

THE LONG ISLAND SOUNDER

October 2006



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

www.ashraeli.org

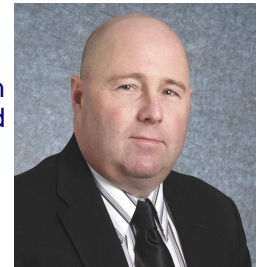
American Society of Heating, Refrigerating and Air Conditioning Engineers, Inc.

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President's Message

Greetings. I would like to start by thanking everyone who attended last month's dinner meeting. It was good to see some old faces and some new. Mr. Bergamini from ADE delivered an interesting presentation on characteristics of throw for overhead air distribution systems, and we thank him and his organization for the work and effort. As always it was a pleasure to see some of our past presidents at the meeting supporting the chapter. No matter what level of experience you have, you can always pick up a few tips from these lectures so pencil in our next meeting on your calendar.



As many of you are aware, we recently lost one of our chapter members, Mr. Dan Greenidge. Dan succumbed to his illness with ALS and died peacefully at his home surrounded by loved ones. Our hearts go out to Dan's family and his presence will be missed.

I recently participated in a teleconference conducted by Gary Myers our Director and Regional Chair for ASHRAE Region 1. Gary thought it would be a good idea for all the RVC's and chapter presidents to chat once a month, discussing regional and chapter business. It turned out to be a good forum. We all had a chance to talk about CRC planning, region activities and what's going on in our own chapters. It's informative and a good way to discuss current issues and new ideas. I would encourage our members to speak up and contact me if you have an idea or something you would like me to discuss with the group. Gary is also planning a visit to our chapter at the November meeting, so dust off your shoes and come out and meet him.

ASHRAE is a valuable resource for the HVACR community and should be on your contact list as an information source. Almost daily I receive messages from Society or the Region passing on some news or data. Today I received an update on the "changes related to ETS and Ventilation Proposed for ASHRAE 62.1". You will find a re-print of this message in the newsletter. As you can imagine, there is far too much information exchanged electronically in a months time to relay to you through this publication. I would recommend that everyone log on the ASHRAE website at least once a week to keep current. Log on to www.ashrae.org.

Here is an idea I like to put out to our members. Some of the other chapters in our region have conducted monthly lunch or breakfast meetings in lieu of the dinner meeting. They have found it was better for a number of people and increased the attendance and

CHAPTER MONTHLY MEETING

DATE:	Tuesday, October 10, 2006
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@atofny.com
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Treasurer	Richard E. Gerbe	718.269.3753	718.269.3598	rgerbe@trane.com
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Board of Governors	Carolyn Arote	516.256.4800	516.256.3299	carote@airdist.com
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
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Nominating	Michael Gerazounis, P.E.	212.643.9055	212.643.0503	mgerazounis@mgjassociates.com
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PR & Engineering Joint Council of LI	Richard E. Gerbe	718.269.3753	718.269.3598	rgerbe@trane.com
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President Message (Cont'd. from Page 1)

success of the meetings. Now hold on, put down the phone, were not making any immediate changes. Take some time and think about your own schedule and what may be best for you. If you have any thoughts, drop me an e-mail.

You won't find much if any information in the ASHRAE handbooks about the topic discussed at this month's meeting. Yet it is just as important as the best design or the perfect installation. Engineering sciences aside, every job has a legal aspect and a contract that must be prepared, agreed to and executed. Understanding your responsibility and liability is key to a successful project. This month's presentation features Mr. Scott K. Winikow, Esq. from the law firm of Zetlin & De Chiara, LLP who will discuss contract provisions and risk aversion. This lecture is a must for owners / principals, project managers, contract officers, estimators and anyone who wants to sleep well at night. See you all at the meeting.

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 TBD
November 14, 2006 * At Westbury Manor Dinner Presentation - High Performance Design Guide for Energy Efficient Commercial Buildings	April 10, 2007 FIELD TRIP - TBD
December 12, 2006 Holiday Party - TBD	May 7, 2007 * Cherry Valley Club, Garden City, NY ANNUAL GOLF OUTING
January 9, 2007 TBD	May 15, 2007 TBD
February 13, 2007 * At Westbury Manor JOINT MEETING WITH SMACNA Dinner Presentation - TBD	June 12, 2007 * At Westbury Manor PAST PRESIDENTS & OFFICER INSTALLATION TBD
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	0	0	0	0	0	0	0

Board of Governors Meeting Minutes

A meeting of the Board of Governors was held on 9/12/06 at the Westbury Manor. Present at the meeting were: John Nally, Peter Gerazounis P.E., Steven Friedman, Richard Gerbe, Nancy Roman, Carolyn Arote and Brian Simkins. The meeting was called to order at 5:05 PM and the following was discussed:

John Nally opened the meeting and requested committee status:

Treasurer Report – Rich Gerbe reported a checking account balance of 18,071.53 and a balance of 7,307.19 in the Merrill Lynch account. All past due golf outing invoices have been paid. All payables are current. We received an assessment from Region 1 in the amount of \$ 1,075.08. it was accepted by the board and a check was issued. CRC re-imbursement checks for lodging were issued to conference attendants.



Programs – Peter Gerazounis reported that dinner lectures for September, October, November and January have been confirmed. Tentative joint meeting dates are February for SMACNA and March for ACCA. A discussion on the holiday party ended with a vote to have the event at the Westbury Manor, date to be determined.

Research Promotion – Steve Friedman reported that this year's goal set by Society is \$ 13,000.00. Steve has begun the campaign to reach the goal. Full circle participation by the board members is suggested. Donor recognition night for last year's contributors is scheduled for the November meeting.

Student Activities – Brian Simkins is coordinating visits to the local schools. The board agreed to continue the previous policy of paying the new student member's first years dues. Student nights will be scheduled for the November and March meetings. Scholarships sponsored by our chapter will be discussed at future meetings.

Membership – Carolyn Arote reported that she will be ordering the membership promotion materials from Society and is actively pursuing new members and candidates for advancement. Carolyn to coordinate with Brian for new student members. Membership promotion nights will be held at the February and May meetings.

History – Nancy Roman reported that she is preparing a MBO for this year's activities. The printed archives have been transferred to Nancy and all records beginning 2005 are electronically kept. Past presidents and history night will be held at the June meeting.

Website – Rich Gerbe reports no new activities. The board discussed the site host and procedures. A suggestion to change the host and format was made. Board members to research and report at the next meeting.

Other – A general discussion ensued about the 50th anniversary for the chapter and possible events related to the anniversary. A committee has been formed and will be chaired by Alan Goerke.

Meeting adjourned 5:55 PM

Nancy Roman - Secretary

General Meeting Minutes

John Nally called the regular monthly meeting to order at 7:00 PM. Introductions were made and the committee chairs provided brief updates. The dinner lecture featured Mr. Frank Bergamini from Air Distribution Enterprises who spoke on the "Characteristic of Throw for Overhead Air Systems". The lecture earned 1 PDH credit for participants.

Meeting adjourned 8:50 PM.

**Nancy Roman
Secretary**

October Chapter Meeting - Program

You are cordially invited to our October Dinner Meeting:



Dinner Presentation

“Contract Provisions & Risk Aversion”

Presented by

***Scott K. Winikow, Esq.
Zetlin & De Chiara, LLP***



DATE:	TUESDAY, OCTOBER 10, 2006		
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 found @ www.ashraeli.org <i>Pre registration not required. Business attire suggested.</i>		
Presentation:	This seminar will provide participants with the knowledge and practical insight that is necessary to understand various legal issues associated with negotiating and entering into construction contracts. We will explore specific issues that should be addressed in construction contracts, with a focus on the construction administration services that an engineer is required to perform. In addition, we will also discuss issues relating to risk management, including ways in which an engineer can seek to limit its liability or shift its liability onto another entity. If time permits, the seminar will conclude with a question and answer session.		
About our Speaker:	<p>Scott K. Winikow, Esq. is a Principal with Zetlin & De Chiara LLP, a construction law firm with offices located in Westbury and New York City. Mr. Winikow represents design professionals, owners, developers, contractors and construction managers in all areas of construction law. He has represented clients in commercial and construction litigation matters in federal and state courts, as well as arbitrations and mediations. In addition, he also advises clients on business-related matters, contracts and risk management.</p> <p>Mr. Winikow received his undergraduate degree from Cornell University and his law degree from The George Washington University, where he graduated with honors and was a member of The George Washington University Journal of International Trade and Economics. He is admitted to practice law in New York, New Jersey and Florida and is a member of the Nassau County Bar Association. Mr. Winikow co-authored Chapter 9, <i>Mechanic's Liens</i>, New York Construction Law (Aspen 2002) and has conducted seminars on construction issues for various organizations.</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.



Membership

Continued membership is what keeps us growing stronger. I encourage every current member to reach out and invite someone new to come to a meeting. If they sign up that day their meal will be free. Also for each new member you recruit Society will give you a 10 dollar certificate you can use towards your dues or society purchases.

If you have been delinquent in paying your society dues please catch up. There is no reason you should lose a year of membership for a simple mistake. If you think you might be one of the above mentioned ask me and I will let you know for sure.

Carolyn Arote
Membership Chairman

Research Promotion

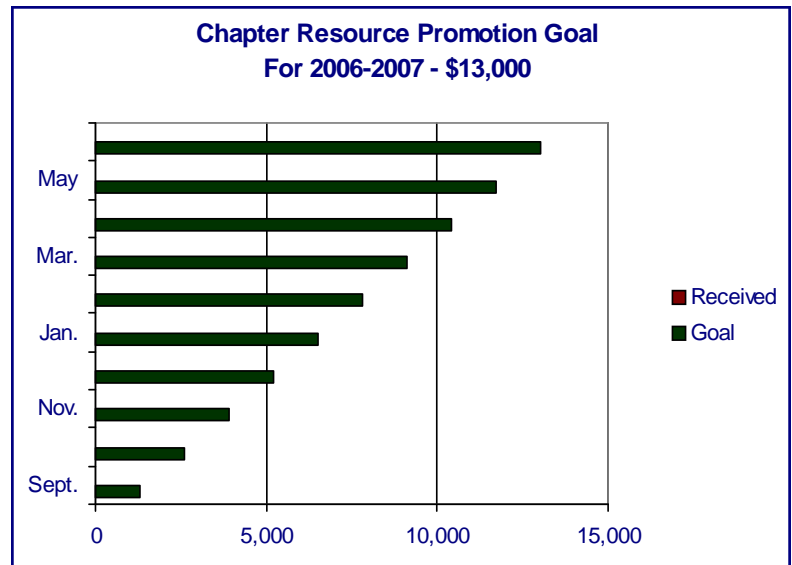
I would like to thank and recognize the individuals and firms who have contributed financially last year to ASHRAE Research. Thanks to your generosity and the efforts of Steven Giammona PE, the chapter raised over **\$13,000.00**. This year we are expecting to exceed last year's contributions and I am asking everyone to contribute to this worthy cause. I will be sending you shortly, a letter asking for your continued financial donation. Please take a moment of your time and write a check or go online and contribute at www.ashrae.org.

This year at our November dinner meeting, it will be Resource Promotion night and we will be honoring those who contributed to last years Research fund. There will be a number of donor recognition awards presented and I will be contacting the recipients shortly. Mark your calendar for November 14th, for this important meeting and show your support to the industry that supports you.

Last Years Contributors as follows:

Marcel A. Bally	Robert A. Leventhal	Concessi Engineering
Michael P. Bladykas	Joseph V. Marino	County Fair Air Conditioning
Adrian T. Bogart, Jr.	Craig D. Marshall	EMTEC Consultants
Joseph Bonifazio	John D. Nally	GA Fleet
Andrew S. Braum	Jerome T. Norris	Gil-bar Industries
John C. Cronin, Jr.	Michael O'Rourke	Lizardos Engineering Assoc
Claudio Darras	Robert A. Rankel	MSW Equipment
Steven Friedman	Raymond G. Schmitt	Trane
Rick Gaska	Fred H. Weber	SMACNA Long Island
Steven Giammona	Howard B. Weitzman	SRS Enterprises
Michael Gerazounis	Accuspec Incorporated	ASHRAE Long Island
Peter Gerazounis	ADE Systems	Bush Wholesalers
Richard Gerbe	Anron	Concessi Engineering
Arthur A.Huebner	Applied Technologies Inc	County Fair Air Conditioning
Robert W. Kane	ASHRAE Long Island	EMTEC Consultants
Ronald J. Kilcarr	Bush Wholesalers	

Steven Friedman
Research Promotion Chairman



History

Looking through the history archives there are old news paper articles, letters, pictures, memos, post its, anything one could possibly write on, etc.... The old yellowing paper not only held the smell of history but interesting historical facts about Long Island, ASHRAE, Long Island Chapter structure and requirements and evolution, people, statements, projects. Just to share a few...

The American Society of Heating & Ventilating Engineers, ASHVE, was incorporated in the State of New York on January 24, 1895. It then evolved to be known as the American Society of Heating, Refrigerating and Air Conditioning Engineers, ASHRAE, which we are a part of today.

Found in Nassau County today, Hempstead was originally called Heemstede, an English town under Dutch rule settled in 1643. Numerous tribes of Indians lived in and roamed through today's Westbury, home to Westbury Manor where ASHRAE Long Island Chapter meetings are held today.

The first organizational meeting held on September 12, 1957 at Willis Ave. School in Mineola was called to order by Mr. John Everette Jr., the regional Director of Society. At this meeting Mr. Henry J. Campbell Jr. was named the temporary chairman.

The Long Island Chapter obtained a charter in October of 1957 and the first president was Mr. Henry J. Campbell Jr..

At the first Board of Governors meeting, it was decided that the first general meeting was to be held in mid January and the cost of dinner would be \$3.

All members were notified via postal cards and local newspapers where meeting notices were advertised.

Nancy Roman
Chapter Historian



Student Activities

I am looking for additional recommendations for schools to visit for Student Activities. If you have an alma mater or a local K-12 School you think may be interested in participating in our programs please let me know. There are lots of great networking opportunities for the students and many scholarships available as well. Student nights will be in November and March if you have any engineering student in your office or student contacts please invite them to join us.

UNDERGRADUATE ENGINEERING SCHOLARSHIPS – APPLICATION DEADLINE: DECEMBER 1, 2006

Available to undergraduate college/university students pursuing a Bachelor of Science or Engineering degree in a course of study, which traditionally has been a preparatory curriculum for a career in HVAC&R.

The ASHRAE Scholarship Program is designed to encourage and assist in the education of men and women pursuing a career in the field of heating, ventilating, air conditioning and refrigeration (HVAC&R) through its granting of scholarships and fellowships. The program also serves the public interest by aiding in the education of men and women to become qualified to practice as engineers in the HVAC&R field.

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

Brian Simkins
Student Activities Committee



ASHRAE Standards

The following message is a re-print of a release sent out by ASHRAE Society.

Changes Related to ETS and Ventilation Proposed for ASHRAE 62.1

ATLANTA – Ventilation for smoking areas returns to center stage through a proposed addendum to ASHRAE's Standard 62.1. Proposed addendum I will be open for public comment until Nov. 6. To read the proposed addendum and comment, visit www.ashrae.org/publicreviews.

ANSI/ASHRAE Standard 62.1-2004, Ventilation for Acceptable Indoor Air Quality, specifies minimum ventilation rates and indoor air quality requirements for commercial and institutional buildings.

The proposed addendum removes the existing requirement for an increase to the ventilation rates prescribed in Table 6-1 (and/or an increase in air cleaning) for smoking areas. It also strikes informative language explaining why specific rates for smoking areas cannot be prescribed, adds a reference to Section 5.18 smoking-related separation requirements, and strikes a requirement in Table 6-1, Note 2, to determine smoking-permitted area rates using means other than the table.

"The proposed changes, based in part on recent position statements issued by World Health Organization and the U.S. Surgeon General, reflect the opinion of cognizant authorities that no safe level of environmental tobacco smoke exists," Dennis Stanke, chair of the 62.1 committee, said. "Whether the proposed changes also reflect the opinions of Standard 62.1 stakeholders will be determined during the public review process. The eventual content of the standard depends on the valuable participation of all interested parties."

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.

CTTC

Outdoor Air Ventilation Standard Ashrae 62.1-2004

ASHRAE credits lessons learned in 30 years of ventilation, input from design engineers and recent developments in research for the latest changes made to ANSI/ASHRAE Standard 62.1-2004, *Ventilation for Acceptable Indoor Air Quality*. in the procedure for calculation ventilation rates for commercial and institutional building. ASHRAE's updated ventilation standard boasts a more accurate ventilation determination procedure, which often leads to reduced outdoor air quantities. With outdoor air loads often accounting for 25% of the total cooling load, this is a welcomed change. The only draw back, it's complicated! The simple days of designing a system for 15 cfm per person are over. ANSI/ASHRAE Standard 62.1-2004, *Ventilation for Acceptable Indoor Air Quality*, has outlined a procedure that shall be followed to determine the outdoor air rates for a system.

The new standard explicitly recognizes buildings a source of indoor air pollutants and explicitly accounts for ventilation efficiency. The calculation can be divided into six steps. Follow each step in order, all tables referenced herein are found in Ashrae Standard 62.1-2004.

STEP ONE

Zone Calculations:

The design outdoor airflow required in the breathing zone of the occupied space or spaces in a zone shall be referred to as *Breathing Zone Outdoor Airflow* (V_{bz}) and shall be calculated based the following formula.

$$V_{bz} = R_p P_z + R_a A_z$$

Where:

A_z = occupiable floor area (ft^2)

P_z = zone population Table 6-1

R_p = outdoor airflow per person Table 6-1

R_a = outdoor airflow rate per unit Table 6-1

Cont'd. on Page 10

CTTC (Cont'd. from Page 9)

The breathing zone is defined as the region within an occupied space between planes 3 and 72 inches above the finished floor and more than 2 ft from walls or fixed air conditioning equipment.

STEP TWO

Based on the air distribution system the effectiveness of the outdoor air to mix into the room is affected. Step 2 adjusts the zone air requirements based on a *zone air distribution effectiveness* value. This value is referred to as E_z and is located in Table 6-2

Once the E_z is calculated, the *breathing zone outdoor airflow* (V_{bz}) is adjusted and the *zone outdoor airflow* is calculated using the formula:

$$V_{oz} = V_{bz}/E_z$$

STEP THREE

By using Table 6-3 to determine the system ventilation efficiency, the *zone primary outdoor airflow fraction* (Z_p) shall be determined.

$$Z_p = V_{oz}/V_{pz}$$

Where

V_{oz} = zone outdoor airflow

V_{pz} = zone primary airflow to the zone from the AH including O.A. & R.A.

Note: VAV system V_{pz} is the minimum expected primary airflow for design purposes.

STEP FOUR

The *zone primary outdoor air fraction* is then used to look up the *System ventilation efficiency* (E_v) found on table 6-3. The *zone primary outdoor air fraction* shall be determined for each individual space. Only the largest *zone primary outdoor air fraction* Z_p shall be considered when determining the *System ventilation efficiency*.

STEP FIVE

The design *uncorrected outdoor air intake* (V_{ou}) shall be determined in accordance with the equation below.

$$V_{ou} = D \sum_{\text{all zones}} R_p P_z + \sum_{\text{all zones}} R_a A_z$$

The *occupant diversity* (D) shall be used to account for variations in occupancy within the zones served by the system.

$$D = P_s / \sum_{\text{all zones}} P_z$$

P_s = system population = total population in the area served by the system.

STEP SIX

The *System ventilation efficiency* calculated in Step 4 is now used to correct the *outdoor air intake*. This is the final step and shall yield the *outdoor air intake flow*. This is the outdoor air volume that shall be introduced into the system at the air handler. *Outdoor air intake flow* (V_{ot}) is calculated as follows

$$V_{ot} = V_{ou}/E_v$$

For your convenience an Ashrae 62.1 spreadsheet can be found on the chapter website located at www.ashraeli.org. This spreadsheet is a tremendous reference and will aid in designing ventilation systems. Further information on this and other standards, including addendums and interpretations, can be found on the Ashrae website. Visit www.ashrae.org for details.

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

CLASSIFIEDS

Instructor(s) Needed !!!! – HOFSTRA University

The Engineering Dept. is looking for an instructor to teach selected topics in the PE Review for the breadth part of Mechanical Engineering Part B (Principles and Practice) Module. The course is during the period December 16 through mid April. The sessions are given Saturday mornings from 8:30 to 12:30. The specific dates during the above period will be worked-out among the instructors in the course.

Areas for the exam are given on the www.ncees.org website. The Dept. specifically needs instructor(s) for the thermal fluids area. One topic includes HVAC and Refrigeration Knowledge (Principles of Psychometrics, Thermodynamics, and Cooling/Heating Cycles).

Instructor(s) are also needed for other areas of thermal fluids (Principles of compressible flow and stress analysis; Applications of Hydraulic Pumps (pressure loss and efficiency); Principles of thermodynamic cycles and thermodynamic properties; Analysis of Systems and Components - Energy Balances and Pumps/Compressors. There are also future opportunities for various topics in the Part A Fundamentals PE Review Course.

Interested candidates should contact Dr. Ronald Alvarez at 516-463-5548 or Ronald.Alvarez@hofstra.edu

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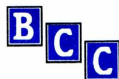
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Thomas E. Luerssen
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