

THE LONG ISLAND SOUNDER

January 2007



ASHRAE Long Island Chapter, Region 1...Founded in 1957

www.ashraeli.org

American Society of Heating, Refrigerating and Air Conditioning Engineers, Inc.

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President's Message

Greetings. Hope everyone enjoyed a safe and happy holiday. It was nice to see those folks who attended our holiday party. The Westbury Manor did an excellent job as usual. Moving on, this is the time that I reflect on the previous year and strategize in my mind what I can do to make the new year better. As it pertains to ASHRAE and our chapter, my thought for the future is how can we boost meeting attendance and better serve the needs of our members. I have said many times in the past that ASHRAE has proven to be a premiere organization and it is a privilege to be a member. Just take a look at their monthly journal or browse their website and you will quickly realize the ASHRAE commitment to our industry and the future of mankind. Membership in our chapter is at an all time high yet monthly meeting attendance continues to slowly decline. Why?



I don't know the whole answer but I do know it is an issue that we share in common with all the chapters in Region 1. Each month all the chapter presidents along with the DRC and RVC's have a conference call meeting to discuss ASHRAE activities. Recently the subject of meeting attendance consumed the president's roundtable discussion. Many of the chapters are trying gimmicks such as raffles or free dinners; others are targeting the lecture and PDH credits. Some have even tried luncheons instead of dinners. At the risk of showing my age I remember dinner meetings in our chapter

back in the 80's when the attendance was double what we typically see now. With more members now than back then this doesn't seem to add up. Is the need for a meeting to exchange technical information and networking becoming obsolete? Not likely. But in my opinion technology has played a role in the decline of attendance. Consider this, just about any information you need is available from the information highway, the Internet. Technical papers, case studies, design information and manufacturers product data in the form of specifications and drawings are available with a click of the mouse. Why go listen to Mr. Smith's lecture when you can download it from your comfy chair? Consider how you communicate with your clients and associates. Chances are you using e-mail regularly and you don't need to go see Mr. Jones as often. And then there is the extended workday.

I remember my father, as an engineer would go to and from work at a fairly regular hour. No portable personal computers, cell phones or Blackberry's for him to carry on his workday on his own time. I think you will agree it's a little different today and that's why personal time and the competition for it, has become so important. We need to revitalize our meetings and your opinion

CHAPTER MONTHLY MEETING

DATE:	Tuesday, January 9, 2007
TIME:	6:00 PM - Cocktails/Dinner 7:00 PM - Dinner Presentation 8:45 PM - Conclusion
LOCATION:	Westbury Manor South Side of Jericho Tpke. 25 Westbury, NY 11590
FEES:	
Members -	\$35.00
Guest -	\$40.00
Student -	\$15.00

*Reservations requested, but not required.
Call (516) 333-7117*

Cont'd. on Page 3

Long Island Chapter Officers & Committees

ASHRAE 2006/2007 OFFICERS

POSITION	NAME	PHONE	FAX	EMAIL
President	John Nally	631.331.0215	631.928.4625	jn@atiofny.com
President-Elect	Peter Gerazounis, P.E.	212.643.9055	212.643.0503	pgerazounis@mgjassociates.com
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Treasurer	Richard E. Gerbe	718.269.3753	718.269.3598	rgerbe@trane.com
Secretary	Nancy Roman	516.256.4800	516.256.3299	nroman@airdist.com
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Board of Governors	Brian Simkins	203.261.8100	203.261.1981	bsimkins@accuspecinc.com
Board of Governors	Craig D. Marshall, P.E.	203.261.8100	203.261.1981	cmarshall@accuspecinc.com

ASHRAE 2006/2007 COMMITTEES

COMMITTEE	NAME	PHONE	FAX	EMAIL
Programs & Special Events	Peter Gerazounis, P.E. Richard Rosner, P.E.	212.643.9055 631.737.9170	212.643.0503 631.737.9171	pgerazounis@mgjassociates.com rrosner@csfllc.com
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Newsletter Editor	Liset Pena	212.643.9055	212.643.0503	lpena@mgjassociates.com
Resource Promotion	Steven Friedman	212.695.1000	212.695.1299	sfriedman@lilker.com
Historian	Nancy Roman	516.256.4800	516.256.3299	nroman@airdist.com
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PR & Engineering Joint Council of LI	Richard E. Gerbe	718.269.3753	718.269.3598	rgerbe@trane.com
Golf Outing	Peter Gerazounis, P.E.	212.643.9055	212.643.0503	pgerazounis@mgjassociates.com

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President Message (Cont'd. from Page 1)

on this matter is important to us. That's why we ask that you take a few minutes out and complete the survey located in the back. Help us to make your ASHRAE membership more productive for you. ASHRAE Society continues to provide valuable information and there is always some sort of technical update or news about ASHRAE and their involvement with business, government and the HVACR community. We encourage you and your colleges to log onto www.ashrae.org, utilize the resources and keep up with the latest news. Inside you will find a release from Society on becoming part of the Green Team.

This month we are honored to have the President of ASHRAE Society, Mr. Terry Townsend as our keynote speaker. His presentation will focus on "The ASHRAE Promise – a Sustainable Future". Mr. Townsend is a dynamic individual and all of us on the board are excited about his visit. This is an excellent opportunity to hear a unique view on the future of ASHRAE and our industry. Mark your calendar, put on your coats and get to the meeting. You won't want to miss this one.

John Nally - President - Long Island Chapter

Chapter Monthly Meeting - Program for 2006/2007

September 12, 2006 * At Westbury Manor  Dinner Presentation - Characteristics of Throw, Overhead Air Distribution Fundamentals	February 2007 - TBD NATIONAL ENGINEERS WEEK DINNER
October 10, 2006 * At Westbury Manor  Dinner Presentation - Contract Provisions & Risk Aversion	March 13, 2007 Dinner Presentation - Chimney Design & Combustion/Ventilation Requirements for Gas-Utilization Equipment
November 14, 2006 * At Westbury Manor  Dinner Presentation - High Performance Design Guide for Energy Efficient Commercial Buildings RESOURCE PROMOTION & STUDENT ACTIVITIES NIGHT	April 10, 2007 FIELD TRIP - TBD
December 5, 2006  Holiday Party - Westbury Manor	May 7, 2007 * Cherry Valley Club, Garden City, NY ANNUAL GOLF OUTING
January 9, 2007 * At Westbury Manor DINNER PRESENTATION BY Dinner Presentation: <i>The ASHRAE Promise: A Sustainable Future</i> BY TERRY TOWNSEND SOCIETY PRESIDENT Joint Meeting with ACCA	May 15, 2007 TBD MEMBER PROMOTION NIGHT
February 13, 2007 * At Westbury Manor JOINT MEETING WITH SMACNA Dinner Presentation - TBD MEMBER PROMOTION NIGHT	June 12, 2007 * At Westbury Manor PAST PRESIDENTS & OFFICER INSTALLATION
February 2007 - TBD ASHRAE Winter Meeting	June 2007 - TBD ASHRAE Annual Meeting

August 2007 - Chapter Regional Conference Region I - TBD

RUNNING PAOE POINTS FOR 2006/2007

Chapter Members	Membership Promotion	Student Activities	Research Promotion	History	Chapter Operations	CTTC	Chapter PAOE Totals
336	135	110	0	25	840	0	1,110

Board of Governors Meeting Minutes

The board of governors met briefly on 12/5/06 during the holiday recess and discussed Mr. Townsend's January visit. No other ASHRAE business was conducted. Chapter members meet later that evening at the Westbury Manor for the holiday celebration. The next regular dinner meeting will be on January 9th, 2007.

John Nally for Nancy Roman
Secretary

Resource Promotion

Happy holidays to all of my fellow Ashrae members and business associates. I hope everyone is looking forward to a happy and healthy new year. The year 2007 promises to be exciting and prosperous for our industry as it appears we are all very busy. As we move forward into January past the holiday season, I would ask that you set a few moments aside to make your annual donation to Ashrae Research. As I previously mentioned, there are so many exciting projects which are setting new standards and moving our industry forward technologically.

Based upon the information I receive monthly from Ashrae headquarters, our chapters donation funds are considerably low based upon our past history. As I have attended our Chapters regional conference for the past five years, the Long Island Chapter has always received numerous awards and recognition for outstanding financial support and raising the bar for other chapters to contribute as well.

There are three ways which you can easily make your contribution. You can go right onto the internet to www.ashrae.org , you can send a check directly to me through the mail to the address below or you can personally bring it to this chapters monthly meeting. Please have your checks made out to Ashrae research and in the bottom left hand corner please write "Long Island chapter 006". Our goal this year is to achieve \$13,000.00, which is not very difficult since we have consistently maintained our goals. Your contribution is tax deductible and provides you and/or your company national recognition in the Ashrae Journal.

I would like to recognize those who have recently contributed:

- Lizardos Engineering Associates, P.C
- MWSK Equipment Corporation
- Twinco Supply Corporation
- Mr. Bob Leventhal (B&B Leventhal Inc.)
- Accuspec Inc.

Please forward your checks to:

Lilker Associates Consulting Engineers, P.C
1001 Avenue of the Americas
New York, N.Y 10018
C/O Steve Friedman
Ashrae Research Promotion

Look forward to seeing everyone in January at our meeting. Thank you for your continued support.

Steven Friedman
Resource Promotion Chair

January Program

You are cordially invited to our January 2007 Meeting...



Dinner Presentation

“ASHRAE Promise: A Sustainable Future”

Presented by

***Terry Townsend, P.E., Fellow ASHRAE
2006-07, President American Society of Heating,
Refrigerating and Air-Conditioning Engineers***

DATE:	TUESDAY, JANUARY 9, 2007		
Time:	6:00 PM – Cocktails and Hors D'oeuvres 7:00 PM – Dinner Presentation 8:45 PM – Conclusion	Fee:	\$ 35.00 Member \$ 40.00 Guest \$ 15.00 Student
Location:	WESTBURY MANOR (516) 333-7117 Jericho Tpke (South Side), 3/10 of mile east from Glen Cove Rd., Nassau County, NY. Directions are posted at @ www.ashraeli.org.		
Presentation:	ASHRAE President Terry Townsend will share his presidential theme for the year – The ASHRAE Promise: A Sustainable Future. President Townsend is focused on what ASHRAE and the global HVAC&R industry can do to provide definitive technical guidance, innovative engineering applications and leading-edge research in order to design, build and operate buildings in a more sustainable manner and to protect today's natural resources for future generations.		
About our Speaker:	<p><u>Terry Townsend, P.E., Fellow ASHRAE, 2006-07 ASHRAE President</u>, is President, Townsend Engineering Inc., Chattanooga, Tennessee, and Panama City, Florida. As ASHRAE's president, Mr. Townsend directs the Society's Board of Directors and oversees the Executive Committee. During his term, Townsend is focusing on <i>The ASHRAE Promise: A Sustainable Future</i>, highlighting ASHRAE's efforts in sustainability in the building environment.</p> <p>Mr. Townsend has served as president-elect, treasurer, vice president and Region VII director and regional chair. He serves on technical committee (TC) 2.7, Seismic and Wind Restraint Design, TC 2.8, Buildings Environmental Impacts and Sustainable, TC 7.1, Integrated Building Design, TC 6.6, Service Townsend Water Heating, TC 6.9, Thermal Storage, and TC 9.6, Health Care Facilities. His past service also includes chair of Publishing Council, Technology Council, President-Elect Advisory Committee (PEAC), Members Council and the Advocacy Committee. He was the ASHRAE representative to the ASHRAE/U.S. Green Building Council Steering Committee and ASHRAE liaison to both the American Society for Healthcare Engineering and the National Environmental Balancing Bureau. He held all offices in the Tennessee Valley Chapter.</p> <p>He is the recipient of the Exceptional Service Award, the Distinguished Service Award, a Region VII Technology Award, a Regional Award of Merit and a Chapter Report Award. He was awarded a bachelor of science in 1971 and a master of science in mechanical engineering in 1973 from Tennessee Technological University.</p>		

CHAPTER MAY NOT ACT FOR SOCIETY

An International Organization



Long Island Chapter - Past Presidents

1958	H. Campbell, Jr. PE	1982	Timothy Murphy, PE
1959	Clyde Alston, PE	1983	Leon Taub, PE
1960	Sidney Walzer, PE	1984	Raymond Combs
1961	Sidney Gayle	1985	Edward W. Hoffmann
1962	William Kane	1986	Jerome T. Norris, PE
1963	Louis Bloom	1987	Abe Rubenstein, PE
1964	Milton Maxwell	1988	Michael O'Rourke
1965	Will Reichenback	1989	Mel Deimel
1966	Joseph Minton, PE	1990	Robert Rabell
1967	Irwin Miller	1991	Gerald Berman
1968	Walter Gilroy	1992	Donald Stahl
1969	Charles Henry	1993	Ronald Kilcarr
1970	William Wright	1994	Jerald Griliches
1971	Louis Lenz	1995	Walter Stark
1972	Ronald Levine	1996	Joe Marino
1973	Henry Schulman	1997	Norm Maxwell, PE
1974	Myron Goldberg	1998	Alan Goerke, PE
1975	John N. Haarhaus	1999	Frank Morgigno
1976	Richard K. Ennis	2000	Michael Gerazounis, PE
1977	Kenneth A. Graff	2001	Ray Schmitt
1978	Evans Lizardos, PE	2002	Steven M. Stein, PE
1979	Albert Edelstein	2003	Andrew Braum, PE
1980	Ralph Butler	2004	Claudio Darras, P.E.
1981	Robert Rose, PE	2005	Craig D. Marshall, P.E.



Student Activities

Student Activities night will be in February please help make this a successful event by inviting any engineering students you know or have working for you.

If you have a 6 grader you should be hearing about science fairs. This is a great grass roots opportunity to get our future engineers involved. I plan on attending my own sons this year to distribute some ASHRAE propaganda; if you have the same opportunity please let me know so I can get you some information to distribute as well.

Please visit: <http://www.ashrae.org/students/> for more information on all the Student ASHRAE activities and opportunities.

Brian Simkins
Student Activities Committee



History

The speaker at the podium was a masterful orator and his presence captivated the room. He looked around at the audience and began "Weathermen, I salute you. I envy you because you defy the elements, stretch the seasons and warm, cool and ventilate the ambience. We park boys have had to be content with only four or five months of usefulness and now cherish the hope that it may be stretched to six or even seven. Your are the potential makers of a new climate to rival what Florida has to offer to retirees on moderate income, not beautiful people at the villa estates, condominiums, country club and pueblo communities described in the real estate ads."



His speech continued and he spoke of the development of the north shore of Long Island, acquiring land and the construction of parkways and parks. "We had a hell of a time getting Caumsett, the Field Estate at Lloyd's Neck. I discussed a gift with Marshall Field for years. When we finally got the place, local opponents and environmental fanatics sought to prevent access by all but confirmed environmentalists and ekisticians. Fortunately we were able when they were not looking to acquire an adequate right-of-way but the road has not thus far been built. So for a while we have what in effect is a private public park." He continued on speaking of the construction of bridges and tunnels and of transportation via rail, road and water ferries. He spoke of industrialized economy, environmental and ecological issues and the planning and engineering of cities, suburbs and metropolises. At one point he even spoke of space. "What can be said about the recent gathering of scientists, technicians and bureaucrats at Princeton and one under way at Stanford University to discuss the transfer of millions of the world's inhabitants to artificial islands in space where the gravity of the earth and moon balance in eternal sunshine, to condominiums ingeniously designed for our surplus inhabitants?"

His speech was winding down and he spoke of Guy Lombardo and his unforgettable tunes. He closed with "Goodnight. I hope I have not outstayed my welcome and am still persona grata with those I regard as partners in the industry and the preservation of the countryside." It was Saturday evening September 20th, 1975 in the Harrison House at Glen Cove. The guest speaker was Mr. Robert Moses, speaking at the ASHRAE Region 1 CRC dinner hosted by the Long Island Chapter.

Become a part of history. Participate in the Long Island Chapter of ASHRAE.

Nancy Roman
Chapter Historian

Membership

Our first membership promotion night is coming up in February. Please bring some prospective members, and if they join that night their meal is on us. I would like to take this opportunity to Welcome our Five new members to date this year. In alphabetical order they are: Anthony Cresci, Edward Donnelly, Patrick French, Kurt Lawrence and David Van Wickler. We hope to see more of you in the meetings to come.

Here is to wishing everyone a Happy and Healthy New Year!!

Carolyn Arote
Membership Chairman

CTTC

Sound Data- What is it telling you, what isn't it telling you?

Many manufacturers supply sound data to design professionals to help them estimate noise levels in finished spaces. These levels are also used to help determine equipment sizes and to evaluate different equipment manufacturers. The Air-Conditioning and Refrigeration Institute (ARI), American National Standards Institute (ANSI) and Ashrae all publish standards and guidelines to aid designers in controlling noise levels in mechanical spaces, occupied spaces as well as outdoors. Understanding and evaluating sound data prior to specifying equipment can help avoid noise complaints, which lead to unhappy end users/ clients, costly equipment changes and law suits.

HVAC related sound is often the major source of background noise in indoor spaces. Occupant tolerance of noise is dependent on two factors, the sounds perceived loudness and the sound quality. Perceived loudness is the sounds level. In simple terms it says if equipment noise is silent, quiet, loud, blaring, etc. Quality relates to sound that is actually heard. Sound quality is perceived as rumbles, roars, hisses, or tones.

Many engineers rely on the noise criteria (NC) tables in Manufacturers' catalogs to give them a rating of how loud a piece of equipment is. NC values are often evaluated because of the simplicity of a single number rating. The NC method does not reflect which octave band a noise peaks, this is why when evaluating equipment sound data NC values should not be used. It is impossible in a one value system to determine if equipment will exhibit a rumble, whistle or tone. NC values are most commonly used to evaluate air devices (i.e. diffuser, grille, etc.). NC values can also be used to estimate VAV box sound levels. Negatively, VAV boxes create excessive low-frequency noise, which the NC method does not address. It is recommended that VAV boxes be evaluated by reviewing the sound power levels. In systems that do not produce excessive low frequency noise and strong pure tones, the NC rating correlates well with occupant satisfaction.

Understanding HVAC equipment sound data becomes a very complex evaluation. Equipment, such as fans, pumps, chillers, etc., should be evaluated through the full octave bands. For example, units peaking in the 4th or 5th octave bands will produce a different sound quality in a room from those peaking in the 2nd octave band. Understanding this is often difficult and best left up to the professional sound consultants, which can advise a designer when sound levels and quality are critical. Otherwise most equipment manufacturers supply a sound power level that can be used to get a basic idea of the perceived loudness of the equipment. There are numerous resources for design professionals to use as a guide in evaluating sound criteria. The 2003 Ashrae Applications Handbook has a chapter called Sound and Vibration Control as well as published standards. ARI has many of these standards available for free download at www.ari.org/std/.

Respect Construction Documents

Excerpts from June 2002, Ashrae Journal article by Fred Kohloss, P.E., J.D.

Specifications are detailed descriptions of particulars, such as size, quality or performance. Designers and builders of HVAC systems work regularly with construction specifications, which give instructions to contractors by providing essential details regarding materials, equipment, systems and contractor procedures.

Since Construction specifications are part of the construction contract, they are legal documents. Should disputes occur, attorneys will examine them carefully. Errors, ambiguities or conflicts in specifications can be a fertile source of legal problems for designers, contractors and equipment suppliers. Project bidding provides limited time to resolve questions, and it is costly to correct errors once a contract is in place. Therefore, it is important to prepare specifications carefully.

Logical organization of specifications minimizes problems. Master specifications, whether proprietary or developed in-house, are a good starting point. For a specific project it is essential that they be carefully prepared and edited by someone familiar with the details of the systems' design to avoid omissions, inclusion of irrelevant material, or conflict with the drawings or the design intent.

To keep construction specifications within reasonable length and to assist in accurately stating requirements, specifications should reference standards where applicable. Although specifications frequently include a list of applicable standards, the standards are not effectively incorporated unless they are noted as applicable "to the extent referenced." Merely listing a number of standards without indicating to what they apply is not an adequate specification. A standard is not properly listed without including its date.

CTTC (Cont'd. from Page 8)

If specifications are to be understood they must be clearly written. Keep specifications concise. Use short-form phrases in outline form rather than complete sentences. Use imperative statements, in the active voice. Since specifications are instructions to the contractor, just state what to do, not "the contractor shall...." Do not reproduce or reference vendor specifications. Avoid use of such phrases as "best practice" and "highest standards of workmanship." If information is adequately provided in a drawing, don't repeat it in the specifications.

Good specifications are a benefit to all participants in a construction project. They deserve careful preparation.

Steven Giammona, P.E.
Chapter Technology Transfer Committee Chair

Meeting Survey Data

1. How often do you attend the dinner meetings?
 Regularly_____ Occasionally_____ Never_____
2. When attending the meeting, which is the most important for you?
 Lecture_____ Networking_____ Socializing_____
3. Does the topic of the lecture determine your attendance?
 Yes_____ Sometimes_____ No_____
4. How important are PDH approved lectures to you?
 Very important_____ Not so important_____
5. What is your opinion on the time length of the current meetings?
 To long_____ To short_____ OK_____
6. Would you prefer a breakfast or lunch meeting instead of the dinner meeting?
 Yes_____ No_____
7. Is the meeting location convenient for you?
 Yes_____ No_____
8. Would you be more inclined to attend if there were more social activity?
 Yes_____ No_____
9. Does your company support your attendance at the meetings?
 Yes_____ No_____
10. What suggestions do you have to make the meetings more beneficial to you?



Please fax survey to John Nally at 631-928-4625 - Thank you

Become Part of the Green Team: New Guidance from ASHRAE

For Release:
November 29, 2006

Contact: Jodi Dunlop
Public Relations
678-539-1140
jdunlop@ashrae.org
1791 Tullie Circle NE
Atlanta, GA 30329

Become Part of the Green Team: New Guidance from ASHRAE

ATLANTA – Looking to become a more effective player on the green team?

ASHRAE GreenGuide: The Design, Construction and Operation of Sustainable Buildings will help teach designers how to participate effectively on design teams charged with producing green buildings.

"This is a design guide for mechanical engineers who are interested in advancing integrated, high performance/green concepts and applications on building design projects," said Malcolm Lewis, Ph.D., a member of ASHRAE's technical committee on building environmental impacts and sustainability, which wrote the book. "The guidance will help building professionals analyze system design options and point them in the right direction for deeper analysis."

The book, an update to the 2003 version of ASHRAE GreenGuide, contains a new chapter outlining guidance on the Leadership in Energy and Environmental Design (LEED™) Rating System developed by the U.S. Green Building Council. The chapter discusses ways in which LEED credits affect engineers and how they can best respond to the opportunities presented by the use of LEED on projects.

"The GreenGuide will assist the design and development team in striving for a level of accountability as to the effectiveness of their efforts to produce a building that is truly green," Lewis said.

The book also contains a new chapter on how HVAC&R systems interact with the local environment and methods for mitigating or reducing that impact.

"There are some areas that are either not intuitively obvious as being potential impacts of HVAC systems or are items that some may not consider to be truly sustainable issues," Lewis notes.

The ASHRAE GreenGuide also contains more than 40 GreenTips, which are sidebars containing information on techniques, processes, measures or systems. The tips contain a list of other sources for reference. To read the GreenTips, visit www.engineeringforsustainability.org.

This is the first in a new series of books, known as The ASHRAE Professional Series, published in cooperation with Butterworth-Heinemann/Elsevier. The series is intended to provide high-quality professional information for a global audience of HVAC&R engineers as well as professionals in related fields.

The cost of the ASHRAE GreenGuide is \$79.95 (\$62.95, ASHRAE members).

To order, contact ASHRAE Customer Service at 1-800-527-4723 (United States and Canada) or 404-636-8400 (worldwide), fax 404-321-5478, by mail at 1791 Tullie Circle NE, Atlanta, GA 30329, or visit the ASHRAE.org Bookstore at www.ashrae.org.

ASHRAE, founded in 1894, is an international organization of 55,000 persons. ASHRAE fulfills its mission of advancing heating, ventilation, air conditioning and refrigeration to serve humanity and promote a sustainable world through research, standards writing, publishing and continuing education.

ASHRAE Winter Meeting

Ronald W. Swarthout, P. E.
Vice Chair, Region I
Research Promotion

Reply to: 921 Forest Road
Endwell, NY 13760
(607) 754-1590
rswarthou@cs.com

Region 1 Dinner Dallas Winter Meeting

Date: Monday, January 29, 2007

Location: YO Ranch Steakhouse Restaurant, 702 Ross Avenue at Market Street, Dallas, Texas 75201
"One of Dallas's premier dining establishments and most extensive selection of wild game"

Time: 6:00 PM Meet at the Adam's Mark Hotel Lobby
(5 minute train ride from Adam's Mark Hotel)
6:30 PM Arrive at Steakhouse for cocktails – cash bar
7:00 PM Dinner

Menu: Starters
House Salad with garlic cilantro vinaigrette or Seafood Bisque Soup

Choice of Entrees:
Prime Aged Beef Filet Mignon
Grilled Salmon Filet with a bruschetta butter
Sautéed Chicken Breast with a wild mushroom brandy sauce

Desserts
Jack Daniels Pecan Pie or White Chocolate Macadamia Nut Bundt Cake w/ raspberry sauce

Cost: \$40.00 per person received before January 22, 2007 -- \$45.00 per person after January 22

Reservations with payment: must be received by **Monday, January 22, 2007**

Make checks out to ASHRAE – Region 1 Fund & mail to Ronald Swarthout at the above address

Name _____ Menu Choice _____

Name _____ Menu Choice _____

Name _____ Menu Choice _____

Name _____ Menu Choice _____

CLASSIFIEDS

Sales Engineer: To assist consulting engineers and design professionals with the application and selection of energy efficient equipment and systems. Position requires local travel to client offices and/or job sites, professional appearance, strong communication skills, dedicated work ethic, computer software knowledge and willingness to work as a team member.

Please email your resume to infony@walesdarby.com

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