

# THE LONG ISLAND SOUNDER

April 2004



ASHRAE Long Island Chapter, Region 1

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

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## President's Message

Last month's field trip to the American Ref-Fuel Plant was a success. Thanks to Steve Giammona for putting this field trip together. At this time of the year, the slate for the upcoming year is determined by the nominating committee. The President-Elect begins to organize the committees for the upcoming year, and the pre-planning for Chapter Programs takes place. Reflecting back on the past year, I began to realize the vast amount of accomplishments this year's Board of Governors and committees have accomplished, and the term is not yet even over!



I have listed a few keynotes from the year so far . . .

- We moved from a printed to an Electronic Newsletter to save cost and advance communications & created a newsletter name "The Long Island Sounder".
- Changed the meeting location to offer better amenities.
- Hosted an ASHRAE distinguished lecturer.
- Went to a NY Islanders game and toured the Nassau Coliseum ice plant.
- Had a joint meeting with SMACNA and ACCA.
- Co-hosted a four chapter meeting in NYC.
- Toured the American Ref-Fuel Plant.
- Planning the CRC in August 2004.
- Planning our annual Golf Outing in May 2004.

## CHAPTER MONTHLY MEETING

<b>DATE:</b>	<b>Tuesday, April 13, 2004</b>
<b>TIME:</b>	6:00 PM - Cocktails/Dinner 6:45 PM - Dinner Presentation 9:00 PM - Conclusion
<b>LOCATION:</b>	Westbury Manor South Side of Jericho Tpke. 25 Westbury, NY 11590
<b>FEES:</b>	
Members -	\$30.00
Guest -	\$35.00
Student -	\$15.00

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

Thank you so much for your support and I look forward to completing this exciting and eventful year.

**Andrew S. Braum, P.E.**  
**President - Long Island Chapter**



## Long Island Chapter Officers & Committees

### ASHRAE 2003/2004 OFFICERS

POSITION	NAME	PHONE	FAX	E-MAIL
President	Andrew S. Braum, P.E.	(516) 785-4200	(516) 785-9148	asb@asbengineering.com
President-Elect	Claudio Darras, P.E.	(212) 354-5656	(212) 354-5668	cdarras@akf-eng.com
Vice President	Craig D. Marshall P.E.	(203) 261-8100	(203) 261-1981	cmarshall@accuspecinc.com
Financial Secretary	John Nally	(631) 331-0215	(631) 928-4625	jn@atiofny.com
Treasurer	Peter Gerazounis, P.E.	(212) 643-9055	(212) 643-0503	pgerazounis@mgjassociates.com
Secretary	Steven Friedman	(212) 643-9055	(212) 643-0503	sfriedman@mgjassociates.com
Board of Governors	Steven Giammona, P.E.	(631) 592-2678	(631) 630-8883	sgiammona@jameslasala.com
Board of Governors	Michael Mordetsky	(631) 661-3136	(631) 661-3137	michael.mordetsky@us.belimo.com
Board of Governors	Steven M. Stein, P.E.	(212) 536-3850	(212) 764-7827	stein@derector.com

### ASHRAE 2003/2004 COMMITTEES

COMMITTEE	NAME	PHONE	FAX	E-MAIL
Programs and Special Events	<b>Claudio Darras, P.E.</b>	(212) 354-5656	(212) 354-5668	cdarras@akf-eng.com
Membership	<b>Craig D. Marshall, P.E.</b>	(203) 261-8100	(203) 261-1981	cmarshall@accuspecinc.com
TEGA/Refrigeration	<b>Richard E. Gerbe</b>	(516) 484-1020	(516) 484-0926	reg@leapc.com
Newsletter Editor	<b>Liset Pena</b>	(212) 643-9055	(212) 643-0503	lpena@mgjassociates.com
Resource Promotion	<b>Steven Friedman</b>	(212) 643-9055	(212) 643-0503	sfriedman@mgjassociates.com
Historian	<b>John Nally</b>	(631) 331-0215	(631) 928-4625	jn@atiofny.com
Student Activities	<b>Steven Giammona, P.E.</b>	(631) 592-2678	(631) 630-8883	sgiammona@jameslasala.com
Webmaster	<b>Alan Goerke, P.E.</b>	(631) 331-0215	(631) 928-4625	ag@atiofny.com
Honors, Awards & Publicity	<b>Michael Gerazounis, P.E.</b>	(212) 643-9055	(212) 643-0503	mgerazounis@mgjassociates.com
Nominating	<b>Michael Gerazounis, P.E.</b>	(516) 482-3207	(516) 482-3790	mgerazounis@mgjassociates.com
2004 CRC General Chair	<b>Alan Goerke, P.E.</b>	(631) 331-0215	(631) 928-4625	ag@atiofny.com
	<b>Frank Morgigno</b>	(631) 331-0215	(631) 928-4625	fm@atiofny.com
	<b>Don Stahl</b>	(516) 223-2365	(516) 223-2365	dmstahl@optonline.net
Reception and Attendance	<b>Ray Schmitt</b>	(631) 585-6800	(631) 471-4950	therevrgs@aol.com
August 2004 CRC Golf Outing	<b>Alan Goerke, P.E.</b>	(631) 331-0215	(631) 928-4625	ag@atiofny.com
	<b>Frank Morgigno</b>	(631) 331-0215	(631) 928-4625	fm@atiofny.com

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## March Field Trip Recap

The meeting initiated at the American Ref-Fuel resource recovery plant in Westbury, Long Island where an overview of the physical plant installation and operation was presented.

The group then toured the plant's operational systems, which physically convert waste to usable energy. It was a very exciting tour and presentation.

The group then proceeded to the Westbury Manor for dinner and discussion. Meeting adjourned at 9:00 p.m.

**Steven Friedman**  
Chapter Secretary



American Ref-Fuel Plant Control Room

## Chapter Monthly Meeting - Program for 2003/2004

<b>September 9, 2003</b> * At Westbury Manor Technical Session - Choosing Chiller Technology Dinner Lecture - Chiller Plant Design, Variable Flow & Low Delta T Syndrome	<b>February 22-28, 2004</b> <b>NATIONAL ENGINEERS WEEK</b>
<b>October 14, 2003</b> * At Westbury Manor <b>STUDENT ACTIVITIES NIGHT</b> Technical Session - Fundamentals of Cooling Tower Technology Dinner Lecture - Advanced Topics about Cooling Tower Apps.	<b>March 9, 2004 (Catering @ Westbury Manor)</b> <b>FIELD TRIP</b> The Hempstead Resource Recovery Plant American Ref-fuel Plant, Long Island, NY
<b>November 11, 2003</b> * At Westbury Manor <b>MEMBERSHIP/RESOURCE PROMOTION NIGHT</b> Joint Meeting with SMACNA Mechanical International Building Code	<b>April 13, 2004</b> * At Westbury Manor <b>MENTOR NIGHT</b> Dinner Presentation - Radiant Floor Heating
<b>December 16, 2003</b> * At the Nassau Coliseum Holiday Event - Trip and Tour of Coliseum & NY Islander vs. NJ Devils Hockey Game	<b>May 11, 2004</b> * At Westbury Manor <b>REFRIGERANT NIGHT</b> Dinner Presentation - Boiler Room Design
<b>January 8, 2004</b> * At Westbury Manor Joint Meeting with ACCA-LI Mold in Construction - A Proactive Approach	<b>May 17, 2004</b> <b>ANNUAL CHAPTER GOLF OUTING</b> Cherry Valley Club, Garden City, NY
<b>January 24-28, 2004</b> ASHRAE Winter Meeting and Trade Show, Anaheim, CA	<b>June 8, 2004</b> * At Westbury Manor <b>PAST PRESIDENTS &amp; OFFICER INSTALLATION</b> Dinner Presentation - Steam Systems: Fundamentals & Advanced Topics
<b>February 12, 2004 @ UN International School, Manhattan</b> Joint Meeting with NYC, Bi-State & NJ Chapters Special Presentation by Ron Vallort (ASHRAE President Elect 2003-2004)	<b>June 26-30, 2004</b> ASHRAE Annual Meeting Nashville, TN

**August 19-22, 2004 - Chapter Regional Conference Region I - Wyndam Wind Watch Hotel, Islandia, NY**

## RUNNING PAOE POINTS FOR 2003/2004

Chapter Members	Membership Promotion Points	Student Activities Points	Chapter Programs Points	Resource Promotion Points	TEGA Points	History Points	Chapter Operations Points	Chapter PAOE Point Totals
324	150	50	0	325	425	275	170	1,395

## April Chapter Meeting - Program

*You are cordially invited to our April 2004 Meeting*



### Dinner Presentation

***“Commercial Radiant  
Floor Heating”  
Design & Advanced Applications***

*Presented by  
David Van Wickler & John Knowles  
Wales Darby, Inc.*



<b>Date:</b>	<b>Tuesday, April 13, 2004</b>		
<b>Time:</b>	6:00 PM – Cocktails and Hors D'oeuvres 6:45 PM – Dinner Presentation 9:00 PM – Conclusion	<b>Fee:</b>	\$ 30.00 Member \$ 35.00 Guest \$ 15.00 Student
<b>Location:</b>	<b>WESTBURY MANOR</b> (516) 333-7117 Jericho Tpke (South Side), 3/10 of mile east from Glen Cove Rd., Nassau County, NY. <b>Please Contact Claudio Darras at <a href="mailto:cdarras@akf-eng.com">cdarras@akf-eng.com</a> for directions.</b> <i>- Reservations requested but not required. Business attire suggested</i>		
<b>Presentation:</b>	<p>This month's presentation will be about the application and design of Radiant Floor Heating. The presenters will review with you its design considerations, preliminary estimating and sizing methods, tubing and system layout and the automatic temperature control strategies that are available for a modern radiant floor heating project.</p> <p>The speakers will share with you their extensive application and design experience in this type of system, analyzing actual project experiences.</p> <p>The audience will have the opportunity to discuss specifics associated with schematic design and beyond, the pros and cons of different layouts, and those critical requirements during installation and construction, which will assure a successful completion of a floor radiant system.</p>		
<b>About our Speakers:</b>	<p><b><u>David Van Wickler</u></b>, Wales Darby Inc, has extensive experience as a national technical manufacturer's trainer of radiant floor heating, factory applications assistant, and national Sales Manager. David has both residential and commercial radiant experience. He is a graduate Mechanical Engineer of Maritime College. David presently assists the consulting engineering community with radiant floor heating system and snow melting system designs.</p> <p><b><u>John Knowles</u></b>, is the commercial Sales Manager at Wales Darby, Inc. John has over fifteen (15) years of commercial HVAC experience with hydronic systems and radiant floor heating. John is a graduate Mechanical Engineer of Union College. He has assisted the consulting engineering community on many radiant heating and high profile projects in NY and PA.</p>		



## CRC Committee Report - 2004 Update/Schedule

### ASHRAE- Chapter 1 Regional Conference

**Location:** Wyndham Wind Watch Hotel, Islandia, NY

**Dates:** Thurs 8/19/04 to Sun 8/22/04

### CONFERENCE SCHEDULE:

<b><u>Thursday, 8/19/04 -</u></b>		<b><u>Saturday, 8/21/04 -</u></b>	
7:00 am to 6:00 pm	Registration	7:00 am to 6:00 pm	Registration
8:00 am to 5:00 pm	Golf- Hamlet Golf Club located at the hotel	6:30 am to 9:00 am	Hospitality Breakfast
8:00 am to 5:00 pm	Companion Activity	6:45 am to 7:50 am	Caucus
6:00 pm to 10:00 pm	Welcome party/ wine reception	8:00 am to 9:00 am	Business Meeting
10:00 pm to 12:00 pm	Hospitality Suite Open	8:00 am to 11:45 am	Companion Activity
		9:10 to 11:45 am	Chapter Workshops
		12:00 pm to 1:45 pm	Awards Luncheon
		1:45 pm to 3:00 pm	Second Business Meeting
		3:00 to 4:00 pm	Executive Session
		5:00 to 9:00 pm	Social Event
<b><u>Friday, 8/20/04 -</u></b>			
7:00 am to 6:00 pm	Registration		
6:45 am to 7:50 am	Caucus		
8:00 am to 11:45 am	First Business Meeting		
8:00 am to 11:45 am	Companion Activity		
12:00 pm to 1:30 pm	President's Luncheon		
1:45 pm to 4:45 pm	Technical Session & Chapter Workshop		
6:00 pm to 10:00 pm	Cocktail reception & President's Banquet		
10:00 pm to 12:00 pm	Hospitality Suite Open		

**Alan Goerke, P.E. - CRC 2004 Co-Chairman**

### Past Member Greetings

We received news from **Ralph Butler**, a past ASHRAE member who has moved out of the area. Here is what he had to say:

*"Hi, I've just been looking at your website and it looks like you are doing a great job. My congratulations to whoever is doing all this work! I see you are providing the newsletter on the web and I would like to see how you are doing if you don't mind adding my E-mail address to the list.*

*Greetings to all and especially those members who were active when I was. Minor health problems are limiting my activity as well as my wife's. We have moved from Wappinger Falls to an apartment in Lee, MA (address below in case anyone needs it) in preparation for a move (within the next 6 to 8 months we hope) to a senior living community in Lenox.*

*Our address is 82 Prospect Street, Lee, MA 01238. Phone # is 413-243-6082 & our email address is [rmbutler@att.net](mailto:rmbutler@att.net).*

*Best wishes to you all and may 2004 be a banner year for you especially as you are hosting the CRC!! "*

Thank you Ralph for your wishes and we hope the same for you and your family. As per your request you will now receive our monthly newsletter via email.

**ASHRAE Board of Governors**

### Long Island Chapter - Past Presidents

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

## Membership

I would like to take a moment to thank all of our chapter members that have helped recruit new members. Keep up the good work.

**GRADE ADVANCEMENT NEEDED.** If you are an associate member please take a moment to consider this. It does not cost anything and there is a good chance you will qualify. To obtain the level of member you must have the equivalent of 12 Society accredited years of experience. This is composed from a combination of education level, work experience, and engineering or related license. I will help you with the paperwork. Please give me a call.



At our April meeting we will be holding Mentoring night. We need both Mentors (experienced ASHRAE members) and Protégé's (student or new ASHRAE members) to participate. This is an excellent program and allows some of our younger members to gain the experience of the Mentors. Please consider being a Mentor it is time well spent. Mark it on your calendar for our April 13th meeting.

**Craig Marshall, P.E.**  
Membership Chairman

## History - "How Good Is Your Memory?"

Listed below are ten (10) questions relating to a specific date and event of our chapter. See how many you can answer by matching them to the right date. The answers are listed in the rear of the newsletter.

### QUESTIONS

1. What was the date our chapter was officially organized and our charter was issued.
2. The Chapter's Region 1 Conference hosted by our chapter was held at the Harrison House in Glen Cove starting on this date.
3. A silver anniversary dinner dance for our chapter was hosted at the Garden City Hotel on this date.
4. Abe Rubenstein was the delegate for our chapter in the Region 1 CRC meeting starting on this date.
5. Mr. Neil Funnell of the Trane Company, lecturing on "fans", was the guest speaker at our dinner meeting held at the Hub House in Hempstead on this date.
6. Bob Rabell, who was President of our chapter on this date, received a letter from ASHRAE Society approving changes to our chapter's bylaws.
7. A technical presentation on "modernization of a century old hospital" was presented by Don Stahl who was working with Lizardos Engineering on this date.
8. Evans Lizardos reporting at our chapters dinner meeting at the Linden Tree Restaurant on this date, announced that we received a "newsletter award for its quality publication".
9. A mailing list for chapter members was created and circulated on this date.
10. The current chapter historian was born on this date.

### ANSWERS

- |                                    |                                  |
|------------------------------------|----------------------------------|
| A. August 18 <sup>th</sup> 1988    | F. October 3 <sup>rd</sup> 1958  |
| B. October 12 <sup>th</sup> 1957   | G. April 11 <sup>th</sup> 1995   |
| C. June 21 <sup>st</sup> 1990      | H. October 9 <sup>th</sup> 1954  |
| D. September 19 <sup>th</sup> 1975 | I. January 10 <sup>th</sup> 1966 |
| E. June 13 <sup>th</sup> 1989      | J. June 11 <sup>th</sup> 1983    |

Good luck! See you at the next meeting. (See Page 10 for "Quiz" Answers)

**John Nally**  
Chapter Historian



## TEGA

**Helping Keep Buildings Safe, Goal of ASHRAE Satellite Broadcast**

Ashrae's do not miss satellite broadcast on Homeland Security for buildings is rapidly approaching and registration is filling up quickly. This program is fully loaded with the who's who of the industry. Speakers will range from the undersecretary of Homeland Security, Ashrae's President, experts in the field of CBR protection, and a list of many distinguished lecturers. This is an excellent opportunity to get a crash course in the government's stance, Ashrae's views, code updates and design considerations relating to keeping buildings safe.

The broadcast is scheduled for Wednesday, April 14, 2003 and will be held in the Long Island City office of Trane New York. The time will be from 11:30 to 3:00 pm. Lunch will be served and an in-house discussion will follow the broadcast. Pre-registration is necessary. I can be contacted via telephone at Lizardos Engineering tel. (516) 484-1020 or by e-mail at [reg@leapc.com](mailto:reg@leapc.com).

**United States HVAC Equipment Demand Forecast**

Demand in the U.S. for heating, ventilation and air conditioning (HVAC) equipment is forecasted to increase 2.4 percent per year to 12 billion dollars in 2007. Advances will be primarily driven by an expected rebound in nonresidential construction, along with ongoing strength in residential remodeling. Growth will benefit from the replacement of older HVAC systems with newer, more efficient systems. Further gains will be restrained by projected declines in the number of new single unit housing completions between 2002 and 2007. Competition from imported equipment and maturing markets for many types of equipment will also restrain demand.

Driven in part by relatively low initial costs of these systems, warm air furnace shipments represent half of all heating equipment shipments. Within the warm air furnace segment, electric powered versions are projected to

post the strongest average annual growth. Among the major heating equipment segments, heat pumps accounted for the second largest share of shipments. Growth will be driven by their ability to provide efficient heating and cooling in moderate climates and to serve as a low cost supplementary heating system in colder climates.

Shipments of unitary air conditioners represent about three-quarters of all cooling equipment shipments. Packaged terminal air conditioners and chillers are projected to post above average annual gains, benefiting from their use in industrial and commercial markets, two areas that are expected to rebound over the forecast period.

Advances in HVAC equipment demand will be stimulated by growth in the non-residential market, which accounted for 60 percent of sales in value terms. Increases in the nonresidential market will be driven by a projected rebound in nonresidential construction, as the installation of new or upgraded HVAC equipment is a key element of most construction projects. Further gains will be restrained by prevalence of reconditioned HVAC systems in the nonresidential markets.

**Sustainability Begins At Home**

The American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) updated HVAC&R-related press on its work in sustainability at a news conference held Monday, Jan. 26. Sustainability means more than recycling soda cans. It means looking ahead and considering how the concrete from the building you're designing will be used 50 years from now, according to a speaker from an Ashrae news conference on sustainability. "It's not about grabbing the sustainable guide from the shelf and saying 'I'll take that, and I'll take that,'" Tim Dwyer, chair of an Ashrae technical program seminar on sustainable design tools, said. "There's a whole world to consider."

Ashrae and Sustainability: Practicing Green to Preserve Tomorrow focused on how the HVAC&R industry is changing the way it approaches the design, construction, operation, maintenance,

reuse and demolition toward addressing the environmental and long-term economic consequences of its actions.

Ashrae's work in sustainability stems from publication of its energy conservation standard in 1975. Ashrae currently is working on Advanced Energy Design Guides, which seek to achieve 30 percent savings over Standard 90.1, Energy Standard for Buildings Except Low-Rise Residential Buildings. The first document in the 30 percent series will provide prescriptive design assistance for office buildings up to 20,000 square feet. It will be a how-to, user-friendly guide targeted for use by contractors and small design-build firms.

"Ashrae is moving aggressively to provide training and support for this guidance, scheduled to be published later this fall," Ron Jarnagin, chair of the committee writing the document, said. Editor David Grumman discussed the newly published Ashrae GreenGuide, developed to provide guidance to designers of HVAC&R systems in how to participate effectively on design teams charged with producing green buildings. The guide features 29 Ashrae Green-Tips, which are sidebars containing information on techniques, processes, measures or systems. Also, Ashrae's technical committee on building environmental impacts and sustainability is focusing on three areas: energy resources, delivery processes and impact of materials and systems.

Ashrae President Richard Rooley is calling for improved communications between the professions to further progress toward sustainability. "We need two new publications: Engineering for Dumb Architects and Architecture for Dumb Engineers," he said. "Why? Because the two professions are clearly failing to communicate and a light-hearted approach to a very serious issue might just solve the problem." To read remarks from the speakers at the Ashrae Press Breakfast, visit ASHRAE.org at <http://www.Ashrae.org/template/AssetDetail/assetid/30987>.

**Richard Gerbe**  
**TEGA Chair**

# ASHRAE Annual Golf Outing 2004

## 5<sup>th</sup> Annual LI/ NYC ASHRAE GOLF OUTING Monday – May 17<sup>th</sup>, 2004



Place: Cherry Valley Club  
Garden City, NY

Brunch: 11:00 am

Shotgun Start: 12:30 pm

Reception: 5:30 pm

Dinner: 6:30 pm



**This Event fills up fast, to guarantee a spot RSVP Soon.**

*Proper golf attire and shoes are required.  
Locker room and shower privileges are included.*

**CHECKS MUST BE IN BY APRIL 26, 2004**

*Fax entire sheet or cut this half and return*

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

Address: \_\_\_\_\_ Phone: \_\_\_\_\_

City, State, Zip \_\_\_\_\_ Fax \_\_\_\_\_

Guest 1: \_\_\_\_\_ Company: \_\_\_\_\_

Guest 2: \_\_\_\_\_ Company: \_\_\_\_\_

Guest 3: \_\_\_\_\_ Company: \_\_\_\_\_



Please make check payable to:  
**ASHRAE – Long Island Chapter**

Mail checks to:

Accuspec, Inc.  
Attn: Craig Marshall  
856 Main Street  
Monroe, CT 06468  
Fax: (203) 261-1981

Golf & Meals:	\$260pp x _____	= \$ _____
Reception and Dinner:	\$130pp x _____	= \$ _____
Sponsor Dinner:	\$1,000 <input type="checkbox"/> YES	= \$ _____
Sponsor Lunch:	\$ 500 <input type="checkbox"/> YES	= \$ _____
Sponsor Reception:	\$ 500 <input type="checkbox"/> YES	= \$ _____
Sponsor Prizes:	\$ 500 <input type="checkbox"/> YES	= \$ _____
Sponsor Beverage Cart:	\$ 500 <input type="checkbox"/> YES	= \$ _____
Sponsor Hole:	\$ 200 <input type="checkbox"/> YES	= \$ _____



## Homeland Security For Buildings



# ASHRAE Long Island Chapter Presents:

## Homeland Security For Buildings

Wednesday, April 14, 2004

**Architects & Engineers Can Earn 2 PDH's By Attending**

<b>Date/Time:</b>	<b>WEDNESDAY, APRIL 14, 2004</b> 11:30 AM – 5:00 PM EST	<b>Fee:</b>	<b>\$10.00</b> - Including Broadcast, lunch & refreshments. (Fee due day of the Broadcast).
<b>Location:</b>	<b>TRANE – NEW YORK</b> – <a href="http://www.tranenewyork.com">www.tranenewyork.com</a> (for directions) 45-18 Court Square, Long Island City, NY 11101		
<b>About the Presentation:</b>	Terrorist attacks targeting the built environment are a critical and compelling issue to the nation, especially to building designers, owners and managers and first responders. Multiple hazards and threats intersect within a building, and critical questions concerning the danger of chemical, biological or radiological (CBR) attacks remain. This broadcast will address questions of design, construction and operation of buildings. The primary goal is to address the key issues related to building protection from CBR incidents and draws heavily from ASHRAE's most credible and timely reports and publications. This broadcast from the studio of WETA public television in Washington, DC is intended to reach a cross-section of professionals, including engineers, architects, building owners and managers, fire police, medical responders, public safety officers, risk managers and other key personnel.		
<b>Presentation Schedule:</b>	<p><b><u>Segment #1 – 12:00 pm</u></b></p> <ul style="list-style-type: none"> <li>• <b>Introduction</b> – <i>Charles E. McQueary, Ph.D., Undersecretary of Homeland Security</i> – The Federal Government's perspective on Homeland Security and ASHRAE's role.</li> <li>• <b>Welcome &amp; ASHRAE Views</b> – <i>Richard H. Rooley, FREng, ASHRAE President</i> – ASHRAE's role in Homeland Security and the purpose of this broadcast.</li> <li>• <b>January 2003 ASHRAE Report Summary &amp; Building Codes &amp; Standards</b> – <i>Lawrence G. Spielvogel, P.E.</i> – ASHRAE reports and Homeland Security-related codes and standards.</li> <li>• <b>HVAC &amp; Refrigeration Systems</b> – <i>William J. Coad, P.E.</i> – Homeland Security issues related to design and operation of HVAC&amp;R systems in existing and new buildings.</li> </ul> <p><b><u>Segment #2 – 1:30 pm – Protecting Buildings from CBR &amp; Associated Threats</u></b></p> <ul style="list-style-type: none"> <li>• <b>Ventilations &amp; Pressurization</b> – <i>Andrew K. Persily, Ph.D.</i> – Design &amp; operation of HVAC ventilations and pressurization systems to protect occupants.</li> <li>• <b>Filtration &amp; Air Cleaning</b> – <i>H.E. Barney Burroughs</i> – Design, operation and maintenance of filtration systems and application in refuge areas.</li> <li>• <b>Personal Protection</b> – <i>Ralph F. Goldman, Ph.D.</i> – Personal CBR protective systems and equipment and their effectiveness.</li> </ul> <p><b><u>Segment #3 – 3:15 pm to 5:00 pm</u></b></p> <ul style="list-style-type: none"> <li>• <b>In-house discussion</b>- Questions &amp; comments and general discussion.</li> </ul>		
<b>PRE-REGISTRATION REQUIRED:</b>	Please RSVP via email to <a href="mailto:reg@leapc.com">reg@leapc.com</a> . For further details or questions please contact Richard Gerbe, Lizardos Engineering Associates, PC @ 516-484-1020.		

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