME 45 ISSUE 1

September 2009

## 2009-2010 LEADERS

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## MEETING NOTICE

[WWW.LVASHRAE.ORG](http://WWW.LVASHRAE.ORG)

**Wednesday, September 23, 2009**

**Noise and Vibration Control**

**Kris Kollevoll**

**BRD Noise & Vibration Control**

at

**Mangos Coastal Cuisine**

**3750 Hamilton Blvd., Allentown, PA  
(Route 222 North)**

4:30-5:30 p.m. **Board of Governors Meeting**  
(Chapter members are welcome to attend)

5:30-6:00 p.m. **Social Half Hour**

6:00-6:45 p.m. **Dinner**  
6:45-7:00 p.m. **Local News (ASHRAE)**  
7:00-8:00 p.m. **Dinner Program**  
Topic: Noise & Vibration Control  
Speaker: Kris Kollevoll  
Program Chair: Raymond Forsthoefel

Reservations: Call Tom Serwatka, Jr. at 215-654-8040 or  
Email: [thomas.serwatka@siemens.com](mailto:thomas.serwatka@siemens.com)  
Students \$15.00  
Members & Guests \$30.00

Please make your reservations by Noon on Monday, September 21<sup>st</sup> with your choice of  
beef, fish or chicken.

## President's Message

Ladies & Gentlemen,

September is here once again. While you may be sad that summer is fading, look on the bright side; you can look forward to the monthly meetings of the 2009-2010 program year for the Lehigh Valley Chapter of ASHRAE!

Last year had a great slate of speakers, with topics that touched on issues which affect us all. We hope this year's topics will continue in that vein, with changing refrigerant requirements, more stringent energy standards, building energy labeling protocols, and so much more. The landscape of the HVAC & R industry is rapidly changing and the Lehigh Valley Chapter wants to provide programs and resources to position each of you for those changes.

This month's meeting topic, while not directly related to the changes mentioned above, remains a pertinent topic. If you have been in the HVAC&R business for any amount of time, noise and vibration issues have certainly rattled you from time to time. Our presenter, Kris Kollevoll of BRD Noise and Vibration Control, Inc., will provide you with potential solutions and best practices for minimizing noise and vibration, both before and after system installation. Don't miss the valuable presentation; an opportunity to improve the quality of the finished product that we ASHRAE members provide our clients.

Finally, take a moment to review the leadership column on the front page of this newsletter. These individuals have committed their time and energy to serve you as peers. Take some time to thank them for their efforts. Even better join them as some capacity and help improve the value of ASHRAE for yourself and others.

Stuart J. Heisey  
President  
Lehigh Valley Chapter – ASHRAE

**CRC Report:** This year's Chapter Regional Convention (CRC) was held in our nation's capital, Washington DC. Unfortunately, the Lehigh Valley was unable to benefit from the excellent line-up of events. Only four individuals from our Chapter attended this event.

Thursday's schedule included two "tracks" of seminars focusing on High Performance Buildings and Commissioning. I attended the High Performing Buildings track and was very pleased with both the presenters and the information provided. The

expectations of building owners and the requirements of governing bodies have shaped how we design buildings in the past and will continue to do so in the future. Those expectations and requirements are being adjusted at an unusually fast pace due to the momentum of the green building movement, for better or for worse. This year's CRC seminars provided valuable information on what ASHRAE is doing to prepare and position its members for success in the future. Mark your calendars now for next year's CRC seminars, Thursday, August 12, 2010, in Newark, Delaware. If you make the effort to attend, you will not be disappointed.

Friday's CRC business session provided a snapshot of the region III society level activities as well as a summary of each chapter's yearly successes and challenges. The Lehigh Valley Chapter will be looking to implement some of the most noble and successful practices of other chapters in the Region. Please consider discussing how you may be able to contribute to these new initiatives with the LV Chapter leadership. Your involvement will strengthen the chapter, expand your experience and benefit the Lehigh Valley region as a whole.

Saturday, leadership training was provided for each of the Officer's and Chairpersons. This is a time for officers and chairpersons to be trained on best practices for their respective positions. Those who attend can attest to the benefits gained from "war-stories" and recommendations from Regional leadership as well as their peers from other chapters in Region III. Thanks to Paul Kuhn (Student Activities) and Matt Matsinko (Membership Promotion) for their attendance on Saturday. And thanks to Frank Paretti (Research Promotion) who will be attending the RP Centralized Training in Des Plaines, IL later this month. Next year the CRC will be much closer, so we should have everyone from the LV Chapter leadership in attendance on Saturday.

It has been said often, but I will say it again: ***If you make time to give to ASHRAE, ASHRAE will give back to you.*** I challenge any of you to do so without being rewarded personally and professionally above and beyond your investment.

Stuart J. Heisey  
President  
Lehigh Valley Chapter - ASHRAE

## September 23<sup>rd</sup> Meeting

### Dinner Presentation:

The after dinner talk will include:

- a) Basic acoustics such as the difference in Sound Power and Sound Pressure, Hertz, frequencies and octave bands, etc
- b) NC, RC and other rating systems, ARI rating procedures such as ARI 260, 575 and 370, the difference between performance and design criteria, and the important difference between meeting objective/subjective noise criteria.
- c) The fundamentals of noise control engineering, and detail about how to specify acoustics and noise control with application specific illustrations for what are recurring design challenges with large applied system HVAC equipment such as Chillers, Rooftop Units, Fans, Cooling Towers, etc.

### About the Speaker:

**Kristan (Kris) G. Kollevoll**, President of BRD Noise and Vibration Control, Inc. is a graduate of Princeton University. Kris started with BRD as a Sales Engineer in 1982 and became Sales Manger and Vice-President in 1988. In 1984, upon the death of Bernard R. Deschaine, founder of the company, Kris became President.

Kris is affiliated with the AIHA, Acoustical Society of America and Institute of Noise Control Engineering and has also served as an outside consultant for the training of OSHA Citation Officers.

Kris has worked extensively to aid such prominent companies as DuPont, Alcoa, Johnson & Johnson, Hewlett Packard, Proctor & Gamble, as well as a select list of HVAC equipment manufacturers in designing and manufacturing long-term engineered noise control solutions.

Around 1988, Kris formed a separate HVAC Division within BRD to focus on developing proven solutions for recurring noise problems. BRD is a recognized leader in the field of noise reduction systems for air cooled and liquid chillers and for curb mounted rooftop packaged air conditioning equipment.

## Board of Governors Meeting Minutes May 27<sup>th</sup> Meeting

### Officers Present:

Stuart Heisey – President  
Stephen Phillips – Secretary  
Donovan Denlinger – Vice President  
Tom Serwatka – Programs

### Board of Governors Present:

Brian Sandt

### Committee Chairs Present:

Matt Matsinko – Membership Promotion  
William Trach – Historian  
Gabe Badesso – Research & Promotion

### **Old Business:**

PAOE points goals discussed. Stuart Heisey gave reminder to get points in.

### **New Business:**

- a) Brian Monk present from Racan. Meeting Speaker.
- b) 2009 Golf Outing  
Hole sponsors nearly complete. Two holes to fill. Registered are 19 foursomes, 76 golfers.

### **Chapter Information:**

- a) Officers 2009/10  
President – Stuart Heisey  
President Elect – Donovan Denlinger  
Treasurer – Gabe Badesso  
Secretary – Stephen Phillips  
Vice President of Annual Golf Outing – Mike Schultz
- b) Chairpersons:  
Membership Promotion – Matt Matsinko  
Student Activities Chair – Paul Kuhn  
Research Promotion Chair – Frank Paretto, Jr.  
Chapter Technology Transfer Chair – Tom Serwatka  
Historian – William Trach  
Newsletter Editor – Ray Forsthoefel

### **2009-2010 Program Planning Meeting**

Scheduled for Wednesday, June 24<sup>th</sup> over Lunch at Copperhead Grille

### **Officers'/Chair Reports:**

- a) **Membership Promotion:**  
Matt Matsinko distributed the delinquent members report, distributed the paid dues list for local chapter membership. One new member in April.
- b) **Research Promotion:**  
Research & promotion II night planned for May meeting. Current balance is at \$1,550.

Hole sponsors to send 8.5 x 11 copy of logo for signs.

c) **Historian:**

Bill Trach is to store on CD, Chapter Meeting Minutes. May meeting minutes to be emailed to Bill.

Meeting online payment options – Proposing to add to chapter website to be able to register and pay for chapter meetings online. Voted for and passed.

Bryan Sandt to research a chapter line representation book.

Submitted by,  
Stephen Phillips, Secretary

**ASHRAE Golf Outing  
June 5, 2009**

**Lehigh Valley ASHRAE Chapter** would like to **thank** the following **Hole Sponsors** for their support of **ASHRAE Research**.

- Brinjac Engineering
- Burkholders HVAC
- Carrier Corporation
- Chase and Associates
- Dectron Int.
- H.C. Nye Company
- H.B. Engineers
- HT Lyons
- JOF Mechanical
- Landmark Mechanical
- Lehigh Valley Engineering
- Metz Company
- Siemens
- Snyder Hoffman Associates
- Strunk-Albert Engineering
- Trane of NEPA
- Travid Sales
- Tri-State HVAC

Mike Schultz  
Vice President (Golf Outing)

**Research Promotion**

Fellow ASHRAE Members,

With the summer season winding down, I would like to take the opportunity to thank you for your generosity and dedication to ASHRAE research in the 2008-2009 campaign. The Lehigh Valley Chapter made great strides this year by donating a total of \$4,550.00 to ASHRAE research. The Chapter's goal was \$4,500.00, and by surpassing this we have shattered the previous five year high amount, as well as establishing a new high for Lehigh Valley Chapter donations.

Our successes this year came from collaboration between our dedicated board members efforts and the chapter's generous members and corporations. Our golf outing raised over \$3,000.00 for ASHRAE research through participating foursomes and hole sponsorships by local companies.

I am looking forward to continued success in the 2009-2010 Research Promotion campaign as we welcome Frank Paretti as our incoming Research Promotion chairman. Frank will continue to develop our success and show society what our chapter is capable of. Thank you again for your support!

Gabe Badesso  
Research Promotion Chairman

## ASHRAE Press Release

### **Role of HVAC&R Systems in Infectious Disease Transmission Addressed by ASHRAE**

ATLANTA – As health and school officials deal with a second wave of the H1N1 virus, commonly referred to as swine flu, new information is available on health consequences of exposure to such airborne infectious diseases and the implications on the design, installation and operation of HVAC&R systems.

“While the long-standing public health view is that influenza transmission occurs through direct contact or large droplets, newer data suggests it also occurs through the airborne route, meaning HVAC&R systems may contribute far more to transmission of the disease and, potentially, to reduction of that same transmission risk,” said Gordon Holness, president of the American Society of Heating, Refrigerating and Air-Conditioning Engineering (ASHRAE) that developed the guidance.

ASHRAE’s *Airborne Infectious Diseases Position Document* addresses the impact of ventilation on disease transmission, the disease for which ventilation is important for either transmission or control and the control strategies that are available for implementation in buildings. The paper can be read at [www.ashrae.org/positiondocuments](http://www.ashrae.org/positiondocuments).

Since the first reported case in the spring of 2009, the H1N1 virus has spread to nearly 170 countries, resulting in 1,154 deaths and some 160,000 illnesses. With a better understanding of ventilation’s effect on the transmission of disease, future incidents of the H1N1 virus may now be easier to prevent, according to Holness. He said several technical solutions are available to assist in avoiding transmission. These include: dilution ventilation, airflow strategies, room pressurization, personalized ventilation, source control, filtration and ultraviolet germicidal irradiation.

Airborne transmission through building ventilation systems can be significantly reduced by provision of adequate air filtration and pressurization, Holness said. ASHRAE’s other guidance of relevance includes Standard 170, *Ventilation of Health Care Facilities*, and Standard 611, *Air Quality Within Commercial Aircraft*.

ASHRAE, founded in 1894, is an international organization of some 50,000 persons. ASHRAE fulfills its mission of advancing heating, ventilation, air conditioning and refrigeration to serve humanity and promote a sustainable world through research, standards writing, publishing and continuing education.

**LEHIGH VALLEY CHAPTER OF ASHRAE  
2009-2010 MEETING SCHEDULE**

<b>MONTH</b>	<b>TECHNICAL/DINNER PROGRAM</b>	<b>Event</b>	<b>PROGRAM CHAIR</b>
Sept 23 <sup>rd</sup>	Noise & Vibration Control – Kris Kollevoll		Ray Forsthoefel
Oct. 21 <sup>st</sup>	Electrical Deregulation	Membership Promotion #1	Paul Kuhn
Nov. 18 <sup>th</sup>	Future Cities plus ASHRAE Standard 189.1 – Richard Lord/Tom Lawrence, Distinguished Lecturer	Student Activity #1 (Future Cities)	Tracy Hansen & Paul Kuhn Stuart Heisey
Dec.	No Meeting		
Jan. 20 <sup>th</sup>	Commissioning – Round Table		Donovan Denlinger
Feb 24 <sup>th</sup>	Global Warming / Refrigerants / Ozone – Tom Werkema	Student Activity #2	Gabe Badesso
Mar 24 <sup>th</sup>	Interoperability of ATC protocols	Membership Promotion #2	Tom Serwatka, Jr.
Apr. 28 <sup>th</sup>	Sands Casino Project Team Roundtable Discussion	Research Promotion #2	TBA
May 26 <sup>th</sup>	Tour – Sands Casino		Stephen Phillips
June 4 <sup>th</sup>	Golf Outing / Green Pond		Michael Schultz