

The Comfort Chronicle

American Society of Heating, Refrigerating and Air Conditioning Engineers, Inc.
East Texas Chapter #091, Region VIII

Volume XXVII, Issue III, February 2008

www.ashrae-etex.org

HVAC Coil Manufacturing in East Texas

Don Schuster

Have you ever noticed all the HVAC manufacturing in East Texas? In addition to both the OEMs Trane and Carrier, there's Aeon and a multitude of coil manufacturers. This question has nagged the author for years. Suspicions were that they were established to support or sprung from the OEMs located in Tyler and East Texas. Digging into it, there are some common threads among them...

It turns out; coil manufacturing began with Triangle Boat Works and Manufacturing in the 1960's. W.J. (Joe) Dacus started the company in Houston and moved it to Jacksonville in the late 1960's. The "Boat Works" business split off after moving to Jacksonville and Triangle Manufacturing continued to build automotive air conditioning coils. Joe Dacus renamed the coil manufacturing business to Astro Air shortly after moving it to Jacksonville. After a fatal plane crash, Astro Air was passed to Joe's son Rex Dacus in late 1984. By this time, production focus had changed to commercial HVAC and refrigeration coils for OEMs and aftermarket replacements.

Custom Coil, also in Jacksonville, began in 1971 by Gerald Dankowski, a Dallas businessman. The original focus of Custom Coil was also automotive air conditioning components including OEM and aftermarket. The company was purchased by US Holdings Company in 1986. Custom Coil is still in business today and currently concentrates on special purpose coils for the medical industry, ice vending machines and geothermal heat pumps.

One of Triangle Manufacturing's early employees, Jack Greer, left and began a

commercial HVAC coil manufacturing facility. He paired up with the local sales representative for Bohn Aluminum in 1972, Amos Snow II, to start Greer and Snow. Greer was the chief coil design engineer at Triangle who previously worked for Bohn as well, prior to Triangle. Bohn, founded in 1956, was one of the premier coil producers at the time. Greer and Snow, which produced commercial OEM coils, was located in Tatum.

February Meeting

Date: February 21, 2008

Location: LeTourneau University
Assembly Building
2100 S. Mobberly Ave
Longview, TX

Cost: \$15
(students eat free)

Schedule:
5:30 PM Registration
6:30 PM Dinner and Program

Program: Industrial Gasification in
a Changing World
Steve McCoskey – Director of Dev. Tech
Eastman Chemical Company

Please RSVP to: Terry Bates by Feb. 15
See attached flyer

Board Meeting

7:00 AM – TJC White Administration
Building – Feb. 14, 2008

After several years of very successful operation, the holding corporation Owosso Corporation purchased Greer and Snow in 1977. Owosso, through its subsidiaries produced specialty engineered components. The purchase of Greer

& Snow added coil production to Owosso's portfolio of manufacturers that focused on engineered products which also included livestock trailers (Sooner Trailers). After the buyout, Greer and Snow became Snow Coil. Snow Coil, then located in Kilgore continued producing OEM and replacement coils. Amos Snow II was operations manager with Cindy Snow, Amos' daughter, sales manager.

Amos Snow II, Jack Greer and Jerry Krell started Air Max in Gilmer to produce residential A-coils in 1975. Owosso ultimately purchased Air Max as well in 1986. With that acquisition, Owosso merged Air Max with Snow Coil. At this point or along the way, the name was changed to Snow Max. After the merger, Gerry Averett was president of SnowMax from 1993 to 1999.

Owosso Corporation purchased Astro Air from Rex Dacus in the mid 1980's. By this time, Owosso was the major owner of the coil producers in East Texas: Astro Air and Snow Max (Air Max and Snow Coil combined, formerly Greer and Snow).

Coils Plus was started by Jack Greer and Ron Stevenson (also from Greer and Snow) in 1984, also producing commercial OEM coils. Gerry Averett was the general manager. Steve Carter and Jim Angus were engineers. Coils Plus produced coils until 1991 when Aaon, Coils Plus's largest customer purchased them. They are now known as Aaon Coil Products, which, of course, is still in operation in Longview.

So... that's the roots of Aaon in East Texas. The story is interesting but it seems there are more companies in the East Texas area. Let's continue the story...

In 1990, Jack Greer and the Aspen Manufacturing group began another coil manufacturer called Aspen Coil in Kilgore. Aspen produced residential A-coils until a downturn in the HVAC business in late 1992 or 1993. Gerry Averett was the general manager from 1990 to early 1992.

The Great American Coil Company (GAC) was founded by Jim Angus and Steve Carter forming commercial OEM coils in 1995. Coincidentally, Steve Carter was an engineer at Greer and Snow, Coils Plus, Aaon and originally at Bohn Aluminum in Danville Illinois. Mr. Angus worked at Coils plus and Aaon. GAC is located

in White Oak. The Great American Coil Company is producing coils today.

Apex Coils was formed by Sandy Howard with the purchase of the Air Max brand name in 1996 from Owosso and began the manufacturing facility in Gilmer. Howard later purchased the Air Max production assets from Owosso in 2001. Apex Coils produced residential evaporator coils until it was purchased by CSI.

Jack Greer began GB Coil in Early 2000. GB Coil produces commercial OEM and replacement coils today in Longview.

Wow... Jack Greer was a significant player in a number of these East Texas coil manufacturers. Continuing...

It turns out Gerry Averett was a key player in a number of these coil facilities in East Texas. Also in early 2000, Averett began the coil manufacturing business CSI (Coil Specialist Incorporated) focusing on swimming pool heater coils. If you remember, Averett was the operations manager at Snow Coil, later general manager at Aspen then president at SnowMax. CSI focuses on residential split system indoor coils. CSI and Apex were located next door to each other in Gilmer. In 2007, CSI purchased Apex, formerly Air Max. CSI now produces residential evaporator coils and swimming pool heaters.

In late 2001, Rex Dacus had the opportunity to repurchase Astro Air and Snow Max from Owosso. These two companies were combined into a new facility in Jacksonville to what became Astro Air LLP. In 2006, the Italian corporation ECO purchased Astro Air LLP and sold them shortly later, in late 2007, to Luvata.

The Snow family added a couple more coil manufacturing companies in East Texas as well. Benchmark Manufacturing and Bois d'Arc Coils.

Cindy Snow, daughter of Amos Snow left AirMax in the spring of 1994 to begin Benchmark Manufacturing in Lindale. They produced residential split system indoor coils. Cindy Snow passed away approximately 4 years ago. The company is currently led by her husband Steve Hollock and is still producing residential coils in Lindale.

Bois d'Arc International is another East Texas coil manufacturer currently located in Longview. This was started in Kilgore by the then retired Amos Snow II in 1989 as a distributor specializing in coils. Bois d'Arc was sold to Amos Snow's son, Amos Snow III, in 2000 at which time he began coil production as well as distribution. Bois d'Arc's specialty is producing replacement coils and is still manufacturing coils today.

There are some OEM and specialty equipment manufacturers in the East Texas area that may or may not be related: Air Rover, Eubank and Napp. These will be good subject matter for a future issue.

My original supposition was totally off-base. Ultimately, the majority of the coil manufacturers located in the East Texas area are predominantly interrelated. The common thread of coil manufacturing in East Texas is the talented individuals and legacies. A number of the names, such as Greer, Snow, Averett and Carter, are reoccurring, overtime, through multiple companies. The final word from almost all the companies that are still operating today is business is booming.

What is truly amazing is how much East Texas contributes to the comfort to the rest of the US and likely the world through the production of quality HVAC coil sub-assemblies and complete systems.

ASHRAE, founded in 1894, is an international organization of 55,000 persons. Its sole objective is to advance through research, standards writing, publishing and continuing education the arts and sciences of heating, ventilation, air conditioning and refrigeration to serve the evolving needs of the public.

ASHRAE BOG Meeting – held at The Trane Co. On January 17, 2008 3:45PM to 4:20PM Meeting Minutes

Members in Attendance:

Kristin Schaefer, Clinton Odom, Rhamy Morrison, Robert Helt, Ernie Herterich

Members Absent:

Gene Branum, Don Schuster, Stan Wilkins, John J. Bailey, Bill Stiles, Dick Cawley

President – Ernie Herterich 1. Welcome the 4 other BOG members present; Expressed surprise that the other members of Trane and Carrier could not stay over after the Tech. Meeting had just ended in the same room.

2. Ernie made a motion that the last meeting minutes be accepted. Rhamy and Kristin approved and seconded.

3. A letter was read which was to Kent Peterson from NSPE on 'congratulations' for ASHRAE's new magazine

4. A description of a new position created, that of 'Chapter Administrator' –Ernie gave this letter to Kristin, as she would approach a person in our chapter who may be suitable.

5. December Newsletter – Frustration was aired at the inability to get the December 2007 newsletter created and distributed.

6. Important upcoming ASHRAE events and dates

7. Engineers week – February 17 to 23rd. Ernie to ask Stan to reserve a table at LeTourneau for members of our chapter.

8. IBD Satellite Broadcast/Webcast April 16, 2008). An e-mail was read to the BOG present to update them on the event.

9. PAOE point summary --- not discussed

10. CRC info from ART on CD for delegate and alternate delegate. The CD was passed to Kristin who would share it with Leslie Zinger. Leslie will attend with Bob and Kristin and possibly Ernie. Kristin & John B. to help Leslie help write the CRC report.

11. A Flyer on Satellite Broadcast on April 16th was shown.

Elect / CTTC Chair / Delegate (currently an open position)

1. We will continue to split up remainder of Technical Meetings to get full coverage of 2007/2008 year.

2. Status of Tech meeting on 09/20/07 – UT HVAC building tour -- COMPLETE

3. Status of Tech meeting on 10/25/07 - Brookshire's Cold storage --COMPLETE

4. Status of Tech meeting on 11/15/07 - UT Engineering direction - COMPLETE

5. Status of Tech meeting in December – NONE

6. Status of Tech meeting on 01/17/08? – UL – Seminar at Trane -- COMPLETE

7. Status of Tech meeting on 02/21/08? – Eng'r Student Event at Letourneau Univ. (Move Caldwell zoo to September 2008)

8. Status of Tech meeting on 03/20/08? – Estes McClure
9. Status of Tech meeting on 04/16/08? -- ASHRAE Satellite Broadcast on 'Integrated Building Design' (Move Brookshire's tour to October 2008) ...Kristin to invite local AIA and

Secretary – John J. Bailey

- 1.No updates.... Not present
2. However John has recently informed the chapter that he will not be able to move up to the position of 'President Elect' in '08/'09 due to heavy commitments at his recently hired position with the Trane Co.
3. Ernie to approach Stan Wilkins to determine if he would 'step up' to take on this role for the chapter.

Treasurer – Bill Stiles

- 4.No updates.... Not present

Research & Promotion – Rhamy Morrison

- 1.Casino Night on March 29th is still the planned date
2. All games and activities for March 29th are all organized but not yet paid for.
3. There is a major problem in getting top notch prizes for the March 29th event.
4. We as a BOG have already met 'Full Circle' for this year.
5. Our current pledges are at \$3,024.28 with \$8,500 being the goal.
6. Getting our chapter members to contribute \$25 each is proving extremely difficult as witnessed by the zero response to Rhamy's plea during our Tech meeting held 30 minutes earlier.
7. Trane donated \$5k last year but have not yet contributed this year. Rhamy to follow up with Dave Panier
8. Carrier donated last year but have not yet contributed this year.

CTTC & Refrigeration – Dick Cawley

H.May newsletter ... article from Ernie Herterich

Estes McClure ... Rhamy to reserve the room and equipment at Trane.

10.CRC in Shreveport is April 24 – 26th. Attendees being organized.

11.Status of Tech meeting on 05/15/08? -- Refrigerants and the 2010 directive (Don)

- 1.No updates.... Not present

Membership Promotion – Clinton Odom

1.He will determine if a member of a faculty can qualify for the student rate of ASHRAE membership and apply that to our chapter.

2. He will also follow up with Brad Stinson to invite him to join our local chapter.

Student Activities – Stan Wilkins

- 1.No updates.... Not present
2. Ernie to ask Stan if he will accept the Chapter position of 'secretary' and also determine if he can attend the upcoming CRC.

Historian – Don Schuster

- 1.No updates.... Not present

Newsletter Editor (Bert McJimsey)

1. No updates.... Not present
 - A.October newsletter ... not published
 - B. November newsletter ... article from Ernie Herterich ... complete
 - C. December newsletter ... not published
 - D. January newsletter ... published with article by Rhamy
 - E. February newsletter ... article by Don Schuster...local coil mfg.
 - F. March newsletter ... article by Kristin to promote CRC
 - G.April newsletter ... article by Rhamy on Research Promotion report out.

Webmaster – Leslie Zinger

- 1.No updates.... Not present

Next Meeting February 14, 2008 @ TJC's 'White Administration Board Room'



Look who's in line first – with all that ASHRAE experience it's no surprise.



These guys don't look worried about UL requirements.



Come to the next meeting and find out why everyone is smiling.



This is the back row crowd – you have to get there early to get the back row.



These are the good seats – and they're free.



Things are getting serious – looks like they're filling out tax returns.

Car-Free, Solar-Powered City

ABU DHABI, United Arab Emirates—Groundbreaking is scheduled for Feb. 9 for Masdar City, a nearly self-contained mini-municipality designed for up to 50,000 people in the desert next to Abu Dhabi's international airport. The community is intended as a hub for academic and corporate research on nonpolluting energy technologies. The 2.3 square mile (6 km²) community will be set behind walls to divert hot desert winds and airport noise, and will be car free, according to London-based design firm Foster + Partners, which is leading the project. It will produce all of its own energy from sunlight. Water will flow from a solar-powered seawater-desalination plant. The first phase is expected to be completed in the next two years.

CIA Builds Campus Using Sustainable Principles

WASHINGTON, D.C.—The CIA's newest campus in northern Virginia represents the Agency's effort to create a state-of-the-art work environment that focuses on "green" principles. The first office building, which opened in 2007, earned Silver certification from the U.S. Green Building Council's LEED[®] program, while the visitor center and central plant each earned LEED Gold certification. The campus houses 25% of all LEED Gold buildings in the state of Virginia.

Wal-Mart CEO Calls for More Environmental Action

BENTONVILLE, Ark.—Wal-Mart's goal is to be supplied by 100% renewable energy, create zero waste and sell products that are energy efficient, the retailer's CEO said at its annual meeting last week. Lee Scott told the company's 7,000 managers that he wants Wal-Mart to play a leadership role in environmental issues in the 21st century. Scott said he wants to look at ways the company could provide environment-friendly energy to its customers. "Imagine your customers pulling into your parking lot and seeing wind turbines and solar panels, and being able to charge their cars while they shop," he said.

More Existing Buildings Going 'Green'

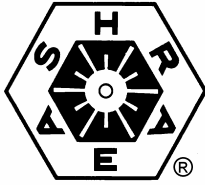
NEW YORK—The real estate industry has recently begun to turn its attention to "greening" existing buildings, according to an article in *The New York Times*. More than 60 buildings have received LEED[®]-EB (existing buildings) certification from the U.S. Green Building Council (USGBC), and 840 more are in the process of doing so, representing more than a 500 million ft² (46 million m²) of space.

Federal Agency Conducts Hearings on 'Green' Product Claims

AUSTIN, Texas—The U.S. Federal Trade Commission (FTC), which regulates advertising, is conducting a series of hearings this month about marketing claims that certain business practices or consumer purchases are environmentally friendly—a tactic referred to as "green marketing." The hearings are looking at tactics such as local utilities that charge premiums to subsidize wind power as well as car-rental companies and online marketers that sell certificates whose proceeds are said to pay for projects to reduce greenhouse gases. The chair of the FTC said the increasing popularity of programs such as these has created "a heightened potential for deception." The FTC says it has not accused any companies of fraud or wrongdoing. Rather, it is collecting information to update its environmental advertising guidelines, first issued in 1998.

New ASHRAE Datacom Book Offers Structural and Vibration Guidance

A new publication from ASHRAE provides guidance to datacom design teams and equipment manufacturers on preventing shock and vibration problems. It covers shock and vibration sources such as internal equipment that transmit vibration to their surroundings as well as external sources such as trains, construction activities, airports, earthquakes and weather events. *Structural and Vibration Guidelines for Datacom Equipment Centers* is the fifth publication in the ASHRAE Datacom Series.



**American Society of Heating, Refrigerating and Air Conditioning Engineers, Inc.
East Texas Chapter #091, Region VIII**

2007 – 2008 CHAPTER OFFICERS

Ernest Herterich	President	903-241-3320	herterichfamily2@earthlink.net
Open	President Elect		
John Bailey	Secretary	903-581-3229	john.bailey@trane.com
Bill Stiles	Treasurer	903-597-3442	

BOARD OF GOVERNORS

Don Schuster	903-510-7440	don.schuster@carrier.utc.com
Dick Cawley	903-566-3957	dickcawley@cox-internet.com
Robert Helt	903-581-3651	robert.helt@trane.com
Kristin Schaefer	903-581-3289	kristin.schaefer@trane.com

COMMITTEE CHAIRS

Don Schuster	Historian	903-510-7440	mohammad.farooq@carrier.utc.com
Rhamy Morrison	Research Promotion	903-581-9101	rhamy.morrison@trane.com
Bert McJimsey	Newsletter Editor	903-581-3332	bert.mcjimsey@trane.com
	Technology Transfer		
Dick Cawley	Refrigeration	903-566-3957	dickcawley@cox-internet.com
Stan Wilkins	Student Activities	903-510-7500	stan.wilkins@carrier.utc.com
Dick Cawley	Honors and Awards	903-566-3957	dickcawley@cox-internet.com
Clinton Odom	Membership Promotion	903-581-3528	clinton.odom@trane.com
Leslie Zinger	Webmaster	903-581-3189	leslie.zinger@trane.com

Future ASHRAE Meetings

Region VIII CRC
April 24-27, 2007
Shreveport, LA

2007 ASHRAE Summer Meeting
June 21-28
Salt Lake City, Utah

Future East Texas Chapter Meetings

Lunch Meetings

March	20
April	17
May	15

Dinner Meeting

February 28 EWEEK Banquet



The 57th Annual EWEEK Banquet

The Engineering Technical and Professional Societies of East Texas are again uniting to sponsor this annual meeting celebrating National Engineers' Week. All East Texas engineering and technical societies are encouraged to participate in this event. The banquet will allow nearly two hundred students and educators from our local high school and universities that are interested in engineering to meet practicing engineers such as yourself. Please join us and bring a guest!

Speaker

**Steve McCoskey - Director of Developing Technologies
Eastman Chemical Company**

Subject

" Industrial Gasification in a Changing World "

Time

**Thursday, February 21, 2008
5:30 –Registration Begins
6:30 - Dinner and Program**

Place

**LeTourneau University
Assembly Building
2100 S Mobberly Ave
Longview Texas**

Cost

**Free for Students (5 students per school free, then \$5 / student)
\$15 for Engineers, Spouses, and Guests – please pay at the banquet (cash or check)
REGISTRATION DEADLINE: Friday, February 15th:**

**Preferred Method - Please send an email to Terry Bates at tbates@tyler.oilfield.slb.com .
The email should include the names of attendees, their organization, and a contact phone number.**

**You should receive a return email confirmation, if not please call Terry at (903) 343-3111
and provide your name and the names of your guests so that name tags can be made.**

Hello everybody!

It is time to firm up your CRC plans. Register for the meeting and your hotel at <https://xp20.ashrae.org/secure/CRCShreveport/CRCRegistration.htm>

The Shreveport chapter is proud to host the Region VIII CRC this year. You'll notice that our theme is "Louisiana Lagniappe". Lagniappe means "a little something extra" and we are confident that we will deliver on that promise!

This year we are turning CRC upside down! We are modifying the schedule and our events in an effort to make this the best CRC you have attended in a long time. These are some of the changes we are making this year:

- We are having a ***world class technical seminar on Friday afternoon***, in lieu of two small tech sessions at different times during the CRC. In the words of Bill Harrison, "There hasn't been a tech seminar like this outside a Society meeting ever." This \$130 value is free with your registration to CRC.
- We are having our large evening social event on Thursday night instead of Friday night. ***Thursday night*** will be a ***Big Cajun Party*** at the Mardi Gras Museum complete with Mardi Gras floats, a great band, entertainers, crawfish, beads, dancing, and beverages.
- We are giving you an opportunity to hit the town on Friday night and experience the local flavor. We will be your concierge for the night. Try our five casinos, top notch restaurants, and Shreveport night life.
- Plenty of things to do for companions. Plantation tours, shopping, real Cajun shops and food, casinos, etc. You will have a good time. I guarantee it!
- Golf and skeet tourneys that are local as well as regional.

NOTE: I have attached a copy of the schedule of events. Please look it over as things are a little different than years past. Also, I attached a copy of the flyer for the technical seminar entitled, "**The March to Net Zero Energy Buildings**" we are having at CRC. Again, we have a world class line up of speakers. This is a once in a lifetime opportunity. Please print the seminar flyer and pass it around. Non ASHRAE members need to come to the seminar as well. Note that your registration for CRC covers your registration for the technical seminar. Last, **send this email to all of your people.** Everybody needs to sign up and attend the CRC.

Again, make sure and register now at <https://xp20.ashrae.org/secure/CRCShreveport/CRCRegistration.htm>
You can register for the CRC and reserve your hotel rooms all from this link. We are having the meeting at the Shreveport Convention Center, which is attached to the Hilton Hotel. Your other hotel option is Sam's Town Casino & Hotel. Sam's Town is two blocks from the Hilton/Convention Center.
See you in Shreveport!



Kurt Lyles
Region VIII CRC General Chair
1526 W. Dalzell Street
Shreveport, LA 71103
Tel: 318-550-0525
Fax: 318-550-0526
Cell: 318-453-7878
klyles@mechanicalconceptsllc.com

ASHRAE -Region VIII CRC

2008 Shreveport, Louisiana April 24-26, 2008

Wednesday, April 23rd, 2008

Registration & Check-In -4 PM –8 PM

Thursday, April 24th, 2008

Registration & Check-In -Noon –5 PM

Hospitality Suite Noon –5 PM

Golf 8 AM at OldeOaks Golf Course, Bossier City

Skeet 10 AM at Shreveport Gun Club

CRC Caucus Orientation: 4 PM -5 PM

Leave for the welcome party

Welcome Party (*don't miss it!!*) 6 PM until . . .

Friday, April 25, 2008

Concurrent Morning Events

Registration & Check-In –7 AM-3 PM

Hospitality Room –8 AM-9:30 AM, 2 PM –5 PM

Companion Events 9:30 AM –4 PM (Plantation Tours, Lunch, and Shopping)

Caucus Breakfast 7 AM –7:45 AM

CRC Business Session 8 AM –11:45 AM

President's Luncheon 12 Noon –1:45 PM

Technical Seminar 2 PM –5 PM (The March Towards Net Zero Energy Buildings)

Golden Gavel, Newsletter Judging 2 PM –5 PM

Cocktail Hour 5:30 PM –6:30 PM

Hit the Town . . . 6:30 PM until

Saturday, April 26th, 2008

Registration 8 AM-11 AM

Hospitality Suite 9 AM –Noon

Workshops 8 AM –9:45 AM Chapter Officers, Research, Membership, Web, Historians

10 AM –11:45 AM Newsletter, CTTC, Student Activities, Refrigeration

Awards Luncheon 12 Noon –1:45 PM

Reconvene CRC Business Session 2 PM

Louisiana Lagniappe

Region VIII CRC 2008 Shreveport, LA

TECHNICAL SEMINAR – 2 – 5 PM April 25th, 2008

Topic: The March to Net Zero Energy Buildings

4 hours of professional development hours

Cost: \$130.00 includes admission to the President's Luncheon at 12 noon (3 PDH hours available to attendees)

Admission is included if you have registered for the CRC

Overview

To reduce the building design industry's impact on the environment, key leaders from the building design community are collaborating to establish carbon-neutral buildings by the year 2030. The American Institute of Architects (AIA), the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE), Architecture 2030, the Illuminating Engineering Society of

North America (IESNA), and the U.S. Green Building Council, supported by representatives of the U.S. Department of Energy, are working together towards the goal of net zero energy buildings.

Don't miss this opportunity to listen to the world's leaders in the drive to net zero energy buildings!!!

Speakers:

Kent Peterson, P.E., Fellow ASHRAE 2007-08, President

Kent W. Peterson, P.E., Fellow ASHRAE, is vice president and chief engineer of P2S Engineering Inc., Long Beach, California.

As ASHRAE's president, Mr. Peterson directs the Society's Board of Directors and oversees the Executive Committee. Through his theme, Greater Efficiency Today, Blue Skies Tomorrow, Mr. Peterson emphasizes innovation in the quest for sustainability in the built environment. He notes that "energy efficiency should always be the elegant alternative to fuel consumption." As such, he encourages ASHRAE members to become more radical in their ideas, more daring in their creativity, and dedicated to delivering innovative systems, methods and technology.

Mr. Peterson has served on the Board as president-elect, treasurer, vice president, and Region X director and regional chair. Past service includes chair of Technology Council, Members Council, the Advocacy Committee, the President-Elect Advisory Committee the ASHRAE Learning Institute Board of Trustees, the Finance Committee, the Planning Committee, the Region-at-Large Transition Committee and the Student Activities Committee.

Mr. Peterson was president of the Orange Empire Chapter. He is a recipient of the Exceptional Service Award and the Distinguished Service Award.

He was awarded a bachelor of science in mechanical engineering from California State University at Long Beach. Mr. Peterson resides in Cypress, California, with his wife, Carolyn, and three sons.

Paul A. Torcellini — National Renewable Energy Laboratory – Building Team Leader

Paul was hired at National Renewable Energy Laboratory in 1994 and is currently the Building's Team Leader. Paul also leads the efforts of the High Performance Research Initiative. This effort is dedicated to studying the behavior of low-energy buildings both on the design side as well as the performance side. Most of these buildings have an energy reduction of 50% or more when compared to applicable energy codes.

Paul works with developing design methods such that energy features are integral to the building design and these features are properly implemented. The research concentrates on envelope design, daylighting strategies, control strategies, and HVAC design, as well as establishing metrics for measuring building performance.

Prior to joining NREL, Paul was an Assistant Professor at Youngstown State University. Paul holds a Master's degree and Ph.D. from Purdue University specializing in passive solar design and control of commercial buildings. He is also a registered Professional Engineer and Adjunct Professor at the Colorado School of Mines.

Among his many awards, Paul has received two ASHRAE (American Society of Heating, Refrigerating, and Air-conditioning Engineers) Technology Awards for his High Performance buildings work and two Energy User News Magazine's Efficient Building Awards. Paul received a 2000 NREL Staff Award for Outstanding Community and Professional Service.


Mick Schwedler, P.E. – Trane, Manager of Applications Engineering

Mick has been involved in the development and support of HVAC systems for Trane since 1982.

As manager of applications engineering his areas of expertise include system optimization (in which he holds patents) and chilled water system design. His primary activities include assisting designers in proper application of Trane products and systems in buildings, and writing system application manuals and newsletters. In addition, he has presented technical information to thousands of engineers through Trane's Engineers Newsletter Live satellite broadcast series.

Mick has given technical seminars throughout North America, as well as in the Far East and South America, and published a number of papers within the industry. Prior to his work with Trane, Mick received his MSME from the University of Wisconsin Solar Energy Laboratory and BSME from Northwestern University.

An active ASHRAE member, Mick is Chair of SSPC 90.1, responsible for ASHRAE/IESNA 90.1, "Energy Standard for Buildings Except Low-Rise Residential Buildings." He is past chair of TC 1.5



–“Computer Applications,” and has served on ASHRAE’s Professional Development Committee and Code Interaction Subcommittee. From an environmental perspective, Mick authored portions of the ASHRAE Green Building Guide and has served on technical advisory groups for both the New Buildings Institute and the US Green Building Council’s LEED® products.