

The Oil Capital Air

Newsletter of the Northeastern Oklahoma Chapter of the
American Society of Heating, Refrigerating and
Air-Conditioning Engineers, Inc.

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January 2005

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LUNCH MEETING A BIG HIT

President's Message By: Steve Johnson



Steve Johnson
Chapter
President

I hope everyone enjoyed the December Chapter meeting. Based on the turnout I would rate the "lunch experiment" a resounding success. I certainly appreciate our panelist: Keith Browne, Jim Palmer Sr., Monte Harnar and Lowell Heck. They did a tremendous job in fielding questions

and providing useful information. Audience participation was also encouraging. While we did not solve all the world's problems we were successful in communicating concerns from many varied perspectives. I believe that communication is the cornerstone on which solutions can be built. I also want to express gratitude for the vendors who participated. Seven hundred and fifty dollars was raised towards ASHRAE Research and members and guests had opportunities to see some new products.

Please plan to join us at our January 13th meeting. We will be retuning to our traditional evening time slot for the tech session and dinner program. Bart Powelson with

Emerson Climate Technologies will be presenting "Digital Scroll Compressors" at the tech session. Steve Metcalf with Doener, Saunders, Daniel & Anderson L.L.P., will present "Documents, Management and Discovery" as our main program. Thanks to Nancy Mack and her committee for preparing a diverse series of topics for our membership to enjoy this year.

Please plan to donate items to the February RP Auction. Brian Hamilton will be soliciting donations from members, firms and vendors. Last year's inaugural auction was a huge success. Let's see if we can build on that to even greater heights. Our Chapter has long been a leader in Region VIII and we

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UPCOMING EVENTS

- *Chapter Meeting January 13, 2005 Marriott Southern Hills*
- *5:30 Technical Session Digital Scroll Compressors*
- *6:00 Hospitality*
- *6:30 Dinner and ASHRAE Business*
- *7:00 Evening Program Document Management and Discovery*

CHAPTER MEETING

Thursday, January 13, 2005
Southern Hills Marriott

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want to continue with that success.

It is not too early to plan your trip to the CRC in San Antonio in April 2005. The Crown Plaza on the River Walk will host CRC meetings from April 14 to 16th. Book your rooms early due to the Festival that is going on in downtown San Antonio at that time.

Last but not least I wanted to alert members to an upcoming joint meeting with OKC Chapter to be held at noon on Friday, January 28th in Oklahoma City. Ron Val-lort, ASHRAE Society President will honor Region VIII with his visit. A flyer will be sent out to provide more details. Let's shown OKC and Society the spirit of our Chapter with a solid representation at this meeting.

I look forward to seeing you January 13th at the Marriot Southern Hills.

Steve Johnson can be reached at 270-1414 or johnson.s@mcintoshservices.com

Chapter Technology Transfer

By: Nancy Mack

January Meeting Preview

Happy New Year! We have more exciting speakers for the year 2005 beginning with an interesting and informative line-up for the January 13th meeting. The technical session will begin at 5:30pm and is on "Digital Scroll Compressors." The primary

speaker for the session will be Bart Powelson, Commercial Marketing Manager for Emerson Climate Technologies.

Our main speaker is Mr. Steven K. Metcalf. The title of his presentation is "Document Management and Discovery: How Documents and Emails are Used in Litigation." Mr. Metcalf is a partner in the law firm of Doerner, Saunders, Daniel & Anderson, L.L.P., where he has practiced law since 1991. With concentration in all areas of construction law, litigation, mediation, and arbitration, Mr. Metcalf's practice also includes general commercial and civil litigation and appeals, insurance law, real estate law, and OSHA compliance and litigation. I know that this a topic of great interest to our members, so be sure to arrive early to greet our honored guests and secure a seat for yourself.

December Meeting Review

The December meeting program was an interesting panel discussion on Temporary HVAC During Construction and Remodel Projects. The panel consisted of four members with different points of view. Monte Harnar with Warren Professional Building Corporation represented the owner's view point. Jim Palmer Sr. with Palmer Plumbing represented the mechanical contractors views, Keith Browne with Lee & Browne represented the engineering community and Lowell Heck with Flintco Inc. provided input from the general contractors views. The following points were discussed with lively

input from the audience:

Points of Discussion:

1. Project planning.
2. Document preparation.
3. Bidding process.
4. Assignment of responsibility to protect systems during early stages of construction.
5. Assignment of responsibility to commission systems for use during construction.
6. Roles of Owner representatives during temporary system operation.
7. Responsibility for inspection and final acceptance.
8. Warranty implications and risks.
9. IAQ Certification prior to occupancy.

Nancy Mack can be reached at 491-6600 or nmack@tulsacoxmail.com

History

By: Mike Thompson

When it's hot we want it cold. When it's cold we want it hot.

Since there was no mechanical refrigeration before the 19th century, any attempts to artificially cool the air would have used ice, snow, cold water or evaporative cooling. Natural ventilation through operable windows was the only means of ventilating buildings prior to the development of the electric power industry in the late 19th century. Refrigeration was provided by ice from frozen ponds and rivers in the more northern climates. This ice was

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harvested and stored in winter and then sold during warmer weather. Ice trade became a major industry in the United States; ice was shipped to every major seaport in South America, the Far East, China, the Philippines, India and Australia. Then the expansion of air conditioning in the 1930's made natural ventilation obsolete.

Possibly the most famous of early cooling systems was the one that used ice to relieve the sufferings of U.S. President James Garfield who lay dying from an assassin's bullet in the summer of 1881. The system was described in a pamphlet "Reports of officers of the Navy on ventilating and cooling the executive mansion during the illness of President Garfield," published in 1882. It seems that the Naval engineers passed air through dozens of thin cotton screens onto which dripped the cold melted ice from a salt-ice mixture contained in a tank above. The cooled air was ducted into president's bedroom, resulting in as much as a 20°F temperature drop.

In 1901 a high school auditorium in Scranton Penn was cooled for the June graduation. Comfort for as many as 1,400 persons was maintained by circulating 3 million cubic feet of air per hour over blocks of ice. The air was discharged high up on the walls, exiting through aisle registers. It only took about 6-1/2 tons of ice for sensible cooling on a typical night to maintain about a 15°F temperature difference between the outside air temperature and inside air temperature.

By 1929, refrigerator maker Frigidaire created a small, expensive "room cooler" that could be installed in homes or small stores. This led to the window box unit, air

conditioners in cars and later, the rise of new house designs. Widespread adoption of so-called "comfort cooling", however, slowed until after the Great Depression and Second World War.

Anyone can drive through their city, town or countryside and see the impact of air conditioning on the home over the years. Houses built prior to the 1950's often were constructed to take advantage of natural cooling as much as possible. Architectural features such as shaded porches, high ceilings and the liberal use of windows with moveable sashes were used to make occupancy as comfortable as possible during warm weather. As a result of air conditioning, the growth of the suburbs after World War II was dominated by single-story houses with low-pitched roof lines, large plate glass windows that were sealed shut, ceilings that were 8 ft high and porches that were more ornamental than functional.

Before air conditioning, cotton threads snapped, cigarette machines jammed, film attracted dust and chocolate went gray with fluctuating heat and humidity. Cool and dry air, the captains of industry learned, could also make factory workers more comfortable, more productive and less prone to call in sick. Most people take for granted the heating and cooling of our homes, businesses and even our cars, until they quit working. Only then do we realize how important these comforts are to us and our society.

Mike Thompson can be reached at 270-1414 or thompson.m@mcintoshservices.com

Membership Promotion

By: Michael Base

It is the time of year again to concentrate on reducing our Chapter's delinquent list, so if you know you are delinquent, please send in your payment as quickly as possible. If you are delinquent, someone will be contacting you soon. If you are not sure if you are delinquent, please contact me at my office.

Please welcome the following new members to our chapter: Wayne Arnold with Anvil International, and Justyn Jeske with MPW Engineering.

Michael Base can be reached at 836-0271 or lbce@swbell.net

Student Activities

By: Scott Pollard

The academic year is half over. Make sure you encourage all students to finish out the year strong. National Engineering Week is February 20-26 this year. The 2005 Student Competition project is now available online from the student zone of www.ashrae.org. The deadline for submissions to our local chapter is May 9th.

We still have been unable to locate a facility member at OSU-Tulsa that would be interested in helping establish a student chapter. If you have any contacts that you believe might be useful, please let me know.

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

Resource Promotion

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By: Brian Hamilton

Happy New Year!! Resource Promotion is going strong. YTD we have collected \$6,750.00 – Total amount pledged from hole sponsorships was \$8,700.00. So if you have not paid yet, be expecting a call from me or one of the committee members. CRC is earlier than ever this year and our goal is an all-time high of \$41,673.00.

February's meeting is our second annual auction. We are in need of items to auction off. If you contributed last year, please do so again. I know we all had a wonderful time last year and we could have not done it without everyone who contributed. If you have items for the auction, please send me an email with a description of the item and how much it is worth.

Brian Hamilton can be reached at (918) 664-9756 or bhamilton@2boonesales.com

Directory

By: Bill Hanlon

Now that the Christmas and New Years parties are behind us it's time to get back to business. One more item to add to your list of resolutions is updating the information in the directory. You now have the ability to edit your own listing in the Member section. If your current e-mail address is listed, all you have to do is click the "send password" button at the bottom of your listing. If the e-mail address is incorrect, contact me by e-mail, phone or fax and I will supply your password. When you edit your listing, you also can change your pass-

word at that time.

Those of you responsible for company listings should take a minute to review the information posted in the "Manufacturer's Representative", "Contractors", "Engineers" or "Utilities" category. Up-to-date product and employee information is the key to maximizing the benefit for our members and the HVACR industry.

Bill Hanlon can be reached at 622-1500 or wutzpneu@aol.com

Refrigeration

By: Chuck Mayfield

The refrigeration committee is planning for the spring tour. We are open to suggestions from all ASHRAE Members for a place to tour. The search continues for candidates to compete for

the Milton W. Garland Refrigeration Award. Please send any suggestions to Chuck Mayfield at EEI."

Chuck Mayfield can be reached at 624-1005 or Cmayfield@eei-ok.com

December BOG Minutes

By: Dave Lam

Attendees: Steve Johnson, David Lam, Nancy Mack, Bill Hanlon, Paul Mannas, Paul Roberts, Pam Dunlap, Bob Allwein, Mike Beda, Steve Uerling, Scott Polard, Dan Owens and Jack Tumilty.

The Board of Governors meeting was held on December 16, 2004 at Powers of Oklahoma. President Steve Johnson called the meeting to order at 4:41 p.m.



Memories of warmer times, golf outing 2004

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Minutes: The meeting minutes were distributed prior to the BOG meeting. Corrections were collected and will be used to amend the meeting minutes. Paul Roberts moved to accept the amended meeting minutes and Bill Hanlon seconded.

Treasurer: Pam Dunlap reported that Merrill Lynch will institute a \$65 annual fee and that IBC has dropped their \$10 monthly service fee. Pam is going to look into different options for Merrill Lynch account with hopes of finding something that will show a better return.

Newsletter: Joel Karstetter would like articles turned in by December 30, 2004.

Resource Promotion: Nancy Mack reported for Brian Hamilton and reported that we received \$750 for the vendor displays at the December chapter meeting. We will hold new displays to \$100 to make it more feasible for potential reps.

CTT: Nancy Mack reported that Steve Metcalf will be our January speaker. The topic will be documentation discovery in litigation. Nancy will put together a flyer to help improve attendance. AAON will have someone there for the tech session on modulating compressors.

Student Activities: Scott Pollard has had very poor feedback from OSU-Tulsa and may abort his attempts to get a chapter started there. TU continues to rotate their leadership and Scott has e-mailed the professor who is currently

heading up their chapter. OSU-Okmulgee has 5 members and they continue to hold informal meetings.

Directory: Bill Hanlon reported that the new format for vendors and members to update their information is available. Contact Bill to get a password. Drop down menus will allow you to travel easily on the site.

Reception: The badges have been passed on to Darren Stephens.

Publicity: Mike Gulizio continues to provide information to the Tulsa World when appropriate.

Website: Paul Mannas asked if we could purchase a version of Microsoft 2003 to be able to update our website front page. Our new host does not support Microsoft 2000, which is what Paul is running. The Board of Governors approved this purchase.

CRC Action: Bob Allwein distributed out up to date PAOE point totals. We look to be in good shape.

Nominating Committee: Paul Roberts reported that they would have a committee meeting in January and they will proceed from there.

New Business: Steve Johnson reported that we will need to have some representatives in Oklahoma City for their chapter meeting on January 28, 2005. Ron Vallort, the society president will be in attendance and asked that we send some representatives to the meeting.

Meeting was adjourned @ 5:49 P.M.

ASHRAE News

HVAC System Blamed for Missing SpongeBob

NORWICH, Conn.—The case of a missing giant inflatable SpongeBob Square Pants, affixed to the roof of a Burger King restaurant in Norwich, Conn., was not the result of thieves, but rather the HVAC system. The Norwich police department declared the case of the missing SpongeBob, originally considered a larceny, solved after learning that a restaurant maintenance crew discarded a deflated SpongeBob after it melted into the rooftop heating system air ducts. Burger Kings in 14 states have reported thefts of their SpongeBob icons, placed to jointly promote the fast-food chain and a movie starring the animated children's character.

Seminar to Discuss Terrorist Attacks' Impact on Building Management

ATLANTA—The effects of the Sept. 11, 2001, terrorist attacks on building operations will be discussed at a seminar at the ASHRAE Winter Meeting in Orlando, Fla. The seminar, "ASHRAE Guidance on Building Health and Safety under Extraordinary Incidents: Lessons Learned," will be held from 8–10 a.m. on Sunday, Feb. 6. One focus will be building systems that serve more than one function.



Producing Dazzling Events Is Our Bright Spot!

ASHRAE Region VIII

Dinner – February 7, 2005
Monday Night
6:00 PM to 8:30 PM



Please RSVP to
Art Giesler
Assistant Regional Chair
palatusa@aol.com
(817) 589-9372
Fax (817) 284-1531

Reservations are required

Planet Hollywood is within
Walking distance of the
ASHRAE Headquarters
Hotel and is in Downtown
Disney allowing for an
Enjoyable stroll after
Dinner.

Choice of Caesar Salad or House Salad

Entrée Choice of:

Roasted Half Chicken

Lemon pepper and rosemary glazed roasted half chicken
served with mashed potatoes
And sautéed green beans

New York Strip

USDA Choice center-cut 12 oz. Strip steak chargrilled
medium served with a baked potato
And seasonal vegetables

L.A. Lasagna

Fresh pasta tubes filled with ricotta cheese and
bolognese meat sauce fried to a golden brown
And covered with garlic cream and tomato basil sauce

Grilled Salmon

Grilled 8 oz. Salmon filet glazed with maple butter
served with mashed potatoes
And sautéed green beans

Dessert:

Chef's Selection of Dessert

Beverages:

Unlimited Soft Drinks, Coffee and Iced Tea

Price: \$40.00 per person



FEBURARY 2005: 2nd ANNUAL NEOK AUCTION

It is time to start gathering items for the auction. Items needed are tickets to sporting events, golf outings, sporting goods, hotel give-aways, jewelry, Spa give-aways, baking goods (we know who will be supplying the pies and cookie's), and any other items that might bring a positive bid.

Please send me e-mails as you collect items: Bhamilton@2boonesales.com

Identifying the item

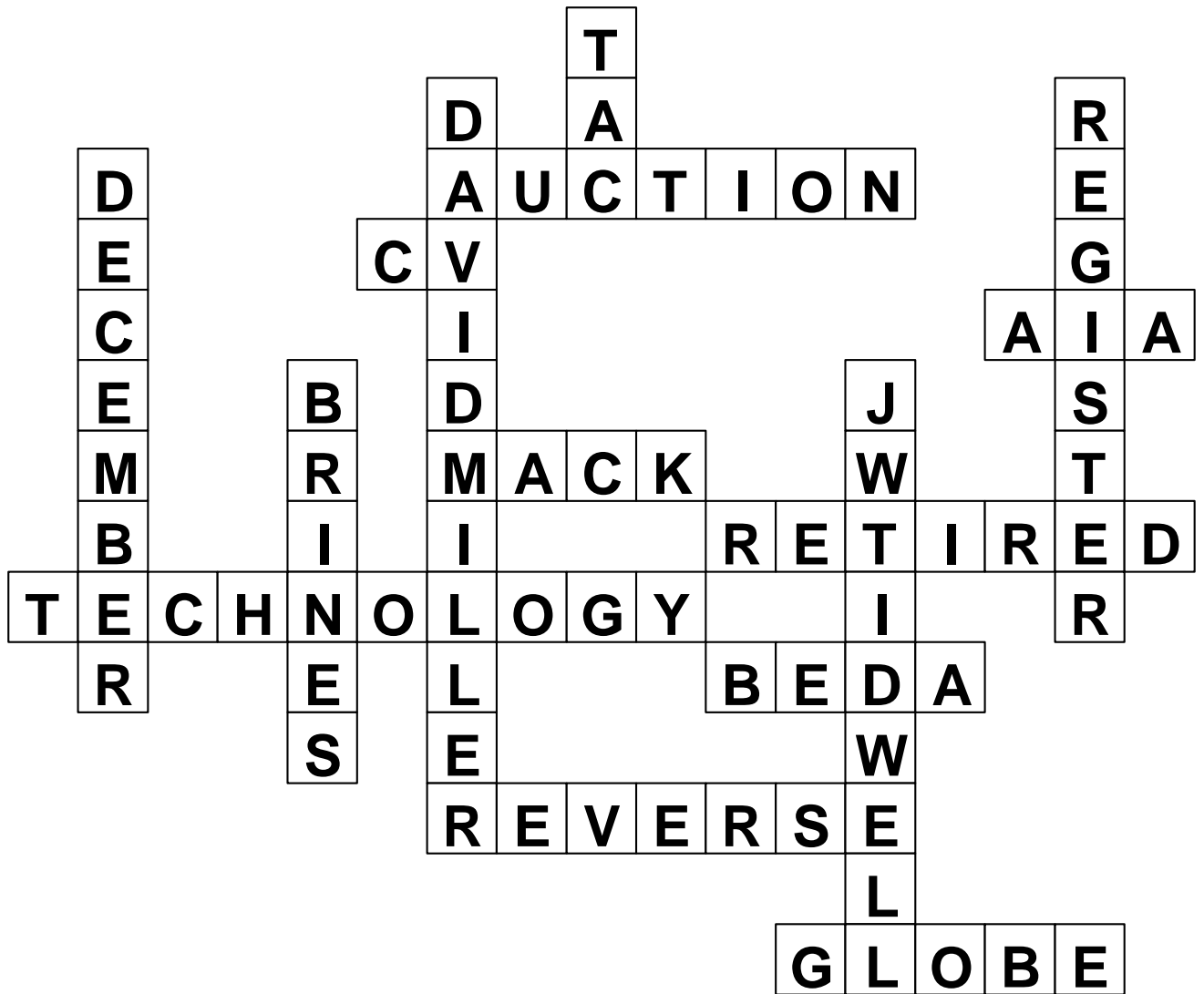
How much item is worth.

Every one who pitched in items last year, thank you. You did an outstanding job. To everyone who is going to pitch in this year thank you in advance!

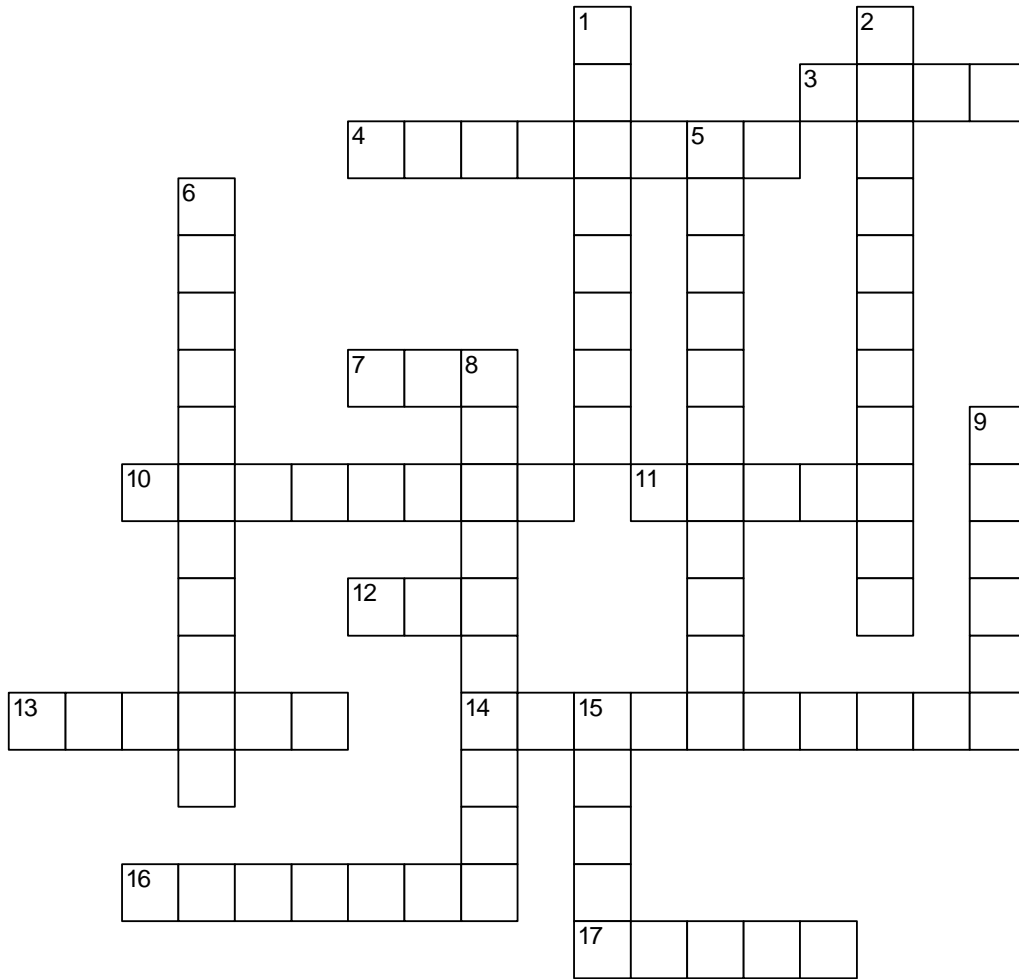
Last year was our first year to hold an auction and I think everyone who was there would agree a fun time was had by all. Don't miss out on this year's auction, or you may miss out on a GOOD DEAL.



DEC PUZZLE SOLUTION



OIL CAPITAL AIR PUZZLE



www.CrosswordWeaver.com

Across

- 3 Satellite broadcast topic
- 4 Water vapor concentration in the air is the _____ ratio.
- 7 Location of joint ASHRAE meeting Jan 28
- 10 The temp of saturated vapor is called (2 words)
- 11 Stem, bonnet, packing are parts of a _____
- 12 Used for cooling before the 1900's
- 13 1st law of thermo, Conservation of _____
- 14 Types of boiler regime
- 16 Feb meeting topic
- 17 Main program topic

Down

- 1 New year's resolution. _____ the directory
- 2 Performance of a refrigeration cycle is described as _____ of performance.
- 5 Boilers are fitted with _____ to improve heat transfer.
- 6 Tech session topic
- 8 Forced, free and natural are types of _____
- 9 New member from MPW Engineering
- 15 New member Wayne Arnold works for _____

NEW MEMBER GALLERY



Monte Harnar
Warren



Greg Mitchell
Ferguson Enterprises



Mike Guillen
Process Equipment

Additional new members, pictures to follow next month

- David Miller with Mechanical Reps., Inc.
- Eric Gonzalez with TAC
- Wayne Arnold with Anvil International
- Justyn Jeske with MPW Engineering



ASHRAE... Advancing Technology for a Better Environment

SATELLITE BROADCAST/WEBCAST: MOLD IN OUR BUILDING ENVIRONMENT

Wednesday, April 13, 2005

1:00 p.m. – 4:00 p.m. Eastern Standard Time

Concerns about mold in the building environment are no longer limited to just humid environments or North America. Mold is now a global concern for designers, contractors, building owners/operators and building occupants. Information on how to properly control moisture and humidity conditions in order to minimize mold will be presented in this broadcast/web cast sponsored by ASHRAE's Chapter Technology Transfer Committee (CTTC).

How to Participate

- Attend the Broadcast provided by NEO ASHRAE Chapter (location to be determined)
- You may host a Satellite Broadcast site for your colleagues
- You may register to view the Broadcast at a site
- Or, you may register to view the Web cast on your PC

About the Presenters

Presenters will explore prevention of mold in new construction, methods for monitoring mold in indoor environments, detection of biological contaminants, solutions to prevent and/or alleviate mold problems and the legal issues relating to mold contamination.

PDH Credits

Earn 2 PDHs or 2 AIA Learning Units for viewing the Broadcast at a Site or the Web cast from your office.

For More Information

Call Nancy Mack at 491-6600

2004/2005 Programs

Date	Technical Session	Speaker	Main Program	Speaker	Theme and Special Guests
9-Sep-04	Golf Tournament at Clary Fields Golf Course				
14-Oct-04	Applications of radiant heat in commercial and industrial applications	Scott Fleet; ReverberRay	Ethics and the Economics of Energy Conservation	William Coad, P.E. Coad Engineering Enterprises	Membership Night; Hugh McMillan, Region VIII DRC
11-Nov-04	Fan Applications	Jack Peters; Cook Fans	Proper VFD Applications	Brent Fullerton; Cook Fans	Research Promotion Night
9-Dec-04	NONE - Lunch Meeting		Construction HVAC Panel Discussion	Panel of Industry Representatives	Joint meeting with BOMA, MCA, ABC
13-Jan-05	Digital Scroll Compressors	Bart Powelson; Emerson Climate Technologies	Documents Management and Discovery	Steve Metcalf; Doener, Saunders, Daniel & Anderson L.L.P.	Refrigeration Night
28-Jan-05	NONE		Special Presidential Visit, in OKC	Ron Vallort, ASHRAE Society President	
10-Feb-05	Research Auction		YTBD		Research and Spouses Night
10-Mar-05	Dehumidification	Dave Knebel; AAON	Student Presentations	College Students	Student Activities; Past Presidents;
7-Apr-05	NONE		Plant Tour (Bama or Blue Bell?)		Tour
12-May-05	Radiant Heating	Missouri Heat Representative	Surgical Air Distribution	Leon Kloostra; Titus	Healthcare Facilities

