**April 2015 Meeting**

Our speaker will be Tim Maloy with Energy Control. The topic will be DDC Controls.

**WHEN:** April 21, 2015, 11:30 – 1:00pm  
**COST:** $25 Members, $30 for Guests  
**WHERE:** Pappadeaux Seafood Kitchen (Chicken and Vegetarian Options are available)  
5011 Pan American West Fwy NE, Albuquerque, NM

RSVP to Joseph Higham by Monday April 20 at jhigham@climatec.com or online at newmexicoashrae.org

**Upcoming Events**

<table>
<thead>
<tr>
<th>Month</th>
<th>Event</th>
<th>Date</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>April 21</td>
<td>Lunch Meeting</td>
<td>11:30 – 1 pm at Pappadeaux</td>
<td></td>
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<tr>
<td>May 8</td>
<td>YEA Bowling</td>
<td>1pm at Sylvia Lanes</td>
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<tr>
<td>May 19</td>
<td>Lunch Meeting &amp; Award Ceremony</td>
<td>11:30 – 1pm at Pappadeaux</td>
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<tr>
<td>July 22 - 26</td>
<td>CRC Conference</td>
<td>Rapid City, SD</td>
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<tr>
<td>Sept 11</td>
<td>Golf Tournament</td>
<td>UNM Championship Course</td>
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<tr>
<td>Nov 17</td>
<td>Engineering Ethics Class</td>
<td>Location TBD</td>
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</tbody>
</table>

**Annual Golf Tournament**

**Mark Your Calendars NOW – September 11th @ University of New Mexico Championship Course**

This is our one big event each year where everyone’s participation is critical to our chapter being able to provide funding for our scholarship program, YEA Programs, research, as well as maintenance and operation. Furthermore, it provides funds to supplement lunch cost (Did you know we fund part of the lunch cost for ASHRAE Members?)

Get your Team Together! Be sure that your company has the visibility to the community with Hole, Drink, and Course sponsorships

More Coming Soon!

If you want to help to put this together; please let me know.

Golf Chair:  
Allen Anaya  
P: 505-385-7338  
E-Mail: AAnaya@Climatec.com
Welcome and Welcome Back to:

Dr. Grenville K Yuill  
Mr. Chris Harrelson

We are still looking for a few more new members. Take a moment and encourage your colleagues to be involved with ASHRAE. The more involvement we have, the more productive we can be as a society to our local industry.

Additionally: We are seeking someone to take the membership chair for next year. Please contact myself or anyone else on the Board if you are interested. It’s about 2-3 hour commitment per month, some months could be more, some less. It’s a great way to see if being on the board is for you.

Thanks,
Allen Anaya  
P: 505-385-7338  
E-Mail: AAnaya@Climatec.com

Congratulations to Matt Bode and Luke Murdough!

March 12-14th was the 2015 Central New Mexico Science and Engineering Research Challenge, held at the University of New Mexico. ASHRAE will be presenting two special awards scholarships to the winning exhibits in the field, as chosen by our distinguished panel of judges: Charlie Scoggin, Lewis Steinberg and Jerry Hine.

The first scholarship goes to Matt Bode, a student at the Amy Biehl Charter High School, for his project involving evaporative cooling wherein a copper coil was attached to the face of a round, floor fan. Cold water was circulated via a small in-line pump through the coil. The fan was energized thus lowering the dry bulb temperature of the air and also the wet bulb temperature through absorption of the condensate that formed on the face of the coil.

The second scholarship was awarded to Luke Murdough, a student at the Albuquerque Institute of Math & Science, for demonstrating a means of cooling solar panels, theoretically increasing the heat energy capture capacity and increasing the panels’ efficiency as a result. The method used thermoelectric cooling, AKA the Peltier effect. A Peltier cooler is located behind the panel to create a heat flux between the two materials, upon the introduction of an electric current.

The winners will receive their check and certificates at the May chapter meeting.

From the History Books

April 1991

President: Bruce Davis  
President-Elect: John Grapsas  
Secretary: Steve Maggert  
Treasurer: Mike Slaman

This meeting was a student night and tour. The tour was of the Albuquerque Journal Center HVAC system serving the building. The tour included the chilled water thermal energy storage system. Following the tour was a meeting where Bob Hopper, President of Bridgers & Paxton, and Louie Guenther of the Journal Center discussed the basis of the original design and the operation of the system.
### Job Postings

For up-to-date postings or how to post, go to newmexicoashrae.org/jobs

<table>
<thead>
<tr>
<th>Date Posted: 4/04/2015</th>
<th>Date Posted: 4/04/2015</th>
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</thead>
<tbody>
<tr>
<td><strong>Job Title:</strong> Commercial Inside Sales Engineer</td>
<td><strong>Job Title:</strong> Mechanical Engineer</td>
</tr>
<tr>
<td><strong>Company Name:</strong> Sigler, Inc</td>
<td><strong>Company Name:</strong> Bridgers &amp; Paxton</td>
</tr>
<tr>
<td><strong>Contact Information:</strong> John Pope, j <a href="mailto:pope@siglers.com">pope@siglers.com</a></td>
<td><strong>Website Link:</strong> <a href="http://www.bpce.com">www.bpce.com</a></td>
</tr>
<tr>
<td><strong>Link:</strong> Full job description</td>
<td><strong>Contact Information:</strong> Tammy Gomez, Employee Services Manager (send resumes to <a href="mailto:employment@bpce.com">employment@bpce.com</a>)</td>
</tr>
</tbody>
</table>

Successful candidate will provide inside sales support to sales engineers/contractor sales associates, internal employees and customers; submittal preparation, preparing quotes, selecting mechanical equipment to fit engineering and architectural designs, assist consultant engineers, assist automation division with proposals and pre-qualification of Building Automation systems, other clerical and administrative duties consistent with supporting daily business.

Bridgers & Paxton is seeking a Mechanical Engineer for our Albuquerque office with 5-10 years of experience in the design of building mechanical systems. Candidate must be capable of obtaining and maintaining a security clearance. Design experience with office and laboratory systems desired. Work may include new facility design, major renovation, and operations and maintenance type equipment replacement. Energy modeling, LEED, and REVIT/Microstation experience a plus.

### New Mexico News

**Gov. Martinez signs 24 bills, vetoes two others**

By Dan Boyd / Capitol Bureau Chief

Published: Tues, April 7, 2015

With the clock ticking toward the Friday bill signing deadline, Gov. Susana Martinez has taken action today on more than two dozen bills. The governor signed legislation to bolster New Mexico’s lobbyist registration database and also enacted a measure that will increase the inflows into a large state fund, the Severance Tax Permanent Fund.

Meanwhile, Martinez vetoed a bill that would have allowed for reduced probation for good behavior. She said in her veto message House Bill 332 — which passed both the House and Senate unanimously — does not “promote good public policy and unnecessarily jeopardizes public safety.” She also vetoed another bill that would have broadened the definition of instructional materials for schools.

The bills are among 191 pieces of legislation that passed both chambers and ended up on the governor’s desk — the lowest figure for a 60-day session since 1949. Among the bills still awaiting Martinez’s signature are a $6.2 billion budget for next year and a proposed ban on civil asset forfeiture, which backers describe as “policing for profit.”

Source: [www.abqjournal.com](http://www.abqjournal.com)

Bills which passed both the House and Senate include the Affordable Housing Act, Sustainable Building tax credit, Thermal energy, public school renovations of existing buildings, and two on heat pumps and solar energy tax credits. For more info on these and other bills go to [http://www.nmlegis.gov/](http://www.nmlegis.gov/)

Stacey Chan
Communications Chair
2015 NM ASHRAE
Golf Tournament
UNM Championship Golf Course

Friday September 11th, 2015
7:30 AM Shotgun Start
4 Person Scramble – Cost $500.00/Team

*** More Information to Come ***

Sponsorships allow us to assist aspiring Students with Scholarships, Research and Development of new and refined standards, continued supplementing of programing lunches as well as general operational cost

Available Sponsorships†:
Title Sponsors: $1,000.00 (Name Appears on all correspondence as well as signage)
Hole Sponsorships: $200.00 (Personalized Sign placed at Tee Box for assigned Hole)
Beverage Sponsorships: $250.00 (Recognized at entrance and awards portion of event for participation)
Raffle Prize Donations: Items will be recognized by donor as they are raffled as well as in tournament correspondence. (Min. of $100.00 value)
Prize Donations: Prize Donations are always needed for prizes

Thank You once again for the 2014 Sponsors: DAIKIN AC, Ruskin, Scoggin Mechanical, Mechanical Products Southwest, Bridgers and Paxton, ARSED Engineering, CAC, Mechanical Representatives, Lakos, Spec Air, Travers Mechanical, Norman S. Wright, Sigler and Reeves, Boyd Engineering, Climatec, T-D Services, Metal Crafters of Albuquerque, Beaudin Ganze, Crest Mechanical, Johnston Company, Mechanical Concepts, Mitsubishi & Johnson Controls, Trane, New Mexico Mechanical Contractors Association, Hanna Plumbing

† Preliminary fees subject to change
Join us for a Fun Afternoon

Just a little time to get together, get to know someone better; meet some new people and enjoy.

• Games are $3.00 Each
• Shoe Rentals are $1.00
• Entrance Cost is $10.00 each to cover some basic food and Water. Adult beverages will be the responsibility of each person Pay at door w/ Cash or Credit Card

Friday May 8th @ 1:00pm till ?

Sylvia Lanes,
3010 Eubank NE
(Eubank and Montgomery)

Who will look like this?

Proudly Sponsored by:

YEA
Young Engineers in ASHRAE
The heart and soul of HVAC&R’s future built environment.

Please RSVP with Allen Anaya by E-mailing to: AAnaya@climatec.com
Or 505-385-7338
Revision Of ASHRAE IAQ Guideline Open For Public Comment

Apr 2, 2015

Contact: Jodi Scott / Public Relations / 678-539-1140 / jscott@ashrae.org

ATLANTA – Public input is being sought into a proposed revision of ASHRAE’s residential indoor air quality guideline.


A revision of the guideline is currently open for public comment until May 11, 2015. To learn more or to comment, visit www.ashrae.org/standardsactions.

This marks the first time since 2008 that the document is being revised, according to chair Paul Francisco. The revision includes a range of changes intended to provide clarification to previous guidance and update the Guideline for current understanding.

The guideline, which was written by the committee responsible for maintaining Standard 62.2, includes information on envelope and system design, material selection, commissioning and installation, and operation and maintenance.

###
ATLANTA – Today's grocery stores often include a wide range of prepared food services and expanded fresh food products, which creates unique challenges in the design process due to the needed balance between refrigeration, food service and HVAC systems. When coupled with the need to create an inviting environment and positive shopping experience for customers, energy efficiency may get overlooked.

However, an energy efficient grocery store design adds value, reduces expenses and enhances the customer shopping experience. A new publication from leading industry associations provides an integrated approach to achieve such energy efficiency design.

The new published Advanced Energy Design Guide for Grocery Stores focuses on grocery stores ranging in size from 25,000 to 65,000 square feet with medium- and low-temperature refrigerated cases and walk-ins. The information in this Guide can be combined with that in Advanced Energy Design Guide for Medium to Big-Box Retail Buildings and used for larger stores that consist of both grocery and general merchandise.

To download a free copy, please visit www.ashrae.org/freeaedg.

Refrigeration systems consume approximately half of the total energy consumed by a typical grocery store, and they interact with other building systems in a number of ways. One example is the heating load created by refrigerated cases without doors. Humidity control is another major issue. These interactions impact equipment performance and fresh food perishability.

“Traditionally, the refrigeration and food service are considered independently from the rest of the building systems and the HVAC&R is expected to meet the loads,” Paul Torcellini, chair of the committee that wrote the Guide, said. “An integrated approach looks at the building holistically and addresses issues such as: HVAC humidity levels that are critical to the performance of the refrigeration system, refrigeration system waste heat that can be used for hot water or conditioning the outside air, and food service operation that generates lots of heat that must be removed. Adding doors to refrigerated cases reduces uncontrolled cooling, simplifies temperature control and reduces system load. Better management of exhaust hoods and better selection of equipment reduces the food service loads. Proper introduction of outside air that is semi-conditioned helps minimize cooking smoke and odors with minimal conditioning. These are just examples of how the pieces need to work together.”

The Guide is the fifth in a series to provide recommendations for achieving 50% energy savings over the minimum code requirements of ANSI/ASHRAE/IESNA Standard 90.1-2004, Energy Standard for Buildings Except Low-Rise Residential Buildings. In the case of this Guide, all recommendations also meet or exceed Standard 90.1-2013.

The series was developed by a committee representing a diverse group of energy professionals drawn from ASHRAE, the American Institute of Architects (AIA), the Illuminating Engineering Society (IES), the U.S. Green Building Council (USGBC) and the Department of Energy (DOE). Support and funding was provided by DOE through the National Renewable Energy Laboratory (NREL).

The specific energy-saving recommendations are summarized in a single table for each climate zone and allow contractors, consulting engineers, architects, and designers to easily achieve advanced levels of energy savings without detailed energy modeling or analyses.

In addition, this Guide discusses principles of integrated design and how they can be used to implement energy-efficient strategies. A chapter addressing design philosophies for grocery stores is also included. This chapter is devoted to interaction between refrigeration and other building systems.

An expanded section of tips and approaches is included in the “How to Implement Recommendations” chapter. These tips are cross-referenced with the recommendation tables. This chapter also includes additional “bonus” recommendations that identify opportunities to incorporate greater energy savings into the design of the building.

Case studies and technical examples throughout the Guide illustrate the recommendations and demonstrate the technologies in real-world applications.
This guide's electronic copy has navigational hyperlinks to allow easy movement throughout the guide. Links in the recommendation tables direct readers to the applicable “how to” tips, and links within the text direct to referenced tables and figures.

The 50% series includes books for large hospitals; medium to big box retail buildings; small to medium office buildings; and K-12 school buildings. The energy savings target of 50% is the next step toward achieving a net zero energy building, which is defined as a building that, on an annual basis, draws from outside resources equal or less energy than it provides using on-site renewable energy sources. ANSI/ASHRAE/IESNA Standard 90.1-2004 provides the fixed reference point and serves as a consistent baseline and scale for all of the 50% guides.

There also is a series providing 30% savings, which target small office buildings; small retail buildings; K-12 school buildings; small warehouses and self-storage buildings; highway lodging; and small hospitals and healthcare facilities.

For more information on the entire Advanced Energy Design Guide series, or to download a free copy, please visit www.ashrae.org/freeaedg. A print version of the Guide may be purchased for $89 ($62, ASHRAE members). To order, contact ASHRAE Customer Contact Center at 1-800-527-4723 (United States and Canada) or 404-636-8400 (worldwide), fax 678-539-2129, or visit www.ashrae.org/bookstore.

###

ASHRAE International Conference On Ships Takes Place May 22-24 In Athens

Mar 25, 2015

Contact: Jodi Scott / Public Relations/ 678-539-1140 / jscott@ashrae.org

ATLANTA – The technical program for the International Conference on Energy and Environment in Ships, May 22-24, 2015, Athens, Greece, is being finalized. Registration is slated to open in April.

Organized by ASHRAE, the Hellenic Navy, the Technical Chamber of Greece and the ASHRAE Hellenic Chapter, the Conference is focused on the state of the art and challenges related to HVAC&R, indoor environmental quality, and energy safety and security on ships as well as onshore facilities.

The Conference presents a comprehensive overview of the areas relevant to military and commercial ships. Conference paper topics cover energy conservation and efficiency, ship HVAC systems, economic and financial considerations, IAQ in compact cabins and much more. Among the 30-plus papers to be presented are:

- Evaluation of Thermoelectric Generators for Waste Heat Recovery in Ships
- Minimizing Shipboard HVAC Energy Costs through Optimal Design
- Deep Water Wind Energy Production and Storage Coupled with Desalination Process
- Power Plant-Related Measures for Improving Energy Efficiency in Ships
- Energy Performance of a Liquid Desiccant and Evaporative Cooling-Assisted 100% Outdoor Air System in Commercial Ships
- Application of Photovoltaics on Ship Electrical Power Systems: Utopia or Reality?
- Life Cycle Assessment as a Prerequisite Tool in Maritime Industry
- Optimal Economic Operation of a Complex Electric Power System with Shaft Generators
- Capital Budgeting Techniques in Energy Systems Applied in Marine Science
- Production and Characterization of Zero Waste Biodiesel from Green Algae (Cladophora glomerata)
- Current and Future Trends on Marine Antifouling Coatings and the Study of Energy Efficiency Benefits for a Naval Fleet
- Royal Naval HVAC Systems

In addition, the United Nations Environment Program presents a special session with a range of topics and presenters that addresses the management of ozone-depleting substances in the fishing and shipping sectors.

The Conference seeks to bring together the various professions in the shipping industry, according to Dimitris Charalambopoulos, conference chair.
“This conference will be the first of its kind to draw up the strong links to the Hellenic Navy, the shipping community and the engineering community,” he said. “Attendees can expect to see current practices, new approaches, methodologies and technologies, and identify areas of improvement.”

More information can be found at www.ashrae.org/ships2015. Registration will open April 2015. Registration fee for the technical program is 35 euros. Technical program and all social events registration fee is 155 euros. Reduced registration is available for students. All sessions take place at the Yacht Club of Greece and at the Hellenic Naval Academy.

###

Registration Open For Free ASHRAE Webcast On Existing Building Commissioning

Mar 23, 2015

**Contact**: Jodi Scott / Public Relations / 678-539-1140 / jscott@ashrae.org


The webcast, offered by ASHRAE’s Chapter Technology Transfer Committee (CTTC), is broadcast live on April 23, 2015, from 1-4 p.m. EDT. The webcast features industry experts who will define the benefits of existing building commissioning for the environment, occupants, operations staff and overall ownership costs.

“The presenters will distinguish between new building commissioning, existing building commissioning and retro-commissioning,” Nathan Hart, chair of the CTTC Webcast Ad Hoc Committee, said. “Viewers will learn how to manage the commissioning process to minimize the impact on building functions and occupants, and how to integrate elements of existing building commissioning into the operation and maintenance staff’s daily activities. The focus will be on maximizing energy efficiency and return on investment.”

The webcast presenters are:


The webcast has been approved for three Learning Units (LUs) by the American Institute of Architects (AIA) and three Continuing Education (CEUs) by GBCI. The state of New York also recognizes AIA course approval.

For more information on the webcast program continuing education credits and ASHRAE resources related to existing building commissioning, visit www.ashrae.org/webcast.

Not able to view the live webcast? Be sure to register and take advantage of the free Webcast On Demand. The Webcast On Demand allows you to view all or part of the webcast online, as many times as you like, until May 8, 2015. Registration is required to view the Webcast On Demand.

**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.**