

Cincinnati ASHRAE News

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

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It's hard to believe that we are already three months into 2013. Time flies when you're having fun I guess. It has been a few years since we had a program about Variable Refrigeration systems so I felt that this would be a good topic to revisit. Also, I want everyone to be aware of our upcoming golf outing in May. We will have more information out on that in the next couple weeks.

Finally, I want to congratulate John Kuempel, Jr. from Debra-Kuempel. He is going to be awarded with the Distinguished Service Award from ASHRAE at the upcoming Annual Conference in Denver, CO. Well done!

Hope to see everyone at the meeting on Tuesday!

Speaker Bio:

Matthew Bennett is the Regional Commercial Manager for Mitsubishi Electric. As an engineer, Matthew has designed and sold VRF projects since their introduction in 2003. Matt was also a sales engineer with Trane in Kentucky for 10 years and spent the past 5 years as the Regional CITY MULTI Manager for Mitsubishi Electric. His responsibilities include managing the Sales and Distribution of CITY MULTI VRF in six Midwest states.

Matt will be presenting on general overview of VRF technology (Heat Pump vs Heat Recovery Systems, Indoor Equipment, controls), review of design considerations (Designing with Diversity, Ventilation Requirements, Heating Considerations), and general benefits of VRF.

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.



Quarterly/Spring NEWSLETTER

March 2013
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- Student Activities
- ARC Report

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

I hope everyone is surviving the winter and doing well - spring is just around the corner.

Since our last newsletter we attended the Society Winter meeting and AHR Expo in Dallas, Texas. The meeting and show was one of the largest best attended meetings outside of the Chicago meetings. The winter meeting had good technical presentations and a lot of great Committee and Board work completed. Thanks to all of our Region's RVC's, TC members, nominating members and other committee members for your dedication and efforts. During the winter meeting we had a great regional dinner. This year we joined Region VI and had a combined dinner that was a lot of fun (thanks Rick Zbin for setting up the dinner). Also at the winter meeting we had a couple of Region V members recognized; Tom Durkin from Indianapolis as an ASHRAE Fellow and Monte Troutman from Evansville received the Distinguished Service Award. I hope many of you plan to attend the Society Annual Meeting in Denver, Colorado 6/22 thru 6/26/13.

In addition to the annual meeting, the following are other scheduled dates that you should put on your calendar:

- April 18, 2013: Free ASHRAE webcast "Assessing Building Energy Performance: From Principle to Practice" (Register at www.ASHRAE.org starting 3/18/13).
- April 25 & 26, 2013: Thursday evening 4/25, we will have our Spring regional planning dinner and Friday 4/26, will be our President-Elect training for all chapter president for the 2013/14 Society year. Both meetings will be held in Fort Wayne, IN - details will be on the Region website and emails with details will be sent to all current chapter

presidents and President-Elect. Note: Everyone in the Region is welcome to attend these meetings (contact me if you have interest).

- May 2013: Ballots will be sent out for you to vote on next year's Society officers. Don't forget to vote for your next DRC - Rick Zbin.
- June 1, 2013: All chapters must have their CIQ (Chapter Information Questionnaire) completed on the ASHRAE website with all of your 2013-14 chapter officers and committee chairs. Don't forget there is a new committee next year - GGAC (Grassroots Government Activities Committee) which will need a chapter chair. Please start to fill your 2013-14 positions now if you have not already done so.
- June 24, 2013: Region V dinner at Annual Society Meeting - Denver, Colorado.
- July 15, 2013: Final PAOE reporting must be completed online. Please review and update your PAOE reporting now.
- August 8-10, 2013: Region V - 2013-14 CRC, Columbus, OH. The host CRC committee has planning well under way for a great Fall CRC. Watch your emails and visit the Region V website for updated details on this great event. Plan to attend.

As you can see, there is a lot to do in the coming months.

Region V was pleased to host our Society President, Tom Watson for a three day/four Chapter visit to the Midwest. Tom made

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visits and presentations to Central Indiana, Fort Wayne, Western Michigan and Northern Indiana Chapters. I wanted to thank all of these chapters for their great hospitality and exceptional meetings. Tom had nothing but good things to say about all the chapters he visited. I was very proud of all of you - thanks for showing off our Region.

As always, I encourage everyone to continue the great things you are doing for ASHRAE. Please contact myself or any of the Region V officers if you have questions, concerns or suggestions about your chapter or our region.

Thank you for all you do for ASHRAE, the Region and your Chapters.



*"SHAMBAUGH" Headquarters
Fort Wayne, Indiana*



*Lee Millies / Chuck Ray / Tom Watson
"SWEATWATER" Fort Wayne, Indiana
"Platinum" LEED*



Resource Promotion Committee Report by: Derek Crowe, RP RVC

As we approach the two-third point of our Research Promotion Campaign, Region V has many positive accomplishments to date but we must focus our RP efforts over the next couple of months.

Last fall the ASHRAE Board of Directors asked RP to help solicit the remaining \$25,000 to fully fund the Lynn Bellenger Scholarship. RP quickly responded by raising nearly \$45,000. A generous thank you to Cleveland, Cincinnati, Dayton, Central Indiana, Detroit, Western Michigan, Akron/Canton and Northern Indiana for making this possible.

I would like to acknowledge Dan Rademacher of the Western Michigan Chapter for again leading the way this year and having his chapter campaign at \$8,374

which is nearly 90% of goal! Dan is currently less than \$1,200 from meeting his goal and setting a new high five! High five is the greatest level of chapter donations in the past five years. Go Western Michigan Chapter!

Also, Denny Lammlein of the Dayton Chapter and Andrew Shekell of the Evansville Chapter are currently 50% of goal and high five! Nice work guys!

To date, Region V has raised \$27,000 of our \$115,000 goal. Although Society is currently on pace to meet the \$2.2 million goal, Region V is 20% behind last year's pace.

We are very fortunate to have \$2.3 million in research assigned to our area. This is 15% of the total Society. If we meet our regional goal, we will only raise 5% of the Society RP dollars.

With a 3 to 1 payback and one of the lowest \$/member goals in North America, there is no reason for us to fall short.

If every member gave at least \$50 we would easily accomplish our goals. Companies and organizations indirectly tied to our field are also great opportunities. We must remember our daily connection to the ASHRAE Handbook and Standards along with improvements in areas such as commercial airplane cabin ventilation (research is occurring in our Region!).

To reach all of our goals and support the advancement of ASHRAE through Research, I encourage all chapters to hold a Research Promotion Night at their March and April

meetings and schedule calling campaigns. Spending 5-10 minutes at the chapter meetings to recognize the current donors and discuss the benefits of ASHRAE Research will earn 25 PAOE points each time and inspire additional donors. Calling campaigns with the help of the volunteer committee and chapter board of governors are very successful. A simple reminder to last year's donors and quickly reconnecting with previous donors is generally all that is needed.

Thank you again to all the chapter chairs for their dedication this year. I look forward to another successful year!



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

To represent our Region V for Chapter Technology Transfer, in January I attended the ASHRAE Winter Meeting in Dallas. Once again, our CTTC Committee received great updates from our technology and energy consultant, refrigeration consultant, certifications committee, and the ASHRAE Learning Institute. We were also given an update on the soon to be implemented: Grassroots Government Activities Committee (GGAC). Here are some highlights from the various presentations:

- The ASHRAE Wiki will receive a major update in March 2013....members are encouraged to visit the Wiki after March.
- The "HVAC Design" courses (2 day and 3 day) be conducted at ASHRAE Headquarters have been well attended; chapters are encouraged to sponsor a local member and send them to the course
- The GGAC will conduct its first committee meeting in Dallas on January 27th...with the committee officially starting on July 1, 2013. The Committee Chairs and Regional Vice Chairs have been selected.
- 50% of our water consumption can be attributed to electricity generation!

- Chapters are encouraged to submit a candidate for the newly approved "R" in ASHRAE Award
- 90.1-2013 is targeted to be issued in the summer of 2013

Chapters are reminded to promote the April 18, 2013 webcast: "Assessing Building Energy Performance: From Principles to Practice" to their membership.

Please remember the ASHRAE Technology Awards are there to acknowledge the great designs that our members have formulated. As you prepare your submission, please be aware of the following deadlines for 2013:

May 30th: Deadline for chapter to submit Technology award application to RVC for Regional judging.

July 1st: Submitters notified of Regional judging results

August 5th: Deadline for 1st Place Regional Award winners to submit long form application that will be forwarded to Society level competition. Remember, one year's worth of operating data

must be used in your society submission.

Sept 1st: Deadline for submitting to Society level competition; RVC to submit.

Thank you to all chapters that have utilized the DL Program this year! As we close out the ASHRAE year, please remember to update your CTTC PAOE points!



Student Activities Report by: Russell Marcks, RVC Student Activities

Based on my observations in Dallas and various emails from chapter SA chairs, we continue to do well as a Region in Student Activities. There's a bit to report, so let's get started.

Region V did well again this year in Undergraduate Senior Grants. There were 24 submissions for the 2013-14 Grant cycle with 21 projects funded. The projects funded in Region V are:

Miami University	Design and Construction of an Air Curtain Simulator of Supermarket Open Refrigerated Display Cases
Purdue University	Heat Pump Water Heater
Indiana University Purdue University Fort Wayne	Design and Development Educational Solar Water Heating System with Phase Change Materials
Purdue University	Performance of Finned Heat Exchangers and Heat Sinks after Air-side Fouling and Cleaning

Each school was awarded the maximum possible funding of \$5,000 for their respective projects. Grant submissions were down this year; last year there were 43 submissions. The Undergraduate Senior Grants is a great way for faculty to obtain equipment for educating students in the HVAC industry, and to get students involved in the construction of a trainer that can be used for years. I encourage all Student Activities chairs and all chapter members to remind local faculty that this opportunity is available. The school does not have to be involved in ASHRAE to apply. However, it is a great way to begin ones involvement.

I should also note that two members of the top ranked student project team are awarded a trip to the winter meeting to present their project. This year, that was Professor George Nanna's student team from Purdue-Calumet with a project entitled 'Refrigeration and Heat Pump Teaching System'. The presentation was quite good. If any of you ever get a chance to attend the winter meeting, I strongly recommend you attend the student presentation segment. It's quite rewarding and quite fascinating.

Also coming out of the Dallas meeting this year is the new Youth Outreach Award. A recent email from Society states:

"The Youth Outreach Award was approved in Dallas by the Honors and Awards Committee, Members Council, and the Board of Directors. SAC will select a winner each year...and forward a recommendation to the H&A Committee at the Winter Conference...The Youth Outreach Award will be added to the information on the H&A webpage."

This should not be surprising. Society has placed an emphasis on K-12 outreach and activities. The appropriate information for the award is not yet available on the Honors & Awards webpage. I will let you know when it is. In the meantime, if you have one or more chapter members doing K-12 outreach, please keep this award in mind. This award will be presented at the CRC in the future.

In a similar vein, the 'Full Circle' (for lack of a better name at this time) for student activities is moving along. Modeled after the Full

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Circle for Research Promotion, it will require each chapter officer to do at least one K-12 visit during the year. The means of doing so will be left to the chapter. Student Activities Chairs and chapter officers should develop whatever plan of action to make this happen. Of course, I will provide whatever aid and advice I can to help you make this happen.

Closer to home, we have several things going on at our chapters in the area of starting/reactivating student branches. First, Bethany Beckman, the SAC for Western Michigan, was successful in efforts to reactivate the student branch at Western Michigan University. Please congratulate Bethany the next time you see her on a job well done. I also encourage the Western Michigan chapter membership to become active with and help strengthen this new student branch.

Similarly, Steve Ehrman in Fort Wayne is trying to establish a branch for Ivy Tech. His reports sound quite promising. Matt Nelson also continues to work at getting a branch started at Cleveland State. Wouldn't it be great to go to the summer meeting with three new student branches!

Now the appeal. I know the legwork in getting a student branch started is the responsibility of the chapter SAC. However, the responsibility of a successful student branch lies with all chapter members. I encourage

any member of the Fort Wayne and Cleveland chapters to offer their services to your respective SAC. It can be a VERY tough job to recruit a faculty advisor much less the students. I know your SAC would really appreciate your help. Of course, this appeal can and should be made to all thirteen regional chapters. As I stated in the September newsletter, our student members are our future.

As a final point, I have updated my portion of PAOE for all chapters. Congratulations to Hans Cromer of the Columbus Chapter for being the first to reach PAR. So far, only two chapters have reached minimum and PAR. Based on what I've been hearing about your work, I can only assume you simply haven't logged in yet. I encourage you to do so. By the way, did you know that you can get points for mentoring an Undergraduate Senior Grant project and/or a Senior Design Project? This is especially true if the member is YEA. Hopefully, your chapter participated in National Engineers Week activities. This also counts for points. All chapter SACs have my email. Let me know what you're doing and definitely contact me if you have any questions. I look forward to hearing from you.



Region V ARC by: Richard Zbin, Region V ARC/Webmaster

I would like to start off by thanking everyone who attended our joint regional dinner with Region VI in Dallas at the winter meeting. We had 42 members from both regions attend the dinner at Sol Irlandes which was a buffet style Mexican dinner. All who attended would like to have another joint dinner in the future.

I would like to thank everyone for nominating me to become the next Director and Regional Chair for Region V. I hope to continue to operate the Region as has been done by Lee Millies, Fred Betz and Jim Wilson. If elected, my term would start at the summer meeting in Denver.

I am looking for someone to take over the job of Region V Webmaster. The responsibilities are to maintain the regional web site, attend the President-Elect training and also attend

the CRC. If you know of anyone interested in this position, please contact Fred Betz and let him know of your interest. In maintaining the regional web site, you will need to upload any changes in regional officers, information about the CRC, information for the two regional dinners and to upload the regional newsletter four times a year. At the President-Elect training, you would need to provide information to the presidents concerning the chapter web sites.

Keep your calendars clear to attend this year's CRC in Columbus, Ohio. The Columbus chapter will be making an announcement soon on the dates and the events for the meeting. Plan to attend and bring your families, I hear the Friday night dinner will be a family friendly event.



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 |
| March 12, 2013 | Monthly Members Meeting - Luncheon
VRF Presentation
Speaker : Matt Bennett |
| April 9, 2013 | Monthly Members Meeting – Luncheon
HVAC Acoustics
Speaker : Randy Zimmerman - Titus |
| 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: March 12, 2013

TIME: 11:30am

PLACE: Crowne Plaza
5901 Pfeiffer Road
Cincinnati, OH 45242

COST:

— \$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: VRF Presentation
Speaker : Matt Bennett

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

Registration deadline NOON Friday, March 8, 2013
Remember to honor your reservations. No shows will be billed by ASHRAE