



THIN-AIR BULLETIN

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

April Meeting 2014

President's Message

Subject:

Energy Storage: A vital element in a Lower Carbon World

Whether the reason is Energy Independence, National Security or Climate Change, energy and carbon will be critical to our society's future. One critically important aspect about fossil fuels is that they are not just forms of energy, they are forms of "stored" energy. If we are going to reduce our dependence on them by using renewable energy like Wind or Solar, which are forms pure energy, we will also have to replace the storage aspect of the them. Energy Storage on both the Grid side and Building side of the meter will be discussed along with its role in the "Smart" Grid and Real Time Pricing.



Speaker:

Mark M. MacCracken, P.E., Pte. LEED-AP

Mark is the CEO of CALMAC Manufacturing Corporation, which is one of the largest manufacturers of Thermal Energy Storage equipment in the world, with over 4,000 installations in 36 countries. In his over 35 years with the firm, he has been involved in all aspects of the company including, R&D contracts, patents, manufacturing, marketing and finance. He was the Principal Investigator on research projects with Oak Ridge National Labs, NASA and National Renewable Energy Research Lab.

He has:

- BS in Mechanical Engineering from the University of Rhode Island
- 3 U.S. Patents
- Served on the USGBC Board of Directors for 7 years and was Chairman of the Board in 2011
- He is presently serving on AHRI, Board of Directors and ASHRAE's Distinguished Lecturer Program and is a Licensed Professional Engineer and a LEED Accredited Professional.

Dear ASHRAE Member,

How quickly the year has gone by. So far it has been a fun ride for the New Mexico ASHRAE Chapter. We have had a great line up of presenters and are looking to finish strong. I want to thank Erin Coffman the Chapter CTTC Chair for her great work.

We are at our second to last bulletin and last lunch presentation. The May presentation will be at night, hopefully involving the Science Fair recipients.

This month we are again fortunate to have an ASHRAE distinguished lecturer. If you haven't been to a presentation yet this would be the time. If you are a regular to the presentations this will be a good continuation on the past few presentations.

The Board would like to send our condolences to the family of Richard Supple. Richard passed away last month, obituary attached.

I look forward to seeing you at this month's lunch meeting.

Warmest Regards,

Morgan Royce President 2013-2014

From the History Books

October 1999

President:	Ed Faygal
President-Elect:	Nick Nellos
Secretary:	Tom Watters
Treasurer:	Jim Asperger



This Month's speaker was Jeff Miller of ABB. He spoke about general application issues and solutions for variable frequency drives. He also discussed IEEE 519, 1992, FCC Part 15, and the new technologies

WHEN: Tuesday April 15th, 2014 at 11:45 am **COST:** \$25 Members, \$30 for Guests

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

RSVP to Erin Coffman by Friday April 11th. Email: Erin.M.Coffman@jci.com or Register Online at

newmexicoashrae.org.

Obituary for SUPPLE

Published in the Albuquerque Journal on Thursday March 13, 2014



SUPPLE, RICHARD GRAEME Age 82, passed away on Saturday, March 8, 2014 at his home in Angel Fire, NM. Born in South Bend, Indiana, on March 7, 1932, he graduated from Short Ridge High School, Indianapolis, Indiana, in 1950. He was an Eagle Scout. He attained a Mechanical Engineering Degree from Purdue University (1954). He was a Second Lieutenant in the United States Army Ordinance Corps stationed at Remington Arms, Lake Arsenal in Independence, Missouri for two years. He was awarded the Commendation Medal by the Secretary of the Army for the design of a projectile recovery system. Richard's engineering career started in Sales for American Blower Co. in Denver, Colorado. In 1960, he transferred to Albuquerque as Sales Manager. From 1965 to 1994, he was a Chief Technical Officer and then President for Bridgers & Paxton Engineering Consultants. He designed numerous HVAC applications throughout the Southwest. Some of his projects included Presbyterian Hospital, Joseph Hospital, the Albuquerque Convention Center, the Albuquerque Academy, Lovelace Hospital, the Zimmerman Library, the Pit, the New Mexico Space Museum, the Scottsdale Fashion Square and the Albuquerque Plaza. He was the first Father/Son National President of ASHRAE (formerly the American Society of Heating, Refrigerating and Air Conditioning Engineers). In 1994, Richard and Anne moved to the energy-efficient home that he had designed and built in Angel Fire, New Mexico where he became a prominent volunteer with the retirement community. His lifelong passions were golf, tennis, basketball, the Indianapolis 500, reading and playing the piano. He was also an accomplished electrician, flew small aircrafts, rebuilt cars, and designed and built wood furniture. He is survived by his wife, Anne M. Supple; brother, Robert N. Supple and wife Sue; and the following children, grandchildren, and great-grandchildren: Robert C. Supple, his wife Suzanne and their daughters Monet and Michaela Audrey A. Supple, her partner Frank M. Duus and his daughter Penelope Graeme W. Supple, his wife Cheryl, their children Ian, Molly, Kevin and his wife Tiffany and their children Brooke and Sean Richard A. Supple and his children Megan and Jordan Jeffrey J. Supple, his wife Susan and their daughters Sarah, Madison, and Brittney. The family is planning a celebration of his life in mid June.

Save the Date

2014 New Mexico ASHRAE Golf Tournament

Date: 9/12/2014

Time: 7:30 AM

The 2014 New Mexico ASHRAE Golf Tournament will be held at the **UNM Championship Golf Course** this year! The tournament will feature a shotgun start with a picnic and awards ceremony afterwards. More information to follow. Contact Stephen Forner for sponsorship information or with questions. Stephen.Forner@trane.com or 505-717-3766

New Mexico Chapter of ASHRAE

Shaping Tomorrow's Built Environment Today

Society News Release

April 04, 2014

ASHRAE Proposes to Move All Residential IAQ Requirements to Standard 62.2

ATLANTA – Dwelling units of multifamily buildings of any height would fall under ASHRAE’s residential ventilation standard, 62.2, under a proposed change designed to provide consistency of ventilation requirements.

Currently, ANSI/ASHRAE Standard 62.1-2013, *Ventilation for Acceptable Indoor Air Quality*, has responsibility for multifamily residential buildings 4 stories or more, while ANSI/ASHRAE Standard 62.2-2013, *Ventilation and Acceptable Indoor Air Quality in Low-Rise Residential Buildings*, has responsibility for residential buildings 3 stories and less.

“The Standards 62.1 and 62.2 committees are proposing scope changes that would result in the dwelling units of all multifamily buildings being covered by Standard 62.2,” Paul Francisco, chair of the Standard 62.2 committee, said. “Common areas would be covered by 62.1. This will provide consistency of ventilation requirements for dwelling units regardless of building height. For new construction, this will result in a change of requirements for dwelling units in 4+ story buildings. For the retrofit market, this change will result in coverage by ASHRAE ventilation standards for the first time in 4+ story buildings.”

The proposed changes are being made via addendum *a* to Standard 62.1-2013 and addendum *g* to Standard 62.2-2013, which are open for public review from April 4 to May 4, 2014. For more information or to submit comments, visit www.ashrae.org/publicreviews.

The ventilation rates for dwelling units in Standard 62.1 are different from the rates in Standard 62.2, and this inconsistency has caused concern for some, according to 62.1 committee chair Roger Hedrick. Additionally, Standard 62.1 does not address modest retrofits whereas Standard 62.2 does.

“The retrofit market is a major user of ASHRAE ventilation standards,” he said. “This will allow for consistency across dwelling units and also allow application of ASHRAE ventilation standards to the multifamily retrofit market.”

Francisco agreed, saying, “Given the growth of the retrofit industry in multifamily dwellings it is important to ensure that these situations are covered in ASHRAE’s ventilation standards.”

ASHRAE, founded in 1894, is a building technology society with more than 50,000 members worldwide. The Society and its members 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.