

The Squirrel Cage —Alamo ASHRAE

ASHRAE - Alamo Chapter #65 **San Antonio, TX** **Issue: October 2013 / Volume LIII No. 9**

Alamo ASHRAE President's Message

Alamo ASHRAE,

"The greatest good you can do for another is not just to share your riches but to reveal to him his own."
-Benjamin Disraeli

I encourage you to find or be a mentor. I encourage you to find or be that "young up and coming mover and shaker" (as one of my mentors once put it). I encourage you to find or be someone with a wealth of knowledge. I encourage you to attend Alamo and Young Engineers in ASHRAE (YEA) meetings and events.

Since taking over as YEA Chair, Chris Delgado has done a great job of organizing speakers and sponsors for at least one **free** YEA event every month. The last meeting at the Marriott Rivercenter included an on the spot, chilled water distribution engineering problem solving session, a walk-thru of the Marriott Rivercenter and Riverwalk Hotels, and included the showcasing of several energy efficiency measures saving approximately 30% in energy consumption. It was mutually beneficial to have a diverse group of varying experience levels. So if you are new to the industry, or are one of the people folks describe as having a "wealth of knowledge," email your contact information to Christopher.Delgado@siemens.com to be added to the monthly YEA email list. If you are looking to sponsor, speak, or have a great meeting idea, please contact Christopher.Delgado@siemens.com as well!

- Fan Wall Presentation; August Meeting, Texas Air Systems Sponsor
- Chilled Water Distribution Systems; September Meeting, Marriot-Sponsored, Scott Cooper- Speaker
- San Antonio Water System Thermal Storage & District Cooling; October 17, Johnson Controls/York, Frank Salazar-Speaker
- UTSA Student Kickoff/Tailgate Party; October 26, 11:00am-3:00pm, Alamodome, Lot C by C1,email Mario Mijangos at mmijangos@brandt-companies.com for details and sponsorship opportunities.
- Boiler System Design; November 18th, Rand Associates, Bob Anderson
- Blue Star Brewery Tour & Refrigeration presentation, December 12

The 2nd Annual Oktoberfest Skeet Shoot was a great success! We had approximately 80+ shooters, a shoot off for the ages, consumed good beer, burgers, and bratwurst. Thank you to all who attended and sponsored.
I look forward to seeing you at future events.
Learn, lead, and have fun!
Sincerely,
Rey Gutierrez
2013-2014 Alamo ASHRAE President

ASHRAE Alamo Chapter

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CORNER OF HISTORY - A LINE OF TIME
WITH: MANUEL LIZCANO, PE
IN THE BEGINNING



In September 1894, a group of seventy-five (75) nationally known engineers, educators and manufacturers gathered in New York and agreed that, "the great art of heating and ventilation deserved and required recognition as an essential, distinctive and highly specialized division of modern engineering". They formed themselves into the nucleus of an organization and they named it "The American Society of Heating and Ventilation Engineers (ASHVE)".

The first meeting was in New York, New York, in January of 1895 wherein the organization was incorporated.

In 1895, the first Annual Transactions were published.

In 1915, the Journal was issued as a quarterly publication.

In 1922, the HV&AC Guide was first published.

In 1937, Dr. F. E. Giesecke leads a dedicated group of Texans to form the Texas Chapter of ASHVE. The Chapter was chartered at College Station with Dr. Giesecke as its first president.

March 26, 1939 South Texas Chapter (Houston) is chartered.

March 27, 1939 North Texas Chapter (Dallas) is chartered.

1940 Dr. Giesecke served as Society President.

July 1944, Dean Woolrich presented the many aspects of quick freezing of various foods for the North Texas Chapter. Dean Woolrich was the dean of the College of Engineering at the University of Texas in Austin.

On October 9, 1946 a meeting was called by a group of ASHVE members in order to make an application for a local chapter. The meeting was held in the Tapestry Room of the St. Anthony Hotel. Dr. F. E. Giesecke was acting chairman. There were 48 members and guests in attendance including:
- Mr. Alfred J. Offner, National President, ASHVE
- Mr. A. V. Hutchinson, National Secretary, ASHVE
- Mr. Dan Mills, 1st Vice Presldent, South Texas Chapter, Houston
- Mr. C. R. Gardner, 1st Vice President, North Texas Chapter, Dallas
- Mr. Bill Way, Board of Governors, South Texas Chapter
- Mr. Lee Gilbert, Past President, North Texas Chapter

Temporary Officers were elected:
- President - F. C. Benham, Jr.
- Vice President - George Rhine
- Secretarv/Treasurer - Bob Kotzebue

The Southwest Texas Chapter of ASHVE was granted for organization on the 13th day of December, 1946, consisting of Austin, San Antonio, Corpus Christi and the Rio Grande Valley. The headquarterswere in San Antonio and meetings were on the 3rd Tuesday of the month with one meeting held in Austin and one in Corpus Christi of each year.

1953 A West Texas Chapter was organized at Lubbock and applied for an ASHVE charter.

In 1955 ASHVE was changed to ASHAE recognizing the influence of Air-Conditioning.

The El Paso group was chartered as the ASHAE 65th in 1956.

IN THE BEGINNING



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In 1956 thirty-three residents, of which only F. Frazee was a member of both ASHAE & ASRE, organized the local Chapter of American Society of Refrigeration Engineers (ASRE) in San Antonio.

The increased number of Chapters had become ineffective due to the large number of chapters and uncommon interests. Chapters Conference Committee was reorganized into Chapters Regional Committee (CRC). The first CRC for our region, then known as Region 6, was held March 19, 1956 at the Hotel Statler Hilton in Dallas, Texas.

On April 9, 1956 the Austin Chapter Charter was approved.

The first joint meeting between Southwest Texas Chapter and the Austin Chapter was held in Austin in July 1956, Austin's charter meeting night.

January 29, 1957 the Fort Worth Chapter is chartered.

In 1959, the national organizations of ASHAE and ASRE merged to form ASHRAE. The merger took a special transitional technique to combine the different fiscal years and the different terms of officers of each organization. Between 1958 and 1962 the Regional Chairman of each organization served jointly extending their terms to achieve an orderly transition so that by July 1962 a normal schedule was attained.

In 1961 the regions were reorganized and Region VIII as we know it came into existence. The first regional meeting under the Old Region 6 was held in Dallas on the 19th of March, 1956 with Dan Mills, Chairman. The last was held in San Antonio on the 9th of May, 1960 with Bill Collins, Chairman. The first CRC under Region VIII was held in Shreveport in April, 1961 with Bill Collins, continuing as Chairman, a position he held until 1963, serving a total of six years as Chairman.

The Southwest Texas Chapter of ASHVE was chartered as the Alamo Chapter of ASHRAE in March 1959. The first joint meeting under ASHRAE between the Alamo Chapter and the Austin Chapter was held that year.

The first edition of the Alamo Chapter's Roster and Directory was issued in November, 1979. A culmination of efforts of the Directory Committee Chairman Charlie Scott, Chairman of the Roster Committee Al Miyasato, CRC Delegate and others to be sure.

It was at the CRC, which was held in Dallas, that the Houston and the Oklahoma Chapters presented their directories which were to germinate the idea for the Alamo Chapter's Roster and Directory. Terry Wallis and Al Miyasato, encouraged by Howard Decker, set forth to publish the 1st edition.

The Alamo Chapter sponsored the formation of the South Texas Chapter, which was chartered on September 26, 1987 with assigned members from the Alamo Chapter and the Houston Chapter. Louis Mosel attended the preorganization meeting in February 1987.

In 1993, the Alamo Chapter hosted the CRC at the Wyndham Hotel.

In 1996, the Alamo Chapter hosted its first ASHRAE annual meeting June 22-26.

In 1997, the Alamo Chapter attended a preorganization meeting for a Monterrey, Mexico Chapter. This meeting was held in Monterrey, Mexico during the first ASHRAE/ARI Exposition to be held in Mexico. The Monterrey, Mexico Section of the Alamo Chapter was announced at the ASHRAE annual meeting in San Francisco in January 1998. The Monterrey Section was approved to become a Chapter at the 1999 Winter Meeting in Chicago. The Monterrey Section officially became a chapter on March 2, 1999.

"Shaping the Next*"

A Corner Of History

Manuel F. Lizcano, Historian

OBITUARY

Malcolm McEachern

Malcolm A. McEachern, age 89, passed away September 23, 2013, in San Antonio. A life resident of San Antonio, Malcolm served God as a member of Abiding Presence Lutheran Church and served his country in the Merchant Marine during World War II. He was a graduate of UT Austin and a Longhorns fan. In 1984 he joined the original group that was responsible for making the Alamodome a reality. Malcolm enjoyed the experience of living in Germany and Saudi Arabia as a result of government job assignments. His last job was with KMNG & Associates. He was preceded in death by his wife, Charlotte. Malcolm is survived by his sons, Malcolm A. McEachern, III, David V. McEachern and Carl McEachern; and their mother, Bonnie McEachern of Omaha, Nebraska.



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Previous Meeting Attendance:

Aaron Caldwell, Alison Gragg, Bill Crook, Brad Gilbert, Bill Wurzbach, Chris Garcia, Chris Delgado, Cowboy McCool, Chris Richardson, Cliff Tilbury, Chris Villasana, Derek Brown, Dick Grant, Diana Glawe, Daniel Seltzer, Eric Johnson, Gerald Lamping, Greg Surfas, John Faultersack, John Freund, Josh Gavos, Jon-Erik Johnson, Jennifer Schmidt, Keener Coon, Kyle Putnam, Paul Deltz, Paul Raabe, Rene Colunga, Rey Gutierrez, Rezaur Rahman, Steve Huck, Steven Gaeta, Steven Richey, Scott Wunsch, Todd Buck, Walter Gleye, Wayne Hachenberg, Wes Weissgarber

OCTOBER 2013 BOARD OF GOVERNORS MEETING MINUTES



ALAMO ASHRAE CHAPTER
SAN ANTONIO, TEXAS
2013- 2014 Planning Meeting Minutes
Sept. 5, 2013 – 12:00 PM – EZ's Brick Oven & Grill
Presiding Officer: Rey Gutierrez

CALL TO ORDER

Roll Call: President Rey Gutierrez E.I.T. , Secretary – Rajendera K. Kapoor P.E., Treasurer : Aaron Caldwell. Governor- Chris Garcia P.E., Governor – Todd Buck, Governor – Aaron Caldwell, CTTC – Brad Gilbert and Thursten Simonson, YEA Chris Delgado, Newsletter Baron Phillips, GGAC Chair- Chris Garcia.

Not in attendance: President Elect – Wess Weissgarber, Governor: Rocky Ormond, MP Dan Torres, RP Dan Seltzer, Student Activities – Mario Mijangos'. Historian – Manuel Lizcano. Webmaster- Matt Koch, Sustainability- Woody Thompson, Refrigeration – Fred Gleeson, Attendance – Rezaur Rahman, Honors & Awards – Madison Bryer

Officer and Chair Report:

Treasurer:
Aaron Caldwell discussed about:
- $15,000 loan from ASHRAE and said how that need to be resolved or carry on. Financial Report was discussed
- Taxes for Alamo ASHRAE chapter are complete.
- Skeet Shoot is on schedule and insurance dues need to be paid.
- Deposit check for skeet shoot was given to the vendor

CTTC – Brad Gilbert and Thursten Simonson
- Meeting Speakers and Topics (deadline October 1, 2013)
- Distinguished Lecturer Two Distinguished Lecturers May and June
- Sponsors First 4 Advantix
- Condensate Research – Trinity
- MBO Discussions were Energy efficient investment, Webcasts, Alamo Draft event and Theater Event (MBO Due October 1, 2013 and Chris Garcia was to submit it)

Membership Promotion – Dan Torres was not present, Rey discussed it on his behalf and included:
- Kick off Party Report
- Call Campaign List (being developed by Dan?? To discuss)
- MBO (Due October 1, 2013)
- Should UTSA Tailgate be used for student promotion,
- Trinity Student chapter?

October 2013 Board Of Governors Meeting Minutes



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RP - Dan Seltzer
- Update on Skeet Shoot
- Update on Golf Tournament
- Call List campaign
- Full Circle
- MOB

Student Activities- Mario Mijangos
- Flyers up at UTSA
- Scholarships

YEA – Chris Delgado
- Upcoming Events included" Marriott Plant tour, SAWS Plant tours. Refrigeration Brewery Plant Tour
- MBO's to be e-mailed.

NewsLetter _ Baron Phillips
- Email MBO's
- E-mail newsletter by EOD 9/9

Grass root Government Activity:
- Raj to send City of San Antonio information for 9/9 newsletter.
- Chris Garcia to provide information of his activities for October newsletter.

ADJOURN



TREASURER'S FINANCIAL REPORT: OCTOBER 2013
CURTOSEY OF AARON CALDWELL







ASHRAE Balance Sheet (2013-2014)

	Current As Of: 10/4/2013
ASSETS	
Current Assets	
Checking/Savings	
Checking	14,430.52
Money Market	8,121.49
Total Checking/Savings	22,552.01
Other Current Assets	
Petty Cash	200.00
Total Other Current Assets	200.00
Total Current Assets	22,752.01

ASHRAE News

ASHRAE PRESS RELEASE—ANNOUNCEMENT

For Release:
Sept. 26, 2013

Contact: Jodi Scott
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ASHRAE/IES Publish First Standard Focused on Commissioning Process

ATLANTA – A newly published standard focused on the commissioning process will help ensure a fully functional, fine-tuned facility.

ANSI/ASHRAE/IES Standard 202, *Commissioning Process for Buildings and Systems*, identifies the minimum acceptable commissioning process for buildings and systems as described in ASHRAE's Guideline 0-2005, *The Commissioning Process*. Standard 202 is ASHRAE's first standard focused on the commissioning process. The commissioning process as detailed in Standard 202 applies to all construction projects and systems and is an industry consensus document.

"Given the integration and interdependency of facility systems, a performance deficiency in one system can result in less than optimal performance by other systems," Gerald Kettler, P.E., chair of the committee that wrote the standard, said. "Implementing the Commissioning Process is intended to reduce the project capital cost through the warranty period and also reduce the life-cycle cost of the facility. Using this integrated process results in a fully functional, fine-tuned facility, with complete documentation of its systems and assemblies and trained operations and maintenance personnel."

The commissioning process assumes that owners, programmers, designers, contractors and operations and maintenance entities are fully accountable for the quality of their work. The process begins at project inception and continues for the life of a facility.

The process includes specific tasks to be conducted to verify that design, construction, verification, testing, documentation and training meet the owner's project requirements, according to Kettler.

The standard defines the commissioning process through 13 functional steps, each of which contains deliverables. The commissioning activities and deliverable are as follows:

- Initiate the Commissioning Process, including defining roles and responsibilities

ASHRAE News

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- Define the project requirements, which results in the Owner's Project Requirements (OPR) document
- Develop commissioning plan – produces a written Commissioning Process Plan
- Plan design approach to Owners Project Requirements – defines the basis of design
- Set contractor commissioning requirement, which are included in the commissioning specifications
- Design review by the commissioning authority provides feedback and a design review report
- Submittals review verifies compliance with the OPR in a submittal review report
- Observation & Testing verifies system performance with results documented in construction checklists and reports
- Issues resolution coordination is done with an issues and resolution log
- Systems manual assembly results in a systems manual for building operation
- Conduct training for building operations with training plans and records
- Post occupancy operation commissioning provides an end of warranty commissioning report
- Assembly of a commissioning report captures all the project commissioning documentation
-

Other commissioning guidance from ASHRAE includes Guideline 0-2005, *The Commissioning Process;* Guideline 1.1-2007, *HVAC&R Technical Requirements for the Commissioning Process*; and Guideline 1.5-2012, *The Commissioning Process for Smoke Control Systems.*

ASHRAE also is working on several other guidelines related to commissioning: Guideline 0.2P, *The Commissioning Process for Existing Systems and Assemblies*; Guideline 1.2P, *The Commissioning Process for Existing HVAC&R Systems*; Guideline 1.3P, *Building Operation and Maintenance Training for the HVAC&R Commissioning Process*; and Guideline 1.4P, *Procedures for Preparing Facility Systems Manuals*.

The cost of ANSI/ASHRAE/IES Standard 202-2013, *Commissioning Process for Buildings and Systems*, is $72 ($61, 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 News

ASHRAE PRESS RELEASE—ANNOUNCEMENT

For Release:
Sept. 23, 2013

Contact: Amanda Dean
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Industry Reaps the Benefits of ASHRAE Scholarships

ATLANTA—"The ASHRAE scholarship program is making a difference in the lives of the outstanding students that it touches."

That's according to David Meredith, chair of the ASHRAE Scholarship Trustees on awarding $106,000 in scholarship money for the 2013-2014 academic year.

"When I look at the global leadership that past scholarship recipients have demonstrated throughout their professional career, I am proud of what the ASHRAE Scholarship Program has been able to accomplish," Meredith said. "I can't wait to see how this year's recipients help shape our future."

The recipients of ASHRAE's scholarship assistance include the following:

- **Reuben Trane Scholarship:** $10,000 to be awarded over two years, Richard Melo, Wentworth Institute of Technology, mechanical engineering. The scholarship was established by the Trane Co. in memory of its founder, an innovative engineer, inventor and business executive.

- **Willis H. Carrier Scholarships:** $10,000 for one year, Breeann Foran, Montana State University, mechanical engineering; and Nicholas Rekstad, Pennsylvania State University, architectural engineering. The scholarship was established by the Carrier Corp. in memory of its founder, who installed the world's first scientifically designed air-conditioning system.

- **Lynn G. Bellenger Engineering Scholarship:** $5,000 for one year, Tiffany Williams, North Carolina A&T State University, architectural engineering. The scholarship, which is being awarded for the first time this year, recognizes a female undergraduate engineering student. It is named in memory of the Presidential Member Lynn G. Bellenger, the Society's first female president.

- **Frank M. Coda Scholarship:** $5,000 for one year, Travis Norris, East Carolina University, mechanical engineering. The scholarship was created in memory of ASHRAE's former executive vice president, who served from 1981-2004.

- **David C.J. Peters Scholarship:** $5,000 for one year, Mei Yung Wong, Oklahoma State University, mechanical engineering. The scholarship is awarded to a third-year student in a four-year undergraduate mechanical engineering program or a fourth-year student in a five-year undergraduate mechanical engineering program at Pennsylvania State University, Virginia Tech, California State University, Oklahoma State University, University of Texas, Clemson University, North Carolina State University, University of Nebraska, Cal Poly State University and University of Nevada. The scholarship was created by Southland Industries to honor Peters, an advocate of recruiting quality.

- **General Scholarships:** $5,000 for one year, Mitchell Hoesing, South Dakota State University, mechanical engineering; and Peter Kohler, University of North Carolina, mechanical engineering.

- **Memorial Scholarship:** $5,000 for one year, Nathan Stoltzfus, Ohio State University, agricultural engineering.

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The following awards provide one-year $3,000 scholarships:

- **Lynn G. Bellenger Engineering Technology Scholarship:** Sara Piekunka, Rochester Institute of Technology, mechanical engineering technology. The scholarship recognizes female engineering technology students and is named in memory of Presidential Member Bellenger. This is the first year that the scholarship is being awarded

- **Region III Boggarm S. Setty Scholarship:** Hunter Bachman, University of Delaware, mechanical engineering. This scholarship is awarded to an undergraduate engineering student attending an institution within ASHRAE Region III, which covers Delaware, Maryland, Pennsylvania, Virginia and Washington, D.C., and is named after Boggram Setty, Fellow ASHRAE, Life Member.

- **Duane Hanson Scholarship:** Kim Rogers, Kettering University, mechanical engineering. The scholarship was established by Gayner Engineers and is named for the company's former president.

- **Alwin B. Newton Scholarship:** Man Sze Chan, The University of Hong Kong, building services engineering. The scholarship is named for an industry pioneer and ASHRAE Fellow who was granted 219 patents.

- **Henry Adams Scholarship:** Mahmoud Mohammed, University of Illinois, mechanical engineering. The scholarship was established by Henry Adams, Inc. in memory of its founder, a Charter Member and sixth president of ASHRAE'S predecessor society, ASHVE, established in 1899.

- **Region VIII Scholarship:** Gaizka Lasa, University of Oklahoma, industrial engineering. The scholarship is awarded to students attending schools within the geographic boundaries of ASHRAE Region VIII, which includes Arkansas, Oklahoma, Mexico and parts of Louisiana and Texas.

- **Donald E. Nichols Scholarship:** Anthony Taylor, Tennessee Technological University, mechanical engineering. The scholarship is awarded to an undergraduate engineering student attending Tennessee Technological University. It is named for a former ASHRAE vice president and graduate of Tennessee Technological University.

- **Bachelor of Engineering Technology Scholarship:** Yoginder Rana, Ferris State University, HVAC&R technology.

- **Associate of Engineering Technology Scholarship:** Cody Bomers, Grand Rapids Community College, HVAC&R Technology.

- **High School Senior Scholarships:** Elizabeth Lynch, Iowa State University, engineering; Jacquelyn Sommers, Kansas State University, architectural engineering; Joshua Roper, University of Wisconsin, mechanical engineering; and Kali Rosendo, Massachusetts Institute of Technology, environmental engineering. The scholarships were established in 2010 for high school seniors entering their freshman year of college in an engineering or engineering technology program.

Over the course of 24 years ASHRAE has awarded over $1.3 million to approximately 275 deserving undergraduate and graduate students. For more information on ASHRAE scholarships, visit www.ashrae.org/scholarships. Applications are now being accepted for the 2014-15 undergraduate, regional/chapter and university-specific scholarships. The deadline is Dec. 1, 2013.

ASHRAE News

ASHRAE PRESS RELEASE—ANNOUNCEMENT

For Release:
Sept. 18, 2013
Contact: Jodi Scott
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ASHRAE Seeks Presenters, Posters for HPB 2014 Conference

ATLANTA – Presenters and posters are being sought for ASHRAE's High Performance Buildings Conference will take place April 7-8, 2014, Hyatt Fisherman's Wharf, San Francisco, Calif.

Abstracts for presentations are due Oct. 25, 2013, while poster PDFs are due Feb. 21, 2014. Additional information can be found at www.hpbmagazine.org/hpb2014.

The Conference program will have a mix of invited speakers and a call for presenters. In addition, there will be a poster session on "Measured Building Performance" and "Modeled Building Performance."

"We would like to see a balance of presentations showing innovation, proven methods for improving building operation resulting in deep energy efficiency and indoor environmental quality, measured performance and HPB case studies demonstrating new technologies," Kent Peterson, conference chair, said. "We are seeking posters of designed or built buildings that balance high performance building attributes of energy efficiency, water savings and indoor environmental quality."

Building upon the 2012 High Performance Buildings Conference and 2009 Net-Zero Energy Conference, the conference seeks to advance the industry's efforts to accomplish a true high-performance built environment.

The conference topics provide a comprehensive overview of high performance building design with a focus on strategies in several areas, Peterson said. New subject areas include water efficiency, building occupant behavior, new building technologies and indoor environmental quality. In addition, there is increased emphasis on lighting/daylighting and the building envelope.

Presentations and Posters are being sought for the following tracks:

- Building Envelope
- Building Occupant Behavior
- Building Performance Modeling
- Building Performance Measurement
- Case Studies and Lesson Learned
- Daylighting
- Indoor Environmental Quality Strategies
- Low Energy Techniques
- Market Value (Return on Investment)
- New Building Technologies
- Operating for High Performance
- Plug Load Reduction Strategies
- Policy/Benchmarking
- Water Efficiency Strategies

The conference is being presented by ASHRAE's High Performing Buildings magazine, the industry's premier source for measured performance of practices and technologies to promote better buildings.

Thank you all for coming out to the Alamo ASHRAE Skeet Shoot!













Alamo ASHRAE Skeet Shoot Individual Results:

Shooter	Score
Mosel, Kurt	47
Gleeson, Fred	47
Bellm, Jim	46
McManus, Zach	44
Tuttle, Frank	44
Archer, Stephen	43
Fisher, Chad	43
Fuest, Mike	43
Gray, Ben	43
Reeves, Doug	42
Javior, Matt	41
Aguilar, Gabe	41
Bautista, Robert	41
Robisheaux, Bobby	41
Wunsch, Scott	41
Freund, Garrett	40
Ormand, Rocky	40
McBride, Richard	39
Wunsch, Troy	39
Wurzbach, John	39
Grothues, John	38
Phillips, Hayden	38
Schuetz, Cliff	37
Tschirhart, Steve	37
Drewry, Justin	36
Liljenwall, Ted	36
Schultz, Darren	36
Vohwinkle, Ian	36
Cocker, Thomas	35
Tabor, Tommy	35
Fogg, Steve	34
Knudtson, Brody	34
Raames. Geme	34
Vaughn, George	34
Watson, Thomas	34

Shooter	Score
Welker, Ernie	34
Cook, John	33
Fauver, Mike	33
Nielson, Bob	33
Teeter, John	33
Hagendorf, Darrel	32
Hwang, Tae	32
Parsell, Daniel	32
Norman, Jim	31
Rodriguez, Anthony	31
Cross, Cameron	29
Koerth, Taylor	29
Simmons, Justin	29
Wurzbach, Jessica	28
Freund, John	27
Gutierrez, Rey	27
Johnson, Neil	27
Sartain, Preston	27
Schrader, Bob	27
Wurzbach, Andrea	27
Gudino, Rey	26
Large, Steve	26
Windler, Bill	26
Jeitani, Toni	25
Patterson, Mitch	25
Brown, Gerek	24
Freund, Sam	24
Wurzbach, Bill	24
Murphy, Ryan	23
Wurzbach, Clint	23
Hernandez, Eric	22
Ortiz, James	22
Garcia, Rudy	21
Lewis, Jeff	21
Villasana, Chris	21

Shooter	Score
Hayes, Mike	20
Armstrong, Jamie	19
Hira, AnJulie	17
Ortiz, Jesse	16
Lipe, Steven	6
Pfahning, Kevin	5
Wurzbach, Nicole	5