



# THE SQUIRREL CAGE —ALAMO ASHRAE

ASHRAE - ALAMO CHAPTER #65

SAN ANTONIO, TX

ISSUE: JANUARY 2012 / VOLUME LII NO. 1

## ALAMO ASHRAE PRESIDENT'S MESSAGE

Alamo ASHRAE,

Happy New Year! I hope everyone enjoyed happy holidays!

In December, we had 30 attendees at the Holiday Social at Aldino's. There were even 7 Alamo Chapter Past Presidents in attendance! A special thank you to our speaker, her presentation on the History of Christmas in Texas had many very interesting facts! I believe a nice evening was had by all that attended.

This month, the first Alamo ASHRAE chapter meeting of 2012 is Tues. Jan. 17<sup>th</sup> at 11:30am at Oak Hills Country Club. The topic is VFD Drive Theory presented by Bobby Richard from Yaskawa. In addition, the 2012 ASHRAE Winter Conference & AHR Expo will take place right around the corner, January 21-25, in Chicago!

Looking ahead, the ASHRAE Region VIII Chapter Regional Conference (CRC) will be April 26-28 in Tulsa, OK. And perhaps most important of all – the 2012 Alamo ASHRAE Golf Tournament will be Fri. March 30 at the Republic Golf Club. It's a great way to get your company's name out there as well as contributing to making this year's event a great success!

See you at the upcoming January meeting!

Sincerely,

Jennifer King, PE, LEED AP  
2011-2012 Alamo ASHRAE President



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# ALAMO ASHRAE MEETING NOTICE



## MEETING INFORMATION:

**Speaker :** Adam Richie, P.E.

**"Risks in Engineering, Today"**

Tuesday - February 21, 2012  
11:30 am—1:00 pm

Oak Hills Country Club  
5403 Fredericksburg Road

Cost: \$25.00 with reservation / \$30.00 without  
\*Vegetarian available by prior request

Please **RSVP** to [Rezaur@esaengineers.net](mailto:Rezaur@esaengineers.net)  
by the Monday before each meeting

**Presentation Overview:** Adam Richie, P.E. will present on the political, liability, litigation, and fiscal risks that engineers are facing in today's construction market...



Adam Richie, P.E., Attorney-at-Law with Coats|Rose, will discuss some of the key risks that engineers face in today's practice and explain how recent changes in the law are impacting the practice of engineering.

Adam's work is concentrated primarily in construction-related legal matters involving transactions and litigation. He represents design professionals, owners, general contractors, and subcontractors in a variety of construction transactions and disputes. Adam is a licensed mechanical engineer who, prior to becoming an attorney, worked for almost 10 years as a project engineer/project manager for a prominent MEP Engineering Firm in Houston, Texas designing mechanical systems for various types of commercial and institutional facilities."

# ASHRAE TRAINING & PUBLICATIONS ADVERTISEMENT

## ASHRAE Learning Institute 2012 Spring Online Course Series

### 2 WAYS TO REGISTER

**Internet:** [www.ashrae.org/onlinecourses](http://www.ashrae.org/onlinecourses)

**Phone:** Call toll-free at 1-800-527-4723 (US and Canada) or 404-636-8400 (worldwide)

**Note:** You may register up to 24 hours prior to an online course. Courses are in US Eastern Standard Time.



#### District Cooling & Heating Systems

Mon, March 19, 2012 – 1:00 pm to 4:00 pm ET

#### Basics of Combined Heat & Power

Wed, March 21, 2012 – 1:00 pm to 4:00 pm ET

#### Evaluating the Performance of LEED®-Certified Buildings

Wed, March 28, 2012 – 1:00 pm to 4:00 pm ET

#### Commissioning Process & Guideline 0

Wed, April 4, 2012 – 1:00 pm to 4:00 pm ET

#### \* Complying with Standard 90.1-2010: HVAC/Mechanical

Mon, April 9, 2012 – 1:00 pm to 4:00 pm ET

#### \* Complying with Standard 90.1-2010: Envelope/Lighting

Wed, April 11, 2012 – 1:00 pm to 4:00 pm ET

\* Take both Standard 90.1 courses and save 20% on the price of these courses



The following courses are comprised of two parts. Registrants must attend both parts in order to receive CEU/PDH credits. Archiving is available.

#### Humidity Control: Principles and Applications – Part 1

Mon, March 26, 2012 – 1:00 pm to 4:00 pm ET

#### Humidity Control: Principles and Applications – Part 2

Mon, April 2, 2012 – 1:00 pm to 4:00 pm ET

#### Implementing ASHRAE Standard 189.1-2009 – Part 1

Mon, April 16, 2012 – 1:00 pm to 4:00 pm ET

#### Implementing ASHRAE Standard 189.1-2009 – Part 2

Thurs, April 19, 2012 – 1:00 pm to 4:00 pm ET

#### Integrated Building Design – Part 1

Mon, April 23, 2012 – 1:00 pm to 4:00 pm ET

#### Integrated Building Design – Part 2

Wed, April 25, 2012 – 1:00 pm to 4:00 pm ET

## ASHRAE HVAC Design Workshops

2 Workshops, 5 Days of Intense Instruction

May 21-25, 2012 • ASHRAE Foundation Learning Center • Atlanta, GA

### HVAC Design: Level I – Essentials

May 21-23, 2012

ASHRAE's HVAC Design: Level I - Essentials workshop provides intensive, practical education for designers and others involved in delivery of HVAC services. Developed by industry-leading professionals, the workshop provides participants with training design to accelerate their evolution into effective member on a design, construction or facilities maintenance team. Gain the fundamentals and technical aspects to design, install and maintain HVAC systems.

### HVAC Design: Level II – Applications

May 24-25, 2012

ASHRAE's HVAC Design: Level II - Applications workshop provides advanced instruction on HVAC system designs for experienced HVAC designers or those who completed the HVAC Design: Level I Essentials workshop. Gain an understanding of system design incorporating the application of Standards 55, 62.1, 90.1 and 189.1.

### Creating Effective, Highly Skilled Engineering Team Members

- Gain knowledge to make immediate contributions to design projects
- Participate in in-depth, practice-focused training
- Learn from industry leaders selected by ASHRAE
- Receive free bonus resources valued at over \$200

Attendees of the HVAC Design Workshops can earn continuing education credits. Contact the relevant governing body for more information.



Visit [www.ashrae.org/hvacdesign](http://www.ashrae.org/hvacdesign) to register

## ASHRAE Certification Programs

- Building Energy Assessment Professional (BEAP)
- Building Energy Modeling Professional (BEMP)
- Commissioning Process Management Professional (CPMP)
- Healthcare Facility Design Professional (HFDP)
- High-Performance Building Design Professional (HBDP)
- Operations & Performance Management Professional (OPMP)

For more info, visit  
[www.ashrae.org/certification](http://www.ashrae.org/certification)



## OFFICER'S DIRECTORY—LOCAL CHAPTER

### Officers

#### President

Jennifer King, PE, LEED AP  
210-446-4319  
[jennifer.king@merrick.com](mailto:jennifer.king@merrick.com)

#### President-Elect

Rocky Ormand  
210-499-0004  
[rockyo@texasairsystems.com](mailto:rockyo@texasairsystems.com)

#### Secretary

Rey Gutierrez, EIT, LEED AP  
210-363-1416  
[RGutierrez@HMG-associates.com](mailto:RGutierrez@HMG-associates.com)

#### Treasurer

Shannon Novak  
210-658-0900  
[Shannon.Novak@alctexas.com](mailto:Shannon.Novak@alctexas.com)

### Board of Governors

Brian Allerheiligen, PE, LEED AP  
210-841-2865  
[brian.allerheiligen@hdrinc.com](mailto:brian.allerheiligen@hdrinc.com)

Todd Buck  
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Sharon Roberts  
210-925-2298  
[sharon.roberts.3.ctr@us.af.mil](mailto:sharon.roberts.3.ctr@us.af.mil)

### Committee Chairs

#### Attendance

Rezaur Rahman  
210-342-3483  
[rezaur@esaengineers.net](mailto:rezaur@esaengineers.net)

#### Honors & Awards

Paul Naizer  
210.416.1455  
[paulna@htseng.com](mailto:paulna@htseng.com)

#### Chapter Technology Transfer

Brad Gilbert  
210-516-1704  
[brad.gilbert@trane.com](mailto:brad.gilbert@trane.com)

#### Historian

Manuel Lizcano, PE  
210-732-4440  
[MFLizcano@lceinc.net](mailto:MFLizcano@lceinc.net)

#### Membership Promotion

Golda Weir, EIT, CEM  
210-335-6708  
[gweir@bexar.org](mailto:gweir@bexar.org)

#### Refrigeration Chair

Raul Garcia  
(512) 250-0966  
[raul.garcia@engineeredair.com](mailto:raul.garcia@engineeredair.com)

#### Sustainability Chair

J. Woody Thompson  
(210) 301-4819  
[Woody.Thompson@rsandh.com](mailto:Woody.Thompson@rsandh.com)

#### Newsletter Editor

Aaron Caldwell  
210-516-1784  
[Aaron.Caldwell@trane.com](mailto:Aaron.Caldwell@trane.com)

#### Research Promotion

Mike Voyten  
210-650-9005  
[mikev@mechreps.com](mailto:mikev@mechreps.com)

#### Wes Weissgarber

210-650-9005  
[wesw@mechreps.com](mailto:wesw@mechreps.com)

#### Student Activities

Mario Mijangos  
210-599-6120  
[mmijangos@brandteng.com](mailto:mmijangos@brandteng.com)

#### Website Editor

Matt Koch, PE, PhD  
830-446-1839  
[mattkoch@scitex.us](mailto:mattkoch@scitex.us)

#### YEA—Young Engineers

Stillman Jordan III, EIT  
210-841-2913  
[Stillman.jordan@hdrinc.com](mailto:Stillman.jordan@hdrinc.com)

#### 2012 Annual Meeting chair

Fred Gleeson  
210-496-3100  
[Fred.Gleeson@eeiengineers.com](mailto:Fred.Gleeson@eeiengineers.com)

CPS Energy Rebate Program Update—Bob Nelson

NOVEMBER 15, 2011

Alison Gragg  
Brad Bright  
Bill Crook  
Brad Gilbert  
Bob Nelson  
Bill Wurzbach  
Chip Drewry  
Chris Ivey  
Clifford Tilbury

Don Barker  
Dennis Dalsing  
Dan Nesman  
Emanuel Silva  
Gregg Mrzлак  
Joe Brooks  
John Freund  
John Faultersack  
John Fowler  
Jennifer King

Jeff Neumann  
Jesse Olvera  
Jeff Tabb  
Ken Graham  
Matthew Freund  
Manuel Lizcano,  
Mike Lawlor  
Mike Layman  
Mark Pickett  
Mike Voyten  
Paul Deltz

Paul Naizer  
Phillip Preston  
Rene Colunga  
Richard De La  
Cruz  
Robert Hambright  
Raj Kapoor  
Rick McHugh  
Rocky Ormand  
Rezaur Rahman  
Shannon Novak

Steve Richey  
Stillman Jordan  
Todd Buck  
Thomas  
McLaughlin  
Todd Sparrow  
Wes Weissgarber

# BOARD OF GOVERNORS MEETING MINUTES—JANUARY 10, 2012



January 10, 2012 -- 5:30 PM – Merrick & Company

Presiding Officer: Jennifer King

## CALL TO ORDER

ROLL CALL-JK, RO, PN, BG, MM, TI

## OFFICER & CHAIR REPORTS

Treasurer – Shannon N

Financial Report – Send to Aaron C  
for newsletter

Holiday social-\$1,100 cost, \$1,000  
income, net \$100 spent

CTTC – Brad G

Meeting Speakers/Topics update  
Jan. speaker-VFD Theory sponsored  
by Mechanical Reps  
Meetings for year booked  
Sponsors needed

RP – Mike V / Wes W

Present more ASHRAE donors at Jan.  
mtg  
Poker Night 2012 – Pick Feb. date

Student Activities – Mario M

Advertised local scholarships  
Deadline 1/27/12  
Vote for winner(s) at Feb. BOG mtg  
Students to attend Feb. mtg.

Webmaster – Matt K

Comments from BOG?  
Resend Region VIII links to BOG

Honors/Awards – Paul N

Awards: Reviewing and formulating a  
plan

Newsletter – Aaron C

Combined Dec/Jan “Winter edi-  
tion” newsletter

**Deadline for additional sub-  
missions to Dec/Jan news-  
letter:**

**Fri. Jan. 13 @ noon**

Copy all RVC's on monthly newsletter

2012 Summer Mtg – Fred G

Update  
Rolling right along!  
Solicitation for session monitors soon

## OTHER BUSINESS

COSA Consolidated Appeals Board – Rocky O

Nomination-Private discussions to be  
made

Presidential Award of Excellence (PAOE)

Call/email RVCs to update

[www.ashrae.org](http://www.ashrae.org) => Member Login => Secure Chapter  
Activity => PAOE =>

Update PAOE Chapter Totals  
Notify Jennifer King if you attend winter  
meeting , gives us PAOE points

## ADJOURN

## TREASURER'S FINANCIAL REPORT



Treasurer's Report- As reported by Shannon Novak (Current as of 12/12/2011)	
Checking:	\$ 12,576.18
Money Market:	\$ 8,116.86
Petty Cash:	\$ 200.00
<b>TOTAL ASSETS:</b>	<b>\$ 20,893.04</b>

## UPCOMING ALAMO ASHRAE EVENTS

Date	Topic	Speaker	Sponsor
Feb. 21, 2012	Common Risks and Liabilities in the Field of Engineering	Adam Richie	<b>Texas AirSys-tems</b>
Mar. 20, 2012	Extreme Event Engineering – IBC Seismic/Wind Req. and Risks	Lawrence Turner	Open
Apr. 17, 2012	Thermal Storage	Mark MacCracken** (distinguished lecturer)	<b>Trane</b>
May 15, 2012	Refrigeration Updates	Steven Schmidt	Open
June 19, 2012	Ethics	(Special Guest)	Open

## WOULD YOU LIKE TO SPONSOR AN ALAMO ASHRAE MEETING / EVENT?

1. Review the presentations that are being provided at [www.alamoashrae.org](http://www.alamoashrae.org).
2. Find a topic you are interested in sponsoring.
3. Contact Brad Gilbert (brad.gilbert@trane.com) to reserve your sponsorship.
4. Be recognized by Alamo ASHRAE as a sponsor!
5. By doing so, you are supporting your local Alamo ASHRAE chapter in delivering quality information for the entire chapter.

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### Truthful HVAC Joke of the day:

Q: Why is a drunken fortune teller like an air conditioner?

A: Both are called "high SEER." Haha.



In the HVAC&R industry, economizers are used to reduce heating and cooling costs. The ASHRAE scholarship program also serves as an economizer, helping reduce the financial burdens of obtaining your engineering education. Without you, the future leaders of the HVAC&R industry, we at ASHRAE wouldn't be able to do what we do. So through our scholarship program, we aim to help you do what *you* do—learn.

ASHRAE has awarded nearly 200 scholarships during the past 20 years totaling more than \$1 million. Nearly \$80,000 in scholarships is available for the 2012–13 academic year. Applications are now being accepted for ASHRAE's 2012–2013 undergraduate engineering, regional and university specific scholarships.

[www.ashrae.org/scholarships](http://www.ashrae.org/scholarships)



"ASHRAE's scholarship has helped me cover my tuition expenses and materials, giving me the opportunity to satisfactorily fulfill my undergraduate degree. Not only has the help been economical, but it also helped me develop a genuine interest in this field. With this aid, I only have to focus on being well prepared so I can become a change agent within the HVAC&R industry. For these reasons I'm extremely grateful to ASHRAE and hope they'll continue supporting future engineers."

*Jacob Vazquez, ITESM (Instituto Tecnológico y de Estudios Superiores de Monterrey) (Mexico), Region VIII Scholarship*



"The Reuben Trane scholarship has solidified my involvement in the HVAC industry and has been instrumental in financing my education. It has opened doors for me to further integrate ASHRAE into my educational experience. As well, it has sparked the creation of the first McMaster University ASHRAE Student Branch, bringing my education even closer to the tremendous support and resources available through the ASHRAE network. I look forward to a long career in the HVAC industry."

*Benjamin Oliver, McMaster University (Canada), Mechanical Engineering and management, Reuben Trane Scholarship*

## Application deadlines

**Dec. 1, 2011**—undergraduate engineering, regional and university-specific scholarships

**May 1, 2012**—undergraduate engineering technology scholarships and high school seniors scholarships



Other great resources to help you in engineering your future can be found at the [ASHRAE StudentZone](http://www.ashrae.org/StudentZone)



# Easy Being Green

## January 2012

### ASHRAE – ALAMO CHAPTER SUSTAINABILITY ARTICLE:

#### Standard 189.1

#### Standard for the Design of High-Performance, Green Buildings

#### Except Low-Rise Residential Buildings

Standard 189.1 provides a “total building sustainability package” for those who strive to design, build and operate green buildings. From site location to energy use to recycling, this standard sets the foundation for green buildings by addressing site sustainability, water use efficiency, energy efficiency, indoor environmental quality, and the building’s impact on the atmosphere, materials and resources. Standard 189.1 serves as a jurisdictional compliance option to the Public Version 2.0 of the International Green Construction Code™ (IgCC) published by the International Code Council. The IgCC regulates construction of new and remodeled commercial buildings.

The environmental impact of the building design, construction and operations industry is enormous. Development frequently alters land from natural, biologically diverse habitats to hardscape that is impervious and devoid of biodiversity. Buildings in the United States are responsible for 39% of CO<sub>2</sub> emissions, 40% of energy consumption, 13% water consumption, and 15% of GDP per year, making green building a source of significant environmental opportunity.

The purpose of 189.1 is to provide minimum requirements for the siting, design, construction and plan for operation of high-performance green buildings. The goal is to balance environmental responsibility, resource efficiency, occupant comfort and wellbeing, and community sensitivity. It is also to support the goal of development that meets the needs of the present without compromising the ability of future generations to meet their own needs. The scope of this standard is to provide minimum criteria that applies to new buildings, new portions of buildings, and new systems, in existing buildings. This criteria also

addresses site sustainability, water use efficiency, energy efficiency, indoor environmental quality (IEQ), and the building’s impact on the atmosphere, materials, and resources.

The standard is not a design guide or a rating system, though it is hoped that organizations responsible for the development of voluntary building rating systems will integrate this standard into their rating programs. Green building rating systems have been developed for implementation as a voluntary system and not to be implemented as mandatory requirements within a jurisdiction. They often provide a limited number of pre-requisites with many optional credits to allow focus on the green building aspects most important to the user of the system. Standard 189.1 is primarily based on the mandatory requirements (with some elements allowing a choice between a prescriptive or performance options for compliance) that establish baseline criteria for a high-performance green building found in voluntary rating systems. Also, because Standard 189.1 is a code-intended standard, it references documents that are in normative language, meaning those documents are not just for informative purposes but are required for compliance with the standard.

Standard 189.1 requires that each building project be designed to be ready for renewable energy in the future. The prescriptive energy path also normally requires a certain amount of annual energy to be provided by on-site renewable energy systems. This requirement is a small increment but a necessary start toward the goal of net-zero-energy buildings that has been endorsed by ASHRAE and the co-sponsors.

-Woody Thompson



"Sustaining ASHRAE Through Leadership"\*



Manuel F. Lizcano, Historian

### PAST PRESEDENTS

Jennifer King P.E, The Alamo Chapter's Second woman president, presiding in the 2011-2012 year welcomes Christopher Garcia to broaden the shoulders of the past presidents of the Alamo Chapter.

### CHAPTER CHARTER MEMBERS

Adolph Rummell  
Bob Kotzebue, Sr.

Robert P. Cotter  
John H. Moltz, Jr.  
J.Y. DeShong

George Rhine  
Kurt Monier

### PAST PRESIDENTS

1946 - 1947	F. C. Benham, Jr.	1978 - 1979	Don Holland
1947 - 1948	F. C. Benham, Jr.	1979 - 1980	Tom Poelma
1948 - 1949	George Rhine	1980 - 1981	Joe Rohats
1949 - 1950	George Rhine	1981 - 1982	Don Read
1950 - 1951	L. S. Pawkett	1982 - 1983	Billy Stigent
1951 - 1952	I. W. Wilke	1983 - 1984	Manuel F. Lizcano
1952 - 1953	Wayne Long	1984 - 1985	Paul Deltz
1953 - 1954	Dave Locher	1985 - 1986	Mike Lawlor
1954 - 1955	Louis Hornor	1986 - 1987	Louis Mosel
1955 - 1956	Frank Frazee	1987 - 1988	Lyle Johnson
1956 - 1957	Boone Crisp	1988 - 1989	Roger Ford
1957 - 1958	Boone Crisp	1989 - 1990	Dale Ball
1958 - 1959	John Ford	1990 - 1991	Jim Rodriguez
1959 - 1960	Kurt Monier	1991 - 1992	Steve Huck
1960 - 1961	G. M. Baker / Ed Cravens	1992 - 1993	Dick Grant
1961 - 1962	Martin Staley	1993 - 1994	Martha Williams
1962 - 1963	E. R. Whitman	1994 - 1995	Bill Rodriguez
1963 - 1964	Dave Kern	1995 - 1996	Tom Bonin
1964 - 1965	Doyle Adams	1996 - 1997	Richard Tarrillion
1965 - 1966	Oscar Schuchart	1997 - 1998	Mike Layman
1966 - 1967	Ray Marshall / Bill Moore	1998 - 1999	Bob Gleeson
1967 - 1968	Bill Moore	1999 - 2000	Bill Hays
1968 - 1969	Luke Sommerville	2000 - 2001	Ken Graham
1969 - 1970	Sam Paschal	2001 - 2002	Hector Carrisalez
1970 - 1971	Bob Kotzebue	2002 - 2003	Stu Werner
1971 - 1972	Frank Hogan	2003 - 2004	Brad Bright
1972 - 1973	Jon Ford	2004 - 2005	Fred Gleeson
1973 - 1974	R.J. Cotter	2005 - 2006	Mark Pickett
1974 - 1975	Bob Barry	2006 - 2007	Travis McLeod
1975 - 1976	Bill Allen	2007 - 2008	James Drewry
1976 - 1977	Howard Decker	2008 - 2009	Al Garza
1977 - 1978	Kenton Hammond	2009 - 2010	Gene Rannes
		2010 - 2011	Christopher Garcia

The Rest is History

Credits

"Sustaining ASHRAE Through Leadership" ASHRAE President Lynn Ronald E. Jarnagin's theme for 20011-12



# 2012 ASHRAE CRC ANNOUNCEMENT



2012 CRC  
Region VIII  
Tulsa, OK

2012 ASHRAE  
Region VIII CRC

April 26th—28th, 2012

Tulsa, Oklahoma  
DoubleTree @ Warren Place

The NEOK Chapter is looking forward to hosting the Region VIII CRC in 2012. It will be April 26th –28th at the beautiful suburban DoubleTree @ Warren Place.

Registration website will open in January. So watch your inbox and chapter newsletter for more information.

In addition to the regional training and business sessions, we have planned some great Technical Sessions for Friday afternoon.

**2:00 PM Speaker: David Farthing**

**Adjunct Professor at Oklahoma State University**

**Topic: Controlling NO<sub>x</sub> Emissions from Boilers**

**3:30 PM Speaker: Dave Knebel,**

**Vice-President of Sales and Technology at AAON, Inc.**

**Topic: Single Zone VAV Systems**

PDH's will be provided

# 2012 ASHRAE CRC AGENDA

## 2012 CRC TENTATIVE AGENDA

### Wednesday, April 25, 2012

4:00 PM – 7:00 PM Registration

3:30 PM – 5:00 PM

6:00 PM – 9:00 PM  
Space Museum

Single Zone VAV Systems

Friday Night Social-Tulsa Air and

### Thursday, April 26, 2012

7:00 AM – 7:30 PM Registration  
7:00 AM – 9:00 AM Breakfast – Hospitality Lounge  
8:30 AM Golfers meet in Hospitality Lounge  
9:00 AM La Fortune Golf Course  
4:00 PM – 5:00 PM Caucus Orientation  
6:00 PM – 9:00 PM Welcome Party-Hotel

### Friday, April 27, 2012

6:30 AM – 5:00 PM Registration  
6:45 AM – 7:45 AM Caucus Breakfast  
7:00 AM – 9:00 AM Breakfast-Hospitality Room  
8:00 AM – 11:45 AM Business meeting  
10:00 AM – 10:15 AM Break during Business Meeting  
12:00 PM – 1:45 PM President's Luncheon  
2:00 PM – 5:00 PM Technical Sessions  
2:00 PM – 3:20 PM Controlling NO<sub>x</sub> Emissions from Boilers

### Saturday, April 28, 2012

7:00 AM – 9:00 AM Breakfast- Hospitality Lounge  
7:30 AM – 12:00 PM Registration  
8:00 AM – 11:45 AM Golden Gavel Committee  
8:00 AM – 9:45 AM Webmaster Workshop  
8:00 AM – 9:45 AM Officers Workshop  
8:00 AM – 9:45 AM Research Promotion Workshop  
8:00 AM – 9:45 AM Communications Judging  
8:00 AM – 9:45 AM Refrigeration Workshop  
9:45 AM – 10:00 AM Break  
10:00 AM – 11:45 AM CTTC Workshop  
10:00 AM – 11:45 AM Student Activities Workshop  
10:00 AM – 11:45 AM Communications Workshop  
10:00 AM – 11:45 AM Membership Workshop  
10:00 AM – 11:45 AM Historian Workshop  
12:00 PM – 1:45 PM Awards Luncheon  
2:00 PM – 3:30 PM Business Meeting  
3:30 PM – 5:00 PM Executive Session  
5:00 PM – 5:45 PM CRC Debrief

## COMPANION ACTIVITIES

### Thursday, April 26

7:00 AM-9:00 AM Continental Breakfast-Hospitality Room  
6:00 PM-10:00 PM Welcome Party at Hotel

### Friday, April 27

7:00 AM-9:00 AM Continental Breakfast-Hospitality Room  
10:30 AM Leave for Sage Culinary Studio  
11:00 AM-1:30 PM Cooking class and lunch at Sage  
2:00 PM-4:00 PM Tour of Philbrook Museum  
6:00 PM-9:00 PM Social at Tulsa Air & Space Museum

### Saturday, April 28

7:00 AM-9:00 AM Continental Breakfast-Hospitality Room  
10:00 AM-11:00 AM Optional Exercise/Walking Class by Fleet Feet  
12:00 PM-1:45 PM Awards Luncheon



## 2012 ASHRAE GOLF TOURNAMENT



### ANNUAL GOLF CLASSIC 2012

Benefitting ASHRAE Research & Scholarships

**FRIDAY – MARCH 30<sup>th</sup>, 2012**



**Location:**

The Republic of Texas Golf Club  
4226 SE Military  
San Antonio, TX 78222

**Format:**

4 Person Scramble  
(2 teams per hole - blind draw)

**Check-in/Breakfast:**

7:00 AM – 8:00 AM

**Tee Off Time:**

8:30 AM Shot Gun Start

**Lunch/Awards Ceremony/Raffle:**

1:00 PM

**Entry Fee:**

\$125 per Player \*

**For more information about the golf tournament,  
Please contact Todd Buck:**

Todd Buck  
C/O Texas Air Products  
11122 Gordon Road  
San Antonio, TX 78216

[tbuck@txap.com](mailto:tbuck@txap.com)  
Phone: 210-678-3018  
Fax: 210-495-8200

## Golf Tournament Entry Information



### Alamo ASHRAE Chapter

## ANNUAL GOLF CLASSIC 2012

Benefitting ASHRAE Research & Scholarships

**FRIDAY – MARCH 30<sup>th</sup>, 2012**



#### Location:

**The Republic of Texas Golf Club**  
4226 SE Military  
San Antonio, TX 78222

#### Format:

**4 Person Scramble**  
(2 teams per hole - blind draw)

#### Check-in/Breakfast:

**7:00 AM – 8:00 AM**

#### Tee Off Time:

**8:30 AM Shot Gun Start**

#### Lunch/Awards Ceremony/Raffle:

**1:00 PM**

#### Entry Fee:

**\$125 per Player \***

Player Name	Company	Phone #	Email
1. _____	_____	_____	_____
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____

\* *Entry fee includes breakfast, lunch, golf, Bubba Watson Drive on #15 and Lee Trevino Tee shot on #17.*

**Paid entries received before March 1<sup>st</sup> will receive a FREE Mulligan for each player!**

Mulligan's after March 1<sup>st</sup> must be purchased with paid entry and will cost \$10 each (Max 1 Mulligan per Player).

- Enter as entire team, partial team, or individual (The golf committee will form teams from partial teams)
- Limited to the first **144** players or **36** teams. Entries are due paid in full by **March 16<sup>th</sup>** to play.
- Make \$125.00 per player entry fee checks payable to: **Alamo ASHRAE Chapter**

Mail entry form with check to: **Todd Buck** [tbuck@txap.com](mailto:tbuck@txap.com)  
C/O Texas Air Products Phone: 210-678-3018  
11122 Gordon Road Fax: 210-495-8200  
San Antonio, TX 78216





## Annual Golf Classic 2012 - Sponsorship Opportunities

**PLATINUM**  
Sponsorship  
\$2,000.00

### One - Platinum Sponsorship Available which includes:

- Sponsorship recognition in the Squirrel Cage ASHRAE Newsletter
- Paid entry for FOUR golfers to the tournament (\$500 value)
- Company logo displayed on the 5'x8' sponsors banner
- Beverage cart sponsorship including two signs on both beverage carts
- Company logo displayed on a 3'x4' Platinum Sponsor banner between clubhouse & driving range
- Flagstick flag with your company logo, which will be presented to you at the awards ceremony

**GOLD**  
Sponsorship  
\$1,000.00

### Six - Gold Sponsorships Available

- Sponsorship recognition in the Squirrel Cage Alamo ASHRAE Newsletter
- Paid entry for FOUR golfers to the tournament (\$500 value)
- Company logo displayed on the 5'x8' sponsors banner
- Company logo displayed on a 24x36 Gold Sponsor sign between clubhouse & driving range
- Flagstick flag with your company logo, which will be presented to you at the awards ceremony

**Staff the Hole**  
Sponsorship  
\$500.00

### Staff the Hole Sponsorships Available

- Sponsorship recognized in the Squirrel Cage Alamo ASHRAE Newsletter
- Company logo displayed on the 5'x8' sponsors banner
- Your company logo displayed on an 18x24 tee box sign
- Flagstick flag with your company logo on the green, which will be presented to you at the awards ceremony
- Give away beverages, cozies, cigars, golf balls, towels, tees, etc
- Contact Republic Golf Club to select beverages or cigars to give away

**Driving Range**  
**Putting Green**  
Sponsorship  
\$300.00

### Five Driving Range / Five Putting Green Sponsorships Available

- Sponsorship recognized in the Squirrel Cage Alamo ASHRAE Newsletter
- Company logo displayed on the 5'x8' sponsors banner
- Your company logo displayed on a 24x36 sign on the driving range or putting green.
- Flagstick flag with your company logo on the driving range or putting green, which will be presented to you at the awards ceremony

**Hole**  
Sponsorship  
\$200.00

### Hole Sponsorships Available which includes

- Sponsorship recognized in the Squirrel Cage Alamo ASHRAE Newsletter
- Company logo displayed on the 5'x8' sponsors banner
- Your company logo displayed on a 18x24 tee box sign
- Flagstick flag with your company logo on the green, which will be presented to you at the awards ceremony



## Annual Golf Classic 2012 - Sponsorship Opportunities



Raffle Prizes  
Give-Away

Donations

### Donate Raffle Prizes or Gifts for All Players

Help make the Raffle a success by donating gifts for all players to enjoy!

- Direct Financial Contributions will be recognized at the Awards Ceremony and in the Squirrel Cage ASHRAE Newsletter.
- Donated raffle prizes to be given at the Awards Ceremony in recognition of your Company!

### 2012 ALAMO ASHRAE Golf Classic Sponsorship

Company Name: \_\_\_\_\_

Please select one of the following:

- ☐ Platinum - \$2,000  
 ☐ Gold - \$1,000  
 ☐ Staff Hole - \$500  
☐ Driving Range - \$300  
 ☐ Putting Green - \$300  
 ☐ Hole - \$200

Contact: \_\_\_\_\_

Phone #: \_\_\_\_\_

Email: \_\_\_\_\_

\* Make Sponsorship checks payable to: Alamo ASHRAE Chapter

\* Mail form with check to:

Todd Buck	tbuck@txap.com
C/O Texas Air Products	Phone: 210-678-3018
11122 Gordon Road	Fax: 210-495-8200
San Antonio, TX 78216	

- Last year's sponsors have until January 31<sup>st</sup> to reserve their same sponsorship level as last year's.
- A sponsor's upgrade wait list will be started on January 1<sup>st</sup>, and filled (if available) February 1<sup>st</sup>, first come, first served.
- A new sponsor's wait list will be started on January 1<sup>st</sup>, first come, first served. Notifications of available sponsorships will be sent out February 1<sup>st</sup>. New sponsors will be required to email an electronic copy (in color if desired, or black will be standard) in eps or pdf format of your Company Logo for print materials. This is due by March 1<sup>st</sup> 2012.
- All sponsorship payments are due by February 28th, 2012.