



American Society of Heating, Refrigeration, and Air Conditioning Engineers NM Chapter Region IX Albuquerque, NM

## October Meeting 2014

## President's Message

### TECHNICAL ENERGY ANALYSIS

#### *Lessons Learned & Applied*

Speaker: Matthew Higgins, CEM, HBDP, LEED AP (BD+C), MBA, Founder & Chief Analyst of Vibrantcy

Mr. Higgins founded Vibrantcy after seven years of industry experience. He has a specialized undergraduate degree in Sustainable Development from University of New Mexico and an MBA from the University of Phoenix. Consulting for energy projects, Mr. Higgins has conducted energy incentives research, energy audits, and energy and daylight simulations. He has sized and planned renewable energy systems, developed site specific combinations for energy efficient glazing, shading, and construction assemblies, and assisted with building equipment and control decisions.

Mr. Higgins has worked on over 120 new and existing building energy modeling projects, over 80 of which had an associated LEED certification goal. His expertise also includes extensive energy measurement and verification studies, Energy Star building certifications, and a breadth of public speaking experience throughout the southwest.

Members,

I would like to start the 2014-2015 ASHRAE year off by thanking all of you for your support of our New Mexico chapter over the past 60 years. It seems strange to have also been the president when the chapter turned 50 in 2004-2005. But it is an example of the importance of the New Mexico ASHRAE chapter within our community. I am excited and honored to be President of the Chapter once again.

As in previous years I, the Board of Governors, and Committee Chairs thank all of you for your continued help in making your ASHRAE chapter productive and useful. As many of you know ASHRAE is truly a grassroots organization, which only operates because of our ideas, volunteer efforts, and financial support. This chapter's Board of Governors and Committee Chairs have volunteered to both run the administrative affairs of the chapter but also to make the chapter a tool that would be of use to its members. I ask that you would please offer any thoughts or suggestions that you have which would assist us in making ASHRAE a useful instrument, which is worth your membership.

I look forward to being the president of our chapter in this 60<sup>th</sup> year of our chapter's existence and with all of your help we can continue to make this a productive organization for us all.

David Graham  
Chapter President  
2014-2015

**WHEN:** Tuesday October 21, 2014 at 11:30 am **COST:** \$25 Members, \$30 for Guests

**WHERE:** Pappadeaux Seafood Kitchen, 5011 Pan American West Fwy NE, Albuquerque, NM

**RSVP to Joseph Higham by Monday October 20th. Email: [jhigham@climatec.com](mailto:jhigham@climatec.com) or Register Online at [newmexicoashrae.org](http://newmexicoashrae.org).**

# *From the History Books*

October 1969

**President:** Barcly Barnett  
**President-Elect:** Robert Friggens  
**Secretary:** Peter Lujan  
**Treasurer:** Paul Arnold



The speaker for the meeting was Carl W. MacPhee, Editor of the ASHRAE Guide and Data Book. He discussed the purposes of the book. He also made a plea for contributions from the ASHRAE membership for inclusion on the Guide and Data Books.

## *Message from the Treasurer*

Thank you for the recent increase in use of online payment for Lunch Meetings. I would like to encourage the adoption of online payment as much as possible. If you have any suggestions on how to improve our online payment system, please contact Stephen Forner at [Stephen.forner@trane.com](mailto:Stephen.forner@trane.com)

Monthly Meeting  
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## *Membership*

Just wanted to say hi from Membership!



Did you know the cost of membership is almost equal to the cost of the fundamentals book that you receive? And yet you gain access to so much more information.

Please contact me should have any questions. Allen Anaya – 505-385-7338 – [Aanaya@climatec.com](mailto:Aanaya@climatec.com)



Albuquerque Balloon Fiesta

Photos by: Stacey Chan



# News

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For Release: Sept 30, 2014

Contact: Jodi Scott  
Public Relations  
678-539-1140  
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## **ASHRAE, AHR Expo Return to Chicago for 2015 Winter Conference, Expo**

ATLANTA – Registration is open for ASHRAE’s 2015 Winter Conference in Chicago where attendees have the chance to discuss and examine the latest topics in the building industry, network; participate in technical tours; attend ASHRAE Learning Institute courses; earn professional credits; and obtain ASHRAE certifications.

The ASHRAE Conference takes place Jan. 24-28, Palmer House Hilton, while the ASHRAE co-sponsored AHR Expo is held Jan. 26-28, McCormick Place. Complete Conference information and registration can be found at [www.ashrae.org/chicago](http://www.ashrae.org/chicago), and Expo information at [www.ahrexpo.com](http://www.ahrexpo.com).

In keeping with ASHRAE’s goal of continuing education, the Conference offers over 200 Professional Development Hours, as well as Continuing Education Units, which can be applied toward a Professional Engineering license.

The Technical Program features more than 100 sessions and 300 speakers over eight tracks: Systems and Equipment; Fundamentals and Applications; Industrial Facilities (new); Large Buildings: Mission Critical Facilities and Applications (new); Energy Efficiency; Life Safety (new); Design of Energy and Water Efficient Systems (new); Hospital Design and Codes (new). Specifically, the program features sessions on cold climate design, tall buildings, hospital and clean room design and data centers.

The ASHRAE Learning Institute (ALI) offers 20 professional development seminars and short courses to stay current on HVAC&R trends. Among them is a new course on Standard 202, *Commissioning Process for Buildings and Systems*, in addition to updates to Standard 90.1, *Energy Standard for Buildings Except Low-Rise Residential Buildings*, and 62.1, *Ventilation for Acceptable Indoor Air Quality*. Training topics include commissioning, energy management, Standard 55, *Thermal Environmental Conditions for Human Occupancy*, energy efficient data centers, healthcare facilities, building energy audits, the coming smart grid and ground source heat pumps. Register at [www.ashrae.org/chicagocourses](http://www.ashrae.org/chicagocourses).

Additionally, ASHRAE offers a special administration of all six certifications on Jan. 28: Building Energy Assessment Professional (BEAP); Building Energy Modeling Professional (BEMP); Commissioning Process Management Professional (CPMP); High-Performance Building Design Professional (HBDP); Healthcare Facility Design Professional (HFDP); and Operations & Performance Management Professional (OPMP). Register at [www.ashrae.org/certification](http://www.ashrae.org/certification).

The keynote speaker at the opening Plenary Session is Aron Ralston, adventurer and subject of the film *127 Hours*. In April 2003, during a hike into a remote area of Utah's canyon country in April 2003, Ralston accidentally dislodged a boulder that crushed and pinned his right hand. After six days of entrapment alone, he freed himself with a cheap multi-tool knife and hiked to a miraculous rescue. Since his amputation, Ralston has written an internationally bestselling book, *Between a Rock and a Hard Place*, later turned into a movie nominated for six Oscars.

Also offered are technical tours, which include Walgreens net zero store, a brewery and McCormick Place.

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For Release: Oct 2, 2014

Contact: Jodi Scott  
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## **DOE Updates National Reference Standard for Commercial Buildings to 90.1-2013**

ATLANTA - Following preliminary analysis that ASHRAE/IES's 2013 energy efficiency standard contains energy savings over the 2010 standard - 8.5 percent source energy savings and 7.6 site energy savings - the U.S. Department of Energy (DOE) has issued a ruling that establishes the 2013 standard as the commercial building reference standard for state building energy codes.

In an announcement in the Sept. 26, 2014 edition of "The Federal Register," DOE attributes the greater energy savings to improvements in ANSI/ASHRAE/IES Standard 90.1-2013, *Energy Standard for Buildings Except Low-Rise Residential Buildings*, related to several areas, including better lighting, fans, commercial refrigeration, boilers and controls.

The determination means that states are required to update their codes to meet or exceed the 2013 standard within two years. Currently, states must meet or exceed the 2010 standard, which serves as the commercial building reference standard for state building energy codes under the federal Energy Conservation and Production Act.

"ASHRAE is pleased with this ruling from the DOE, recognizing the energy savings measures in the standard," ASHRAE President Tom Phoenix said. "Standard 90.1 was an original cornerstone in our efforts to improve building performance, and we continue to strive to increase its efficiency in the future."

Among the eight addenda that are identified as having a major positive impact on energy efficiency, IES notes that three are attributed to lighting changes according to Rita Harrold, IES director of technology. These address control requirements for lighting alterations, additional controls for more spaces with a shortened time to lighting reduction or shutoff, and a decrease in lighting power density in most building types to reflect changes in revisions to illuminance recommendations in the IES Lighting Handbook, 10<sup>th</sup> edition.

The DOE noted that the 2013 standard contains 52 positive impacts on energy efficiency that were incorporated into the analysis. These impacts included changes made through the public review process in which users of the standard comment and offer guidance on proposed requirements. Specifically the major positive impacts include:

- Control requirements for lighting alternations
- New requirements for individual fans
- Reduction of energy usage for large boilers
- Reduction of fan energy usage
- New efficiency requirements for commercial refrigeration
- More controls in more spaces and reduction of time to reduction or shut off of those controls
- Reduction of lighting power density in most building types

ASHRAE, founded in 1894, is a global society advancing human well-being through sustainable technology for the built environment. The Society and its more than 50,000 members worldwide focus on building systems, energy efficiency, indoor air quality, refrigeration and sustainability. Through research, standards writing, publishing, certification and continuing education, ASHRAE shapes tomorrow's built environment today. More information can be found at [www.ashrae.org/news](http://www.ashrae.org/news).

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## **2014-2015 New Mexico Chapter Board of Governors**

<b>Position</b>	<b>Name</b>	<b>Phone</b>	<b>E-mail</b>
Past President Research Promotion Chair	Morgan Royce <i>Beaudin Ganze Consulting Engineers</i>	323-9070	<a href="mailto:mbroyce@bgce.com">mbroyce@bgce.com</a>
President	David Graham <i>T&amp;D Services</i>	314-7500	<a href="mailto:DGraham@t-d-services.com">DGraham@t-d-services.com</a>
President-Elect Programs Chair TEGA/Refrigeration	Joe Higham Norman S. Wright	938-9279	<a href="mailto:jhigham@climatec.com">jhigham@climatec.com</a>
Treasurer/Secretary	Stephen Forner <i>Trane</i>	717-3766	<a href="mailto:Stephen.Forner@trane.com">Stephen.Forner@trane.com</a>
Chapter History Region IX Historian	Gary Grange <i>WM Carroll</i>	268-6776	<a href="mailto:GGrange@Climatec.com">GGrange@Climatec.com</a>
Golf Chair -Website	Rich Love <i>Mechanical Products SW</i>	938-7693	<a href="mailto:richl@mpswinc.com">richl@mpswinc.com</a>
Student Activities Chair	Gordon Dixon <i>AC New Mexico</i>	343-9910	<a href="mailto:gdixon@acnewmexico.com">gdixon@acnewmexico.com</a>
Newsletter/Website	Stacey Chan <i>Bridgers &amp; Paxton Consulting Engineers</i>	883-4111	<a href="mailto:skchan@bpce.com">skchan@bpce.com</a>

## Obituary for BAUMGARTEL

**Published in the Albuquerque Journal on Sunday October 05, 2014**



**BAUMGARTEL, HOWARD JOHN III** John took his last breath at the end of a beautiful September day filled by the love of his family and friends. John was born on February 1, 1948. His brief and courageous battle with cancer is over. John was a man of grace, a man of honor, and, as his friend and colleague so aptly stated "John was, quite simply, the finest man I ever knew." John was many things, but most of all he was a contribution. John obtained his Master's degree in mechanical engineering from the University of Michigan. You could always hear John say 'Go Blue' as he walked through any airport and saw a fellow Wolverine. He worked for Union Carbide in Buffalo, NY before moving to Santa Fe, starting M&E Engineering with his partner, Tom Cummins. John did the mechanical and electrical design on countless buildings throughout New Mexico and southern Colorado-- including New Mexico's original State Library, Palace of the Governors, Santa Fe Opera, and St. John's College. John did environmental work in the 1970's-- making a difference to keep buildings healthy for the people living and working in them. John was committed to protecting the earth, resources and natural beauty. He took a passionate stand for non-violent conflict resolution all of his life. John's love of life was evident in everything he did. His most special moments were sailing, and spending time with his family and lifelong friends on his beloved Higgins Lake, Michigan, or fly-fishing on the Tarryall River, Colorado. John loved music. He could be found mowing a field with headphones in his ears, or sitting at his desk listening to Eric Clapton, John Lee Hooker, Bonnie Raitt, Art Farmer, or the Rolling Stones. He saw the Beatles, live, in 1965. When the music started, John was ready to dance. John shared all that he loved unselfishly with those he held dear-- his children, his professional colleagues, his friends--and especially his grandchildren whom he always had time for. John will be deeply missed by his loving wife Carol; sister Mona and her husband John DeBeer; his brother Tom and his wife Joyce Whelchel; daughter Elaine Baumgartel; son Jeremiah Baumgartel and his wife Sara; Carol's son Croft and his wife Stephanie Elsaesser, Carol's son Niko Alley; and Carol's son Shaylor Alley and his partner Kate. John is also survived by his grandchildren Madeleine, Walker, Cruz, and Soren Alley; Caven, Caden, and Tate Elsaesser; and Clara Baumgartel. In addition, he is survived by his niece Sylvie Baumgartel, and his nephew Duke Baumgartel; his many dear friends and colleagues including Jerry Watts, Ann Quarles, Michel Fidel, Tom and Deb Cummins, and Michael Huvane. His special hiking partners, Belle and Murphy, are lost without him. A special thanks goes to his team of doctors at the UNM Cancer Center and UNM Hospital where his care was extraordinary. Donations in John's name can be made to Sierra Club or Higgins Lake Foundation. A memorial for John will be held Saturday, October 25th, in the Great Hall of St. John's College, Santa Fe, at 3:30pm.