Happy New Year

President’s Message
By: Rob Teis

The New Year is upon us and now is the time when many think of ways to improve their lives for the coming year. Often resolutions take the form of curbing a bad habit, improving our health, or working towards something. Believe it or not you can find a list of popular New Year’s resolutions at www.usa.gov. One study of 3000 people attempting resolutions indicated that 52% were confident they would attain their set goal(s) at the beginning, but by the end of the study only 12% had attained success. Men were more likely to succeed when setting measurable goals. Women were more likely to succeed when they told friends / family and had their support.

If you are looking for some ASHRAE related resolutions your task is a simple one. Being part of a volunteer organization has copious ways of filling your resolution slots. Here are my top 5 in no particular order. I hope to do better than the slacking 88% this year!

1) Sign up a new member.
2) Donate more than last year to ASHRAE Research
3) Donate an auction item
4) Help continue our chapter’s standing with the Premier Award
5) Attend CRC this April and take home the Golden Gavel

(Continued on page 2)
I hope we all have safe and prosperous times in the year ahead. Thank you all for the time, money and effort you donate to ASHRAE and our chapter.

Rob Teis can be reached at
918-382-6134 or robt@aaon.com

Research Promotion
By: David Myers

Research Promotion is in full swing. Donations for this Chapter year are lagging behind where we were this time last year. Chapter data indicates we’re at $9,345.00, down 13.5% from a year ago. Thank you to both our corporate and individual members who have given.

Reminder: In February we will be having our auction on Spouse’s night. The more we have donated for the auction, the more we raise for ASHRAE Research. We will accept anything from gift certificates to restaurants or stores, baked goods, collectible items, works of art, nostalgia, or items of industry history. Please call me at 918-382-6191 or email me at davidm@aaon.com to let me know what you will be donating so we have a running list. We will be promoting some items in advance via email and on our website. Keep an eye out for coming announcements. The February meeting is a great opportunity to spend time with colleagues and meet their spouses, but also to buy some great items – all for the cause of raising money for ASHRAE Research.

As mentioned in the November meeting, I can get you coins you’ve missed in years past, and even the coin display placards. They’re a great way to show your support for ASHRAE Research and can influence others to make their contribution.

The new calendar year means we have more work to do for the 2011 ASHRAE Research Chapter year. Our $45,000 goal is achievable and, in the current economy, requires everyone to be involved. We hope we can count on your new or continued support. Thanks to all of you for continuing to make the NEOK Chapter one of the leaders in donated funds to ASHRAE Research .

David Myers can be reached at
918-382-6191 or davidm@aaon.com

Pictures From Last Chapter Meeting

BIM Panel Speakers: Justin Roush (3rd from left), Scott Vrooman (4th from left), and Steve Johnson (5th from left)

BIM Panel Speakers: Steve Johnson (far left), Leo Williams (2nd from left), and Bobby Goldsberry (2nd from right)
Treasurer Report
By: Chad Smith

The chapter’s finances are healthy as always. Thank you to all who have paid their dues. Please be sure to renew your dues on time. You can do it online to make it even easier. Remember, our chapter has elected to have Society collect our local chapter dues at the time members renew their ASHRAE dues. So please renew your dues with Society so that the chapter can collect our local dues.

Also, for those companies who have chosen to purchase booster tickets, please be sure to pay them. If you need an invoice from me, please contact me and I can get you one quickly. Thanks and Happy New Year.

Chad Smith can be reached at 918-665-6600 or Chad@airetechcorp.com

E-Vite Notifications
By: Robert Schatz

If you have stopped receiving meeting notifications from the E-Vite system and chapter newsletter notification or would like to receive them at a different or new email address, please contact me. I would also like to remind everyone that they need to add info@mailva.evite.com to their address book to ensure that they receive Evite emails in their inbox.

Robert Schatz can be reached at 918-836-0271 or robert.schatz@leeandbrowne.com

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December 2010 Net Worth - As of 12/16/2010
(Includes unrealized gains)
As of 12/16/2010

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October 21st BOG Minutes
By: Scott Pollard

Attendees: Chad Smith, Mike Kirk, Mike Beda, Joel Karstetter, Rob Teis, Bill Hanlon, Dan Owens, Scott Pollard, Dave Lam, Dave Meyers

The NEOK Chapter Board of Governors (BOG) meeting was held on October 21st, 2010 at Joe’s Crab Shack.

Chapter President Rob Teis, called the meeting to order at 4:38 PM.

Minutes: September BOG Meeting minutes were accepted as amended.

Treasurer: Chad Smith reviewed the financial reports. Golf tournament completely paid up. Tulsa Engineering Society dues are paid up. Booster ticket balance sheet also attached. Picnic was over budget, but income was also over budget. Chad will send a letter to prior members as to their interest in purchasing booster tickets for the year. Financials are filed for audit.

Newsletter: Mike Kirk asked for comments on the newsletter. Articles will be due on the 27th.

Research Promotion: Dave Myers has ordered the certificates for the October meeting. Has sent out email regarding the Full Circle Award and required donations.

Membership Promotion: Membership award will be passed out at next meeting.

CTT – Technical Programs: Everything has been slotted for technical sessions.

Directory: Bill Hanlon stated that the new database has been downloaded from Society and is up to date. He will get with Ryan about switching home/business to primary/secondary.

Publicity: Poker night will be on 11/9. Event should be advertised as YEA event.

CRC 2012 Host Committee: Dan Owens said next year’s CRC will be in Dallas. He and Keith will start looking into filling in positions for CRC.

New Business: Joel Karstetter will head the audit committee, Chad Smith and Cary Pestel will also sit on the committee.

PAOE points need to be updated.

Half pot is up to $89.

The meeting was adjourned at 5:10 PM.

Scott Pollard can be reached at 918-250-5590 or scott.pollard@omni-2.com

LET’S DO LUNCH
NEXT MEETING
January 13th, 2011
11:30 AM
Uncle Buck’s Grill
The NEOK Chapter meeting was held on November 11th, 2010 at Uncle Buck’s.

Chapter President Rob Teis called the meeting to order at 6:42 PM.

Dave Myers presented research awards for the 2009-2010 year. Award recipients this year for contributions over $500 were Process Equipment Company, Automated Building Systems, Airetech Corp, Trigen Tulsa Energy Corporation, AMECO, K&M Shillingford, and Phillips and Bacon. The Golden Circle recipient for a $10,000 contribution was AAON. MCAA was recognized for a $5,000 contribution. The contributions less than $500 were Air Duct Inc, Donohue Commercial Services, Flynt & Kallenberger Inc, Cary Pestel, Chuck Mayfield, Dan Owens, Dave Myers, Fred Richardson, Gene Redford, George Adams, Herschel Roberts, Jim Mitchell, Jerry Smith, Jon Lantz, Keith Browne, Mark Hixon, Mike Gulizio, Mike Base, Dick Drinkwater, Rob Teis, Bob Allwein, Ron McGill, Sam Davis, Steve Johnson, Terry Coleman, Tom Owens, Bill Hanlon, Jim Waldroop, Bill Vawter, Karen Beda, OCE Mechanical, Omni-2 Mechanical Services, Palmer Plumbing Heating & Air Conditioning Inc, Allied Engineering Group, Boone & Boone Sales Company, Control Installations Inc, DS Herron Co, Heatwave Supply, Integrated Control Systems, Johnson Controls, McIntosh Services Inc, MPW Engineering, Chad Smith, David Knebel, Mark Fly, Mike Beda, Pannell Associates Inc, Red Bud Services Inc, SMACNA – Oklahoma, Tulsa Air Specialist Inc, Dan Moffitt, David King, Jerry Green, Peter Shillingford, Richard Germany, Robert Schatz, Air Comfort Inc, Browne Consulting Engineers Inc, Michael Kirk, Bill Kyger, and Warren Smith & Associates Consulting Engineers. Dave showed what would not be present in ASHRAE standards if ASHRAE research dollars were not contributed.

Brady King reminded everyone to recruit new members. The membership award consists of a plaque and $100 and will be awarded at the end of the year. YEA is being emphasized to all members 35 years and younger to bring newer membership into ASHRAE. We are looking for mentorship programs for younger membership.

Keith Browne gave the invocation and led the Pledge of Allegiance.

The veterans were recognized. Keith gave us the story of Master Sergeant Benavidez and the history of his Medal of Honor.

Bill said the half pot is up to $160. There was no half pot winner.

Ken Fulk, Director Regional Chair, gave a presentation on ASHRAE Members. Slides were presented regarding ASHRAE’s composition, breakdown of Region VIII, national structure, Building EQ, ASHRAE 189.1, Advanced Energy Design Guides, Indoor Air Quality Guides, Certification, eLearning, High Performance Buildings, bookstore improvements, jobs board, scholarships, and the living lab at the headquarters. The presentation is available from both Ken and Rob Teis.

The main program was “Industry Trends and Single Zone VAV”, presented by Dave Knebel. Slides were presented regarding history of speaker and past work, building conservation programs, how oil is used, energy conservation related to electricity, high efficiency systems, evolution of efficiency standards, electric cooling power and energy, what effects energy usage, current energy standards, single zone VAV units, understanding how HVAC systems work, reheat systems with modulating hot gas reheat, reheat psychrometrics, analysis of DX with VAV control, return air bypass, the end of hot gas bypass, energy comparison between the various systems, and optimal controls.

Next month’s meeting will be with AIA and BOMA. It will be a lunch meeting held at the Southern Hills Marriot.

There will not be a tech session.

(Continued on page 6)
November 11th BOG Minutes
By: Scott Pollard

The NEOK Chapter Board of Governors (BOG) meeting was held on November 11th, 2010 at Uncle Buck’s.

Chapter President Rob Teis, called the meeting to order at 4:35 PM. Thank you Ken Fulk for attending our meeting.

Minutes: October Chapter Meeting minutes were accepted as submitted.

Treasurer: Chad Smith reviewed the financial reports. We do not yet have this month’s invoices in. There were quite a few invoices submitted for booster tickets. Everything appears to be on track with the budget for this year. Financials will be submitted for audit. The taxes are also current and up to date.

Newsletter: Mike Kirk requested the articles by the 24th of November.

Research Promotion: Dave Myers said the poker night raised $310. Tim Wilcox was the big winner. Need to establish a committee for donations for the February auction to make sure we have plenty of auction items.

Membership Promotion: Brady King said delinquency is slightly above 3%. He is working to bring the level down. Looking to locating mentors for new members and students. We will be continuing the membership award again this year. Will submit an article for the newsletter talking about the award. There is a $100 award for the winner.

CTT – Chair/Main Programs: Duane Harman said main programs are good through March and April and are just awaiting confirmation.

CTT – Technical Programs: Mike Phelps said we have all the topics set for the year. Awaiting confirmation.

Student Activities: Sam Davis said we look like we should have a large student member population this year. Will have a total by next board meeting.

Directory: Bill Hanlon said he talked with Ryan about the new format and will discuss in more depth on Friday evening for pricing. Will have report by next BOG.

Historian: Gene Redford is getting the chapter data updated. Has been working with his regional officer and will be getting a chapter history on the website. He will be working on a chapter leadership recall articles.

Attendance: Robert Schatz said we have 3 members with updated email addresses for the Evite and newsletters.

Publicity: Justin Roush said we made $310 at the poker tournament. Paid out $50 to the winner.

Website: Scott Pollard updated historical newsletters. Will write an article about missing newsletters. Need new awards and history for the website.

Honors & Awards: Patrick Chapman is getting Dave’s information sent in tomorrow. Will be talking to Society about who may be eligible.

(Continued on page 7)
CRC Action/PAOE: Chuck Mayfield said currently PAOE is a little over 1100 points. Currently 3rd in the region. Need to work on adding membership and membership retention. Need to work on upgrading members from associate to member. CTT needs to have some 3 hours learning classes again as well as the webcast. Need to have a meeting topic on building modeling. Joint meetings also count for points. Need to have more YEA events and also count YEA members.

Special Events: Mary Goins said we will be looking into changing locations for next year’s Golf Tourney and Picnic.

Nominating Committee: Paul Roberts said we need to have the committee named by January chapter meeting for announcement at the chapter meeting.

CRC 2012 Host Committee: Dan Owens said everything has been booked. He is still looking into gifts to hand out at CRC in Dallas in April. Keith Browne said we will be looking into getting corporate sponsors for CRC sponsorships. Hopefully the Friday night dinner will be covered by sponsors. Will probably need $5,000 to cover cost for the dinner. Will look into a gold, silver, bronze type of sponsorship program. Ken said Dallas will have a more detailed registration format for CRC to allow for more availability to take more of the courses as individual rather than just a lump option to help those who may be financially restricted. Should try to get submissions before December so it can be processed prior to the winter meeting.

Sustainability: Todd Lester said he put an article in the newsletter.

New Business: There is a meeting conflict with our chapter meeting 4/14 and CRC being 4/14-1/16. We will look into moving the meeting up a week. The meeting room was double booked again this month. Will need to discuss with the restaurant to make sure it does not happen again. The December meeting will be at the Marriot due to needing the larger meeting room. Chad asked if MCAA will be doing another donation again this year for research. Ken thanked us for our chapter’s hospitality. Ken offered any assistance that he can offer from both the regional and national level. Ken said the winter meeting will be in Las Vegas. There will be a regional dinner on Monday night. President elect training will be in February at the same time as the regional planning. This is also an opportunity to look into elevating chapter members to the regional level. There will be a webinar this month on the 22nd for president elect training prior to the February meeting. CRC attendance is recommended. Delegate, alternate, incoming CTT, and incoming student membership will be reimbursed for travel. Asking for the CIQ to be filled out by February prior to CRC. Need to start drafting officers and chairs for next year. Financial audit needs to be completed. Newsletter is great. Chapter is a model for other chapters. Any roster changes need to be turned in. Newsletter needs to go to regional officers, golden gavel committee, and newsletter judging committee. Committee members need to stay in contact with their regional officers.

The meeting was adjourned at 5:21PM.

Scott Pollard can be reached at
918-250-5590 or scott.pollard@omni-2.com

Half Pot Update
By: Bill Hanlon

Thanks to all who helped in this fund-raising effort. The ace of spades was not drawn, so the pot will continue to grow next month and the number of cards will get smaller. Best of luck at the January meeting.

Bill Hanlon can be reached at
918-835-8333 or bill.hanlon@icstulsa.com
Chapter Bulletin Board
By: Dave Lam

Fellow Northeastern Oklahoma ASHRAE members,

We have an ASHRAE member who is struggling with the burden of cancer. Shawn Hough, who has been a member for almost 3 years, was diagnosed with meningioma about 5 months ago. Doctors deemed his case as extremely rare and were not sure how to treat it. About 2 months ago the decision was made for him to go to Houston, TX and check into the MD Anderson clinic for intensive rounds of chemotherapy. Shawn was very much on board with this but was very concerned about his job and the effects of this on his career and family. Shawn has had to go on short disability, which only pays a bit over 50% of his salary. With 2 young kids in tow this has been a financial burden on him and his family. In order to help ease the strain of that burden we have set up a fund at the American Heritage Bank, 220 S. Adams Rd., in Sand Springs (and other branches in our western suburbs). The fund is Shawn Hough Special Account. Omni Mechanical had a small fundraiser over Thanksgiving which got the fund off to a good start, but we wanted to let others know that we have a member in need. Shawn is married, 33 years old with 2 children, Logan age 9 and Lizzie 4. Donations can be made at the bank or will be accepted at the offices of Omni Mechanical and deposited in your name.

You can keep up with Shawn’s progress on the internet through CaringBridge—
www.caringbridge.org/visit/shawnhough

Please keep Shawn and his family in your thoughts and prayers.

Dave Lam can be reached at
918-250-5590 or david.lam@omni-2.com

Chapter Technology Transfer
By: Duane Harmon

Thanks to the panel members, Steve Johnson, Leo Williams, Bobby Goldsberry, Scott Vrooman, and Justin Roush for leading the December discussion on BIM. As the architectural discipline appears to be moving quickly toward designing and building in the 3D world, learning and understanding the pro’s and con’s of the process is beneficial to all involved.

At this month’s luncheon meeting the main program is a distinguished lecturer from ASHRAE. Christopher McDonald will present on Document Management and Discovery – How Documents and E-mails are Used in Litigation. This presentation will explain how documents and e-mails are used in litigation. It will provide sample documents to help illustrate how adversaries will use documents to their advantage in litigation. It will also provide tips on how to manage documents to avoid creating documents that can be taken out of context and used against a potential defendant.

Christopher M. McDonald is a partner at Shook, Hardy & Bacon L.L.P., a law firm headquartered in Kansas City, Missouri. He has been with the firm for fifteen years engaged in the practice of law focusing on toxic tort, environmental, regulatory and indoor air quality issues. He also focuses on advising clients relating to litigation avoidance and preparedness. Much of his work deals with complex scientific and technical issues. Chris also spends a significant amount of time working with junior lawyers on the firm’s Associates Committee, which he currently chairs.

(Continued on page 9)
Mr. McDonald has authored numerous articles and given numerous presentations on issues relating to liability for indoor air quality problems and mold contamination and steps to take to avoid liability for such problems. He has also presented on issues relating to information management and discovery in civil litigations as it relates to engineering practices.

Duane Harmon can be reached at 918-877-6000 or dharman@cyntergyaec.com

Chapter History
By: Gene Redford

Here we are already into 2011 and I sure could use some new articles from anyone who would like to share their information with the chapter. I can write about companies and the chapter, but I think the members would like to hear more about some of our members who have contributed to our chapter’s success. I think I mentioned a while back about setting down and just think about how you arrived at the position you now have. You will be surprised at how easy it becomes once you start thinking back. One memory will lead into another memory and so on. Just try it today. Remember we have one of the best chapters in Society.

We continue to lose members either from retirement or some are passing away. If there is a member that you have not seen at our meeting in a while, call them and invite them to our next meeting. This will let them know they have been missed. I know everyone gets busy and thinks they don’t have time to attend more meetings, but we only meet once a month and only nine times a year. This is one time we can all get together and visit and even make new friendships. So the next time you think you cannot make our meeting, just think about someone may be there in hopes of getting a chance to visit with you and catch-up on things.

I know there are many stories out there that have not been told in a while or not told at all. I have told some of mine and would like to share some of yours. I am looking for as much information as I can find as I am putting together a bio of our chapter—kind of like what OKC has done on the web. If you have not seen it yet look it up and see what they put together a few years ago.

We have been very fortunate in having the great leadership all of these years and we sure don’t want to let up now. So now go out and get your history article ready to send me so we can feature you in one of our newsletters. We have a good newsletter, and I want to keep the history articles interesting for everyone to read and enjoy. Sometimes I think maybe I write too much about what I know and remember and it may get somewhat boring. I need information about you today!

Gene Redford can be reached at 918.270.1414 or redford.g@mcintoshservices.com

Research Support

Tom Owens accepting a plaque acknowledging the Eastern Oklahoma Chapter of the Mechanical Contractors Associations of America’s research contribution of $5000.
## 2010/2011 Programs

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<th>Date</th>
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<td>Tiffany Bates - ClimaCool</td>
<td>Natural Gas Industry</td>
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<td>Student Activities, Past Presidents, &amp; Golden Circle Night</td>
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<td>Engineering Ethics</td>
<td>Bruce Pitts, Oklahoma State Board of Licensure</td>
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<td>Rob Teis</td>
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<td>Mike Kirk</td>
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<td>Robert Allwein</td>
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<td>David Lam</td>
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<td>Bill Hanlon</td>
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<td>Gene L. Redford</td>
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<td>Patrick Chapman</td>
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<td>Paul Roberts</td>
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<td>Brady King</td>
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<td>Duane Harmon</td>
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<td>Jeff Ferguson</td>
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<tr>
<td>Student Activities</td>
<td>Sam Davis</td>
<td>249-1918, 249-9014</td>
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<td>Sustainability</td>
<td>Todd Lester</td>
<td>743-4419, 743-4469</td>
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<tr>
<td>YEA</td>
<td>Derek Wilde</td>
<td>270-1414, 270-1444</td>
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<tr>
<td>Webmaster</td>
<td>Scott Pollard</td>
<td>250-5590, 459-0997</td>
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<tr>
<th>Important Dates</th>
<th>Meeting</th>
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<tr>
<td>August 19, 2010</td>
<td>Board of Governors</td>
<td>Joe’s Crab Shack</td>
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<tr>
<td>September 9, 2010</td>
<td>Chapter Golf Tourney</td>
<td>Joe’s Crab Shack</td>
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<tr>
<td>September 16, 2010</td>
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<td>Joe’s Crab Shack</td>
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<tr>
<td>October 14, 2010</td>
<td>Chapter Lunch Meeting</td>
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<td>October 21, 2010</td>
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<tr>
<td>November 11, 2010</td>
<td>Chapter</td>
<td>Uncle Buck’s Grill</td>
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<td>November 11, 2010</td>
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<td>Joe’s Crab Shack</td>
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<tr>
<td>December 9, 2010</td>
<td>Chapter Lunch Meeting</td>
<td>Tulsa Southern Hills Marriott</td>
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<td>December 16, 2010</td>
<td>Board of Governors</td>
<td>Joe’s Crab Shack</td>
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<td>January 13, 2011</td>
<td>Chapter Lunch Meeting</td>
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<tr>
<td>January 29–February 2, 2011</td>
<td>ASHRAE Winter Meeting</td>
<td>Las Vegas, NV</td>
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<td>February 17, 2011</td>
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<td>March 10, 2011</td>
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<td>March 17, 2011</td>
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<td>April 14, 2011</td>
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<td>Joe’s Crab Shack</td>
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<td>April 14-16, 2011</td>
<td>CRC</td>
<td>Dallas, TX</td>
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<td>May 12, 2011</td>
<td>Chapter</td>
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<td>May 19, 2011</td>
<td>Board of Governors</td>
<td>Joe’s Crab Shack</td>
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<td>June 16, 2011</td>
<td>Board of Governors</td>
<td>Joe’s Crab Shack</td>
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<tr>
<td>June 25-29, 2011</td>
<td>Annual Conference</td>
<td>Montreal, Quebec Canada</td>
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</table>

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Region VIII – Regional Dinner  
Monday, February 3, 2010  
6:00 PM Reception  
6:30 PM Dinner

"an old Vegas Italian landmark"  
-Zagat Survey

Battista’s  
4041 Audrie Street  
(behind Flamingo Hilton)  
Las Vegas, NV 89109  
Tel: (702) 732-1424  
Open Daily

Cocktails:
4:30pm - 10:30pm

Dinner:
5:00pm - 10:30pm

(Please note that Battista’s is located a short taxi ride from your hotel)

Pasta Dishes
1. Ravioli (Cheese)
2. Lasagna
3. Manicotti (Cheese)
4. Canelloni (Meat)
5. Eggplant Parmegiana
6. Fettuccine Seafood Sauce

Spaghetti or Ziti with choice of one sauce
7. Sausage Cacciatore
8. Meatballs (2)
9. Meat Sauce
10. Pomodoro

10 oz. Boneless Breast of Chicken
11. Chicken Rio
12. Chicken Parmegiana
13. Chicken Cacciatore
14. Steak Pizzaiola
15. Linguini Chopped Clams
16. Chicken Alfredo

All Inclusive Menu Features:
Free House Wine Included (Red or White) • Minestrone Soup or Italian Salad • Complimentary House Wine • Garlic Bread • Pasta Side • Homemade Cappuccino

Cost
$30.00 per person
Pay at the Door

RSVP by January 20th, 2011 to John L. Harrod, ARC
(405) 607-6110 (office direct)  
(405) 206-8341 (cell)
Concurrent with the ASHRAE Winter Conference...

FREE REGISTRATION
www.ahrexpo.com

EVENT HIGHLIGHTS
• Over 1,800 Exhibitors
• 50+ Educational Presentations
• Hundreds of New Products right on the Show Floor
• Special Exhibits and Presentations on new technologies promoting energy efficiency and sustainability
• 2011 AHR Expo Innovation Awards
ASHRAE Learning Institute
Seminars & Courses at ASHRAE’s Winter Conference in Las Vegas, NV

2 WAYS TO REGISTER
Internet:  www.ashrae.org/lasvegascourses
Phone:  Call 1-800-527-4723 (US and Canada) or 404-636-8400 (worldwide)

Full Day Professional Development Seminar
$485/$395 ASHRAE Member -- Earn 6 PDH/.6 CEU or 6 AIA LU credits

The Commissioning Process in New & Existing Buildings
Saturday, Jan 29 – 8:00 a.m. to 3:00 p.m.

Healthcare Facilities: Best Practice Design and Application
Saturday, Jan 29 – 8:00 a.m. to 3:00 p.m.

Complying with ASHRAE/IES Standard 90.1-2010
Saturday, Jan 29 – 8:00 a.m. to 3:00 p.m.

Implementing Energy Management in New and Existing Buildings: A Sustainable Activity
Saturday, Jan 29 – 8:00 a.m. to 3:00 p.m.

Integrated Building Design
Saturday, Jan 29 – 8:00 a.m. to 3:00 p.m.

Energy Modeling Best Practices and Applications: HVAC/Thermal
Tuesday, Feb 1 – 9:00 a.m. - Noon, 2:00 p.m. - 5:00 p.m.

Half Day Short Courses
$159/$119 ASHRAE Member -- Earn 3 PDH/.3 CEU or 3 AIA LU credits

Fundamental Requirements of ASHRAE Standard 62.1-2010
Saturday, Jan 29 – 8:00 a.m. to 11:00 a.m.

Understanding Air-to-Air Energy Recovery Technologies and Applications
Sunday, Jan 30 – 2:00 p.m. to 5:00 p.m.

Using Standard 90.1 to Meet LEED Requirements
Sunday, Jan 30 – 2:00 p.m. to 5:00 p.m.

Determining Energy Savings from Performance Contracting and LEED Projects: M&V
Monday, Jan 31 – 9:00 a.m. to Noon

Understanding & Designing Dedicated Outdoor Air Systems (DOAS)
Tuesday, Feb 1 – 9:00 a.m. to Noon

Successful Solar Applications for Commercial & Industrial Facilities
Tuesday, Feb 1 – 9:00 a.m. to Noon

District Cooling & Heating Systems: Central Plants
Tuesday, Feb 1 – 2:00 p.m. to 5:00 p.m.

Application of Standard 62.1-2010: Multiple Spaces Equations & Spreadsheet Calculation
Saturday, Jan 29 – Noon to 3:00 p.m.

Chilled Beam Technology for Excellent Indoor Climate in an Energy Efficient Manner
Sunday, Jan 30 – 2:00 p.m. to 5:00 p.m.

The Commissioning Process & Guideline 0
Monday, Jan 31 – 9:00 a.m. to Noon

Understanding Standard 189.1-2009 for High-Performance Green Buildings
Monday, Jan 31 – 2:00 p.m. to 5:00 p.m.

Low Temperature Radiant Heating & High Temperature Radiant Cooling Systems
Tuesday, Feb 1 – 9:00 a.m. to Noon

Avoiding IAQ Problems: Using ASHRAE’s New IAQ Guide
Tuesday, Feb 1 – 2:00 p.m. to 5:00 p.m.

Designing Toward Net Zero Energy Commercial Buildings
Tuesday, Feb 1 – 2:00 p.m. to 5:00 p.m.

New Publications from ASHRAE

- ANSI/ASHRAE 55-2010 – Thermal Environmental Conditions for Human Occupancy
- ANSI/ASHRAE 62.1-2010 – Ventilation for Acceptable Indoor Air Quality

Package:
- ANSI/ASHRAE 34-2010 – Designation and Classification of Refrigerants

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Save time and travel expenses.
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ASHRAE Certification Programs
Take advantage of ASHRAE’s special pencil & paper administration of our certification examinations on Wednesday Feb. 2, 2011, in conjunction with the 2011 ASHRAE Winter Conference.
- Building Energy Assessment Professional (BEAP)
- Building Energy Modeling Professional (BEMP)
- Commissioning Process Management Professional (CPMP)
- Healthcare Facility Design Professional (HFDP)
- High-Performance Building Design Professional (HBDP)
- Operations & Performance Management Professional (OPMP)

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certification