

# THE LONG ISLAND SOUNDER

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

November 2011



www.ashraeli.org

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

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## President's Message

It is with Great sorrow I open this month's Newsletter, as Lynn Bellenger Past President ASHRAE 2010-2011 has suddenly passed away. We have added a page dedicated to Lynn for all to read, but having met her several times though out my years here and having her speak last year as a Distinguished Lecturer I can tell you personally she was a wonderful person and an inspiration to all Women. In this male dominated industry Lynn became the first woman president of ASHRAE, which was an extraordinary accomplishment! During this time let's all keep her family in our thoughts, and may it be a reminder to take nothing for granted and be thankful for the time we have with our loved ones.



I have just a few things I would like to discuss this month, as a recap and a look ahead. We had an excellent turnout to last month's meeting, where Tom Neill was our main presenter and Evans Lizardos gave the Back to Basics course. Thank you both for your time, as from the comments heard after the meeting both presentations were appreciated and learned from.

I would like to personally thank Joe Furman for coming all the way from Connecticut to visit our chapter last month. Joe is our Assistant Regional Chair, and came to see how we run our meetings and share with us some knowledge about how other chapters run theirs. He gave us a few pointers that hopefully we can put to good use!

This month we have a joint meeting with SMACNA, where Eli Howard will be presenting on the changes to the International Building Code, Mechanical Code and other related items. Brian, our Programs chair, worked hand in hand with Eli to tailor this program for us so that it would be a great fit for both organizations. Eli has been dubbed the Technical Resource "Guru of SMACNA", so I am positive we will all be enlightened from this program. Don't forget this month's meeting will be held on Nov 15<sup>th</sup>(the 3<sup>rd</sup> Tuesday of the month).

We have some other news in our chapter I'd like to mention for this month as well. One of the things ASHRAE is promoting is Young Engineers in ASHRAE. In an attempt to get our YEA more involved Andy is looking for ideas for a "night out" separate from the regular meeting. I think this is a great idea and if anyone has suggestions please let Andy know.

## CHAPTER MONTHLY MEETING

<b>DATE:</b>	<b>Tuesday, November 15, 2011</b> <b>* Meeting to be held on 3rd Tuesday of the Month</b>
<b>TIME:</b>	6:00 PM - Cocktails/Dinner 6:45 PM - Dinner Presentations 8:45 PM - Conclusion
<b>LOCATION:</b>	Westbury Manor South Side of Jericho Tpke. 25 Westbury, NY 11590
<b>FEES:</b>	
Members -	\$40.00
Guest -	\$45.00
Student -	\$15.00

Reservations requested, but not required.

Call (516) 333-7117

Continued on Pg. 3

## Long Island Chapter Officers & Committees

### ASHRAE 2011/2012 OFFICERS

POSITION	NAME	PHONE	FAX	EMAIL
President	Carolyn Arote	516.568.6550	516.568.6575	<a href="mailto:carote@adehvac.com">carote@adehvac.com</a>
President-Elect	Brian Simkins, LEED AP	203.261.8100	203.261.1981	<a href="mailto:bsimkins@accuspecinc.com">bsimkins@accuspecinc.com</a>
Vice President	Andrew Manos, LEED AP	631.632.2791	631.632.1473	<a href="mailto:andym22@optonline.net">andym22@optonline.net</a>
Financial Secretary	Richard Rosner, P.E.	631.737.9170	631.737.9171	<a href="mailto:rosner@csflc.com">rosner@csflc.com</a>
Treasurer	Thomas Fields, P.E., LEED AP	212.643.9055	212.643.0503	<a href="mailto:thomas.fields@mgepc.net">thomas.fields@mgepc.net</a>
Secretary	Charles Lesniak, P.E.	516.484.1020	516.484.0926	<a href="mailto:charles.lesniak@leapc.com">charles.lesniak@leapc.com</a>
Board of Governors	Don Kane, P.E.	631.737.9170	631.737.9171	<a href="mailto:dkane@csflc.com">dkane@csflc.com</a>
Board of Governors	Andrew B. Dubel, P.E.	212.967.7651	212.967.7654	<a href="mailto:andrew.dubel@leapc.com">andrew.dubel@leapc.com</a>
Board of Governors	Nancy Román	516.568.6509	516.568.6586	<a href="mailto:nroman@adehvac.com">nroman@adehvac.com</a>

### ASHRAE 2011/2012 COMMITTEES

COMMITTEE	NAME	PHONE	FAX	EMAIL
Programs & Special Events	Brian Simkins, LEED AP	203.261.8100	203.261.1981	<a href="mailto:bsimkins@accuspecinc.com">bsimkins@accuspecinc.com</a>
Membership	Charles Lesniak, P.E.	516.484.1020	516.484.0926	<a href="mailto:charles.lesniak@leapc.com">charles.lesniak@leapc.com</a>
Chapter Technology Transfer (CTTC)	Don Kane, P.E.	631.737.9170	631.737.9171	<a href="mailto:dkane@csflc.com">dkane@csflc.com</a>
Newsletter Editor	Liset Cordero	212.643.9055	212.643.0503	<a href="mailto:liset.cordero@mgepc.net">liset.cordero@mgepc.net</a>
Research Promotion	Andrew Manos, LEED AP	631.632.2791	631.632.1473	<a href="mailto:andym22@optonline.net">andym22@optonline.net</a>
Historian	Richard Rosner, P.E.	631.737.9170	631.737.9171	<a href="mailto:rosner@csflc.com">rosner@csflc.com</a>
Student Activities	Andrew B. Dubel, P.E.	212.967.7651	212.967.7654	<a href="mailto:andrew.dubel@leapc.com">andrew.dubel@leapc.com</a>
Young Engineers in Training	Charles Lesniak, P.E.	516.484.1020	516.484.0926	<a href="mailto:charles.lesniak@leapc.com">charles.lesniak@leapc.com</a>
Webmaster	Thomas Fields, P.E., LEED AP	212.643.9055	212.643.0503	<a href="mailto:thomas.fields@mgepc.net">thomas.fields@mgepc.net</a>
Nominating	Michael Gerazounis, P.E., LEED AP	212.643.9055	212.643.0503	<a href="mailto:michael.gerazounis@mgepc.net">michael.gerazounis@mgepc.net</a>
Reception & Attendance	Rich Halley	718.269.3809	718.269.3725	<a href="mailto:rhalley@trane.com">rhalley@trane.com</a>
PR & Engineering Joint Council of LI	Peter Gerazounis, P.E., LEED AP	212.643.9055	212.643.0503	<a href="mailto:peter.gerazounis@mgepc.net">peter.gerazounis@mgepc.net</a>
Golf Outing	Peter Gerazounis, P.E., LEED AP Steven Friedman, P.E., HFDP, LEED AP	212.643.9055 212.354.5656	212.643.0503 212.354.5668	<a href="mailto:peter.gerazounis@mgepc.net">peter.gerazounis@mgepc.net</a> <a href="mailto:sfriedman@akfgroup.com">sfriedman@akfgroup.com</a>

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## President's Message (Cont'd from Page 1)

Although you can find this information throughout the rest of the news letter I'd like to mention our RP dollars are up to \$2,442. This is a great start, and I'd like to thank Andy Manos for all of his hard work. In these times it is not always easy to donate, so every dollar is truly appreciated.

My 3<sup>rd</sup> newsletter as president and I'm still waiting for some new committee members to come forward! I promised I would keep this month's article short, and I have. I'd like to close by wishing everyone a very Happy Thanksgiving!! Hopefully you will all be with loved ones eating turkey and watching football.

**Carolyn Arote, President  
Long Island Chapter**

## Young Engineers in ASHRAE (YEA)

Our first YEA night will be during this meeting, and the second one will be during the March meeting. We will be looking for other ideas for social events so please contact me if you have any Suggestions.

YEA will also be hosting Leadership U during the ASHRAE Winter and Annual Conferences in Chicago. During Leadership U, YEA members will be paired up with ASHRAE Society Officers and they will be able to participate in the in events and board meetings. There are four positions available for Leadership U, and they will be determined by an application process.


YEA will be hosting a HVAC Design Essentials workshop this coming January. The workshop will be held from January 11<sup>th</sup> thru January 13<sup>th</sup> at the ASHRAE Headquarters in Atlanta, you need to register for the event by November 7<sup>th</sup>. The National YEA will offer 1 full scholarship to cover the cost of the workshop's registration. Please visit ASHRAE website for more information.

**Charlie Lesniak  
YEA Chairman**

## Long Island Chapter - Past Presidents

1958	H. Campbell, Jr. PE	1985	Edward W. Hoffmann
1959	Clyde Alston, PE	1986	Jerome T. Norris, PE
1960	Sidney Walzer, PE	1987	Abe Rubenstein, PE
1961	Sidney Gayle	1988	Michael O'Rourke
1962	William Kane	1989	Mel Deimel
1963	Louis Bloom	1990	Robert Rabell
1964	Milton Maxwell	1991	Gerald Berman
1965	Will Reichenback	1992	Donald Stahl
1966	Joseph Minton, PE	1993	Ronald Kilcarr
1967	Irwin Miller	1994	Jerald Griliches
1968	Walter Gilroy	1995	Walter Stark
1969	Charles Henry	1996	Joe Marino
1970	William Wright	1997	Norm Maxwell, PE
1971	Louis Lenz	1998	Alan Goerke, PE
1972	Ronald Levine	1999	Frank Morgigno
1973	Henry Schulman	2000	Michael Gerazounis, PE, LEED AP
1974	Myron Goldberg	2001	Ray Schmitt
1975	John N. Haarhaus	2002	Steven M. Stein, PE
1976	Richard K. Ennis	2003	Andrew Braum, PE
1977	Kenneth A. Graff	2004	Claudio Darras, P.E.
1978	Evans Lizardos, PE, LEED AP	2005	Craig D. Marshall, P.E.
1979	Albert Edelstein	2006	John Nally
1980	Ralph Butler	2007	Peter Gerazounis, PE, LEED AP
1981	Robert Rose, PE	2008	Steven Friedman, PE, HFDP, LEED AP
1982	Timothy Murphy, PE	2009	Steven Giammona, P.E., LEED AP
1983	Leon Taub, PE	2010	Nancy Román
1984	Raymond Combs		

## Chapter Monthly Meeting - Program for 2010/2011

<b>September 13, 2011</b> * At Westbury Manor  Dinner Presentation – Cooling Tower Water Treatment Through Non Chemical Technologies Presenter - Leon Shapiro <b>**1 PDH**</b>	<b>February 19-25, 2012</b> <b>NATIONAL ENGINEERS WEEK</b>
<b>October 11, 2010</b> * At Westbury Manor  Dinner Presentation – Application of Mixed or Hybrid Boiler Systems for Energy Efficiency Presenter - Tom Neill <b>**1 PDH**</b> <b>RESOURCE PROMOTION NIGHT</b> <i>Back to Basic Session I</i> <i>Presenter - Evans Lizardos, PE, LEED AP</i> <b>**1 PDH**</b>	<b>March 13, 2012</b> * At Westbury Manor Dinner Presentation - <b>TBD</b> <b>YEA NIGHT</b> <i>Back to Basic Session III</i> <i>Presenter - Evans Lizardos, PE, LEED AP</i> <b>**1 PDH**</b>
<b>November 15, 2011</b> * At Westbury Manor Dinner Presentation - New 2012 Editions of the ICC Codes Presenter - Eli P. Howard, III <b>JOINT MEETING WITH SMACNA</b> <b>STUDENT ACTIVITIES NIGHT</b> <b>MEMBERSHIP PROMOTION NIGHT</b> <b>YEA NIGHT</b> <i>* Meeting will be held on 3rd Tuesday of the month.</i>	<b>April 10, 2012</b> <b>ANNUAL FIELD TRIP - TBD</b>
<b>December 13, 2011</b> Holiday Party - Westbury Manor	<b>May 7, 2012</b> * Cherry Valley Club, Garden City, NY <b>ANNUAL GOLF OUTING</b>
<b>January 10, 2012</b> * At Westbury Manor Dinner Presentation—Chiller Optimization Presenter - Thomas Wyhmeyer <b>**1 PDH**</b> <i>Back to Basic Session II</i> <i>Presenter - Evans Lizardos, PE, LEED AP</i> <b>**1 PDH**</b>	<b>May 15, 2012</b> * At Westbury Manor Dinner Presentation - <b>TBD</b> Presenter - <b>STUDENT ACTIVITIES NIGHT</b> <i>* Meeting will be held on 3rd Tuesday of the month.</i>
<b>January 21-25, 2012</b> ASHRAE Winter Meeting Convention Center, Chicago	<b>June 12, 2012</b> * At Westbury Manor <b>PAST PRESIDENTS &amp; OFFICER INSTALLATION</b>
<b>February 21, 2012</b> * At Westbury Manor Dinner Presentation- <b>TBD</b> Presenter- <i>* Meeting will be held on 3rd Tuesday of the month.</i> <b>JOINT MEETING WITH USGBC</b> <b>RESOURCE PROMOTION NIGHT</b> <b>MEMBERSHIP PROMOTION NIGHT</b> <b>**1 PDH**</b>	
<b>August 2012 - Chapter Regional Conference Region I</b>	

### PAOE POINTS FOR 2011/2012

Chapter Members	Membership Promotion	Student Activities	Research Promotion	History	Chapter Operations	CTTC	Chapter PAOE Totals
299	0	0	0	250	520	250	1,020

## Board of Governors Meeting Minutes

Date: Tuesday, October 11, 2011

Attendees: Carolyn Arote, Nancy Roman, Brian Simkins, Andrew Manos, Andrew Dubel, Richard Rosner, Charles Lesniak, Tom Fields, Richard Halley, Joe Furman

President Carolyn Arote called the meeting into session at 4:55 PM and the meeting was ended at 6:05 PM.



**General: Carolyn Arote** - The Board of Governors went over the topics for our PDH seminars for the remainder of the year. The Board of Governors started to review locations for the end of year field trip. The golf outing will be in May and the date is TBD. Ideas for fundraising: clam bakes, trade shows and utility code seminars. We can look into holding a seminar for code related issues approximately 20 dollars.

**Programs: Brain Simkins** – For back to basics we may try and see if we can have it in the room downstairs to accommodate both the cocktail hour and the back to basics session. Eli Howard will speak at the SMACNA meeting and the topic is TBD. February's meeting will be with the USGBC panel. Will look into having the field trip at the BNL nanotech building.

**Resource Promotion: Andy Manos** – set the goal for 2011-2012 Resource Promotion to \$13,882 and is at \$6832. Andy started the work for the product directory book and is up to 6832. The resource promotion night is tonight and coins will be handed out. Andy is helping the Charleston chapter with starting their product directory book. Andy is starting the SUNY Stony Brook student chapter with Brian Simkins.

**History: Rich Rosner** – is looking for people to interview. Charlie is to finish scanning the chapter's documents and give them to Rich. Next article will be the history of air conditioning. Rich has hit PAR for points. And will look into uploading meeting pictures to the website. Rich gave ASHRAE books to Charlie to hand out for student activities night.

**Treasurer: Tom Fields** – there is \$15,005.26 in the TD Bank account and \$8,970.04 in the money market. Everyone should send Tom your vouchers for the CRC expenses.

**DRC: Joe Furman** – has reviewed our website and we should put our Board of Governors meeting minutes and times on it. Joe mentioned we should update the contact info on our website. Joe presented information about ASHRAE star chapters and billing.

**Webmaster: Tom Fields** – has had conversations with Anthony for updating the Webpage.

**Membership: Charlie Lesniak** – is to review the membership reports. Charlie will confirm all BoG members are in good standing. If you have been in ASHRAE for 12 years your membership status will automatically be upgraded to full member. Charlie will look into a clam bake and other ideas for membership promotion.

**Student Activities: Andrew Dubel** – will wait til the January meeting to review scholarships.

**CTTC: Don Kane** – will coordinate CTTC topics with Brian. Don will check PDH courses with Pete Opell.

**YEA: Charlie Lesniak** – Ideas for YEA: YEA vs TOY (Too Old for YEA) softball game, bowling nights have been positive in other chapters. Will investigate to having a joint YEA night with the NYC chapter.

**Charlie Lesniak, P.E.**  
**Chapter Secretary, 2011-2012**



## November Program



### Dinner Presentation

***“NEW 2012 editions of the ICC Family of Codes and the impacts these have on future building design/build/maintenance market.”***

*Presented by*

**Eli P. Howard, III  
SMACNA**



**Attendees  
Will Earn  
1 PDH!**

<b>DATE:</b>	<b>TUESDAY, NOVEMBER 15, 2011 (Third Tuesday of the Month)</b>		
<b>Time:</b>	6:00 PM – Cocktails and Hors D'oeuvres 7:00 PM – Dinner Presentation 8:45 PM – Conclusion	<b>Fee:</b>	\$ 40.00 Member \$ 45.00 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>Directions are posted at @ <a href="http://www.ashraeli.org">www.ashraeli.org</a>.</b>		
<b>Presentation:</b>	<p>The NEW 2012 editions of the ICC Family of Codes have been released for adoption. This session will highlight the significant changes of the International Building Code (IBC), International Mechanical Code (IMC), International Energy Conservation Code (IECC), International Residential Code (IRC), and the impacts these have on future building design/build/maintain market.</p> <p>Additionally a briefing on the final code change adoptions from the November ICC code hearings for the International Green Construction Code (IgCC) will be covered.</p> <p><b>Participants will receive 1 PDH credit.</b></p>		
<b>About our Speaker:</b>	<p><b>Eli P. Howard, III</b> - As SMACNA's Executive Director Technical Services, Eli Howard has the overall responsibilities of the more than 30+ SMACNA Technical and ANSI Standards related to the HVAC and Sheet Metal Industry. He is a member of ASHRAE Technical Committees:</p> <ul style="list-style-type: none"> <li>• 7.7 Testing &amp; Balancing; 5.2 Duct Design; SSPC 62.1 Ventilation for Acceptable IAQ – Educational Subcommittee Chair; TG3 Design Build</li> </ul> <p>He has additional responsibilities as SMACNA Liaison to NFPA 90A &amp; 90B, CSI, USGBC, ICC and IAPMO Green Committee. Prior to joining SMACNA he was Manager of Technical Program Development for NEMI providing technical assistance to contractors in energy engineering and IAQ technologies. His experience also includes work with Marriott International as Mechanical Engineer for design/construction of hotels in the United States, Hong Kong and Poland. Mr. Howard holds a degree in Mechanical Engineering from Allegheny College.</p>		

CHAPTER MAY NOT ACT FOR SOCIETY

An International Organization

## Research Promotion

Last month's meeting was Resource Promotion Night where we recognized last year's donors. I would like to say thank you again to all those that have contributed.

I also would like to thank the companies who have participated in the annual 2011 Product Directory of Manufacturers and their Representatives.

There's still time if you would like your company listed in the directory please contact me. The deadline is December 1<sup>st</sup>.

The Product Directory has been prepared as a service to all its members and as a service to the local HVAC industry. It will be made available to all ASHRAE and non-ASHRAE members at no-cost and can be obtained from our monthly meetings or directly from our web-site.

The Directory is intended to provide better communications between manufacturers and their sales representatives; engineers who specify products; contractors who purchase and install the equipment; and other interested parties. Product Directory listings are not limited to ASHRAE members and the listings are not to be considered as advertising or endorsement by ASHRAE of any product, manufacturer or representative.

This year's overall resource promotion goal is \$2,001,900 with over 75 research projects on board. Our chapter is expected to raise approximately \$13,881 towards the overall goal of which we have already raised \$2,442. I am hoping I can count on the continued support of all of our past contributors who have generously supported us over the years. I also look forward to gaining the support of new contributors this coming year. Please help support ASHRAE in any way you can.

I would like say 'thank you' to all the contributors listed below whom have already donated to ASHRAE this year:

### INDIVIDUALS

Ms Carolyn Arote  
Mr Andrew B Dubel  
Mr Thomas Fields, PE, LEED AP  
Mr Steven D Friedman, PE, HFDP, LEED AP  
Mr. Don Kane, PE  
Mr Charles J. Lesniak, PE  
Mr Andrew E Manos, LEED AP  
Mr. John D Nally  
Mr Michael O'Rourke  
Mr Richard Pearson, PE, LEED AP  
Ms Nancy Roman  
Mr Richard L Rosner, PE  
Mr Brian C Simkins, LEED AP  
Mr James R Tauby, PE

## Research Promotion (Cont'd. from Page 6)

### A Glance at What Your Resource Promotion Dollars Are Helping To Sponsor

#### NEW PROJECTS AWARDED

The following three projects were approved for award as follows:

- **1580-RP**, "*Study of Input Parameters for Risk Assessment of 2L Flammable Refrigerants in Residential Air Conditioning and Small Commercial Refrigeration Applications*;" Responsible Committee: **TC 3.1** (Refrigerants and Secondary Coolants); Co-Sponsor (s): None; Contractor: Navigant Consulting, Inc; Duration: 12 months; Cost to ASHRAE: \$250,000; Supports Research Strategic Goals: D2, D3 (05-10) Plan
- **1613-RP**, "*Update Climatic Design Data in Chapter 14 of the 2013 Handbook of Fundamentals*;" Responsible Committee: **TC 4.2** (Climatic Information); Co-Sponsor (s): None; Contractor: Numerical Logics Inc.; Duration: 18 months; Cost to ASHRAE: \$138,477; Supports Research Strategic Goals: A6, A7, B2, C7, D1 (05-10) Plan
- **1633-RP**, "*Data and Interfaces for Advanced Building Maintenance and Operation*;" Responsible Committee: **TC 1.4** (Control Theory and Application); Co-Sponsor (s): TC 7.5 (Smart Building Systems), TC 7.6 (Building energy Performance), and TC 7.9 (Building Commissioning); Contractor: KGS Buildings LLC.; Duration: 24 months; Cost to ASHRAE: \$266,570; Supports Research Strategic Goals: A7, B2, C6 (05-10) #1 (10-15) Plan

#### POTENTIAL PROJECTS FOR BID IN SPRING 2011

A portion (seventeen) of the following twenty-five tentative research projects that have been approved for bid are expected to be released for bid this spring.

#### Approved Work Statements to Release for Bid Spring 2011:

- **1399-TRP**, "*Survey of Particle Production Rates from Process Activities in Pharmaceutical and Biological Cleanrooms*;" Responsible Committee: **TC 9.11** (Clean Spaces); Status: **Ready to Bid.**
- **1410-TRP**, "*Effect of System Chemicals toward the Breakdown of Lubricants and Refrigerants*;" Responsible Committee: **TC 3.2** (Refrigerant System Chemistry). Status: **Ready to Bid.**
- **1413-TRP**, "*Developing Standard Procedures for Filling Climatic Data-Gaps for Use in Building Performance Monitoring and Analysis*;" Responsible Committee: **TC 4.2** (Climatic Information); Status: **Ready to Bid.**
- **1458-TRP**, "*Modeling Person-to-Person Contaminant Transport in a Mechanical Ventilation Space*;" Responsible Committee: **TC 4.10** (Indoor Environmental Modeling); Status: **Ready to Bid.**  
*The Research and Technical Activities Report – Las Vegas Meeting – February 11, 2011*
- **1495-TRP**, "*Effect of Lubricant on the Distribution of Water Between the Vapor and Liquid Phases of Refrigerants*;" Responsible Committee: **TC 3.3** (Refrigerant Contaminant Control); Status: **Ready to Bid.**
- **1499-TRP**, "*The Effect of Humidity on the Reliability of ICT Equipment in Data Centers*;" Responsible Committee: **TC 9.9** (Mission Critical Facilities, Technology Spaces and Electronic Equipment); Status: **Ready to Bid.**
- **1504-TRP**, "*Extension of the Clothing Insulation Database for Standard 55 and ISO 7730 to Provide Data for Non-Western Clothing Ensembles, Including Data on the Effect of Posture and Air Movement on that Insulation*;" Responsible Committee: **TC 2.1** (Physiology & Human Environment); Status: **Ready to Bid.**
- **1550-TRP**, "*Thermal Performance of Insulating Coating*;" Responsible Committee: **TC 1.8** (Mechanical System Insulation); Status: **Ready to Bid.**
- **1557-TRP**, "*Lab Comparison of Relative Performance of Gas Phase Filtration Media at High and Low Challenge Concentrations*;" Responsible Committee: **TC 2.3** (Gaseous Air Contaminants and Gas Contaminant Removal Equipment); Status: **Ready to Bid.**
- **1564-TRP**, "*Measurement of Oil Retention in the Microchannel Heat Exchanger*;" Responsible Committee: **TC 8.4** (Air to Refrigerant Heat Transfer Equipment); Status: **Ready to Bid.**



## Research Promotion (Cont'd. from Page 7)

- **1565-TRP**, “*Development of the ASHRAE Design Guide for Dedicated Outdoor-Air Systems*,” Responsible Committee: **TC 8.10** (Mechanical Dehumidification Equipment and Heat Pipes); Status: **Ready to Bid**.
- **1581-TRP**, “*Develop Alternate Set-up Guidelines for Unitary Air Conditioner Test Configurations Which Cannot Adhere to ASHRAE 37 /ASHRAE 116 specified Duct Dimensions and External Pressure Tap Locations*,” Responsible Committee: **TC 8.11** (Unitary and Room Air Conditioners and Heat Pumps) ; Status: **Ready to Bid. Potential \$10k in co-funding from AHRTI**
- **1584-TRP**, “*Assessment of Alternative Approaches to Predicting the Burning Velocity of a Refrigerant*,” Responsible Committee: **TC 3.1** (Refrigerants and Secondary Coolants). Status: **Ready to Bid. Potential \$15k in co-funding from AHRTI**
- **1592-TRP**, “*CHP Design Guide – Update to the Cogeneration Design Guide (1996)*,” Responsible Committee: **TC 1.10** (Cogeneration Systems); Status: **Ready to Bid**.
- **1603-TRP**, “*Role of HVAC Systems in the Transmission of Infectious Agents in Buildings and Intermodal Transportation*,” Responsible Committee: **TC 9.3** (Transportation Air Conditioning); Status: **Ready to Bid**.
- **1604-TRP**, “*Demand Controlled Filtration for Clean Rooms*,” Responsible Committee: **TC 9.11** (Clean Spaces); Status: **Ready to Bid**.
- **1606-TRP**, “*Laboratory Testing of Flat Oval Transitions to Determine Loss Coefficients*,” Responsible Committee: **TC 5.2** (Duct Design); Status: **Ready to Bid**.  
*The Research and Technical Activities Report – Las Vegas Meeting – February 11, 2011*

### Approved Work Statements Still On-Hold for Bid:

- **1447-TRP**, “*Performance of Pressurized Stairwells with Open Doors*,” Responsible Committee: **TC 5.6** (Control of Fire and Smoke); Status: **Ready to Bid**.
- **1462-TRP**, “*Active Mechanisms for Enhancing Heat and Mass Transfer in Sorption Fluids*,” Responsible Committee: **TC 8.3** (Absorption and Heat Operated Machines); Status: **Ready to Bid**.
- **1491-TRP**, “*Literature and Product Review and Cost Benefit Analysis of Commercially Available Ozone Air Cleaning for HVAC Systems*,” Responsible Committee: **EHC** (Environmental Health Committee); Status: **Accepted for bid 11.01**.  
Work with MORTS to finalize RFP so project can possibly bid fall 2011.
- **1529-TRP**, “*Full-Frequency Numerical Modeling of Sound Transmission in and Radiation from Lined Ducts*,” Responsible Committee: **TC 2.6** (Sound and Vibration Control); Status: **Ready to Bid**.
- **1535-TRP-C**, “*A Heat Transfer and Friction Factor Correlation for Low Air-side Reynolds Number Applications of Compact Heat Exchangers*,” Responsible Committee: **TC 8.4** (Air-to-Refrigerant Heat Transfer Equipment); Status: **Conditionally accepted for bid 11.01**. Work with Research Liaison to resolve RAC’s approval conditions by so that project can possibly bid in fall 2011.
- **1546-TRP**, “*Expansion and Updating of the Air Diffusion Performance Index Method*,” Responsible Committee: **TC 5.3** (Room Air Distribution); Status: **Accepted for bid 11.01**. Work with MORTS to finalize RFP by September 15th so project can possibly bid fall 2011.
- **1556-TRP**, “*Characterization of Liquid Refrigerant Flow Emerging from a Flooded Evaporator Tube Bundle*,” Responsible Committee: **TC 1.3** (Heat Transfer and Fluid Flow); Status: **Ready to Bid**.
- **1602-TRP**, “*Thermal-Fluid Behavior of Mixed Refrigerants for Cryogenic Applications*,” Responsible Committee: **TC 10.4** (Ultra-Low Temperature Systems and Cryogenics); Status: **Accepted for bid 10.10**. Work with MORTS to finalize RFP by September 15th so project can possibly bid fall 2011.

## Research Promotion (Cont'd. from Page 8)

### CONTRIBUTIONS CAN BE MADE IN THE FOLLOWING WAYS:

1) You can mail your checks, made out to ASHRAE Research Promotion, to:

Andrew Manos  
ASHRAE Research Promotion Chair  
c/o Stony Brook University  
Campus Planning, Design and Construction  
Research and Support Services, Suite 160  
Development Drive, Stony Brook, NY 11794-6010

2) You can bring your check to any of the meetings and give it to me. I will mail it into headquarters.

3) You can contribute via paypal from the ASHRAE LONG ISLAND web site just click on the donate button.

4) You can contribute directly on-line. [www.ashrae.org](http://www.ashrae.org)

**\* Please make sure your credit your contribution to the LONG ISLAND CHAPTER 006 \***

Thank you again for all your support!

**Andrew Manos, LEED AP**  
**Research Promotion Chair**

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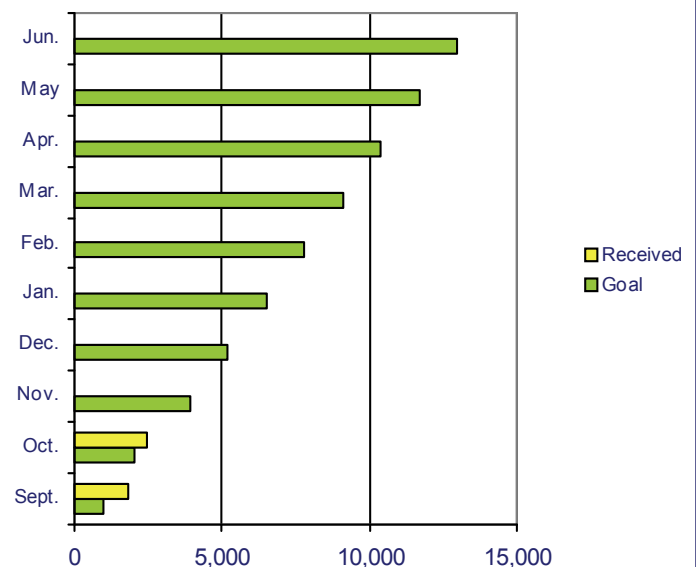
#### Important Contacts:

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John Rhodes  
RP Committee Chair  
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[Gopher56@swbell.net](mailto:Gopher56@swbell.net)

ASHRAE RESEARCH PROMOTION

**Chapter Research Promotion Goal  
For 2011-2012 - \$13,881**



## CTTC - Code Changes Made Easy

Easy...or, maybe not. Much as the apocryphal man seeking directions to Carnegie Hall...who is told ..."practice"...there is really no "easy" way to stay abreast of all the codes and standards which are relevant to the HVAC field. We are, it seems, surrounded by a virtual alphabet-soup of Codes....ICC, IBC, IRC, IMC, IPC, IFC and so on. The number of codes can be overwhelming, however, if we take a common-sense approach, understanding what codes are germane and how to apply them will follow a logical path.

It is important to take a step back to get the big picture...don't ignore requirements just because it doesn't have HVAC or mechanical systems in the title. Seismic requirements? Why worry about that, our systems don't support buildings, the building support them! Where were you on August 23, 2011? Yes, Long Island can experience seismic events. While the magnitudes won't be equal to the San Francisco Earthquake, every piece of equipment, piping, duct and valve was subjected to stresses outside of the normal envelope. Fuel gas piping to duct heaters or roof-top units need to be sufficiently supported or isolated to endure these events without damage. Hot water or steam piping, if not able to sustain the seismic related stresses could fail and result in personnel injury. For buildings designated as shelters, loss of heating or cooling could render the facility unusable. Wind Loads? Securing a roof-top unit or exhaust fan to its curb with a couple of screws will not suffice if a category 3 or 4 hurricane is barreling through the area.

So...we've taken a step back, looked at all the codes, identified the ones which have a direct bearing on the mechanical systems/piping/ductwork in our bailiwick...what now? We need to look at codes covering other disciplines which could affect the HVAC design/installation. With increased requirements for energy efficiency and so-called "Green" buildings, the design and installation of an HVAC system cannot be accomplished in isolation from the other elements of design.

A complete treatise on every code requirement is beyond the scope of a short article, such as this, however, looking at upcoming code changes would illustrate both the direct and indirect effects on HVAC design/installation.

Under the aegis of the International Code Council (ICC), 2012 editions of the International Building Code (IBC), International Mechanical Code (IMC), International Energy Conservation Code (IECC) and the International Residential Code (IRC) have been issued and final action on the 2012 edition of the International Green Construction Code (IgCC) is scheduled to have taken place by the time you read this.

While these codes have, as their goal, achieving a 30% energy savings over current codes, each building discipline will have to coordinate with the others to a higher degree than in the past, as well as identifying requirements which will result in approaching the design and installation differently than in the past. It should be noted that these codes do not become a "requirement" until enacted, by reference, in a local, or state code and, in fact, some states and localities have chosen to not incorporate the new codes in their entirety.

So, what can we expect to change as these new codes are adopted? As the emphasis is on reduction in building energy usage, there will be more stress on increased sealing and reduced leakage. This will apply both at the component level (eg. duct leakage) and building level, to evaluate the enhanced sealing required. More emphasis will be placed on commissioning of systems to ensure that the forecast performance is attained. Additional requirements for insulation of ducts and piping will result in reduced energy consumption, however, additional coordination will be required to make sure all ducts and piping will fit into the available building cavities, given the increased envelope of the insulated pipe/duct. Increased piping insulation requirements will also have to be accounted for when incorporating seismic bracing and hangers to maintain the integrity of both the seismic protection and the thermal protection.

There will be increased reliance on controls...heating, cooling, outside air/economizer operation and lighting. While the increased use of daylighting and energy efficient lighting will reduce the lighting load, under some conditions, the loss of waste heat from "inefficient" lighting may require additional heat capacity for some climate conditions. The key will be coordination and compatibility of controls, leading to whole-building control. The increased use of solar options (either solar hydronic or solar photo-voltaic) will result in less "real estate" available on roof tops for mechanical equipment and will require additional awareness of these other technologies on the part of service personnel who may find themselves working adjacent to 600V DC photo voltaic array wiring. While most of the new codes will apply to new construction, many will apply to additions and/or modifications to the degree that such work should not make the building less energy efficient. In fact, much of the overall energy savings anticipated will be from rehabilitating existing structures to enhance their energy efficiency.

In conclusion...remember to look at the "big picture" and understand how each building system fits into the overall building energy budget and coordinate with other disciplines. Finally, keep in mind that these building codes, as most codes, if adhered to will result in a building meeting the minimum requirements.

**Don Kane, P.E.**  
**CTTC**

## History

I was preparing the article I promised on the history of air conditioning for this month when I received the news that Lynn Bellenger had passed away. Lynn was the Society's President, 2010-2011. She spoke at our chapter meeting in February this year about "Modeling a Sustainable World", her passion. She was a Professional Engineer, ASHRAE Fellow and Distinguished Lecturer. I had the pleasure of meeting her at the 2010 CRC. I was looking for a familiar face, I saw Steve Friedman and sat down for a cup of coffee at a table on a terrace at the convention center. I had a nice conversation with this wonderful woman at the table and after a while looked at her name tag to see who I was chatting with. I was surprised to see that this was our president. We had spoken or emailed several times since and it was always a pleasure chatting with her. Please read the below written by her partner of 25+ years. - Rich



It is with great sadness that we announce the death of Lynn G. Bellenger, a partner of Pathfinder Engineers & Architects LLP. Mrs. Bellenger is remembered not only as a leader in the field of energy engineering, but as a compassionate, caring and committed friend.

Mrs. Bellenger died on October 19, 2011.

Mrs. Bellenger was a founding partner of Pathfinder, which was established in 1998. Mrs. Bellenger and her three business partners founded the firm to share with clients their passion for design and analysis. During her tenure with Pathfinder, Mrs. Bellenger provided energy engineering and energy modeling services to clients in New York, and across the country. She was a leader in developing energy modeling software, techniques and standards that are common to industry practice today.

She was active in several organizations, most significantly the American Society of Heating, Refrigerating and Air Conditioning Engineers (ASHRAE). Throughout her career, Mrs. Bellenger served ASHRAE at the local, regional, national and international levels. From June 2010-June 2011, she served as the first female president of ASHRAE's board of directors, on behalf of the 55,000 members worldwide. This was the fulfillment of a long-held goal for Mrs. Bellenger, who with her husband Neil, traveled to dozens of states in the US and to nearly 20 countries including India, Egypt, Japan, and Brazil.

Mrs. Bellenger's professional career began after graduating from Principia College with a Bachelor's Degree in mathematics and from Rutgers University with a Master's Degree in environmental science. She began working at Xerox Corporation with a focus on energy conservation. While at Xerox she began her studies to become a Professional Engineer and was licensed in several states – a challenging course since her education was not in engineering. In 1977, she and Donald McGeddy, who began the energy program at Xerox, left the company to form a consultancy providing energy studies and analysis to firms nationwide. They worked together until 1991, when Mrs. Bellenger joined the former Sear-Brown Group.

She is survived by her husband, Neil, two sisters and brothers-in-law, nieces, nephews, grandnieces and grandnephews. Together, they shared a commitment to faith, a love of family, kayaking, geo-caching and family travel.

**A Memorial Fund has been established in Mrs. Bellenger's name. The Memorial Fund will be used to recognize women in engineering through scholarships or other means. Donations can be made through the Ashrae website as follows:**

**<https://xp20.ashrae.org/secure/LynnBellengerMemorial/index.php>**

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David J. Meyer, PE, LEED AP BD+C | Pathfinder Engineers & Architects, LLP Partner

**Richard Rosner, P.E.**  
**History Chairman**

**John Nally**  
**Asst. Chairman**

## Student Activities

Our November meeting is designated a student activates night. We welcome our student members to this meeting. The dinner meeting will be free for those student members. In addition we will be supporting students who decide to join our chapter. Bring your filled out membership application for student membership! We look forward to seeing you.

Students who are currently enrolled or soon to be enrolled in an engineering undergraduate degree should take a look at [www.ashrae.org/scholarships](http://www.ashrae.org/scholarships) . There are 13 undergraduate scholarships available ranging from 10,000 to 3,000 dollars! For those enrolled in an BS Engineering Technology there are three 3,000 dollars scholarships available. Lastly there are two 3,000 dollar school for high school students who are rising in to an engineering related program. If you would like more information take a look at the website or see me.

The ASHRAE Senior Undergraduate Project Grant Program is still accepting applications. This program provides grants to engineering, technical and architectural schools worldwide with the goal of increasing student knowledge, learning and awareness of the HVAC&R industry through the design and construction of senior projects. Grants are to be used to fund equipment and supplies for senior projects and 2-year technical school projects that focus on ASHRAE-related topics. Grants may cover projects lasting from one academic term up to one year.

Learn More Here: <http://www.ashrae.org/students/page/743>

**Andrew B. Dubel, P.E.**  
**Student Activities Committee Chair**



### **Donate your old Handbooks**

*Please bring your old handbooks to the meetings for donations to our student members who do not have complete sets at this time. Rich Rosner will be collecting them.*

## Membership

Our chapter will hold two Membership nights and they will be during the November and February monthly meetings. Please visit the ASHRAE website at <http://www.ashrae.org> to review and update your bios, and to check if you are up to date with your membership dues. We are always looking for new members to join and attend our meetings. ASHRAE is looking to retain more student members thru their smart start program. Student members should look into this program. It will help you adjust to the membership status. Please see the ASHRAE website for more information. I'm looking forward to seeing everyone after this summer break.

**Charlie Lesniak**  
**Membership Chairman**



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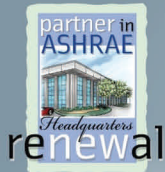
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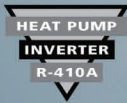


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