



ASHRAE ACTION

ROANOKE CHAPTER NEWSLETTER

(WWW.ASHRAEROANOKE.ORG)

MARCH 2009

MARCH MEETING

**PLEASE JOIN US FOR A GREAT MEETING AT THE
HOTEL ROANOKE!**

Tuesday, March 10th at LUNCH
Hotel Roanoke
110 Shenandoah Ave Roanoke VA 24016

SPEAKER:

GERRY LACOUZZE,
McGill Air Flow, LLC

TOPIC:

**SOUND CONTROL
&
DUCT DESIGN**

AGENDA:

Doors open at 11:45
LUNCH: 12:00 pm (Lunch is \$20)
BUSINESS MEETING AND PROGRAM TO FOLLOW

**RESERVATIONS MUST BE MADE BEFORE NOON
on March 5th TO Patrick Murdock:**

E-mail: pmurdock@trane.com

Phone: 540-563-2828

*Tip: Make your reservation online at our Web Site,
see link below:*

<http://ashraeroanoke.org/Meetings/registration-form1.htm>

A MESSAGE FROM THE PRESIDENT ELECT

Hello again everyone,

This month we are happy to have Gerry Lacouzze joining us for our monthly meeting. Gerry will be talking about proper duct design to minimize sound in a building. Gerry has many years of experience in the HVAC industry and should have a very informative presentation.

The annual Lew Evans golf tournament is quickly approaching. We'll be holding the golf tournament at Hanging Rock Golf Course as usual. Attached to the newsletter email is an information sheet and sign up sheet. Please get your sign up sheet back to me as soon as possible so that we can plan ahead and be prepared for another great tournament. We are in need of volunteers, sponsors, and door prize donations to make it as successful as it has been in past years. If you are interested in helping out in any way, please contact me. We'll be having the tournament earlier in the year again this year to beat the heat and hopefully avoid vacationing families.

I am looking for new officers and committee chairs for next year for the Roanoke chapter of ASHRAE. We've had a couple members move out of the area or pursue other engineering fields, and we'll have several positions available. If you or anyone you know would be interested in getting more involved, please contact me. You can spend as much or as little time as you can afford to contribute, and it's always appreciated by our chapter members.

Thank you

-Jeff Consroe

MARK YOUR CALENDERS:



April Meeting --- April 14th for DINNER
Topic: Electronic Air Cleaners

May Meeting --- May 19th for LUNCH
Topic: AC Drives and LEED

**11th Annual Lew Evans Scholarship Golf
Tournament --- Friday May 22nd**

BOARD OF GOVERNORS MEETING
TUESDAY, MARCH 17TH, LOCATION TBD

The 11th Annual Lew Evans Scholarship Golf Tournament & Bar-B-Que is Coming!

The tournament will be held on FRIDAY, MAY 22nd this year. As always volunteers, sponsors, and door prize donations will be needed to make this a continued success.

This event makes possible the scholarships that not only allows us to give back to the community as a chapter, but also lets others know that ASHRAE exists.

Please contact Jeff Consroe if you are willing to help in any way. His contact information may be found in the list of Officers and Governors on page 4.

SPOTLIGHT ON ... THIS MONTH'S SPEAKER

GERARD L. IACOUZZE, IS THE TECHNICAL SERVICE ENGINEER FOR MCGILL AIRFLOW LLC IN BOWIE, MARYLAND. HE PROVIDES APPLICATION ENGINEERING SERVICES TO ENGINEERS, CONTRACTORS, BUILDING OWNERS, SPECIFICATIONS WRITERS, AND GOVERNMENT ENGINEERS. DURING HIS 20 YEAR CAREER WITH MCGILL AIRFLOW, HE HAS BEEN RESPONSIBLE FOR SALES, TRAINING, APPLICATION ENGINEERING AND LIAISON SERVICES.

GERARD'S EXPERIENCE IN THE DUCT AND HVAC EQUIPMENT FIELD SPANS 38 YEARS WITH POSITIONS AS THE ASSOCIATE TECHNICAL DIRECTOR OF SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION (SMACNA)/ NATIONAL ENVIRONMENTAL BALANCING BUREAU (NEBB) AND GAS APPLIANCE MANUFACTURERS ASSOCIATION (GAMA). EARLY IN HIS CAREER, HE DESIGNED HVAC SYSTEMS AS A DESIGN ENGINEER. HE SERVED ON THE ASHRAE DUCT DESIGN COMMITTEE TC 5.2, AND CENTRAL FORCED AIR HEATING AND COOLING SYSTEMS COMMITTEE TC 6.3. ADDITIONALLY, HE SERVED ON THE ASHRAE STANDARDS COMMITTEE AND THE STANDARDS PROJECT COMMITTEE WHICH DEVELOPED TEST STANDARDS FOR FURNACES AND BOILERS.

GERARD HAS AUTHORED AND CO-AUTHORED 12 MANUALS, STANDARDS AND DUCT CONSTRUCTION DOCUMENTS. HE HOLDS A DEGREE IN MECHANICAL ENGINEERING FROM WEST VIRGINIA UNIVERSITY; STUDIED COMPUTER APPLICATIONS AND HVAC EQUIPMENT. MR. IACOUZZE IS A MEMBER OF ASHRAE AND THE NATIONAL CAPITOL CHAPTER OF WASHINGTON, DC.



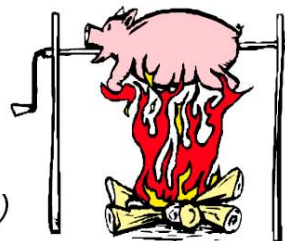
Friday, May 22, 2009
Hanging Rock Golf Course
Captain's Choice
Shotgun Start at 1:00pm

\$400.00 per team

(Includes 4 tickets for the Bar-B-Que immediately after the Tournament)

**Register
TODAY!!**

The Traditional
Bar-B-Que
5:30pm to 8:00pm!!
Tickets \$15.00
(Children under 12 FREE!!)



FREE Range Balls!

Please submit registration form for both the Golf Tournament & Bar-B-Que.
For additional information, registration form or questions, please contact
Jeff Consroe at jeff@breeden-collier.com or at (540) 797-7899.

ASHRAE NEWS!

ASHRAE PUBLISHES LOAD CALCULATIONS MANUAL

ATLANTA – GUIDANCE TO HELP DESIGNERS IMPROVE THE PERFORMANCE AND EFFICIENCY OF DESIGN AS IT RELATES TO LOAD CALCULATIONS IS CONTAINED IN A NEW BOOK FROM ASHRAE.

LOAD CALCULATION APPLICATIONS MANUAL FOCUSES ON TWO METHODS FOR CALCULATING COOLING LOADS IN NON-RESIDENTIAL BUILDINGS – THE HEAT BALANCE METHOD AND THE RADIANT TIME SERIES METHOD (RTSM).

AUTHOR JEFFREY SPITLER NOTED THAT UNDERSTANDING THESE METHODS IS CRUCIAL WHEN ANSWERING THREE PRIMARY DESIGN QUESTIONS – WHAT IS THE REQUIRED EQUIPMENT SIZE; HOW DO THE HEATING/COOLING REQUIREMENTS VARY SPATIALLY WITHIN THE BUILDING; AND WHAT ARE THE RELATIVE SIZES OF THE VARIOUS CONTRIBUTORS TO THE HEATING/COOLING LOAD?

“COOLING LOAD CALCULATIONS ARE PERFORMED PRIMARILY TO ANSWER THE FIRST AND SECOND QUESTIONS, PROVIDING A BASIS FOR SPECIFYING THE REQUIRED AIRFLOW TO INDIVIDUAL SPACES WITHIN THE BUILDING,” SPITLER SAID. “ANSWERS TO THE THIRD QUESTION HELP DESIGNERS MAKE CHOICES TO IMPROVE THE PERFORMANCE OR EFFICIENCY OF THE DESIGN.”

THE NEW MANUAL FEATURES IN-DEPTH EXAMPLES, AS WELL AS BRINGING TOGETHER THE LATEST DATA FOR BUILDING MATERIALS, WINDOWS, WEATHER AND INTERNAL HEAT GAINS, ACCORDING TO SPITLER. THE ACCOMPANYING CD CONTAINS SPREADSHEETS THAT COMPUTE THE FACTORS NEEDED BY THE RSTM AND COMPUTE COOLING LOADS WITH THE RSTM.

THE MANUAL IS THE FOURTH IN A SERIES OF LOAD CALCULATION MANUALS PUBLISHED BY ASHRAE, INCLUDING THE FIRST AND SECOND EDITIONS OF *COOLING AND HEATING LOAD CALCULATION MANUAL* AS WELL AS *COOLING AND HEATING LOAD CALCULATION PRINCIPLES*.

THE COST OF THE *LOAD CALCULATIONS APPLICATIONS MANUAL* IS \$119 (\$97, ASHRAE MEMBERS). TO ORDER, CONTACT ASHRAE CUSTOMER SERVICE AT 1-800-527-4723 (UNITED STATES AND CANADA) OR 404-636-8400 (WORLDWIDE), FAX 404-321-5478, OR VISIT AT WWW.ASHRAE.ORG/BOOKSTORE.

CLEAN, LEAN AND GREEN SATELLITE BROADCAST

ON WEDNESDAY, APRIL 22, 2009, ASHRAE'S CHAPTER TECHNOLOGY TRANSFER COMMITTEE (CTTC) WILL PRESENT A SATELLITE BROADCAST AND SIMULTANEOUS WEBCAST “CLEAN, LEAN AND GREEN – IAQ FOR SUSTAINABLE BUILDINGS.”

ONLINE REGISTRATION FOR SITE COORDINATORS AND WEBCAST VIEWERS BEGINS MARCH 2ND AT WWW.ASHRAE.ORG/IAQBROADCAST. REGISTRATION FOR SATELLITE VIEWERS BEGINS MARCH 16TH. INFORMATION ABOUT THE PROGRAM AND SPEAKERS IS AVAILABLE AT WWW.ASHRAE.ORG/IAQBROADCAST.

THREE (3) PDH CREDITS MAY BE GRANTED TO THOSE WHO VIEW THE PROGRAM AND THEN COMPLETE THE PARTICIPANT REACTION FORM ONLINE BY **APRIL 30, 2009**.

AN ELECTRONIC FLYER FOR DOWNLOAD IS AVAILABLE AT [HTTP://WWW.ASHRAE.ORG/DOCLIB/20090204_IAQFLYER.PDF](http://WWW.ASHRAE.ORG/DOCLIB/20090204_IAQFLYER.PDF) TO ASSIST WITH PROMOTION OF THE BROADCAST PROGRAM. PLEASE WATCH FOR UPDATES VIA *ASHRAE INSIGHTS* AND WWW.ASHRAE.ORG.

IF YOU HAVE QUESTIONS, CALL (678) 539-1206 OR EMAIL ASHRAE-SATELLITEBROADCAST@ASHRAE.ORG

ASHRAE '09: ENGINEERING TOMORROW... TODAY

ATLANTA – ASHRAE IS MOVING RIGHT ALONG IN ENGINEERING TOMORROW TODAY THROUGH A PROPOSED BUILDING ENERGY LABELING PROGRAM AND A PROPOSED HIGH-PERFORMANCE BUILDING STANDARD, ACCORDING TO LEADERS AT THE SOCIETY'S 2009 WINTER CONFERENCE.

MORE THAN 2,800 PEOPLE ATTENDED THE CONFERENCE, HELD JAN. 24-28, CHICAGO. ALSO TAKING PLACE IN CONJUNCTION WITH THE MEETING WAS THE AIR-CONDITIONING, HEATING, REFRIGERATING EXPOSITION, WHICH ATTRACTED 54,000 REGISTERED VISITORS AND EXHIBITOR PERSONNEL. THE SHOW RANKS AS THE SECOND LARGEST AHR EXPO, JUST BEHIND THE 2006 SHOW IN CHICAGO, IN TERMS OF NUMBER OF EXHIBITING COMPANIES (1,911).

CENTERED ON THE THEME SUSTAINABLE URBAN DESIGN: ENGINEERING TOMORROW...TODAY, THE ASHRAE CONFERENCE OFFERED A TECHNICAL PROGRAM WITH MORE THAN 100 SESSIONS, 15 EDUCATIONAL COURSES AND SOCIAL EVENTS. THE MEETING ALSO FEATURED MORE THAN 600 MEETINGS OF TECHNICAL, STANDARDS AND STANDING COMMITTEES, DEVELOPING GUIDANCE FOR THE FUTURE OF THE INDUSTRY AND ASHRAE.

"THROUGH ACTIVITIES SUCH AS BUILDING ENERGY LABELING, THE ADVANCED ENERGY DESIGN GUIDE SERIES AND OUR NET-ZERO-ENERGY CONFERENCE, ASHRAE MEMBERS REALLY ARE ENGINEERING TOMORROW...TODAY," ASHRAE PRESIDENT BILL HARRISON SAID. "CHICAGO AND ITS SUSTAINABLE SKYLINE OFFERED A GREAT OPPORTUNITY TO WITNESS APPLICATION OF THE TECHNOLOGY SHARED AT ASHRAE'S TECHNICAL PROGRAM, EDUCATIONAL SESSIONS AND COMMITTEE MEETINGS."

A MAJOR ANNOUNCEMENT WAS ASHRAE'S PROPOSED BUILDING ENERGY LABELING PROGRAM, WHICH THE SOCIETY EXPECTS TO LAUNCH AT THE 2009 ANNUAL CONFERENCE IN LOUISVILLE, KY. UNIFORM METRICS ARE VITAL TO MAKING BUILDINGS MORE ENERGY EFFICIENT, ACCORDING TO RON JARNAGIN, CHAIR OF THE COMMITTEE OVERSEEING THE PROGRAM, WHO UPDATED ATTENDEES.

THE ASHRAE PROGRAM WILL INCLUDE A METHOD FOR RATING THE ENERGY PERFORMANCE OF BUILDINGS COVERED BY STANDARD 90.1; QUALIFICATION CRITERIA FOR RATERS AND ASSESSORS; PROVISION OF BOTH ASSET AND OPERATIONAL RATINGS TO COVER BOTH DESIGN AND OPERATIONS; AND A PROCESS FOR APPROVING ALTERNATIVE METHODS. FOR MORE INFORMATION ON THE PROPOSAL, VISIT WWW.ASHRAE.ORG/ENERGYLABELING.

IN ADDITION, THE NEWLY EXPANDED COMMITTEE RESPONSIBLE FOR STANDARD 189.1P, *DESIGN OF HIGH-PERFORMANCE GREEN BUILDINGS EXCEPT LOW-RISE RESIDENTIAL BUILDINGS*, HELD ITS FIRST MEETING IN CHICAGO. THE COMMITTEE APPROVED AN AGGRESSIVE WORK PLAN WITH A GOAL TO RELEASE A PUBLIC REVIEW DRAFT THIS SPRING. THE COMMITTEE HAS BEEN EXPANDED TO 39 MEMBERS AFTER A RECENT CALL FOR MEMBERS TO BROADEN THE VARIETY OF INDUSTRIES, DESIGNERS AND CODE OFFICIALS PARTICIPATING.

IT ALSO WAS ANNOUNCED THAT MORE THAN 154,000 COPIES OF THE FOUR *ADVANCED ENERGY DESIGN GUIDES* ARE IN CIRCULATION IN 180 COUNTRIES. THESE GUIDES SHOW HOW TO REDUCE THE ENERGY CONSUMPTION OF BUILDINGS 30 PERCENT BEYOND STANDARD 90.1.

"THERE IS AN ELEPHANT IN THE ROOM BUT IT SEEMS THAT HARDLY ANYONE KNOWS IT'S THERE," HE SAID. "THOSE IN THE BUILDING INDUSTRY SEE AND RECOGNIZE IT FOR THE MONSTROSITY IT IS, BUT MOST PEOPLE DON'T KNOW THAT THEY'RE ESSENTIALLY AVOIDING A HUGE ENERGY ISSUE. EVERYWHERE YOU LOOK, THERE'S TALK OF INCREASED FUEL EFFICIENCY FOR VEHICLES, ALTERNATIVE FUELS AND COMPACT FLUORESCENT LIGHT BULBS. THESE ARE ADMIRABLE EFFORTS, AND I WOULD NEVER WANT TO DETRACT FROM THOSE. BUT THE ELEPHANT IN THE CORNER – OUR WORLD'S EXISTING BUILDING STOCK – CONSTITUTES ROUGHLY 30 TO 40 PERCENT OF OUR PRIMARY ENERGY USE, EASILY LARGER THAN EITHER TRANSPORTATION OR INDUSTRY. IT'S TIME WE ALL STARTED FOCUSING ON IT. "

MEETING HIGHLIGHTS INCLUDE THE TECHNICAL PROGRAM, WITH ITS THEME OF *SUSTAINABLE URBAN DESIGN*, FEATURING MORE THAN 105 SESSIONS. THE MOST WELL-ATTENDED SESSIONS DEALT WITH STANDARD 189.1P, CO₂ SENSORS AND DEMAND-CONTROLLED VENTILATION, BUILDING ENERGY LABELING, INNOVATIONS IN MECHANICAL SYSTEMS FOR HIGH-RISE BUILDINGS, COMMERCIAL BUILDING RE-TUNING, LESSONS LEARNED FROM SOLAR TECHNOLOGIES IN RECENT TIMES, AIR FILTRATION FOR SUSTAINABLE BUILDINGS, VARIABLE SPEED PUMP APPLICATIONS FOR ENERGY SAVINGS, AND BUILDING INFORMATION MODELING AND PERFORMANCE ANALYSIS.

ENGINEERING UNPLUGGED

green building/manufacturing/research



What is Engineering Unplugged?

Presented by the Professional Development Center of Old Dominion University, Engineering Unplugged is the premier green event and the first green conference of its kind in Hampton Roads, providing a unique opportunity to expand your understanding of Green Building, Green Manufacturing and Green Research.

Through a comprehensive curriculum designed to enlighten newcomers and engage those with an advanced understanding of green principles, Engineering Unplugged will provide you with what you need to:

- Prepare yourself for changes in building practices with cutting edge experts from LEED, ASHRAE, solar technologies, and more.
- Identify areas where unknown energy loss and consumption waste your money.
- Increase your understanding of applications for future green technologies.
- Elevate your expertise with tours, demonstrations, case studies and networking.

What Others are Saying About Engineering Unplugged

Stephen Walz, Director of the Virginia Department of Mines, Minerals and Energy, states, "This conference is in direct alignment with Governor Kaine's yearlong initiative, Renew Virginia. We applaud the leadership of the PDC in organizing this important day and the generosity of its many sponsors in making it possible. The Commonwealth is determined to remain among our nation's top sustainable energy states and home to legions of forward-thinking individuals and enterprises that believe in the power of going green."

FOR MORE INFORMATION, PLEASE GO TO: [HTTP://WWW.ENGINEERINGUNPLUGGED.COM/](http://www.engineeringunplugged.com/)

ELECTRONIC NEWSLETTER

Any member with material to submit for inclusion in the monthly newsletter may send the information to:

Jeff Consroe
11 Dalewood Ave.
Salem, VA 24153

E-mail: jeff@breeden-collier.com
Phone: 540.797.7899
Fax: 540.526.9460

This is your newsletter. We welcome your contributions and commentary.

Material can include letters to the editor, member news, upcoming events, comments on chapter programs or issues, etc.

ATTENTION MEMBERS:

INTERESTED IN SAVING MONEY?

STAR CARDS ARE AVAILABLE FOR PURCHASE. PAY NOW AND **SAVE** LATER!

\$50.00 STAR CARD – ADMISSION TO ANY THREE MEETINGS

\$100.00 STAR CARD – ADMISSION TO ANY SIX MEETINGS

WANT TO SAVE EVEN MORE MONEY?

IN SUPPORT OF THE SOCIETY GAME (GREENING ASHRAE MEETINGS AND EXPOSITIONS) PLAN, THE ROANOKE CHAPTER WILL OFFER DISCOUNTS ON MEMBERS WHO CARPOOL OR USE ALTERNATIVE TRANSPORTATION TO ATTEND MEETINGS.

\$2.00 DISCOUNT FOR DRIVING A CARPOOL.

\$1.00 DISCOUNT FOR ANY OF THE FOLLOWING:

- RIDING IN A CARPOOL
- WALKING
- BIKING
- RIDE PUBLIC TRANSPORTATION
- DRIVE HYBRID VEHICLES
- DRIVE ALTERNATIVE FUELED VEHICLES

BE SURE TO LET **JUSTIN BILLER** KNOW IF YOU QUALIFY FOR THE MEETING DISCOUNT WHEN YOU PAY FOR THE MEETING.

ROANOKE CHAPTER ASHRAE

2008– 2009 OFFICERS AND GOVERNORS

		<i><u>Phone:</u></i>	<i><u>Email:</u></i>
President	Dan Lieber	540-857-3100	Daniel.Lieber@aecom.com
Pres. Elect	Jeff Consroe	540-797-7899	jeff@breeden-collier.com
Vice Pres.	Patrick Murdock	540-563-2828	pmurdock@trane.com
Secretary	Kyle Longbrake	540-857-3100	Kyle.Longbrake@aecom.com
Treasurer	Justin Biller	540-772-2065	jbiller@roanokecountyva.gov
Governor	Patrick Castelvechi	540-857-3100	Patrick.Castelvechi@aecom.com
Governor	Jason Price	540-342-5498	jason.price@ies-co.com
Governor	James Sledd	540-857-3100	James.Sledd@aecom.com
Governor	Roger Jones	540-890-7114	rjones5632@aol.com

2008 – 2009 COMMITTEE CHAIRS

		<i><u>Phone:</u></i>	<i><u>Email:</u></i>
Shenandoah Section	Jeff Clinton	540-248-9207	jeffery.clinton@mcquay.com
Membership	Lee Hammarback	336-287-2868	lhammarback@sfc.com
Student Activities	Rick Hughes	540-342-6001	rhughes@spectrumpc.com
Technology Transfer	Patrick Murdock	540-563-2828	pmurdock@trane.com
Historian	Pat Cady	540-857-3100	Pat.Cady@aecom.com
Research Promotion	Patrick Castelvechi	540-857-3100	Patrick.Castelvechi@aecom.com
Newsletter	Jeff Consroe	540-797-7899	jeff@breeden-collier.com
Home page	James Sledd	540-344-5200	James.Sledd@aecom.com