



Giga-Joule

Greenville Chapter

April, 2009

<http://www.ashrae4greenville.com/newsletter.php>

Meeting Announcement

The April meeting will be held on **Thursday, April 16th** at the Roper Mountain Science Center. The details are listed on the Programs Page. For more information, please contact our Programs Chairman, Davin Sandhu, by phone at 864-234-3819 or, email at programs@ashrae4greenville.com

A Message from the President

I would like to apologize for last months' presentation on the cooling towers. I had to leave the meeting early and I understand that the presenter let the presentation go to a sales pitch. He was instructed not to and if anyone has an issue with that, please let me know. On that note, I would like to thank Frank Bowman and his son Chris with Composite Cooling Systems for their presentation of pultruded composite field erected cooling towers, uses and how they are made and sized.



I look forward to seeing all of you at our next meeting on April 16th, when we welcome Manuel del Valle, Sr. Please see Davin's column on Manuel's presentation.

If anyone has any suggestions or comments about any programs that they would like to see, please let someone on the Board know and we will see what we can do to make it happen. I look forward to seeing all of you on Thursday, April 16th.

I want to remind everyone of the satellite broadcast on April 22nd on "Clean, Lean and Green" from 1-4 pm at the Trane office on 288 Fairforest Way. It is a great opportunity to get 3 PDH's and learn more about IAQ for sustainable buildings.

Best regards,

Will Thomason
Greenville ASHRAE President
president@ashrae4greenville.com

Chapter Programs



Davin Sandhu
Programs Chairman
programs@ashrae4greenville.com

I will also second Will's apology on last month's presentation. Usually we are able to screen presentations to make sure they are non-commercialized and had asked that it not be sales presentation. In the future we will make sure that we bring valuable presentations and speakers for our Chapter Members.

This month we will have a local favorite, Mr. Manuel A. DeValle, SR. speaking on High-Rise Building HVAC Design Guide. I am sure this will be a great presentation and definitely non-commercial.

Please notice that we have had a change up for next month. It seems Mr. Barry Benator that we had speaking has a conflict on next month's meeting. Next month's meeting will be held at Thomas Creek Brewery for a tour of the facility and refrigeration system. This will be a fun meeting to have before our summer break.

Student Activities

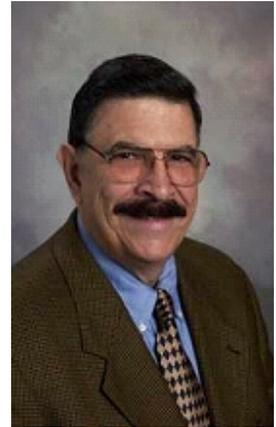
If you have participated in any educational activities during this school year, we'd like to hear about it! Please let us know if you have visited schools for career day activities, participated in other school activities such as science fairs or Mathcounts, or if you have had any interns or co-ops at your office. Just send an email to sa@ashrae4greenville.com with a brief description of your activity. Thanks!



April Meeting

Program: High-Rise Building HVAC Design Guide

Presenter: Manuel A. del Valle, PE



Manuel A. del Valle recently retired as Director of HVAC Design at Fluor Daniel in Greenville, South Carolina after accumulating over 40 years of experience in HVAC design, specializing in pharmaceutical and biotech facilities in the United States, Europe and Puerto Rico. Manuel earned his Bachelor of Science in Mechanical Engineering from the College of Engineering at the University of Puerto Rico, Mayaguez Campus in 1965. He joined Daniel Construction Company International in 1969 as Field Mechanical Engineer in Puerto Rico. In 1971 Manuel became Manager HVAC Design at Scovil Engineers. Manuel came to Flour Daniel Greenville in 1987 as Lead HVAC Engineer and served later as Manager HVAC in San Francisco, California. He then served as Director of HVAC Design in Fluor's Greenville office.

Manuel is a Registered Professional Engineer in Puerto Rico, South and North Carolina, Pennsylvania, New Mexico, California, Rhode Island and Colorado. He is a member of ASHRAE and the International Society for Pharmaceutical Engineering. He is a frequent speaker at conferences for associations such as ISPE, ASHRAE, Parenterals Drug Association, American Society of Mechanical Engineers, Barnett International, and the Institute of International Research. He has published a number of articles in trade publication such as Pharmaceutical Engineering; Biopharm, Heating, Piping, & Air Conditioning; and CleanRooms Magazine.

Location: Roper Mountain Science Center (www.ropermountain.org)

Date: Thursday, April 16, 2009

Time: 11:30 a.m. Doors Open
11:35 a.m. Lunch Served
11:45 a.m. to 12:00 p.m. Chapter Business
12:00 a.m. to 1:00 p.m. Main Program

Cost: Lunch Program: \$10/chapter member \$15/non-chapter member (catered lunch)

Education Credit: This program qualifies for 1.0 PDH (including NC PE)

***Please RSVP to programs@ashrae4greenville.com
no later than Noon Tuesday, April 14, 2009***

WEBCAST

Clean, Lean, and Green: IAQ for Sustainable Buildings
April 22, 2009, 1:00 p.m. - 4:00 p.m. EDT



Using the guidance provided by the IAQ Guide: Best Practices for Design, Construction, and Commissioning developed through collaboration with ASHRAE, AIA, BOMA, EPA, SMACNA and USGBC, this broadcast will challenge the building community to use enhanced IAQ practices to create a more sustainable built environment. Join ASHRAE in learning more about your role in transforming mid-range practice into best practice for healthy, productive, sustainable indoor environments.

The Greenville Chapter will be hosting the webcast at:

Trane Upstate Carolina,
Fariforest Way
Greenville, SC

We will have a catered lunch beginning at 12:30.

\$20 Chapter Members

\$30 Non members

Please RSVP to CTT@ashrae4greenville.com

Membership Corner

Thank you to all who attended our second and final Membership Promotion Meeting last month.

During our March chapter meeting Mr. Jimmy Hunt of Pace Inc. enjoyed a free meal by joining ASHRAE with a completed ASHRAE Membership Application – The Greenville Chapter welcomes you as does ASHRAE Society Headquarters.

For questions and applications, contact me at: membership@ashrae4greenville.com or (864) 444-0219



Reminder Monthly Chapter Meeting Charges will be as follows:

**ASHRAE Greenville Chapter Members - \$10.00 per meeting (includes lunch)
(Society & Chapter Dues Paid Up)
Non-Chapter Members - \$15.00 per meeting (includes lunch)**

Be Green, Save Time, and Manage Your Membership Online! For those interested in upgrading your membership, you can now accomplish this by updating your BIO on the ASHRAE website (www.ashrae.org)

Note: It is no longer necessary to complete applications for ASHRAE Advancement.

Chapter Technology Transfer

To acquire a professional engineering license one is currently required to complete an accredited engineering degree, pass two examinations, and complete a minimum of four years of experience under the direction of a licensed engineer. The National Council of Engineering Examiners (NCEES) has endorsed a program changing the academic requirements to an accredited bachelor's degree plus an additional 30 hours of coursework. (The effective date for this change is in flux, but appears to be 2015 or later and has many difficulties in implementation.) ASHRAE has issued a statement opposing these efforts. ASME and several other engineering associations are also opposed.

The argument in favor of the move, per an NCEES executive board member, is that the required coursework for an engineering bachelor's degree is not as rigorous as it once was. The state board of education has been pushing bachelor program requirements in all areas towards 120 hours. In its current structure the educational requirements for a "professional" engineer do not meet the definition of a professional used by the U.S. Department of Education. Another aspect of the argument for "B +30", as it has been referred to, is to bring the educational standards of an engineering "professional" up to a level roughly equivalent to an architect or CPA.

My brief review of the Clemson website indicates that current requirements for a bachelor's in mechanical engineering is 124 hours of coursework. For comparison a degree in business economics requires 120; graphic communication degree requires 122; and math education degree 125. My recollection of college (University of South Florida early 80's) is more coursework than any other undergraduate degree on campus, with few students able to complete it in four years.

I was initially opposed to the "B +30" movement, but am now undecided. You?



Devon Cortright PE
**Chapter Technology
Transfer Chairman**
ctt@ashrae4greenville.com

Research Promotion

Due to course conditions, the golf tournament is being pushed back to May. Please stay tuned for the revised date and continue to encourage your business contacts to participate.

If your company would like to be a sponsor, please e-mail me.



Brian Alexy
Research Chairman
rp@ashrae4greenville.com

Stimulus Funding for Schools Provides Energy Efficiency Opportunities

ASHRAE Advanced Energy Design Guide Provides Simple Tool

ATLANTA – As school boards and superintendents develop programs to utilize recent U.S. economic recovery stimulus funds, projects focused on improving energy efficiency can result in long-term savings for school districts.

Guidance from The American Society of Heating, Refrigerating, and Air-Conditioning Engineers (ASHRAE) can help schools earn an A+ in achieving that efficiency.

The American Recovery and Reinvestment Act (ARRA) signed by President Obama on February 17, 2009, provides significant funding and financing opportunities to modernize, renovate and repair public schools. Under the “State Fiscal Stabilization Fund” up to \$48.3 billion can be allocated to schools. An additional \$25 billion in eligible bonds also have been authorized.

ASHRAE and other leading building industry organizations have developed the Advanced Energy Design Guide for K-12 School Buildings. The guide provides recommendations for achieving 30 percent energy savings over the minimum code requirements of ANSI/ASHRAE/IESNA Standard 90.1-1999. Estimates show that a full 16 percent of schools districts’ controllable costs is spent on energy.

“Beyond energy savings, by implementing the recommendations, schools may benefit from an improved learning environment, reduced operating costs, reduced environmental and climate impacts, and enhanced teaching opportunities on the environment,” ASHRAE President Bill Harrison said.

The recommendations in the guide allow those involved in designing or constructing school buildings to easily achieve advanced levels of energy savings without having to resort to detailed calculations or analysis. All of the energy-saving recommendations for each of the eight U.S. climate zones are summarized in a single table. Additional recommendations point to other opportunities to incorporate greater savings into the design of the building.

More than 14,000 free copies of the Advanced Energy Design Guide for K-12 School Buildings were sent to school systems in the United States last spring.

Details on the stimulus funding for educational facilities can be found on the Department of Education’s Recovery page (<http://www.ed.gov/policy/gen/leg/recovery>).

Copies of the Advanced Energy Design Guide for K-12 School Buildings are available for free download at www.ashrae.org/freeaedg or print copies may be ordered from the ASHRAE Bookstore at www.ashrae.org.

ASHRAE, founded in 1894, is an international organization of some 50,000 persons. ASHRAE fulfills its mission of advancing heating, ventilation, air conditioning and refrigeration to serve humanity and promote a sustainable world through research, standards writing, publishing and continuing education.

Tentative Event Dates for 2008-2009

Thursday 09/11/2008	Seismic design of pumps	Harry King James M. Pleasants
Thursday 10/09/2008	100% DX-DOAS Control Strategy	Jeffrey Hughes Desert Aire Corp.
Thursday 10/23/2008	Fall Golf Tournament	Verdae
Thursday 11/13/2008	Mediation and Arbitration	Skip Lewis H2L Consulting Engineers
Thursday 12/11/2008	LEED Presentation at QS-1	Lee Chapman, Devita & Assoc. Wade Crow, Wade Crow Engr.
Thursday 01/08/2009	Pressure Independent Control Valves—Why you need them	Chris Edmondson
Wednesday 02/11/2009	Issues for International Collaboration OR Air Flow, Thermal and Humidity Patterns in Ventilated Archaeological Tombs, Valley of the Kings, Luxor	Cairo Distinguished Lecturer Essam Eldin Khalil, Ph.D
Thursday 03/12/2009	Field Erected Cooling Towers	Frank Bowman CCS
Tuesday 04/14/2009	Joint meeting with Mechanical Contractors Association (MCA)	Location: GM Mechanical
Thursday 04/16/2009	High-Rise Building HVAC Design Guide	Distinguished Lecturer Manuel A. del Valle, P.E.
Wednesday 04/22/2009	Satellite Broadcast: Indoor Air Quality	
Thursday 05/14/2009	Thomas Creek Brewery Tour – Refrigeration Process	Bill Davis – General Manager



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Technology for a Better Environment

Region IV
Greenville Chapter

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