

THE LONG ISLAND SOUNDER

May 2007



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

www.ashraeli.org

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

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President's Message

Greetings. The weather is warming up, mother nature is blooming and we are rapidly approaching the end of the ASHRAE calendar year. With that, the nominating committee has selected the candidates for next year's officers and the voting ballots for your new "crew" will be sent out soon. When you receive them, please take a moment out of your busy schedules to vote and return them. Don't miss out on the opportunity to vote and make your voice heard.



Thank you to all who attended our April field trip. We had an excellent tour of the Blue Diamond Sheet Metal facility. It was very interesting and informative. The folks at Blue Diamond showed the group the complete process from estimating, drafting, processing to production. It's always good to see how things go from concept to completion and the operation at Blue Diamond is well organized and very professional. A special thanks to Mr. Bob Lawless, Mr. Bill Reichling and the whole crew at Blue Diamond for their hospitality and extending their resources to the ASHRAE group.

Our annual golf outing is around the corner. This will be our 8th year running and the past success of this outing has played a major role in our chapter's finances. The sponsorships received at the outing are used to help augment the cost of the monthly meetings, provide scholarships for our local schools and help with the chapter's general operating costs. We appreciate the generosity of the donors and the students and schools especially are thankful for the gifts. It's good to give back to the community. Once again we ask your support for this years outing. The date is Monday May 7th.

CHAPTER MONTHLY MEETING

DATE:	Tuesday, May 15, 2007
TIME:	6:00 PM - Cocktails/Dinner 7:00 PM - Dinner Presentation 8:45 PM - Conclusion
LOCATION:	Westbury Manor South Side of Jericho Tpke. 25 Westbury, NY 11590
FEES:	
Members -	\$35.00
Guest -	\$40.00
Student -	\$15.00

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

I promised an update on the upcoming Region 1 CRC. On April 20th I attended a CRC planning meeting up in Albany with our DRC and RVC's and we discussed the event. This is going to be an excellent meeting and an ideal location for meeting goers and family. The accommodations are new and beautiful, and the surrounding area is an excellent tourist stop with a lot of activities. I brought back the flyer outlining the meeting and our newsletter editor has carefully recreated the information for our publication. Look inside for additional information. I would highly recommend to any of our chapter members to consider attending. You are welcome to sit in on the meetings and get an insight on ASHRAE Society and Regional operations and participate in the tour activities.

This month's dinner meeting will feature a technical presentation by Mr. Mark MacCracken from Calmac on Thermal Energy Storage.

Cont'd. on Page 3

Long Island Chapter Officers & Committees

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








President Message (Cont'd. from Page 1)

This presentation will provide some valuable insight into this area and in fits in nicely with today's "green building" design goal. See the programs page for more information.

In closing I would once again like to thank everyone who has contributed to ASHRAE research. As most of you know the money is used to support research and development in many different areas. Our chapter has made good progress in collecting much needed donations but we still need help. If you haven't already done so, please consider a donation. There shouldn't be any doubt that in order to develop a sustainable future, we need to invest today.

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  NATIONAL ENGINEERS WEEK DINNER
October 10, 2006 * At Westbury Manor  Dinner Presentation - Contract Provisions & Risk Aversion	March 13, 2007  Dinner Presentation - Chimney Design & Combustion/Ventilation Requirements for Gas-Utilization Equipment
November 14, 2006 * At Westbury Manor  Dinner Presentation - High Performance Design Guide for Energy Efficient Commercial Buildings RESOURCE PROMOTION & STUDENT ACTIVITIES NIGHT	April 10, 2007  FIELD TRIP - BLUE DIAMOND SHEET METAL Medford, NY (See Program Section for Details)
December 5, 2006  Holiday Party - Westbury Manor	May 7, 2007 * Cherry Valley Club, Garden City, NY ANNUAL GOLF OUTING
January 9, 2007 * At Westbury Manor  DINNER PRESENTATION BY Dinner Presentation: <i>The ASHRAE Promise: A Sustainable Future</i> BY TERRY TOWNSEND SOCIETY PRESIDENT Joint Meeting with ACCA	May 15, 2007 ASHRAE DISTINGUISHED LECTURER Dinner Presentation - Thermal Energy Storage & Leed
February 13, 2007 * At Westbury Manor  JOINT MEETING WITH SMACNA Dinner Presentation - TBD MEMBER PROMOTION NIGHT	June 12, 2007 * At Westbury Manor PAST PRESIDENTS & OFFICER INSTALLATION
February 2007  ASHRAE Winter Meeting	June 2007 - TBD ASHRAE Annual Meeting
August 2007 - Chapter Regional Conference Region I August 16-18, 2007 Niagara Falls, NY	

RUNNING PAOE POINTS FOR 2006/2007

Chapter Members	Membership Promotion	Student Activities	Research Promotion	History	Chapter Operations	CTTC	Chapter PAOE Totals
336	350	255	480	450	925	545	3,005

May Program

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



Dinner Presentation

"Thermal Energy Storage and LEED"

Presented by

Mark M. MacCracken, P.E., Pte. LEED-AP
CEO of CALMAC Manufacturing Corporation

**Attendees
Will Earn
1 PDH!**

DATE:	TUESDAY, MAY 15, 2007		
Time:	6:00 PM – Cocktails and Hors D'oeuvres 7:00 PM – Dinner Presentation 8:45 PM – Conclusion	Fee:	\$ 35.00 Member \$ 40.00 Guest \$ 15.00 Student
Location:	WESTBURY MANOR (516) 333-7117 Jericho Tpke (South Side), 3/10 of mile east from Glen Cove Rd., Nassau County, NY. Directions are posted at @ www.ashraeli.org.		
Presentation:	Thermal Energy Storage used for Off-Peak Cooling of buildings, has a long history around the world with over 6,000 commercial installations in 35 countries. By storing cooling at night, in the form of ice or chilled water, and using it during the day to cool the buildings, major reductions in on-peak electric demand and energy costs are realized. This talk will demonstrate the basic types of TES systems, how they save energy and reduce costs and how this relates to the U.S. Green Building Council's LEED rating system.		
About our Speaker:	<p>Mark M. MacCracken, P.E., Pte. LEED-AP is the CEO of CALMAC Manufacturing Corporation, which is the largest manufacturer of Thermal Energy Storage equipment in the world, with over 3,000 installations in 35 countries. In his 30 years with the firm, he has been involved in all aspects of the company including, R&D contracts, patents, manufacturing, marketing and finance. He was the Principal Investigator on research projects with Oak Ridge National Labs, NASA and National Renewable Energy Research Lab. He has his BS in Mechanical Engineering, has three U.S. Patents and is a licensed Professional Engineer in the state of New Jersey and a LEED Accredited Professional. He is presently or has recently served as:</p> <ul style="list-style-type: none"> - US Green Building Council Board of Directors - ARI Board of Directors Thermal Storage Product Section Chairman - A designated Distinguished Lecturer for ASHRAE on Thermal Energy Storage - Chairman of ASHRAE's Thermal Storage Technical Committee - Member of Alliance to Save Energy and the Association of Energy Engineers 		

CHAPTER MAY NOT ACT FOR SOCIETY

An International Organization



Long Island Chapter - Past Presidents

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



Student Activities

Schools Almost Out - ASHRAE Long Island chapter has some inquiries for placing students. If you have a position or know someone that does please let me know so we can get the opportunities out to our students.

Scholarships - [Apply Now](http://www.ashrae.org/students/page704#scholarship) for 2007-08 Scholarships, ASHRAE is now accepting applications for Engineering Technology Scholarships Learn More at www.ashrae.org/students/page704#scholarship

Check Out Absolute Zero - Absolute Zero is a K-12 program and two-part PBS television special that will demonstrate how civilization has been profoundly affected by the mastery of cold. The documentaries, which are a unique blend of science, cultural history and adventure story, will explore key concepts, significant individuals and events in the field of low-temperature physics and the enormous impact that the mastery of cold has had on society through such technologies as air conditioning, refrigeration and liquefied gases.

Visit <http://www.absolutezerocampaign.org/> for more information.

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

Brian Simkins
Student Activities Committee



History

This month I decided to bring to you a little history on one of Long Island's HVAC and airside contractors, Heritage Mechanical Services, Inc. I interviewed Vice President James Smith, son of Oliver Smith one of the original founders of the company and retired former President and CEO Donald Romano.

Heritage Air Systems was started by Oliver Smith a local 55 Long Island sheet metal union worker in 1973. In 1975 Donald Romano became partner to handle sales and lead the company to what it has become today. The company started out with 5 people and 2500 SQFT to fabricate and install sheet metal. It was originally located at 577 Brook Avenue in Deer Park Long Island. At that time what they built in the shop was usually installed the next day.



In 1985 Oliver Smith retired and Donald Romano became the sole owner. As business expanded, Donald sold the company to JWP(Jamaica Water Supply) and remained as President and CEO. Heritage went on to become a publicly traded company. In 1988 JWP was taken over by EMCOR(Electrical Mechanical Corporation). EMCOR is comprised of Heritage Mechanical Services, Inc., Penguin Air Conditioning Corp., Gotham Air Conditioning, Forest Electric Corp. and Welsbach Electric Corp. in the New York area.

As Mechanical work began in 1992 the name was changed from Heritage Air Systems to its present name Heritage Mechanical Services. Heritage is now at 305 Suburban Ave in Deer Park, Long Island and has grown to 265 employees and 60,000 SQFT sheet metal facility and 20,000SQFT piping facility. They are now one of the leading HVAC and airside contractors in the New York Metropolitan area handling new construction, maintenance and service in renovation of commercial, industrial and institutional projects with over \$75 Million in yearly contracts. Donald Romano retired in 2005 and stayed on as a consultant to the company. Jeffrey Porrello, who joined Heritage in 1999 is now the President and CEO.

The services offered today now include: sheet metal and piping drafting, fabrication and installation, and mechanical contracting. They also are licensed by manufacturers such as Titus to fabricate their Local 28 plenums and Vibro Acoustics to fabricate their Local 28 sound traps. Some of their projects included: Museum of Art, Museum of Natural history, Plaza Hotel, Islip Courthouse, Shoreham Nuclear Plant and 4 Times Square. Heritage is a member of Local 28, Local 638, Local 1205, SMACNA and is 9001:2000 ISO certified.

I asked Donald what made Heritage unique to the metropolitan area. He told me what made them unique was the fact that they provide the complete mechanical package that make up a HVAC system. Only the Automatic Temperature Controls and the Insulation are subcontracted. The 60,000 SQFT sheet metal facility is state of the art with the latest technology being utilized. The 20,000 SQFT Pipe fabrication facility produces miles of welded and screwed pipe each year.

Technology has marked dramatic advances in the company since it first started according to Donald. From Estimating through production, computerized processes have touched each operation. The Cad drawings are downloaded to a computerized manufacturing process (CAD/CAM) and has eliminated over 90% of the sheet metal fittings from being hand laid out. The plasma cutter receives the data directly from the drafting department and automatically sorts and cuts the patterns for maximum efficiency. The automated coil line fabrication system can produce a straight piece of ductwork every seven seconds. New innovations in the complete fabrication process have improved the quality of the product while cutting costs. The Four Bolt Connector has eliminated the use of costly connection systems while improving the results.

On the piping side automatic welding systems produce a high quality product while again cutting costs. All of this Technology was not available when Heritage first started. The fabrication process was completely labor intensive with all the steps in the fabrication cycle being performed manually. On the sheet metal side, he estimated current production at twice the fabricated material with the same labor hours.

After going over all the dates and facts James A. Smith was remembering working for Heritage as a young man, so I had to ask him how he felt the industry changed. He replied, 25yrs ago business was done on a hand shake and today that is no longer the case.

Nancy Román
Chapter Historian

Research Promotion

I would like to thank all of the individuals and companies listed below for their contributions and continued support of Ashrae. Last month, we had received a fairly large sum of donation money towards Research. I am proud to report that we have collected **\$9,500.00** towards our goal of **\$12,500.00**. I am determined to obtain our chapter goal as we have until the end of June to do so. For those who have not yet made their contribution, please do so either on line www.ashrae.org, bring a check to me at our monthly meeting or please fill out the form attached and mail directly to me. Please keep in mind that all contributions are tax deductible and your name and/or company name will gain exposure/recognition in the Ashrae Journal publication as a contributor.



Mr Michael Gerazounis

Mr Robert A Rankel

Mr Marcel A Bally

Mr Andrew J Garda

Mr Fred H Weber

Mr Carl E Graber

Mr Christopher M Schwarz

Mr David G Kwalbrun

Lizardos Engineering Associates PC

Mr Jerome A Silecchia

Mr George A Wallace

Mr Patrick J Lama

Mr Jerome T Norris

Mr Arthur A Huebner

Mr Michael O'Rourke

Mr Joseph V Marino

Mr Peter D Ruppert

Mr Raymond G Schmitt

Mr John D Nally

Mr Ronald J Kilcarr, PE

Mr Craig D Marshall, PE

Mr Roy Gustafson

Mr Frank D Morgigno

Mr Steven D Friedman

Mr Steven R Giammona

Mr Robert A Leventhal

Accuspec Inc

MWSK Equipment Inc

Twinco Supply Corporation

Ms Nancy Roman

Mr Peter Gerazounis, PE

Bladykas Engineering P C

James Lasala & Associates

Applied Technologies of NY Inc

Anron Heating & Air Conditioning Inc

Mr. Tom Nanabi

Bern & bob Leventhal Inc.

EMTEC Consultants P.E.

Brandon Associates

Lilker Associates

County Fair Air Conditioning

Once again, I thank you for your support of Ashrae. Look forward to seeing everyone at the 8th annual golf outing and/or our chapter monthly meeting.

Steven Friedman

Research Promotion Committee Chair

Membership

A reminder please to those who are delinquent with your Society and Chapter dues, please send off your payment at your earliest convenience. Don't let your membership lapse.

We are having a good year with new member recruitment. We have a total of over 18 new members for this year alone. We are hoping to get some YEA members, which is any member under the age of 30. Please help us to get some new young members, as they are the future of our society. If you would like to help with recruitment please come and see me...you can join the committee.

See you at our next meeting.

Carolyn Arote

Membership Chairman

CTTC

Back in the 60's, a jet manufacturer was trying to build a jet that would go mach 4 (4 times the speed of sound for you non-aeronautical types). Finally after many years of design, the jet was finished. A test pilot took it out for it's maiden flight. Everyone gathered around ... and the plane went to Mach1 ... Mach2 ... Mach3 ... Mach3.5 ... and the wings ripped off, the plan hit the ground and killed the test pilot. The engineers went back to the design and spent months re-vamping it. They came out with the new and improved second version, but when they tested it, it had the same disastrous results: the plane's wings ripped off and the pilot was killed in the crash. The engineers went through 7 iterations, until finally they were about to give up. They decided to contact Bob, a retired engineer with the reputation of being able to fix all problems.

Bob comes in, asks to see all the design figures, charts, and drawings, and takes them home to study them. He calls the next day and says he has discovered a solution to the problem: drill holes vertically through the wings at the exact spot where they attach to the body. At first everyone argues - the wings are ripping off now, why drill holes to them? But Bob insists that it will work. So eventually, they give in and do it. The jet is tested later that day and not only does it reach Mach4, but it goes to Mach5.3 before the test is declared over and successful. All the engineers rush to Bob and congratulate him for his uncanny ability to discover the solution. "How did you know?" asks one of the engineers. "Well, I'll tell you. I was on the toilet, and it occurred to me - toilet paper never tears on the perforations." Ineptitude in design is a dangerous as Bob the engineer's thumb in the wind design calculation. Engineers have the most input in turning needs and undefined concepts into the reality of detailed construction plans. The skill and performance of the engineering team determines the entire course of a project and has a significant impact on the construction, operation and maintenance cost during a facility's lifetime. So one would think that securing a qualified engineering firm would be the first priority. Through low bid procurement projects often go to the firm offering the lowest price for services not the firm which is most qualified. Engineering fees are only a small fraction of the total project expenditures, so why do those individuals or agencies seeking engineering firms skimp on that cost? Qualifications Based Selection (QBS) is a process for the selection of design professionals. It is a negotiated procurement process for selection based on qualifications and competence in relation to the work to be performed. Also known as quality-based selection; QBS allows for selection of the most highly qualified firm with the best experience, capabilities, technical approach and quality of personnel, matched to the needs of the project and the agency. The selection process is relatively simple. First based on a preliminary scope of services public notice of a project is given. Interested engineering firms then submit a submittal of qualifications. The submittals are then reviewed by the agency. Three to five firms are selected from the submittals and then are interviewed. The agency then ranks the firms in order of the most qualified. The firm deemed most qualified is then contacted and a detailed scope of work and fees are negotiated. In the event a successful contract cannot be awarded, the next highest ranking firm is contact and negotiations begin with them.

Underbudgeting engineering fees can be extremely costly when the life span of a project is considered. Engineering fees are often one percent of a project's total life cycle cost. Ninety-nine percent of the life cycle costs are contributed to operation and maintenance. An engineering firm with the proper expertise and the time during the design phase to examine alternative systems can dramatically reduce operation and maintenance costs. Not only are the benefits to those procuring engineering services vast, taxpayers, contractors, the community benefit as well. Agencies whom utilize QBS benefit the taxpayers by ensuring that a firm has been hired that can provide a cost-effective design solution at a fair market value. This resulting in lower overall project costs, minimizing delays, cost overruns and litigation, and lowering operating and ownership costs. The community profits through buildings that employ the best design solutions to meet the needs of the public, emphasizing public health, safety and quality of life. Contractors benefit by receiving high-quality plans and specifications, making bidding and completing construction easier.

The QBS benefits to engineering firms are abundant as well. In a world where time is money, the quality of a project is often dictated by the fee negotiated. When a proper fee is obtained, sufficient time can be spent to develop, design and review designs. Designs are not rushed and quality is not compromised. Allowing more time during the design phase ensures mistakes are caught, which means less time lost to redesigns, less construction site visits, less change orders and RFIs, happier clients, and the risk of lawsuits reduced. Legislative making use of QBS in New York State has been in existence for over 20 years. Successful use of QBS includes use by the federal government, 42 states and hundreds of municipalities. Services provided by builders or contractors are not included under QBS. Selection of a firm to construct a project and selection of a firm to design a project differ greatly. Engineers take an idea and give it definition, contractors take that definition and turn it into reality. Construction contracts can be safely awarded to the lowest responsible bidder because all contractors submit bids based on design documents that specify all major aspects of the project. In the case of Bob the engineer, a non-qualified engineer's work was acceptable and the results were satisfactory. But when hiring an engineering firm, why take the risk of hiring a nonqualified firm? The engineering firm is retained at the beginning of a project long before construction, so the additional cost to hire a competent firm at the beginning of a project is negligible when considered over a project's life cycle. As design professionals in the construction business, it is important to learn about QBS and work toward it becoming the standard for the engineering industry. Virtually all engineering societies have information about QBS. Searching the internet will provide numerous sites containing further information and details.

ASHRAE LONG ISLAND CHAPTER 50TH YEAR ANNIVERSARY

- CELEBRATE -
ASHRAE LI Chapter's
50th Anniversary



Date/Time:

Friday, September 28, 2007
7pm to 11pm

Departure Location:

The Manhasset Bay Marina

Includes:

Buffet Dinner - Open Bar - DJ Entertainment – Cruise to NYC Harbor

SAVE THE DATE...MORE DETAILS TO FOLLOW!

*Corporate sponsorships available.
Call Alan Goerke at 212.239.7729 for details.*

ASHRAE Region I - Chapter Presidents 2006-2007**Bi-State**

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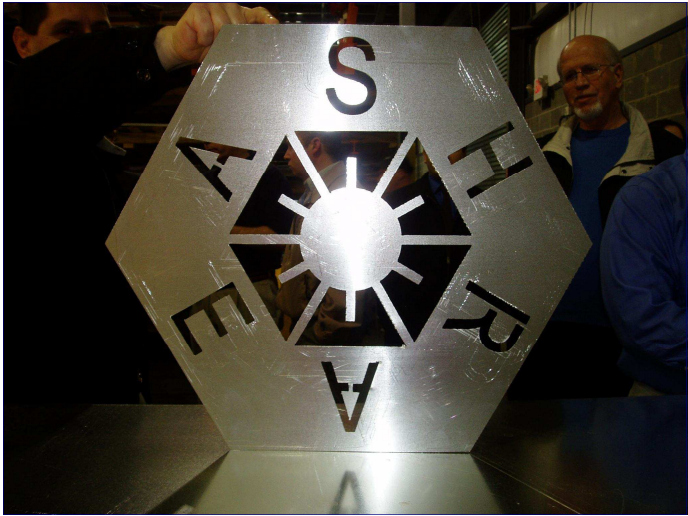
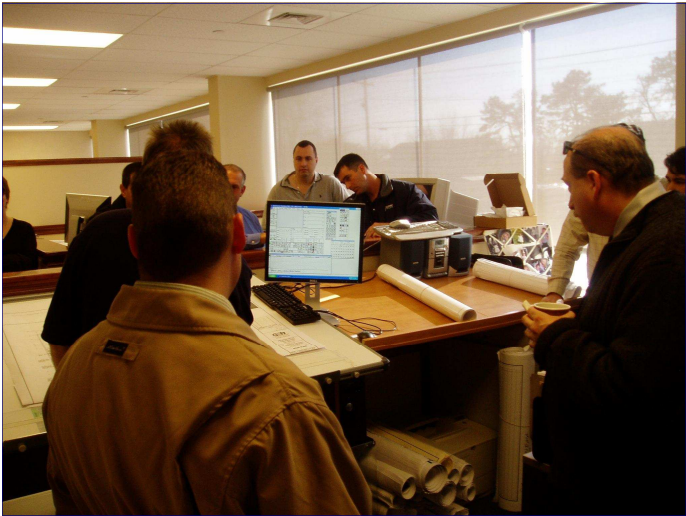
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ASHRAE Field Trip Photos - Blue Diamond Sheet Metal Facility



ASHRAE Release No. 1

ASHRAE Grants: Student Studies Impact of Noise Levels on Design

ATLANTA – Research to determine if new standards should be implemented for background noise levels in design of spaces for hearing-impaired people is being funded by ASHRAE.

Nineteen students will receive a total of \$173,000 through ASHRAE's grants-in-aid program, which is designed to encourage students to continue their education in preparation for service in the HVAC&R industry. The grants are awarded to full-time graduate students of ASHRAE-related technologies. Grant recipient Lauren Ronsse, University of Nebraska, Lincoln, currently is studying whether people with hearing impairments respond similarly as people with no impairments to seven mechanical system background noise conditions. The proposed research is a continuation of that study including more people and different types of noise signals.

Ronsse will investigate productivity and subjective perceptions of people exposed to mechanical system background noise. Results of the research may lead to development of different standards for noise criteria levels for spaces designed for the hearing-impaired.

Other recipients of ASHRAE grants-in-aid are:

- Jasmin Raymond, Universite Laval, Sainte-Foy, Quebec, Canada, The Pennsylvania State University, University Park, Pa., Geothermal Energy Extraction From Mine Waste Dumps
- Soolyeon Cho, Texas A&M University, College Station, Texas, Development of an Easy to Use Simulation Tool for Designing High Performance Office Buildings in Hot and Humid Climates
- Scott Hackel, University of Wisconsin-Madison, Wis., Optimization of Hybrid Geothermal Heat Pump System
- Federico Noris, University of Texas at Austin, Investigation of Biological and Non-Biological Contaminants on the HVAC Filter Dust
- Jeremy Dreiling, Kansas State University, Indoor Air Quality in Health Care Facilities Focusing on Air Cleaning Methods and Technology
- Yang Bin, National University of Singapore, Ceiling Mounted Personalized Ventilation Air Terminal Devices
- Mohamed Alshehhi, University of Maryland, Electrostatic Gas-Liquid Separation – Application to Advanced On-line/ On-Demand Separation Techniques
- Benjamin Welle, University of California, Berkeley, Mixed-Mode Ventilation: A Blueprint for Design
- Paulo Cesar Tabares Velasco, The Pennsylvania State University, University Park, A New Energy Model to Meet the Sustainable Challenge by Enabling ASHRAE Engineers to Calculate Potential Energy Savings Due to Green Roofs
- Donghyun Rim, University of Texas at Austin, Evaluation of Air-Change Effectiveness as an Indicator of Exposure to Indoor Particulate Matters
- Bereket Asgedom Nigusse, Oklahoma State University, Fenestration Heat Gain Calculation for the Radiant Time Series Method
- Prakash Rapolu, University of Cincinnati, Microchannel Flow Boiling of Carbon Dioxide Near Critical and Subcritical Pressures
- Josephine Lau, The Pennsylvania State University, Performance Modeling and Evaluation of In-Duct Ultraviolet Germicidal Irradiation Systems with Variable Operating Conditions
- Ian Bell, Purdue University, Liquid Flooded Ericsson Cooler with Optimized Compressor and Expander. Bell also receives the 2006-07 Grant-In-Aid Life Member Club grant given to the highest top rated applicant and supported by a financial contribution from the club.
- Ebrahim Al-Hajri, University of Maryland, College Park, Performance Characterization of Selected Refrigerants in Flat Plate Micro-Scale Condenser: Applications to Expanded Use of Micro-Channel Condensers
- Zhao Zhang, Purdue University, Modeling of Airflow and Contaminant Transport in Commercial Aircraft Cabin
- Donghyun Seo, University of Colorado at Boulder, Application of Solar Radiation/Illuminance Models to Advanced Daylighting and Solar Heat Gain Control Strategies
- Robert Slowinski, University of Colorado at Boulder, Fundamentals of Breathing Walls and Their Potential to Reduce Building Energy Consumption and Improve Indoor Air Quality

ASHRAE, founded in 1894, is an international organization of some 50,000 persons. ASHRAE fulfills its mission of advancing heating, ventilation, air conditioning and refrigeration to serve humanity and promote a sustainable world through research, standards writing, publishing and continuing education.

ASHRAE Release No. 1

Proposed Addenda Open for Review - ASHRAE Looks at Combining Air Filter Testing Standards

ATLANTA – A proposed addendum open for public comment is part of efforts to combine ASHRAE's two standards on air filter testing.

Combining Standards 52.1, Gravimetric and Dust Spot Procedures for Testing Air Cleaning Devices Used in General Ventilation for Removing Particulate Matter, and 52.2, Method of Testing General Ventilation Air-Cleaning Devices for Removal Efficiency by Particle Size, would have several benefits for users, according to Monroe Britt and James Hanley, chairs of the Standard 52.1 and 52.2 committees.

"One benefit would be having a single ASHRAE test standard for determining the filtration efficiency of HVAC filters," Hanley said. "This would reduce the number of tests needed on a filter. Currently, many filters are run twice, once for Standard 52.1 and once for Standard 52.2. It also would allow for one test rig to perform all the needed tests. Existing differences in the test rig requirements between the two standards make it difficult for one rig to serve both tests."

Currently, the primary differences between the standards are:

- Standard 52.1 includes "dust spot efficiency," while Standard 52.2 replaces the dust spot efficiency with efficiency measurements as a function of particle size.
- Standard 52.1 has an emphasis on average efficiency of the filter, while Standard 52.2 has an emphasis on the minimum efficiency.
- Standard 52.1 includes weight arrestance that is currently not included in Standard 52.2. Weight arrestance is mainly applicable to relatively low efficiency HVAC filters.
- Standard 52.1 allows flow rate and final pressure drop to be selected by the person requesting the test whereas Standard 52.2 has prescribed flow rate and final pressure drop criteria.
- Standard 52.2 includes the Minimum Efficiency Reporting Value (MERV).
- Standard 52.2 includes a "conditioning step" to better reflect changes in efficiency that filters can undergo in actual use.

Proposed addendum b would incorporate the Standard 52.1 sections on weight arrestance and dust-holding capacity into Standard 52.2 and deletes some references to Standard 52.1 that occur in Standard 52.2. The addendum is open for public review until April 30. Also open for review is proposed addendum a, which revises the first dust-loading step, also known as the conditioning step, in Standard 52.2. On a parallel path, the 52.1 committee is working to revise the 52.1 standard to remove the dust spot efficiency test requirements.

"Whereas, this test method has served the air filter industry well for several decades, the particle size efficiency technology presented in 52.2 provides more direct and useful data than the dust spot efficiency data," Britt said.

This revised standard 52.1 will be submitted for public review in the fall of 2007. When the revised standard is approved, the 52.1 standard will become redundant and will no longer be needed. At that time, ASHRAE will take steps to undergo a public review process to withdraw Standard 52.1 so that Standard 52.2 will become the sole ASHRAE standard on filtration efficiency.

Proposed addenda to ASHRAE standards are available during public review periods. To read the addenda or to comment, visit www.ashrae.org/publicreviews.

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ASHRAE Release No. 3

ASHRAE's Advocacy Program Continues to Build Momentum

ATLANTA – ASHRAE's advocacy program, designed to provide technical input to government in developing programs related to the built environment, is continuing to gain ground.

Since its launch in July 2005, ASHRAE's government affairs team has greatly expanded its presence in Washington, D.C., through such activities as World Standards Day, organizing a roundtable for related organizations, sponsoring a Washington Fellow, and taking part in Congressional Visits.

"The ASHRAE Government Affairs Office and the Advocacy Committee have been working hard to position ASHRAE as a leading source of expertise in the built environment and a resource for policymakers in developing legislation and regulations affecting the public, the HVAC&R community, and the engineering profession," Kent Peterson, chair of the Advocacy Committee, said.

As part of those efforts, ASHRAE is helping to administer World Standards Day on October 18 in Washington, D.C. Standards are essential to modern society because they provide a common basis for communication among diverse groups and conserve resources by providing solutions to frequent problems.

The goal of World Standards Day is to raise awareness of the importance of global standardization to the world economy and to promote its role in helping meet the needs of business, industry, government, and consumers worldwide. The event, which consists of a reception and dinner, was first held in 1970 and is co-chaired in the United States by the American National Standards Institute (ANSI) and the National Institute of Standards and Technology (NIST).

At this year's event, Jim Hill, past ASHRAE president and the acting deputy administrator for NIST, will serve as this year's honorary chairman and recipient of the Ronald Brown Award.

ASHRAE also is participating in Congressional Visits Day May 1 and 2. Sponsored by the Science, Engineering and Technology Working Group, of which ASHRAE is a member, the event brings together engineers of all disciplines to meet with Congressional members and staff and officials from the President's Office of Science and Technology Policy to help improve scientific policies within the federal government. ASHRAE is hosting the event's Capitol Hill breakfast at which Rep. Bart Gordon, chairman of the House Science Committee, will preside.

Other ASHRAE Washington activities include:

- Participation in the Washington Internship for Students of Engineering (WISE) program, which allows engineering students to spend nine weeks in Washington to learn about government policy-making and the workings of Congress and prepare a research paper. Eight engineering societies participate, and ASHRAE's participant for 2007 is Anatoly Zeltser, Kansas State University. For more information, visit www.wise-intern.org.
- Sponsorship of a one-year fellowship in Washington, D.C., that will allow the participant to work in the federal government in a technical advisory role.
- Creation of the High Performance Building and Energy Efficiency Roundtable, which provides opportunity for professional and technical societies, trade groups, government agencies, and other interested organizations involved in "the built environment" to explore opportunities for collaboration and cooperation.
- Support of the Science, Technology, Engineering and Mathematics (STEM) Education Coalition, which supports STEM programs for teachers and students at the U. S. Department of Education, the National Science Foundation, and other agencies that offer STEM-related programs.
- Hosting of Congressional briefings, such as one held in December 2006 focusing on Commercial Building Tax Incentives and one held last month regarding opportunities to limit greenhouse gas emissions. Representatives Bart Gordon (D-TN) and Judy Biggert (R-IL), of the House Science and Technology Committee, were featured speakers.

For more information on ASHRAE's government affairs activities or to receive the government affairs updates, visit www.ashrae.org/governmentaffairs.

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ASHRAE Region 1 2007 CRC - Niagara Falls, NY



ASHRAE Region 1 Chapter Regional Conference 2007



Hosted by:

***The Niagara Frontier Chapter
Niagara Falls, NY***



August 16th – 18th, 2007

CRC 2007 Agenda

Thursday, August 16, 2007

Registration – Grand Foyer	All Day
Golf Outing – River Oak CC, Grand Island, NY	10:00 am – 3:00 pm
Welcome & 1 st Business Meeting	4:15 pm – 6:30 pm
Welcome Reception	7:00 pm – 10:00 pm

Friday, August 17, 2007

Registration – Grand Foyer	All Day
Breakfast	7:00 am – 9:00 am
Caucus	8:00 am – 9:15 am
Chapter Operations	9:30 am – 11:45 am
Lunch with Distinguished Lecturer	12:00 pm – 1:30 pm
Executive Session	1:45 pm – 4:00 pm
President's Dinner	6:00 pm – 10:00 pm

Saturday, August 18, 2007

Registration	7:30 am – 10:00 am
Breakfast	7:00 am – 9:00 am
2 nd Business Meeting	8:00 am – 9:30 am
Workshops	9:30 am – 12:00 pm
Awards Luncheon	12:00 pm – 2:30 pm
3 rd Business Meeting (If Required)	2:45 pm – 4:30 pm

ASHRAE Region 1 2007 CRC - Niagara Falls, NY



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The Crowne Plaza will extend to ASHRAE the group rate 2 days prior and 2 days following on a space availability basis.

Reservation Deadline: July 16, 2007

(Please be advised our meeting dates are concurrent with peak season for Niagara Falls and room rate will double & triple during August – get your hotel reservations early.)

All Meetings and Events will be held at:

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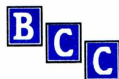
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