

Cincinnati ASHRAE News

A monthly publication of the Cincinnati Chapter of the American Society of Heating, Refrigeration & Air Conditioning Engineers

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THE PRESIDENT'S CORNER

Clint Schwartz

We are now well into the holiday season and that means that it is time for our annual luncheon to discuss all things related to Cincinnati sports. Paul Daugherty will be our speaker this month and there will be plenty to talk about.

A couple months ago I asked for help from the membership as we are trying to find a more central meeting facility and to date I have not received any response. If you have any ideas (particularly if you currently don't attend the meetings very often because of location) please send me an email (clint@controlled-air.com).

Finally, I have attached the Region V December newsletter for those that are interested in what is happening within our entire ASHRAE region as well as information about the region V dinner at the ASHRAE Winter meeting in Dallas.

I want to wish everyone a Happy Holidays and look forward to a great meeting next week with Paul Daugherty.

Best Regards,

Clint Schwartz

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TP Mechanical Contractors, one of the leading mechanical contractors in the Indiana, Kentucky, and Ohio region specializing in commercial and industrial plumbing, piping, HVAC and fire protection is seeking a Professional Engineer.

Responsibilities of this position include:

- Supervise staff and lead engineering/design processes on Design Build and IPD projects and participate with client relations, scope development, and designs.
- Support development of standards procedures and policies.
- Work with clients, owners, and other design professionals to insure project scope, requirements, and budgetary parameters and desired outcomes are accurately reflected in proposals and design documentation.
- Develop, create, and maintain client relationships with clients (construction managers, general contractors, owners, etc.) with intent for D/B and IPD work.
- Manage multiple concurrent projects to meet project milestones and deliverables with assigned sales, estimating, and project management personnel delivering and supporting quality products on time and within budget.
- Provide expertise and counsel in supporting project staff regarding questions or problems related to engineering design.
- Increase effectiveness of products and services through value enhancement, system optimization, and other technical strategies.
- Supervise staff and oversee preparation of permit/construction documents.
- Develop engineering support resources including external and internal engineering staff. Mentor, train, and develop engineers.
- Apply knowledge of standards, codes, regulations, and industry best practices.
- Overseeing preparation of construction documents and specifications for building design projects
- Value engineering on mechanical systems, with emphasis on medical facilities and “green” buildings
- Working with internal and external customers on mechanical system design

Qualifications are:

- Bachelor degree in engineering field with specialization in mechanical engineering preferred
- Minimum of 5 years of mechanical engineering/HVAC experience in commercial and industrial buildings
- Minimum of 3 years of experience mechanical engineering in medical facilities
- PE stamp in Ohio required, stamp in Kentucky and/or Indiana preferred
- Ability to travel regionally to jobsites/offices in Columbus, Cincinnati, and KY.

For these desirable skills, TP Mechanical Contractors will offer a competitive salary along with full benefit package. This is an exceptional opportunity to make a real impact with a strong and growing organization that has been in business for over 50 years!

Interested candidates should submit their resume with salary history to hrdept@tpmechanical.com or fax to 513-851-0612 Attn: HR/PE. For more information about TP Mechanical Contractors, check out our web page at www.tpmechanical.com. EOE

SAVE THE DATE

April 18, 2013

1:00 pm - 4:00 pm EDT

FREE ASHRAE Webcast

Assessing Building Energy Performance: From Principles to Practice

This webcast will feature industry experts who will explain the importance of building energy performance and its far-reaching implications in both new and existing buildings. Viewers will also learn about the various tools and approaches that are available, as well as the many opportunities that assessing building energy performance presents.

This FREE webcast program will broadcast live via the internet.

Visit www.ashrae.org/ABEPwebcast for additional information about the program, sponsorships, continuing education credits, speakers, and registration.

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ASHRAE Learning Institute

Seminars & Courses at ASHRAE's Winter Conference and AHR Expo in Dallas, TX

2 WAYS TO REGISTER

Internet: www.ashrae.org/dallascourses

Phone: Call 1-800-827-4723 (US and Canada) or 404-838-8400 (worldwide)

Full-Day Professional Development Seminars

\$485/\$395 ASHRAE Member – Earn 6 PDHs/AIA LUs or 6 CEUs

The Commissioning Process in New & Existing Buildings

Saturday, Jan 26 – 8:00 a.m. to 3:00 p.m.

Complying with Standard 90.1-2010

Tuesday, Jan 29 – 9:00 a.m. to 4:00 p.m.

Data Center Energy Efficiency

Saturday, Jan 26 – 8:00 a.m. to 3:00 p.m.

Energy Modeling Best Practices and Applications: HVAC/Thermal

Tuesday, Jan 29 – 9:00 a.m. to 4:00 p.m.

Healthcare Facilities: Best Practice Design & Applications

Saturday, Jan 26 – 8:00 a.m. to 3:00 p.m.

Half-Day Short Courses

\$159/\$119 ASHRAE Member – Earn 3 PDHs/AIA LUs or 3 CEUs

Air-to-Air Energy Recovery Fundamentals

Sunday, Jan 27 – 2:00 p.m. to 5:00 p.m.

Commissioning Process & Guideline 0

Monday, Jan 28 – 2:45 p.m. to 5:45 p.m.

Humidity Control: Applications, Control Levels and Mold Avoidance

Sunday, Jan 27 – 2:00 p.m. to 5:00 p.m.

Evaluating the Performance of LEED®-Certified Buildings

Monday, Jan 28 – 2:45 p.m. to 5:45 p.m.

Air-to-Air Energy Recovery Applications: Best Practices

Monday, Jan 28 – 8:30 a.m. to 11:30 a.m.

Optimization of HVAC Systems & Components: Techniques & Real-World Examples

Tuesday, Jan 29 – 9:00 a.m. to 12:00 p.m.

Application of Standard 82.1-2010:

Multiple Spaces Equations & Spreadsheet

Monday, Jan 28 – 8:30 a.m. to 11:30 a.m.

Energy Management in New and Existing Buildings

Tuesday, Jan 29 – 9:00 a.m. to 12:00 p.m.

Combined Heat & Power: Design through Operations

Monday, Jan 28 – 8:30 a.m. to 11:30 a.m.

Avoiding IAQ Problems

Tuesday, Jan 29 – 9:00 a.m. to 12:00 p.m.

Understanding Standard 189.1-2011 for

High-Performance Green Buildings

Monday, Jan 28 – 2:45 p.m. to 5:45 p.m.

Designing Toward Net Zero Energy Commercial Buildings

Tuesday, Jan 29 – 1:00 p.m. to 4:00 p.m.

Introduction to Ultraviolet Germicidal

Irradiation (UVGI) Systems

Monday, Jan 28 – 2:45 p.m. to 5:45 p.m.

Understanding & Designing Dedicated Outdoor Air Systems

Tuesday, Jan 29 – 1:00 p.m. to 4:00 p.m.

Laboratory Design: The Basics and Beyond

Tuesday, Jan 29 – 1:00 p.m. to 4:00 p.m.

HVAC Design Training

Jan 14-18, 2013 • Jan 30-Feb 1, 2013 (Level I only) • Mar 18-22, 2013 • Jun 3-7, 2013 • Aug 12-16, 2013

HVAC Design: Level I - Essentials

Gain practical skills and knowledge in designing, installing 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

Developed by industry-leading professionals, the workshop provides participants with advanced level information about designing, installing and maintaining HVAC systems that can be put to immediate use. Participants will gain an in-depth look into Standards 55, 62.1, 90.1, and 189.1 and the Advanced Energy Design Guides, as well as a range of other HVAC topics including: HVAC equipment and systems; energy modeling; designing mechanical spaces; designing a chiller plant; and BAS controls.

Visit www.ashrae.org/hvacdesign to register

Inside this issue:

- DRC Report
- Resource Promotion
- Membership Promotion
- Chapter Technology Transfer
- Student Activities
- History
- YEA
- Attachment -
Region V Dinner Flyer

Region V Website

www.region5.ashraeregions.org

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Director and Regional Chair (DRC) Report by: R. Lee Millies, Jr., P.E., LEEP AP

I hope everyone had a great Thanksgiving and is looking forward to a joyous Christmas and Holiday Season. It seems hard to believe that we are approaching the half way point of this ASHRAE year. It appears everyone is well on their way to a good year. As I read the articles from our RVC's, it appears a lot of good things are happening in our Region and I encourage all of you to continue your efforts.

I know everyone is busy at this time of year but please take the time to update your PAOE points on the ASHRAE website. It is also a great time (with everyone is in a good mood) to recruit your Chapter leaders for the next year.

I want to take this opportunity to remind everyone of a number of ASHRAE Society and Region V events coming up as we head into the New Year.

- Jan. 26-30: Is the ASHRAE winter meeting in Dallas, TX. I hope many of you are planning to attend. It is a great way to see how our Society functions. The AHR Expo will also be held in conjunction with the winter meeting. See the ASHRAE website for additional details.
- Jan. 27 (Sunday): If you will be at the winter meeting please join us at the Region V dinner. This year we are having our dinner with Region VI. Rick Zbin has done a great job planning the event and it should be a lot of fun. See the flyer attached to this newsletter or the Region V website for additional details.
- Feb. 17-23: This has been designated "EWeek" and all Chapters are encouraged to plan Chapter programs to mark the event. ASHRAE is also encouraging Chapters to contact your local Governor and /or Mayor's Office to

ask for a proclamation to commensurate EWeek.

- April: We will hold our Region V 2013-14 President-Elect Workshop in Fort Wayne, IN. I will send out details in February but be aware of the coming event.
- April 18: The next ASHRAE fee webcast "Assessing Building Energy Performance: From Principle to Practice" watch for information on how to register for this webcast.
- May: Voting for ASHRAE Society Officers.
- June 1: All Chapter CIQ's should be completed.
- June 22-26: ASHRAE Annual Meeting, Denver Colorado.
- Aug. 8-10: Region V 2013/14 CRC, Columbus, OH the Columbus Chapter is well into their planning for a great CRC.

As you can see there are a lot of events to plan for in addition to our normal Chapter meetings and events.

I hope all of you continue to have a great ASHRAE year and as always if you have any questions, ideas or concerns, please contact me or any of the Region V Officers.

Have a very Happy Christmas and Holiday Season.

Hope to see you in Dallas.

Thanks for all you do for ASHRAE, Region V and your Chapter.



Resource Promotion Committee Report by: Derek Crowe, RP RVC

Research Promotion is off to another great start. This year we have 7 new chapter chairs. We had 8 chairs attend Centralized Training and/or Chapters Regional Conference (CRC). All chapter chairs submitted their action plan this year. Thank you to everyone for your involvement and support!

Current Region V donations are \$17,600 which is on pace with last year's results. In order to exceed our goal this year I'm asking each chapter chair to develop a commitment from a business or individual that did not donate last year. This can be reconnecting with a past donor or encouraging a new donor. Focusing on one a month for the next 6 months, we will break our goal.

I am pleased to report Full Circle for Region V and 5 Chapters! Thank you Cleveland, Cincinnati, Dayton, Detroit and Western Michigan. We have 2 chapters pending receipt of a contribution at Headquarters and 3 chapters with all but one person. Full Circle is a leadership gift of at least \$100 that the Officers and RP Chairs make early in the campaign showing their support to ASHRAE Research. Although the PAOE deadline has passed, I still encourage the leadership

from the remaining chapters to contribute and show your support to your RP chair and members.

This year the RP Committee voted to help support the ASHRAE Foundation with the Lynn G. Bellenger Scholarship. Region V graciously contributed 140% of our goal! Thank you Cleveland, Cincinnati, Dayton, Central Indiana, Detroit, Western Michigan, Akron/Canton and Northern Indiana. Our efforts in October helped exceed the Society goal and will provide a scholarship in memory of Presidential Member Bellenger.

The next milestone is 30% of goal by 12/30. Andrew Shekell of Evansville has already achieved 53% and Denny Lammlein of Dayton has already achieved 50%! Great job guys!

Remember it is the research program that sets ASHRAE apart from other professional societies and associations of its kind. The Handbooks, standards and technical programs are the results of Research!



Membership Promotion Report by: Bruce Knapp, MP- RVC

One of the benefits of ASHRAE membership...

It's no secret about the great handbooks that ASHRAE publishes each year.

ASHRAE Handbooks (yearly): (Handbooks are issued in June annually. For example, if you join ASHRAE in September, you will receive your Handbook the following June. If you join in May, you will receive your Handbook the next month.) *New members may purchase the 2012 ASHRAE Handbook—*HVAC Systems and Equipment* at a discount.

New Members and Associates will receive the 2013 ASHRAE Handbook—*Fundamentals* in June 2013.

But did you know that now you don't have to wait until June to have access to the ASHRAE Handbook. Within 24 hours of joining ASHRAE, new members receive a complimentary 12-month subscription to ASHRAE Handbook Online, which allows search of all four volumes in I-P and SI units. (Renew this subscription for only \$49 at the end of your first year of membership.)

New ASHRAE members - entitled to a 20 % discount on ASHRAE Handbook publications* any time during their first year of membership. Please contact the ASHRAE Member Contact Center at membership@ashrae.org, or (800) 527-4723 (U.S. and Canada)/(404) 636-8400 (worldwide) to learn more or to place your order at a discount. *offer excludes ASHRAE Handbook Online (only \$49 for ASHRAE Members)

Student Members - ASHRAE Handbook available at a discount.

Affiliate Members - One-time discount off Member price (15% off)

On another note...

What's new with our regional membership goals?

To date most of our chapters have already reached their membership goals for the year and are going above and beyond. This is fantastic. Ten of our thirteen chapters are over 200% of their goal for the year. Good job!



Chapter Technology Transfer Committee Report by: Rob Laneve, CTTC-RVC

Our Region V continues to excel in the area of Chapter Technology Transfer (CTT). This is evident by the increase in the number of Technology Award submissions. This past July, the Region V Judging Panel received six submissions between the chapters of Akron, Central Indiana, Dayton, and Detroit. Three of the four First Place Regional winners elected to submit their projects to the Society Level competition. I am pleased to say we then brought home two Honorable Mention Winners to Region V....nice job Akron and Central Indiana Chapters!

Mr. Pat Klanac of the Akron Chapter won an Honorable Mention for the Verizon Wireless Twinsburg Data Center and Mr. Tom Durkin won an Honorable Mention for the Hamilton Heights Elementary School. Nice job Pat and Tom. I am sure for the 2013 judging, many others in our region will have great projects to showcase...let's submit those projects for a Technology Award! See your Chapter CTTC Chairman for additional information.

In addition to Technology Awards, seven of our thirteen Chapters have committed to using the Distinguished Lecturer program to complete their 2012-13 program schedules. Unfortunately, this leaves four of our allocations unused and they will be returned to the General Pool on December 1st. For the 2013-14 Year, let's aim for using all eleven of our Region V allocations!

To represent our Region V CTT committee, I will be attending the upcoming January 2013 ASHRAE Winter Meeting in Dallas. If you have something that you would like me to discuss with my fellow CTTC RVC's, or with other Society officials, please send me your comments.

During the remainder of our 2012-2013 ASHRAE year I will be visiting the Central Indiana and Evansville chapters to discuss CTTC updates and Technology Awards.

***Student Activities Report by: Russell Marcks, RVC Student Activities***

It appears Student Activities is humming along. Although I haven't spoken to every chapter chair personally, I have talked to a few and it appears we've been hard at work. Here are some highlights as well as upcoming dates.

First, please join me in congratulating three scholarship recipients. First, Ms. Elizabeth McLean, a student at Kettering University in Flint, MI, was awarded the Willis H. Carrier Scholarship. As you know, this is a prestigious \$10,000 scholarship. Also receiving scholarships are Mr. Jonathan Hankenhof and Ms. Rana Yoginder. Jonathan received a \$3,000 High School Senior scholarship to pursue an architectural degree at the University of Cincinnati while Rana received a \$3,000 scholarship to attend the HVAC&R program at Ferris State University. Congratulations to all three recipients.

Even though I've spoken to a small number of Chapter SA chairs to date, I also know several have interviewed scholarship candidates for the 2013-2014 cycle (which were due 1 Dec). Let's hope for another good year of scholarship awards.

As I reported in the last newsletter, there were three Undergraduate Project awards to Purdue-Calumet, Wright State University, and Sinclair Community College. These projects are now well underway. The WSU students have completed their Einstein Refrigeration Cycle Trainer. For those that don't know, the Einstein cycle is an absorber that does not require any electricity...only a source of heat. The Purdue-Calumet team has a working Refrigeration/Heat pump system. The Sinclair College team is about halfway through the installation of a 20-ton primary-secondary CW and a 240,000 Btuh HW system. This system is slated for completion in May. It is worth noting all three projects are not only supported by an ASHRAE grant, but also by significant donation and support from the local chapters. Way to go Region V members!

(Continued next page)



Einstein refrigeration cycle student team at WSU



Partial Installation HW/CW secondary at Sinclair College

Another exciting bit of news is Matt Nelson's continued efforts to develop a new student branch in Cleveland. I know firsthand how difficult it is to make this happen; there are so many pieces that must come together. Let's wish him luck in his endeavors. And speaking of student branches, have you all seen the facebook page for the OSU chapter? Great idea! Great implementation! Let's all 'Like' the OSU student branch.

I also know there have been several student nights this Fall. For example, Bethany Beckman of Western Michigan reports that chapter was able to bring their students on a tour of Van Andel Arena (hockey, concerts, etc.) for a peek at their refrigeration systems. Here in Dayton, Lorraine Kapka and I were able to bring 15 students from three local colleges to attend a meeting on the ASHRAE AEDGs. That represents almost 1/4 of those in attendance! Student attendance and participation in the chapter is critical to the sustainability of that chapter. Please ensure you

schedule at least one, preferably two student nights each year and encourage your students to attend.

I must also remind everyone of the importance of K-12 STEM outreach. I know Dave Hitchings of Eastern Michigan has been doing such outreach through Science Fair judging. By now, most student activities chairs should have received the STEM activities book I sent out entitled '*Teaching Engineering Made Easy*'. Lee was kind enough to fund the purchase of these books for use in visiting K-12 classrooms. Please put them to use. If you haven't received your copy, it's because I don't have contact information for you. Email me and I will get it to you.

This is a good time to remind you of the upcoming Engineer's Week. This will be February 17 to 23. Please approach your local K-12 schools as well as your local colleges to find out what you can do to help support this important activity.

As we all know, the ASHRAE Winter Meeting and AHR show is coming the end of January. As always, this is a prime location for students to gather. Visit the Student Zone at ASHRAE.org for information regarding student attendance. This year, there will be a student fee of \$25 to attend the meeting. ASHRAE has also provided a form letter you can use to help students and student branches request university funding to attend this meeting. Although funding is stretched thin for educational institutions, many departments are willing to help support students to attend such meetings.

Also remember the student design competition. If you haven't already done so, you may wish to offer your mentoring services to a local college design team. This is tremendous learning opportunity for students and a lot of fun for faculty and mentors that involve themselves. Remember, this year ASHRAE is introducing the '*Applied Engineering Challenge*'. This category is separate from the HVAC Design Calculations, the HVAC System Selection and the ISBD categories. The intent is to introduce a project suitable for an individual or small team of students. Please visit the Student Zone for more information. If you do have a local student team competing, remind them that submission deadlines are critical and CANNOT be extended. Late submissions are disqualified.

That should be plenty for now. I wish everyone happy and safe holidays.



Region V History by: Devin Snowberger, Region V Historian

As I am new to the position of Regional Historian, I am hitting the learning curve and trying to get comfortable with AHSRAE's revised website and trying to continuing the wonderful work that Tom Ferdelman has done through his years of service for our Region.

I hope everyone had a wonderful Thanksgiving and a safe and happy holiday.



Region V YEA Representative by: Roxanne Scott, YRC Region V

Young Engineers in ASHRAE (YEA) is open to all members who are 35 years old or younger and was developed to enhance our membership benefits for young professional ASHRAE members by identifying activities and services focused on helping you develop your skills, grow as a professional and expand your network by providing you with YEA-focused education and networking programs.

As the YEA Regional Coordinator (YRC), I highly encourage each Chapter in the Region to create a position for a YEA Chapter Chair (YCC) with the intent of attending the 2013 Region V CRC YEA Meeting. Furthermore, the 2013 ASHRAE Winter Conference (www.ashrae.org/dallas) is coming up and we hope to see you there! Scheduled for January 26-30, 2013 in Dallas, this is a great opportunity for networking, education and some fun. If you are planning on attending, make plans to stop by the YEA Hospitality Suite. This event will be held Sunday, January 27th from 4:00pm – 7:00pm. Stop by to chat, catch up with old (and new) friends and grab some food! There will also be a YEA/Student mixer scheduled for Saturday, January 26th from 5-6:30pm.

New for the 2013 CRC, a REGION V YEA OUTSTANDING CHAPTER AWARD will be up for grabs! This award is given based on service to YEA members during the preceding Society year, and nominated chapters should exemplify characteristics and have executed tasks in the following areas:

- A. Chapter to have had the YEA Chair position filled for the duration of the complete ASHRAE Society Year
- B. Chapter to have had designated YEA funds as a part of their chapter budget or demonstrated funding commitment from the Board.
- C. Chapter to have hosted/supported a minimum of two (2) YEA oriented activities during the ASHRAE Society Year (includes joint functions with Student Activities and other professional organizations). There may be overlap amongst the following categories (i.e., the social activity may have also been the activity involving students), but the Chapter must still have a total of two activities and meet the following criteria:
 - a. A minimum of one (1) social activity
 - b. A minimum of one (1) technical/educational program geared toward YEA demographics
 - c. YEA presentation/promotion at monthly general meeting (Note, a presentation during a membership drive is also acceptable).
- D. Chapter to have had an increase in YEA membership during the ASHRAE Society Year
- E. Chapter to have provided scholarship/funding to support the attendance of at least one YEA member at a minimum of one (1) regional/society event (includes YEA Leadership Weekend, Annual meeting, Winter meeting/AHR Expo, or CRC)
- F. Chapter to have completed semiannual YEA Chair reports and submitted to assigned YRC within established deadlines

I hope that each Chapter is working toward these goals and we have a successful year! I am here to help you meet these goals and assist every Chapter in the Region as needed.



ASHRAE Regions Vand VI Combined
2013 Dallas Winter Meeting
Regional Dinner
Sunday, January 27 at 6:30 P.M.
(Please arrive at least 15 minutes early)



1525 MAIN STREET DALLAS, TEXAS
Phone: 214-744-9400

Overview:

Constructed between 1892 and 1895, Sol Irlandes building remains one of the oldest standing structures in Beautiful Downtown Dallas.

Dinner Menu:

Drinks (your choice):

Soft drinks, tea, coffee or water are included with the meal. A cash bar is available for any alcoholic beverages.

Main Course (your choice): This is a buffet, each meal served with rice, beans, chips & salsa.

Baja Pollo

Marinated mesquite grilled chicken smothered with baja queso and topped with fresh avocado.

Quesadillas

Hand-made flour tortillas overly stuffed with beef.

Enchiladas

Cheese filled enchiladas.

Cost:

\$35 per person, payable by cash or check to Richard A. Zbin for Region V or Mark Miller for Region VI. Pay in advance or the day of the dinner.

Please **RSVP** before **January 19, 2013**, Richard A. Zbin, Region V ARC, at rzbin@tecinc1.com or Mark Miller, Region VI ARC at mark.miller@mail.ashrae.org (608) 658-1132 mobile.

We need to have an accurate count to the restaurant. Please insert Regional Dinner in the subject line so I can distinguish it from other emails.

We are limited to 60 people total from both regions, so please RSVP as soon as possible.

Walking directions to Restaurant at 1525 Main St, Dallas, TX 75201



Sheriton Dallas Hotel
400 N Olive St
Dallas, TX 75201

1. Head **southeast** on **N Olive St** toward **Live Oak St** 112 ft
 2. Turn right onto **Live Oak St** 0.1 mi
 3. Slight left onto **North St. Paul Street** 0.1 mi

 4. Turn right onto **Main St** 0.2 mi
- Destination will be on the right



Sol Irlande's Mexican Grille
1525 Main St
Dallas, TX 75201

Approximately 0.4 miles and 9 minutes walking distance from the Sheriton

2012-2013 Calendar of Events

- | | |
|-------------------|--|
| October 9, 2012 | Monthly Members Meeting - Luncheon
ASHRAE bEQ Program
Speaker : T. David Underwood, ASHRAE DL |
| November 13 2012 | Monthly Members Meeting - Luncheon
Humidity Control Design
Speaker: Lew Harriman, ASHRAE DL |
| December 11, 2012 | Monthly Members Meeting - Luncheon
Holiday Luncheon
Speaker: Paul Daugherty - Cincinnati Enquirer Sports Columnist |
| January 15, 2013 | Monthly Members Meeting - Luncheon
Stratified Air Ventilation Systems
Speaker - Kishor Khankari, ASHRAE DL
. |
| February 12, 2013 | Monthly Members Meeting – Luncheon
Impact of Diffuser Inlet Conditions on Overhead Mixing Air Distribution
Speaker: Jerry Sipes, ASHRAE DL |
| March 12, 2013 | Monthly Members Meeting - Luncheon
TBD
Speaker : TBD |
| April 9, 2013 | Monthly Members Meeting – Luncheon
TBD
Speaker : TBD |
| May 13, 2013 | Spring Golf Outing |



ASHRAE CINCINNATI CHAPTER MEETING RSVP FORM

Name

Company

Phone Number

Email Address

Will be attending the ASHRAE Cincinnati Chapter meeting on:

DATE: December 11, 2012

TIME: 11:30am

PLACE: Crowne Plaza
5901 Pfeiffer Road
Cincinnati, OH 45242

COST:

___ \$0.00 Past Presidents

___ \$30.00 ASHRAE member
(\$5.00 discount if RSVP by deadline)

___ \$35.00 Non-Member
(\$5.00 discount if RSVP by deadline)

___ \$10.00 Student

TOPIC: Holiday Luncheon

Speaker : Paul Daugherty – Sports Writer

FAX TO: *Laura Kamphaus (513) 481-5361*
Or Email: laurakamphaus@zoomtown.com

Registration deadline NOON Friday, December 7, 2012
Remember to honor your reservations. No shows will be billed by ASHRAE

December,, 2012