

THE LONG ISLAND SOUNDER

October 2003



ASHRAE Long Island Chapter, Region 1

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

Inside this issue:

President's Message	1
LI Chapter Officers & Committees	2
Meeting Schedule	3
PAOE	3
October Program	4
Board of Governors	5
General Meeting Min.	5
History	6
Resource Promotion	6
Membership	7
LI Chapter Past Pres.	7
CRC 2004	7
Student Activities	7
TEGA	8
Classifieds	9
Advertisements	9,10

President's Message

September's meeting had a great turnout. I was pleased with the new location chosen for our meetings. Since it was our first time there, we will continue to build a smooth meeting format.

Thank you to Evans J. Lizardos, P.E., John E. Lizardos, P.E. and Julian R. de Bullet for their interesting presentations. We are excited about the new newsletter, **The Long Island Sounder**. Congratulations to our Newsletter Name Contest Winner, **Mr. Frank Morgigno**.

On behalf of the Board of Governors, I would like to congratulate Craig and Kristen Marshall on the birth of their son, Colin Marshall on

September 5, 2003. This past month, I spoke to each Board Member and committee chair by phone, and I am pleased with the progress we are making so early in the year.

The CRC is on schedule. Lynn Bellenger, our Region 1 DRC will be attending our CRC planning meeting at 3:30 on October 14, 2003. Immediately after the CRC meeting is our regular meeting. CRC Committee members recently met with the hotel to prepare a final cost analysis, which will be used for establishing registration costs.

Our chapter website, www.ashraei.org, is on the verge of completion. The website committee is tirelessly working with our web designer to finalize the format and then populate the site with the information.

John Nally is working on enriching our Long Island archives with any old ASHRAE



or HVAC related items. If anyone has anything to contribute to our chapter, John would certainly appreciate that. Steven Friedman is charged with Resource Promotion. All donations are gladly accepted. Our chapter is judged on how much money we collect as a function of our number of members, lets all work to increase our ratio!

FYI: Valet parking is not required at the Westbury Manor, simply Self Park, if that is what you prefer.

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

CHAPTER MONTHLY MEETING

DATE:	Tuesday, October 14, 2003
TIME:	6:00 PM - Cocktails/Dinner 7:00 PM - Technical Presentation 8:00 PM - Dinner Presentation 9:00 PM - Conclusion
LOCATION: <i>* New Location</i>	Westbury Manor* South Side of Jericho Tpke. 25 Westbury, NY 11590
FEES:	
Members -	\$30.00
Guests -	\$35.00
Student Members -	\$15.00

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



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

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Chapter Monthly Meeting - Program for 2003/2004

SEPTEMBER MEETING RECAP - The evening started with a very informative presentation named "Choosing Chiller Technologies" by Evans J. Lizardos, P.E. - past LI Chapter President, and John E. Lizardos, P.E., both from Lizardos Engineering Associates, P.C. This presentation, based on their engineering analysis published in Engineering Systems magazine, discussed a method to account for the variables involved in the chilled water decision for a given project.


The dinner presentation was "Chiller Plant Design, Variable Flow and Low Delta T Syndrome" presented by Julian R. de Bullet, an ASHRAE distinguished Lecturer and past ASHRAE Vice President. This outstanding presentation offered advice and guidance on how to design chilled water systems utilizing variable flow design, in compliance with ASHRAE 90.

We thank Julian, Evans, and John for taking the time to speak to us and sharing their knowledge and ideas. Thanks again for those superb presentations. If you did not attend our last meeting, let us know as we may get you a copy of Evans and John's article. You may also want to download the Application Guide AG31-003-1: Chiller Plant Design (pdf file) from:

www.mcquay.com/eprise/main/mcquaycom/productinfo/systems/MQC_systems_Overview.

We would like to hear your suggestions for future presentations. Send an e-mail to cdarras@akf-eng.com.

We hope to see you at the October meeting.

September 9, 2003  Technical Session - Choosing Chiller Technology Dinner Lecture - Chiller Plant Design, Variable Flow & Low Delta T Syndrome	February 22-28, 2004 NATIONAL ENGINEERS WEEK
October 14, 2003 STUDENT ACTIVITIES NIGHT Technical Session - Sand Filters & Centrifugal Separators Dinner Lecture - Available Cooling Tower Technology	March 9, 2004 STUDENT ACTIVITIES NIGHT Technical Session - To be announced Dinner Lecture - To be announced
November 11, 2003 MEMBERSHIP/RESEARCH PROMOTION NIGHT Joint Meeting with SMACNA Trade Presentation	April 13, 2004 Field Trip - To be announced
December 9, 2003 Holiday Party	May 11, 2004 REFRIGERANT NIGHT Technical Session - To be announced Dinner Lecture - To be announced
January 13, 2004 Technical Session - To be announced Dinner Lecture - To be announced	June 8, 2004 PAST PRESIDENTS & OFFICER INSTALLATION Technical Session - To be announced Dinner Lecture - To be announced
January 24-28, 2004 ASHRAE Winter Meeting and Trade Show Anaheim, CA	June 26-30, 2004 ASHRAE Annual Meeting Nashville, TN
February 12, 2004 Joint Meeting with NYC Chapter at UN International School, Manhattan. Special Presentation by Richard H. Rooley (ASHRAE President 2003-2004)	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		50						50

**This is just the start of the new chapter year. We look forward to increasing these numbers very soon!
 In next month's issue look for a summary describing the Presidential Award of Excellence (PAOE).**

October Chapter Meeting - Program

You are cordially invited to our October 2003 Meeting



Technical Session Presentation
Fundamentals of Cooling Tower Technology

&

Dinner Presentation
Advanced Topics on Tower Applications



By Amita J. Shreenath and John A. Boyd (BAC)

Date:	Tuesday, October 14, 2003
Time:	6:00 PM – 6:45 PM - Cocktails and Hors D'oeuvres 7:00 PM – Technical Session Presentation 8:00 PM – Dinner Presentation 9:00 PM – Conclusion
Location:	WESTBURY MANOR (516) 333-7117 - <u>New Meeting Location</u> Jericho Turnpike (South Side), 3/10 of mile east from Glen Cove Rd., Nassau County, NY. Please Contact Claudio Darras at cdarras@akf-eng.com for directions.
Presentation:	<p><u>Fundamentals of Cooling Tower Technology:</u> How can I decide and evaluate which CT is the best for my new project? How can I determine if it's cost effective?. Why should I use a CT in the first place?. What are the different kinds of cooling tower technologies available nowadays?</p> <p>This presentation will provide a practical interactive approach to understanding the methods used to select and layout cooling towers.</p> <p><u>Advanced Topics on Tower Applications:</u> In this presentation, Amita and John will expand on above concepts and will present real world scenarios, which they will analyze interactively with you. It will be a great opportunity to review the skills required to detect, understand, and resolve actual and common CT problems.</p> <p>You are cordially invited to attend to these presentations and ask that question that you had to these experienced engineers, and learn one thing or two about the old Cooling Towers.</p>
About our Speakers:	<p><u>Amita J. Shreenath</u>, is a Sales Engineer for Baltimore Aircoil Co. in the NYC office. Her extensive experience includes 8 yrs. of HVAC experience performing as Project, Systems, and Sales Engineer at BAC's corporate office, and as Management Strategy Consultant. Amita holds a B.S. in Mechanical Engineering and a MBA in International Business and Marketing.</p> <p><u>John A. Boyd</u>, is a Sales Engineer for Baltimore Aircoil Co. also in the NYC office. His extensive 22 years of HVAC experience in HVAC design, construction, and equipment application positions. Mr. Boyd holds a B.S. in Mechanical Engineering.</p>

Board of Governors - Meeting Minutes

A meeting of the Board of Governors was held on 9/9/03 at the Westbury Manor. Present at the meeting were: Andrew Braum, P.E., Claudio Darras, P.E., Richard Gerbe, Michael Gerazounis, P.E., Peter Gerazounis, P.E., Steven Giammona, P.E., John Nally and Steven Friedman. (CRC Attendees: Alan Goerke, P.E., Joe Marino and Ray Combs). The meeting was called to order at 5:20 pm and the following was discussed:

Andrew Braum opened the meeting and called for committee reports:

Programs – Andrew Braum would like to designate a meeting manager to greet topic speakers and help them get set-up for their presentations. Claudio Darras to arrange. Claudio Darras mentioned that there are still positions available for guest speakers for the balance of the year. Anyone interested please contact Claudio at 212-354-5656. This agenda needs to be submitted by October 1st for PAOE points. November will have distinguished guest speaker, Mr. Ely Howard, Topic: International Building Code.

Research Promotion – Andrew Braum suggested to show a level of contribution dollars in the newsletter. Steven Friedman to obtain resource promotion monthly report.

Newsletter – All newsletter articles are due by October 1, 2003. Andrew Braum expressed his congratulations to Liset Pena and MGJ for doing a fantastic job with the newsletter. MGJ to issue a bulletin for a newsletter naming contest. The winning name is to be used for the October Newsletter.

History – John Nally requests that the chapter look into history archives for historical displays, gavels, contributions, etc. for future articles.

Student Activities – Steve Giammona suggests that for Student Activities, Dr. Forsberg, P.E. who is a professor at Hofstra University make



a presentation at one of our meetings. Dr. Forsberg received a \$5,000 grant from ASHRAE for a heat pump laboratory project. October 2003 and March 2004 are Student Member Promotion Night.

Website – Claudio Darras has contacted Roberta from the Connecticut ASHRAE Chapter regarding the Long Island Chapter website. The BOG to review web page set-up and comment. The BOG has unanimously approved her proposal to implement website home page and link content. Mike Gerazounis suggested that the chapter do more advertising due to the upcoming completion of the website and global outreach capabilities.

CRC 2004 – Alan Goerke commented on the Annual LI ASHRAE Golf Outing, typically in May might be postponed this year due to the close proximity of the 2004 Chapter Regional Conference for Region 1 in August 2004. Craig Marshall/Mike Gerazounis may consider co-chairing Golf Outing event. The CRC planning is progressing along as planned. Volunteers are absolutely needed to help with upcoming events. The 2004 CRC may consider a trade show, and if so, vendors will be contacted.

TEGA – Richard Gerbe suggested a field trip in February 2004 to the Nassau Coliseum to tour their refrigeration plant.

Misc. – Andrew Braum suggested that ASHRAE have the holiday party in December and suggested that maybe children also attend. BOG to evaluate. Ray Schmitt to attempt to contact Mike Mordetsky as his whereabouts are unknown. If unable to contact Mike, the BOG must consider his removal. At this time, Craig Marshall will resume as Membership Chair.

Meeting adjourned 6:35 p.m.

Steven Friedman - Secretary

General Meeting Minutes

The regular monthly meeting was called to order by Andrew Braum at 6:45 PM. Andrew welcomed everyone back for this new year of exciting events. Introductions were made by Andrew for the technical speakers, Mr. Evans Lizardos, P.E. and Mr. John Lizardos, P.E. who lectured about economics and choosing chiller technologies. The dinner lecture was given by Mr. Julian de Bullet who lectured about chiller plant design, variable flow and low delta T syndrome. The lectures were very informative. Meeting adjourned at 9:15 PM.

**Steven Friedman
Secretary**



History - "A Little Snow on the Roof"

If you look within our chapter, you will find active members who have acquired years of experience and have used their knowledge to help shape our HVAC community. I did not have to look much further than my own back yard to find this one fellow. Raymond O. Combs, "Ray", has been part of the Long Island ASHRAE community since the early years. Now I won't tell you how old Ray is, but let's just say he predates man-made radiation by some 10 to 15 years. Unfortunately there isn't enough space in this article to list Ray's accomplishments and contributions. But let me give you a quick overview.

In 1951 while attending Hofstra University, Ray found part time work for the Long Island Division of Petroleum Heat & Power, a division of Standard Oil of Indiana. Ray graduated from Hofstra and was still with "PH & P" in 1956 when he received a tap on the shoulder from "Uncle Sam". He served in the Army from 1956 to 1958 specializing in guided missile systems. Stationed at Fort Totten, he worked locally at several of the "Nike" sites. After serving his country Ray went back to "PH & P" briefly and in 1960 changed jobs to the newly formed Petro Division of Iron Fireman. Over the next several years Ray became instrumental to the manufacturers success and gained industry recognition as a leader in his territory, which stretched from Maine to Virginia. Specializing in the design, sales and service of commercial and industrial boilers, burners and related auxiliaries, Ray's future had been molded for the year to come.

Ray joined the Long Island Chapter of ASHRAE in 1961 just three years after its start in 1958. He remembers back to those days, the meetings, the people and the many building projects he shared in. Ray continued on professionally with

Iron Fireman until 1971 when he left and became a partner in the Volkman Corp. Ray continued sharing his expertise in engineered boiler and burner sales and in 1976 he started with his partners, Boiler Room Specialties Corp., a manufacturers representative and heating equipment supply company. Throughout the years he continued with his support of our Chapter and in the late 1970's answered the call to the Board of Governors. Ray was voted on to the Board and progressed through the Chairs and became Chapter President in 1984. "Yep in those days we held the meetings at the University Club at Hofstra" he remembers. Around the same time he was progressing through the chairs, Ray acquired Boiler Room Specialties as the sole owner. As if Ray wasn't busy enough between his business and ASHRAE, he also taught heating classes at Farmingdale University for a number of years. I'll bet there are more than a few people reading this that have attended his classes. After a 20 year run, Ray wound down "BRS" in 1997 and joined Applied Technologies as the Director of Engineering where he remains today.

Ray has been active for more than a half century our industry, designing and selling equipment, and teaching the fundamentals of heating to countless numbers of contractors and consultants. If you think Ray has slowed down in his senior years think again. He is as busy as ever and as I write this article he was at a job site assisting a contractor with commissioning. There may be a little snow on his roof, but the fire inside is still burning strong.

John D. Nally
Chapter Historian

Resource Promotion

I would like to thank the individuals and firms who have contributed financially last year to ASHRAE Research. Thanks to your generosity and the efforts of John Nally, the chapter raised \$ 8,000.00. This year we are expecting to exceed last years 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.

This year at our November dinner meeting, 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 you calendar for November 11th, for this important meeting and show your support for the industry that supports you.

As the Resource Promotion Chair, I had attended the August CRC meeting at Rochester. What was most interesting about this particular meeting was the tremendous amount of research ASHRAE is currently conducting and its plans for next year. The projects include actual laboratory testing and well as new technology documentation which I'm sure our engineering community will eventually see. Again, none of this research is possible without your generous tax deductible donations, so please contribute to an industry that supports your profession.

Steven Friedman
Resource Promotion Chair



ASHRAE Long Island Chapter

Membership

Welcome back to what I hope is going to be an exciting year for our chapter. One of our main goals for the year is to increase membership.

We are trying to attract more members by moving to our new location of the Westbury Manor that I hope everyone has found to be a good move and a nice facility. We are also trying to get interesting topics and presentations for the upcoming year.

Our first membership night is scheduled for November. I hope that some of the members, who have drifted away from us in recent years, come on back, to see some old friends, make some new ones and see the changes we have made. To all of our members, please encourage fellow colleagues to attend a meeting and **JOIN ASHRAE!!**

Craig Marshall
Membership Chair

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'Rouke
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		

Archives Wanted

WANTED – Old pictures, articles, awards, trinkets, widgets and any old stuff related to the Long Island Chapter of ASHRAE. Please call John Nally 631-331-0215.

John Nally
Chapter Historian

CRC 2004 Committee Report

There will be a meeting at 3:30 pm prior to the board meeting on October 14th at the Westbury Manor. Lynn Bellenger, the DRC will be present to offer her advice and knowledge of what it takes to have a successful event next year. We will review the timeline of the planning, the schedule of activities, menu selections and the budget costs for the meeting. We welcome the participation of all those interested in helping.

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

Student Activities Night

October's dinner meeting is our first of two Student Nights. We will be inviting college students from the area to attend. For those who are currently student members or in the process of applying, the chapter will pick up their cost for dinner. If you know of a college student interested in joining us, please extend the invitation. Promoting student attendance is important for many reasons.

These students are the future of our chapter so please help me welcome them. Greet them during cocktails, invite them to sit at your table and share your knowledge and experience. Remember, they are also potential recruits for summer internships or full time positions when they graduate.

Steven Giammona, P.E.
Student Activities Chair

**Student
Activities Night
October 14th!**



TEGA

Currently the Long Island TEGA chapter has begun establishing an Ashrae Library for technology transfer. The Library will be a source for borrowing Ashrae position papers, standards and handbooks, design manuals, codes, technical papers and more. This can be an excellent way to consolidate information and provide a resource for those unique questions that sometimes arise. This technology transfer will be available at the monthly meetings and requests for information can be made throughout the month. In order for this to be successful, members are asked to donate any books, manuals or materials relating to Ashrae or the HVAC/R industry. If you wish to donate or lend anything to this program please contact me by phone at (516) 484-1020 or by e-mail at reg@leapc.com.

Mold Litigation

Recently "mold" has been the word that sparks fear in the hearts of many in the HVAC industry. Mold litigation has exploded onto the scene in a manner reminiscent to asbestos, which led to thousands of legal claims and expenditures of enormous amounts of resources and many bankruptcies. Increased publicity, legislative interest and litigation and insurance have all been cited as reasons for this upsurge. Luckily, there are actions the HVAC industry can take to protect themselves.

Regardless of the fact that there is still an ongoing debate as to the health risks associated with mold exposure, the media's focus on mold has raised both the public's awareness and concern. Many of these media reports place blame on the owners, designers, engineers, and architects regardless of the circumstances causing this problem. Despite this rise in publicity, defending against a lawsuit often involves challenging plaintiffs' experts and the science purportedly linking mold to health claims.

Mold concerns have generated legislative interest. California has adopted legislation intended to establish acceptable exposure levels and to require disclosure of mold in property transactions. Similarly, US Rep. John Coyers has introduced the "United States Toxic Mold Safety and Protection Act of 2002". This bill would create a mold insurance program, research the associated health risks, establish exposure levels, create guidelines to prevent mold contaminations, certify mold inspectors, and require mold inspections for certain properties.

Insurance companies have seen mold related claims rise over the past several years. Insurance companies have been found liable by juries for not properly responding to the insured's claims for coverage. The insurance companies, in an effort to protect themselves, are responding by trying to challenge coverage under existing policies and attempting to revise new policies so that mold coverage is not available. Design professional, owners, manufacturers and contractors should be aware, as these new policies come into effect and the litigation matures, those who claim injury will look to hold them responsible.

The HVAC industry can take certain steps to both prevent and protect themselves from mold related lawsuits. First and foremost, designers should account for mold in their designs. Ashrae has published a great deal of information on this subject and the latest technologies should be employed in every design. Secondly, practitioners should keep mold liability in their mind when preparing contracts for design and construction. Practitioners should always document all key aspects and should avoid unwittingly agreeing to responsibility in indemnification clauses. Lastly, Practitioners should consider insurance policies to ensure adequate coverage. This may include special policies to cover mold situations if mold claims present a risk to their business.

Low ODP, Global Warming

Refrigerant Researched by ASHRAE

Information on a new refrigerant with zero ozone depletion potential and low global warming potential is being gathered through research conducted by the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE).

R-245fa is suitable for low pressure water chillers typically used in large building air conditioning. Equipment also is being developed using R-245fa in other heat transfer and working fluid applications.

ASHRAE approved funding totaling \$986,953 for eight research projects in the areas of indoor air quality, comfort and health, energy conservation, operating and maintenance tools, environmentally safe materials and design tools at its 2003 Annual Meeting held here June 28-July 2.

Among them is 1256-TRP, Thermophysical Properties of R-245fa. The principal investigator is Alexandre Grebenkov, Ph.D., Institute of Power Engineering Problems, Sosny, Minsk, Republic of Belarus. The project is expected to take 10 months to complete at a cost of \$55,500. It is sponsored by ASHRAE Technical Committee 3.1, Refrigerants and Secondary Coolants.

Researchers plan to provide accurate thermodynamic and transport property data. The two primary sources of such data, the National Institute of Standards and Technology and Honeywell, disagree on the properties of R-245fa, making it difficult for machinery manufacturers to decide which data to use, according to Grebenkov.

Other published information differs on the thermal conductivity and viscosity of the saturated liquid and vapor. This information is required by engineers for chiller heat exchanger design.

Richard Gerbe
TEGA Chair

CLASSIFIEDS

Sales Engineer Wanted: Accuspec Inc. a manufacturer rep firm and systems provider the Hospital, Pharmaceutical, Museum Archival Storage, Laboratory marketplace. We are seeking a sales engineer with a HVAC background. Responsibilities will include calling on owners and consulting engineers in the Long Island and New York City Area. Prospective candidates should be self-motivated with a technical sales approach and a strong sense of customer service. All inquiries shall be kept confidential please reply to **Craig Marshall email: cmarshall@accuspecinc.com** or fax: 203-261-1981.

If you would like to place an ad advertising job opportunities or if you would like to advertise that you are looking for employment please contact our chapter's Treasurer, Mr. Peter Gerazounis, PE via email at pgerazounis@mgjassociates.com or at 212-643-9055 for further details.

CONGRATULATIONS



A special congratulations to Craig Marshall, our Chapter's Vice President and his wife Kristen Marshall on the birth of their son, Colin Marshall, on Friday, September 5, 2003!



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Ronald Spinelli
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