April 2016

THE LONG ISLAND SOUNDER

ASHRAE Long Island Chapter, Region 1...*Founded in 1957* www.ashraeli.org

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

Inside this issue:

President's Message

Welcome to the April issue of the *Long Island Sounder*. We thank all of those who attended last month's meeting. Thank you again to Mr. Evans Lizardos, PE, who presented his latest "Back to Basics" Presentation on *Smoke Purge System Design*. Thank you to Mr. Ed Twiss, PE, of Analytical and Combustion Systems for presenting on *Boiler and Generator Fuel Oil Pumping and Distribution.* Both presentations were informative and well received.

A few notes from last month's BOG meetings. Mr. Charles Lesniak, PE, our current President-Elect, will be moving out of our chapter area, and will be stepping down from the BOG. We are sad to see him leave, but thank him for all his work over the years. I believe he is moving to some place called New Jersey… Mr. Don Kane, PE, will step into the role of President-Elect. Don will be attending President-Elect training this month in Troy, NY, where he will be given a full training for his upcoming year as President. Odds are, Don will do some training of his own, as his ASHRAE operations knowledge is already impressive.

Please keep an eye out for our election ballots, which will be sent out shortly. Please return them promptly.

Our Annual ASHRAE Long Island golf outing will be held on Monday, May 23 at Cherry Valley Club in Garden City. We always have a great turnout so please don't wait to make a reservation. I want to emphasize that the level of success of the event is dependent on the contributions from our sponsors. We are looking for new and continued sponsors, whether they are individual or company, for the outing. They include the pro shop raffle prizes at dinner, food and beverage services on the course and giveaways during check in. This is a great event and we keep the per golfer fee to a minimum so everyone has the flexibility to give what they can. Please consider sponsoring if you can.

I look forward to seeing everyone at the Blue Diamond Sheet Metal Shop tour this month. During this tour we will review the steps of turning a design duct drawing into fabricated ductwork ready for delivery. We thank Blue Diamond for hosting this field trip.

Thomas J. Fields, P.E., LEED AP
President - Long Island Chapter

CHAPTER MONTHLY MEETING

DATE:	**Tuesday, April 12, 2016**
TIME:	**ANNUAL FIELD TRIP** **SEE PROGRAM SECTION FOR DETAILS ON PAGES 7-8**
LOCATION:	**SEE PROGRAM FOR DETAILS PAGES 7-8**
FEES:	**Complimentary for all Members (pay your way lunch afterwards at Ruby Tuesday)**

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

Long Island Chapter Officers & Committees

ASHRAE 2015/2016 OFFICERS

POSITION	NAME	PHONE	FAX	EMAIL
President	**Thomas Fields, P.E., LEED AP**	212.643.9055	212.643.0503	president@ashraeli.org
President-Elect	**Charles Lesniak, P.E**			president_elect@ashraeli.org
Vice President	**Don Kane, P.E.**	631.737.9170	631.737.9171	vice_president@ashraeli.org
Financial Secretary	**Andrew B. Dubel, P.E.**	212.967.7651	212.967.7654	finsec@ashraeli.org
Treasurer	**Richard Halley**	718.269.3809	718.269.3725	treasurer@ashraeli.org
Secretary	**Frank Paradiso**	631.632.2791	631.632.1473	secretary@ashraeli.org
Board of Governors	**Ken Mueller**	201.395.3761	763.231.6924	bog1@ashraeli.org
Board of Governors	**James Hanna**	718.269.3768	718.269.3794	bog2@ashraeli.org
Board of Governors	**Bill Artis**	201.395.3750		bog3@ashraeli.org
Board of Governors	**Richard Rosner, P.E.**	631.737.9170	631.737.9171	BOG4@ashraeli.org

ASHRAE 2015/2016 COMMITTEES

COMMITTEE	NAME	PHONE	FAX	EMAIL
Programs & Special Events	**Charles Lesniak, P.E**			programs@ashraeli.org
Membership	**Ken Mueller**	201.395.3761	763.231.6924	membership@ashraeli.org
Chapter Technology Transfer (CTTC)	**Don Kane, P.E.**	631.737.9170	631.737.9171	cttc@ashraeli.org
Grassroots Government Activities Committee	**Charles Lesniak, P.E**			ggac@ashraeli.org
Newsletter Editor	**Liset Cordero**	212.643.9055	212.643.0503	editor@ashraeli.org
Research Promotion	**Andrew B. Dubel, P.E.**	212.967.7651	212.967.7654	rp@ashraeli.org
Historian	**James Hanna**	718.269.3768	718.269.3794	historian@ashraeli.org
Student Activities	**Richard Halley**	718.269.3809	718.269.3725	sa@ashraeli.org
Chapter Regional Conference Committee	**Richard Halley**	718.269.3809	718.269.3725	crc@ashraeli.org
Young Engineers in Training	**Frank Paradiso**	631.632.2791	631.632.1473	yea@ashraeli.org
Webmaster	**Richard Rosner, P.E.**	631.737.9170	631.737.9171	web@ashraeli.org
Nominating	**Michael Gerazounis, P.E., LEED AP**	212.643.9055	212.643.0503	nominating@ashraeli.org
Reception & Attendance	**Bill Artis**	201.395.3750		reception@ashraeli.org
PR & Engineering Joint Council of LI	**Andrew Manos, LEED AP**	631.632.2791	631.632.1473	pr@ashraeli.org
2014 CRC Committee	**Richard Halley**	718.269.3809	718.269.3725	CRC@ashraeli.org
Golf Outing	**Peter Gerazounis, P.E., LEED AP** **Steven Friedman, P.E., HFDP, LEED AP**	212.643.9055 212.354.5656	212.643.0503 212.354.5668	golf@ashraeli.org
ASHRAE LI, P.O. Box 79, Commack, NY 11725				

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Chapter Monthly Meeting - Program for 2015/2016

September 8, 2015 * At Westbury Manor

Dinner Presentation – Commissioning Considerations for VRF Systems
Presenter: Bill Artis ****1 PDH****

October 20, 2015 * *At Westbury Manor*

Dinner Presentation— "Dr. Duct Tape"
Presenter: Max Sherman, PhD ****1 PDH****
ASHRAE DISTINGUISHED LECTURER

Back to Basic Session I - *****1 PDH*****
"Selecting and Designing Refrigeration Equipment Component Packages"

November 10, 2015 * *At Westbury Manor*

Dinner Presentation-- Phenolic Duct Construction Standards
Presenter: Eli P. Howard, III ****1 PDH****
Resource Promotion Night
Joint meeting with SMACNA
Student Activities Night & YEA Night as well as Membership Promotion and Upgrade Night

December 8, 2015 * *At Westbury Manor*

HOLIDAY PARTY
Free Buffet Dinner for Members

January 12, 2015 * *At Westbury Manor*

Dinner Presentation– Energy Storage: A Vital Ingredient in a Lower Carbon Future
Presenter: Mark M. MacCracken, P.E., Pte. LEED Fellow
ASHRAE DISTINGUISED LECTURER ****1 PDH****

Back to Basic Session II - *****1 PDH*****
"The Rise of Variable Flow Primary and the Fall of Primary/ Secondary/Tertiary Pumping Systems "

January 2016

ASHRAE Winter Meeting

February 9, 2016 * *At Westbury Manor*

Dinner Presentation—Air Movement for Energy-Efficient Comfort in Conditioned Spaces
Presenter: Laurel Christensen ****1 PDH****

Joint Meeting with USGBC
Resource Promotion Night
Membership Promotion Night

February 2016

NATIONAL ENGINEERS WEEK

March 8, 2016 * *At Westbury Manor*

Dinner Presentation— Boiler and Generator Fuel Oil Pumping and Distribution
Presenter: Ed Twiss ****1 PDH****

Joint meeting with LI-Geo
YEA Night

Back to Basic Session III – *****1 PDH*****
"Design & Theory of Smoke Purge System Design"

April 12 , 2016 (5 PM)

ANNUAL FIELD TRIP - 10:30 AM to 1:30 PM
Blue Diamond Sheet Metal Inc.
1165 Station Road, Medford, NY 11763

Tour complimentary for all Members (lunch afterwards - pay your own way at Ruby Tuesday)

May 12, 2015 * *At Westbury Manor*

Dinner Presentation— Series Counter Flow Screw Chiller Design
Presenter: TBA ****1 PDH****

Student Activities Night
Refrigeration Night

May 23rd, 2016 * *Cherry Valley Club, Garden City, NY*

ANNUAL GOLF OUTING

June 14, 2016 * *At Westbury Manor*

Free Buffet Dinner for Members

PAST PRESIDENTS NIGHT & OFFICER INSTALLATION
STUDENT SCHOLARSHIPS TO BE AWARDED
ASHRAE History Quiz and prize Give-A-Ways

August 2016

Chapter Regional Conference (CRC) Region I

BOG Meeting Minutes

BOG Meeting, Long Island Chapter
Tuesday March 8, 2016
5:00PM
Westbury Manor

Call to Order

Review of Agenda

Secretary (Frank Paradiso)
- Meetings minutes – approval
- Comments/Additions

President (Thomas Fields)
- PAOE – Latest Updates are due. We are behind.
- Who went to Winter or Annual meetings for PAOE?
- ARTICLES, DUE 3/20!
- Looking to do short presentation on TC/TAC in ~~March~~ May, for PAOE. Bill Artis to assist.
- BOG ballot.
  - We have a lot to achieve in the next 2 months for Chapter duties, deadlines and events
  - Please Update PAOE points with new activity and occurrences
  - The ballots need to be sent out to the voting members

President-Elect/Programs (Charles Lesniak)
- Sponsors for cocktail hour – two left.
- Field Trip? Brewery? Need on Calendar TONIGHT or we are simply not having one.
- Are we good with May presenter? Still says TBD.
  - Continue with Field Trip discussions, the brewery tour proved to be too expensive and too small for the amount of probable attending members
  - Possible sheet metal shop visit

Chapter Technology Transfer (Don Kane)
- Keep sending info on special events -
- Push new smart phone apps and computer programs.
- Taxes
  - The tax file was submitted

Treasurer (Richard Halley)
- Newsletter invoicing
- Expenses/Reimbursements
- CRC
  - RP and presidential training has to be organized and planned for as the dates are coming up soon
  - General balance of $13,039 with $2,500 earmarked for 2017 CRC

Grassroots Government Activities (Charles Lesniak)
- Get local officials on mailing list.

Historian (James Hanna)
- Articles
- Digitizing records
- Follow up with Neil Rosen on Habitat for Humanity – Update?
  - Begin the process for the calculations for Habitat for Humanities project soon?

Honors and Awards Chair (Brian Simkins)
- Nominations this year. Eugene Silberstein?

Cont'd. on Page 5

BOG Meeting Minutes (Cont'd. from page 4)

Research Promotion (Andrew Dubel)

- Status update.
- Vendor Book update.
  - Review the list of vendors in order to update the books

Membership Promotion (Bill Artis)

- Maintain delinquencies less than 2%
- Upgrade membership from associate to member – we had one, any others?
- Recognition of new members at chapter meetings.
- PAOE

Student Activities (Richard Halley)

- Scholarships – need to send out.
- Student membership update.
- Stony Brook Chapter Update
- Suffolk, Hofstra, NYIT
- Who is Eugene's replacement at SCC?
- Any K-12 activities? TJF has one in March and is on local school STEAM committee, POAE?
  - Scholarship applications need to be sent out soon
  - There are 4 scholarships to be given out after the process
  - Add new Suffolk Community College Faculty Advisor replacement to email list
  - Steve Sills is the new Student Activities Chair

YEA (Frank Paradiso)

- Events?
- Smart Start promotion
  - Continue with YEA event Ideas, March is Famous Daves in Smithtown, April event in Nassau County

Web Master

- Newsletters need to be uploaded – Does anyone know how to do this without consultant? Have gotten no response.
- FTP Site – login info (ftp.longisland.ashraechapters.org, YUZnP3EVRtekMTuZEg0i) – does this work?

CRC 2017 (Richard Halley)

- Update on the event planning
- Proposed meetings 4th Tuesday of month - minutes?
- Wind Watch Golf Email
  - Proceeding with meetings
  - Forward the meeting minutes to ASHRAE Board of Governors
  - CRC planning is going well with many good options

Golf (~~Steven Friedman~~, Peter Gerazounis)

- Get them involved in the CRC golf event planning, if they can.
- Steve is looking to step down. We will need assistance with this going forward. Nominations? Still open.

Old Business

- ~~Ticket Books.~~
  - Ticket Books will be available upon request

New Business

- New Paypal scanner will be used tonight.
  - Possible additions to board and attract volunteers as well

Time/Place of next BOG Meeting – April 12, 2015 – Site TBD. Motion to Adjourn

Long Island Chapter - Past Presidents

1958	H. Campbell, Jr. PE	1987	Abe Rubenstein, PE
1959	Clyde Alston, PE	1988	Michael O'Rouke
1960	Sidney Walzer, PE	1989	Mel Deimel
1961	Sidney Gayle	1990	Robert Rabell
1962	William Kane	1991	Gerald Berman
1963	Louis Bloom	1992	Donald Stahl
1964	Milton Maxwell	1993	Ronald Kilcarr
1965	Will Reichenback	1994	Jerald Griliches
1966	Joseph Minton, PE	1995	Walter Stark
1967	Irwin Miller	1996	Joe Marino
1968	Walter Gilroy	1997	Norm Maxwell, PE
1969	Charles Henry	1998	Alan Goerke, PE
1970	William Wright	1999	Frank Morgigno
1971	Louis Lenz	2000	Michael Gerazounis, PE, LEED AP
1972	Ronald Levine	2001	Ray Schmitt
1973	Henry Schulman	2002	Steven M. Stein, PE
1974	Myron Goldberg	2003	Andrew Braum, PE
1975	John N. Haarhaus	2004	Claudio Darras, P.E.
1976	Richard K. Ennis	2005	Craig D. Marshall, P.E.
1977	Kenneth A. Graff	2006	John Nally
1978	Evans Lizardos, PE, LEED AP	2007	Peter Gerazounis, PE, LEED AP
1979	Albert Edelstein	2008	Steven Friedman, PE, HFDP, LEED AP
1980	Ralph Butler	2009	Steven Giammona, P.E., LEED AP
1981	Robert Rose, PE	2010	Nancy Román
1982	Timothy Murphy, PE	2011	Carolyn Arote
1983	Leon Taub, PE	2012	Brian Simkins, LEED AP
1984	Raymond Combs	2013	Andrew Manos, LEED AP BD+C
1985	Edward W. Hoffmann	2014	Richard L. Rosner, P.E.
1986	Jerome T. Norris, PE		

ASHRAE Long Island Chapter

PAOE POINTS FOR 2015/2016

Chapter Members	Membership Promotion	Student Activities	Research Promotion	History	Chapter Operations	CTTC	GGAC	Chapter PAOE Totals
282	135	250	980	400	905	1,325	175	4,170

April Field Trip - Tuesday, April 12, 2016

ASHRAE LI CHAPTER'S
ANNUAL FIELD TRIP
TUESDAY, APRIL 12, 2016

1165 Station Road, Medford, NY 11763

DATE:	**TUESDAY, APRIL 12, 2016**
ITINERARY:	**10:30 AM TO 1:30 PM**: Tour the Blue Diamond Sheet Metal Fabrication Shop **(PLEASE DO NOT BE LATE)**
FEE:	**Tour – Complimentary for all Members** *** Lunch afterwards (pay your own way) at Ruby Tuesday**
LOCATION:	**Blue Diamond Sheet Metal Inc.** **1165 Station Road, Medford, NY 11763**
ABOUT THE TOUR:	Tour a full service sheet metal fabricator. The tour will start in the progressive order of turning mechanical drawings into fabricated duct work ready to be supplied to the job site 

Pre-registration Required! See next page for RSVP form.

April Field Trip - Tuesday, April 12, 2016

ASHRAE LI CHAPTER'S
ANNUAL FIELD TRIP
TUESDAY, APRIL 12, 2016

Blue Diamond Sheet Metal, Inc.

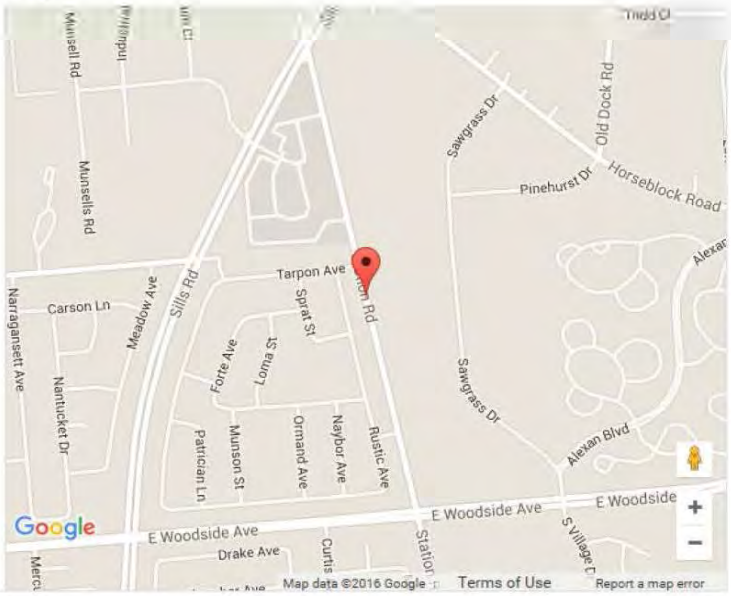
RSVP Form - Reservations are Required!
Email to Charles Lesniak at clesniak@lakhanijordan.com
By April 11th, 2016

I would Like to Attend (NAME):	
Phone #:	

Address:

Blue Diamond Sheet Metal, Inc.
1165 Station Road
Medford, NY 11763
(631) 286-5131

Map:



Young Engineers in ASHRAE (YEA)

Happy spring, everyone. Hopefully the cold weather is near its end and we will soon enjoy warmer days.

Keep up to date with some upcoming YEA programs and events as follows:

Presented by the ASHRAE Learning Institute, the HVAC Design Essentials Training allows attendees to gain the fundamentals and technical aspects to design, install and maintain HVAC systems.
To encourage attendance by young professional ASHRAE members, the YEA Institute offers one full scholarship for attendance to the HVAC Design: Level I – Essentials training. The full cost of registration to Level I of this workshop will be covered by ASHRAE.

- **June 13-15, 2016 in Atlanta, GA** (deadline for application is Monday, April 18, 2016)

Another great way of keeping up to date with ASHRAE is following the YEA Connection to keep informed of any news and activities on a quarterly basis

Smart Start Program
Recent Graduates can transfer their student ASHRAE account with the Smart Start Program.
Simply put, it's the best way for ASHRAE student members to receive the many benefits of Associate grade membership after finishing college. SmartStart is a 3-year program that allows Student members to transfer to Associate grade membership at a rate that is recent-graduate friendly.

Also, I am looking forward to creating another YEA social event towards the end of April. This event will most likely be held on a weeknight at Cozymel's in Westbury NY. Stay tuned for an email with the ironed out details for this social event.

We will be looking for more ideas for social events so please contact me if you have suggestions.

Hope to see you all out there.

Frank Paradiso
YEA Chairman

ASHRAE™
Long Island
Chapter

Research Promotion

As always, I would like to extend my sincerest thanks to you for your support of ASHRAE Research. More than 80 research projects worldwide received support from ASHRAE because of your investment. Society has raised approximately 1 million dollars of our 2.6 million. Or next goal is to reach 100% of goal prior to June 15th. We are ahead of last year's fund raising at this point of the year, but we still have a long way to meet our goal. If you haven't yet contributed please do.

Find out more with this Brochure (https://www.ashrae.org/File%20Library/docLib/RPBrochures/Research-brochure.pdf)

INDIVIDUALS

Frank D Morgigno
Michael Gerazounis, PE
John D Nally
Andrew E Manos
Donald W Kane, PE
William Artis, Jr
Richard L Rosner, PE
Andrew B Dubel
Charles J. Lesniak, PE
Evans Lizardos
Robert J Fuchs
Frank Paradiso
Richard Halley
James Hanna
Thomas Fields, PE
Ricky Gaska
Chris Sideris
James R Tauby, PE
Steveb Benkovsky
Richard Pearson
Anthony Rosaco

COMPANIES

SMACNA - Long Island
PVI
Metro Air Products
Technical Air Systems
RPG Associates
Albert Weiss
VMC East
MV Controls
ACS Analytical and Combustion Systems
AEF Sales
ASAP Sales
Accuspec
Lizardos Engineering
Bush Sales
Catan Sales
Klima Sales
Venco Sales
Miller Proctor Nickolas Inc.
EMTEC Consultants

CONTRIBUTIONS CAN BE MADE IN THE FOLLOWING WAYS:

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

Andrew Dubel, P.E.
ASHRAE Research Promotion Chair
c/o Lizardos Engineering Associates PC
240 West 35th Street, Suite 304
New York, NY 10001

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

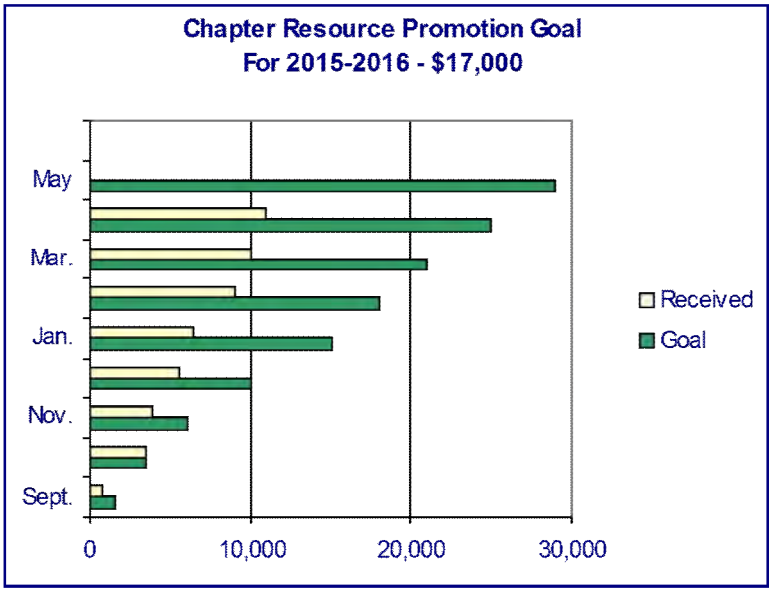
3) You can contribute via PayPal from the ASHRAE LONG ISLAND web site, just click on the donate button.

4) You can contribute directly on-line. www.ashrae.org

**** Please make sure you accredit your contribution to the LONG ISLAND CHAPTER 006 ****

Thank you again for all of your support!

Andrew B. Dubel, P.E.
Research Promotion Chair



CTTC - IF IT'S NOT BROKEN...KEEP IT THAT WAY

"High Tech"…. "State-of-the-Art"… "Energy-Efficient"… "Intelligent"… "Smart-Building"… "Green"… "Digitally controlled"… "Autonomous"…and the list goes on…every day brings yet another superlative to describe the latest HVAC meme. Interesting times we live in. Almost makes one wonder how we ever stumbled along in the Neanderthal days of the slide rule and Ductulator. Without a doubt, we have benefitted from the design and manufacturing tools available to us today. It is possible to "right-size" the environmental equipment and controls instead of using "rules-of-thumb" resulting in, sometimes, over or undersized installations. By careful use of modeling systems, we can more accurately determine the actual comfort heating/cooling loads in a given structure taking into account occupancy, time of day, outside ambient and solar insolation. What could possibly go wrong?

After the system is fully commissioned and the designers, manufacturers and installers have moved on to the next citadel of technology, what then? That's right…maintenance. All too often, maintenance is only thought of when something stops working as intended, however the true goal of maintenance should be to prevent equipment failures which result in downtime. Indeed, a whole field of predictive maintenance has evolved, with teams of people calculating, in a probabilistic way, when equipment and other system components will reach end-of-life, and developing procedures for replacement of these items in a programmed manner. Sometimes these teams comprise more statisticians than mechanics and technicians, resulting in a somewhat skewed point-of-view...but more on that later.

Unfortunately, concurrent with those good folks determining the optimum point to replace equipment, prior to failure, most organizations will have other teams looking to see how far they can prolong the lifetime of equipment by deferring those replacements or exceeding the design ratings or trying to extract the very last BTU from the heating or cooling equipment. If there is insufficient coordination between these teams, the results can be disastrous. Years ago, the electric utility industry spent a lot of time figuring how to more heavily load (overload) transmission line conductors without causing failure. Considering the very conservative ratings that were in use at the time, there was, in fact, some wiggle room for heavier loading. Unfortunately, other cost cutting teams had determined that a lot of money could be saved by deferring the trimming of trees and other vegetation along transmission rights-of-way. The result…on an extremely hot day, with a huge air-conditioning load (yeah…it was all our fault), the transmission line conductors sagged ever closer to mother earth…close enough to flash over to the trees which had not been trimmed…resulting in a loss of electric power to a large portion of New York State. Neither one of the two approaches, in and of themselves, were faulty. The lack of coordination, however, was the fatal flaw.

So…take our **hypothetical** high tech building HVAC system, incorporating health monitoring which determines that some part of the system is approaching a failure event; alert messages are automatically texted to the appropriate personnel, a package delivery drone is dispatched with the necessary replacement part which is left on the loading dock. Unfortunately, no one is there (being after normal business hours) to receive it and replace it, so the building system goes down…resulting in a lot of unhappy campers the following morning. Since the building's systems had been functioning without issue for so long, someone decided that it would be a cost savings to not have an on-site or on-call person for those rare occasions when something fails. They did not bother to reach out to the maintenance personnel to determine what effect this would have and if any adjustments to procedures were required. Actually, had the cost accountant spoken to the predictive maintenance guy…he may very well have been given a more optimistic forecast as to when failures could be expected...if, for example, bearings were a concern, and the bearing L_{10} Lifetime was specified as 50,000 hours, failure should not be an issue...at least 90% of the time! However, since the expected lifetime presumes proper lubrication and if the grease fitting for the far-side bearing is much harder to gain access to (so only gets it's infusion of lubricant every other maintenance cycle -- remember, the predictive maintenance committee is heavily weighted with statisticians…not mechanics/technicians). Aye…there's the rub. Without good communication and coordination of all parties, the best system will only facilitate arriving at the wrong answer faster. Alas…eventually all parties will communicate, the systems will have robotic mechanics to change their own parts and maintenance alerts will not be disregarded. This will happen shortly after we all actually DO change our smoke detector batteries twice a year and replace the water filter in the coffee maker when it tells us it is time to! In the meantime, what can we do to keep our systems humming?

Cont'd. on Page 12

CTTC - IF IT'S NOT BROKEN...KEEP IT THAT WAY (Cont'd. from Page 11)

Actually, there is a lot of low hanging fruit….items that should be part of all maintenance rituals, here, in no particular order of preference are some to think about:

Filters-Air filters, water filters, strainers…clean or replace as required. Start with the manufacturer's recommendation… and, after actual use, determine if more frequent changing is needed. Use the correct size and type, making sure all sealing surfaces are intact and providing the correct seal.

Duct - Check for restriction in flex ducts. Even if properly installed initially, unless protected against damage, eventually, damage will occur. Check for dust build up in all ducts, rigid or flex. If significant build up is observed, chances are incorrect or inadequately sealed filters are being used or, other openings exist through which dust is drawn in.

Condensate drains – Check for physical damage, obstructions and proper trapping.

Belts – Check for proper tension, cracking and/or fraying. Don't over-tension. This short term solution to a slipping belt will lead to more expensive bearing replacements. For multiple V-belt drives, replace in matched sets.

Sensors – Check for physical damage and changes in calibration. For pressure sensors, verify that nothing is plugging of orifices and connecting tubing.

Gaskets – Ensure that all gaskets are in place and intact. Missing or damaged gaskets will, at the least, reduce the efficiency of the system and, if it permits air to bypass filtering, can result in consequential damage downstream.

Flex connections (ducts) – Check for over/under extension (especially in offices where re-arrangement of the work space required relocation of ceiling grilles…without modifying the original length of flex duct); physical damage from inadvertent contact with other systems or personnel; Are the connections properly sealed (were they ever)? Are mechanical clamps being used or are there remnants of improperly applied tape dangling off the terminating end? Are flexible (fabric) connection between metallic ducts over stressed due to excessive angular misalignment, or stretched so taut that no isolation is provided between sections?

Flex connections (hydronic) – Is pump piping properly supported to prevent the flex hoses from carrying the weight of the piping above it? (Were the shipping braces removed from the flexes after installation?)

Missing hardware (retaining screws) – Are all required fasteners installed? Keep extras on hand…even better if all of the fasteners are of the same head type.

Bearings- Properly lubricate bearings where required. Post the type and amount of lubricant to eliminate improper oil or grease selection or over-lubrication. If there is a need to substitute a different grease, ensure compatibility with the existing product. Don't use high pressure applicators when low pressure is called for to prevent seal damage. Make sure improper belt installation isn't stressing bearings (see "Belts" above).

Roll-out switches – Verify functionality.

Flues – Check for presence and integrity. Check if any other equipment has been installed with intakes too close to the flue on existing equipment. For **condensing boilers**…if plastic flue pipes are installed, verify that it is per the manufacturer's and code requirements (if permitted). Check integrity of connections and protection against animal ingress.

Vibration Mounts – For pad type and rubber-in-shear mounts, are the rubber parts free of cracks? Are pads crushed, or are they still functional? Are spring-type mounts properly installed and adjusted?

Equipment/Motor Mounting – Are all motors and equipment intended for solid mounting properly aligned and secured? Check for soft-foot and remedy if found.

Hoods and cowls – Verify that all hoods and cowls are securely fastened, to resist wind forces during extreme weather events.

Cont'd. on Page 13

CTTC - IF IT'S NOT BROKEN...KEEP IT THAT WAY (Cont'd. from Page 12)

Drip Pans and Cooling Towers – Check that drip pans and cooling towers do not harbor stagnant water, correct any drainage issues preventing free draining.

Roof Top Units – Verify that all equipment is properly secured, using a connection path to the building frame. Where located on the uppermost level of a structure, ensure that proper protection is in place for possible lightning events.

…And the list could go on and on…but you get the point. No matter how high-tech or advanced any of our designs are, there are any number of items which can result in reduced effectiveness of a system, if not actual failure, if uncorrected. The point to all this is that long after the ribbons have been cut and the tenants/residents move into a new building, if there is no detailed maintenance plan in place, the best of systems will degrade and, eventually, fail. It is often (maybe too often) repeated that to "fail-to-plan" is to "plan-to-fail". Nowhere is this more applicable than when dealing with the myriad mechanical systems we design and install to provide a safe, comfortable environment for a building's occupants. Enough…I have to replace the water filter on my coffeemaker J

Don Kane, P.E.
CTTC Chair AND V.P. - cttc@ashraeli.org

Membership

The HVAC business is hiring, and opportunities are abundant! Over the past few months, multiple businesses dealing with various aspects of the HVAC industry have asked me if the Long Island Chapter could help them find good people to help their businesses grow. Employers value your ASHRAE membership. Our members demonstrate a genuine interest in their continued personal and professional development along with a willingness to learn. Quite simply, our members go above and beyond to contribute meaningfully to the HVAC community. Our membership remains strong and the networking opportunities grow stronger every day.

With graduation right around the corner, this is an excellent time to be a student member of ASHRAE. Unfortunately, these opened doors will close if you allow your membership to lapse. Renewing is easy at www.ashrae.org. Just log in and click "renew!" If you are currently enjoying a student membership, this is the perfect time to check out our Smart Start program. This program allows you to benefit from ASHRAE membership for years at a deeply discounted price.

Ken Mueller
Membership Chairman

Student Activities

Spring has sprung and our students are making the turn and heading into the home stretch. Just about 6 weeks to go before they are done for the year. It has been a busy month at both of our student chapters. We would like to thank James Hanna for his help in working with our students at the Stony Brook Student Chapter as they are putting the final touches on their Design Competition Project. They have worked very hard and we wish them the best of luck. . I would also like to thanks Andy Manos for his leadership with the chapter

If you are in need of summer interns please contact me with you requirement and I can assisted you with a possible match.

Our ASHRAE Long Island chapter student scholarship program is now accepting applications for our annual student scholarship. We have attached a copy of the application to this newsletter (see pages 14-15) and if you need additional copies please email me at rchalley@trane.com . Don't forget the deadline for applications is **May 1, 2016**.

Richard Halley
Student Activities Committee Chair

Student Activities - Annual Student Scholarship - May 1, 2016 Deadline

American Society of Heating, Refrigerating & Air Conditioning Engineers
Long Island Chapter, Region 001

ANNUAL STUDENT SCHOLARSHIP

The Long Island Chapter awards up to two (2) $1,000.00 or (1) $1,000.00 and (2) $500.00 scholarships annually to those who are well rounded and show an interest in pursuing an engineering career. Eligible entries for the 2015/2016 year must be submitted by **May 1, 2016**. Email address **rchalley@trane.com**

Application Date:_____

Personal information:

Last Name:_____First: _____Middle:_____
Home address: _____
City: _____ State: _____ Zip: _____

School address: _____
City: _____ State: _____ Zip: _____
Phone # _____ E-mail address -Home: _____
Cell # _____ E-mail address-School:_____

Faculty Reference:

Name Address Phone #

1._____

Personal Reference:

Name Address Phone #

1._____

2._____

Education:

High School: Location Years Attended Graduation Date

College/University Location Years Attended Date graduating

College major GPA

Student Activities - Annual Student Scholarship - May 1, 2016 Deadline

American Society of Heating, Refrigerating & Air Conditioning Engineers - Long Island Chapter, Region 001

ANNUAL STUDENT SCHOLARSHIP

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Essay: Please describe your interests, activities, goals and why you deserve this scholarship (Attach additional sheets as necessary).

I also agree that my misstatement or omission of any information requested in this application shall be valid reason for rejection of this application. In the event I am selected to receive the application, I agree to attend the local chapter award dinner. The dinner will be free of cost to the award recipient.

No question on this application is asked for the purpose of limiting or excluding any applicant's consideration for reasons proscribed by federal, state or local law, and discussions are based entirely on knowledge, skills and ability. Qualified applicants are considered without regard to race, color, religion, sex, national origin, disability or age to the extend prohibited by law.

Applicant Signed

Faculty Advisor Signed

Grassroots Government Activities Committee (GGAC)

Please review is the link below okay to include. It's a really interesting article and doesn't look political.
http://insideclimatenews.org/news/04042016/coned-brooklyn-queens-energy-demand-management-project-solar-fuel-cells-climate-change

Grassroots Government Activities Committee (GGAC)
As most of you know ASHRAE is no longer a US based society it has moved itself to a global society, ASHRAE wanted to start a new committee in their local chapters to help it grow globally so it created the GGAC. The main purposes of the GGAC is to serve as a communicator between the local ASHRAE chapters and national, serve as a communicator between the local ASHRAE chapters and other trade organizations, and to update local government officials on ASHRAE standards and technical issues. Please look at the ASHRAE's main GGAC webpage at https://www.ashrae.org/government-affairs/ and ASHRAE's new GGAC Facebook page at www.facebook.com/ASHRAEGGAC/ for more information what the GGAC is doing nationally. The latest topics which AHSRAE is participating in can be found at the link: https://www.ashrae.org/government-affairs/government-affairs-updates/government-affairs-updates-03-18-2016

Semi-Annual Report on DOE Energy Conservation Standards Activities Submitted to Congress
The US Department of Energy (DOE) issued its semi-annual report to Congress, summarizing the Department's energy conservation standards activities. Since its last report, DOE finalized 16 rules and took 20 other related rulemaking actions. Many of these activities have been reported in previous editions of the *Government Affairs Update*.
The report can be found by clicking here.

White House Council on Environmental Quality Updates & Issues New Instructions for Determining Compliance with the Guiding Principles for Sustainable Federal Buildings – ASHRAE Standards Referenced
Continuing the federal government's commitment to lead by example in reducing greenhouse gas emissions, the White House's Council on Environmental Quality recently updated and issued new guidance for federal agencies to comply with the *Guiding Principles for Sustainable Federal Buildings*. The associated documents reference several ASHRAE Standards, including 189.1, 90.1, 62.2, 62.1, and 55. Below are links to relevant information:

ASHRAE Mentioned in Two National News Articles
Two recently published stories, highlighting the recent legionella outbreaks in New York City and Flint, Michigan, mention ASHRAE by name. The first from ABC News, dated February 16, 2016, is Testing Change Possible After Flint-area Legionella Outbreak and focuses on the water crisis and the ensuing legionella outbreak in Flint, MI. The second article, "How New York City can learn from Flint," was published on February 18, 2016 in the New York Daily News. Both encourage adoption of the new ANSI/ASHRAE Standard 188-2015, Legionellosis: Risk Management for Building Water Systems as part of those city's effort to prevent the bacteria that causes legionella. The Standard is available in a read-only format here. these articles and the link to this, and other, standards can be of great help in approaching elected and appointed officials to promote ASHRAE Standards, products, services, and technical expertise.

ConEd Selects Non Traditional Ideas Instead of Installing a New Sub Station
ConEd has realized that they will need to upgrade the electrical infrastructure in an area of Brooklyn and queens. Normally this would require a new substation and the price for the new substation was estimated at $1.2 billion dollars. The company came up with a different approach and solicited ideas and came up with a plan called the "Brooklyn-Queens Demand Management Project" (BQDM). BQDM will include grid management, onsite power generation and increasing customer efficiency. This price for this approach is estimated to be $200 million. ConEd estimated the area will be overloaded by 69 Megawatts by 2018. The BQDM calls for a reduction 52 MW through a combination of new clean power generation of distributed solar and fuel cells, and efficiency upgrades. The remain 17 megawatts will come from infrastructure upgrades. of the 52 MW reductions 41 MW will come from consumers and 11 MW will come from utility scale projects. Please see the link below for more information:
http://insideclimatenews.org/news/04042016/coned-brooklyn-queens-energy-demand-management-project-solar-fuel-cells-climate-change

Charlie J. Lesniak, P.E.
Grassroots Government Activities Chair

History

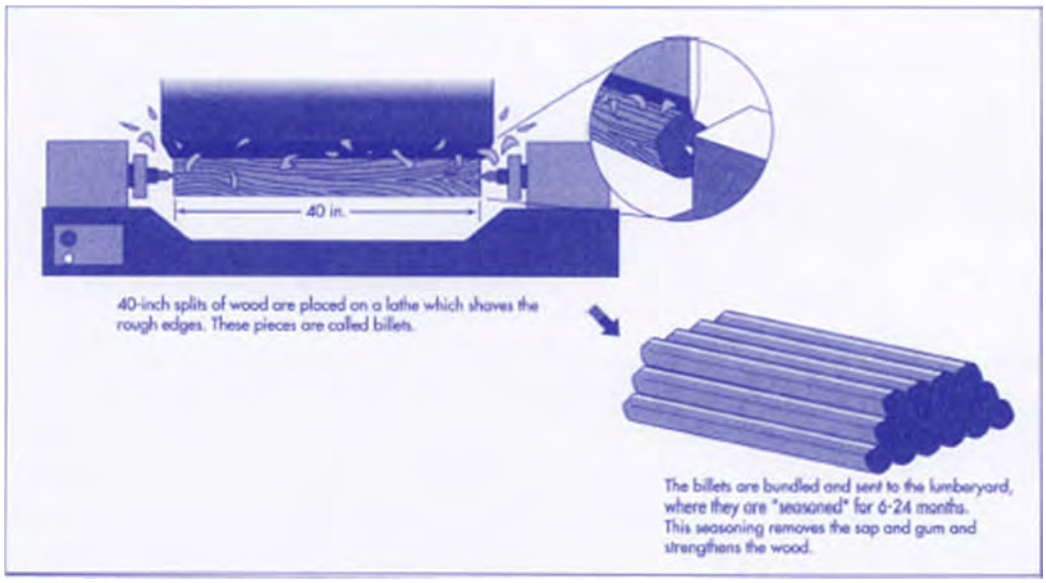
With baseball opening week upon us, I thought it be appropriate to have this month's History Topic around America's favorite pastime. Below is an interesting article about how baseball bats are manufactured. Full credit of this article goes to the Mary McNulty.

When the game of baseball was first played, sticks were used to hit the ball. By the time the game had been officially organized as a team sport, the players either whittled their own bats or bought them from a wood turner. League specifications set in 1863 were broad: any type of wood was permissible and the bats had to be round, not more than 2.5 inches (6.5 cm) in the thickest part. There were no length restrictions. Early bats ranged in weight from 48-50 ounces (1361-1417 g) with an average handle circumference of 4.5 inches (11.4 cm). The hefty weight meant home runs were rare. By the 1960s, however, players such as Hank Aaron were using shorter, lighter bats to smash balls into the centerfield seats. Aaron's bat measured 35 inches (89 cm) long and 33 ounces (979 g) in weight.

Modern baseball rules limit bat lengths to 42 inches (107 cm) and the diameter to 2.75 inches (7 cm). There are no weight restrictions. The bats must be made of wood with no metal, cork, or other type of reinforcement inserted into the bat's center. Over the years, several major league players have tried to use a reinforced bat. A particularly colorful controversy surrounded a bat used by Albert Belle of the Cleveland Indians. Belle's bat was confiscated during a game between the Indians and the Chicago White Sox in July of 1994. The bat was stored in the umpires' locker room at Comiskey Park until it could be tested the next day. How-ever, it disappeared overnight. It was returned anonymously the next day and found to have a corked center. In spite of protests, Belle received a temporary suspension. The mystery of the bat's disappearance and reappearance has yet to be revealed.

Hillerich & Sons, a Kentucky wood-turning shop, was the first company to devote a full-time operation to the manufacturing of baseball bats. According to company lore, in 1884, John "Bud" Hillerich, the son of the company's founder, was attending a Louisville Eclipse baseball game when a player named Pete "Old Gladiator" Browning broke his bat. Bud invited Browning back to the shop where Bud custom-made a new bat from a piece of white ash. During the next day's game, Browning pounded three hits in three at-bats using the new bat. And the rest, as they say, is history. The ensuing requests for custom-made bats from other players helped Bud convince his father to add bat manufacturing to the family business. The company named its new product the "Louisville Slugger." (The company became Hillerich & Bradsby in 1911 when Frank Bradsby, a sporting goods magnate, joined the firm.)

Baseball players are notoriously particular about their bats, and have been so through-out the sport's history. Frank Frisch, who played in 50 World Series games for the New York Giants and the St. Louis Cardinals, cured his bats during the off-season by hanging them like sausages in a barn. Boston Red Sox slugger Ted Williams bathed his bats in alcohol to keep them cool during his many hitting streaks. Williams was also known to visit lumberyards looking for pieces of wood with narrow growth rings. The legendary Babe Ruth preferred his bats to have pin knots in the barrels.



Cont'd. on Page 18

History (Cont'd. from Page 17)

Traditionally, forty- to fifty-year-old ash trees are used to make baseball bats because of their strength, flexibility, and light weight.

Raw Materials:

Traditionally, ash trees from Pennsylvania and upstate New York are used to make baseball bats. The ash is valued for its strength, flexibility, and light weight. The best trees are those that grow in dense clusters where they are protected from the wind and forced to grow straight up towards the sunlight. Forty to fifty years of growth is required to bring an ash tree to the preferred trunk diameter of 14-16 inches (36-41 cm). Each tree yields approximately 60 bats.

When a tree has reached the proper height and width, a forester marks it with spray paint. A log cutter then uses a chain saw to bring down the tree. The top branches are removed and left in the forest. The tree trunks are sawed into 10-16-foot (3-5 m) lengths, loaded on a truck, and taken to the mill. At the mill, the logs are inspected for knots and uneven grains. Only half of what is cut in the forest is ultimately used to manufacture baseball bats. The logs that make the grade are rolled to a hydraulic wedge that cuts them into 40-inch (101 cm) splits.

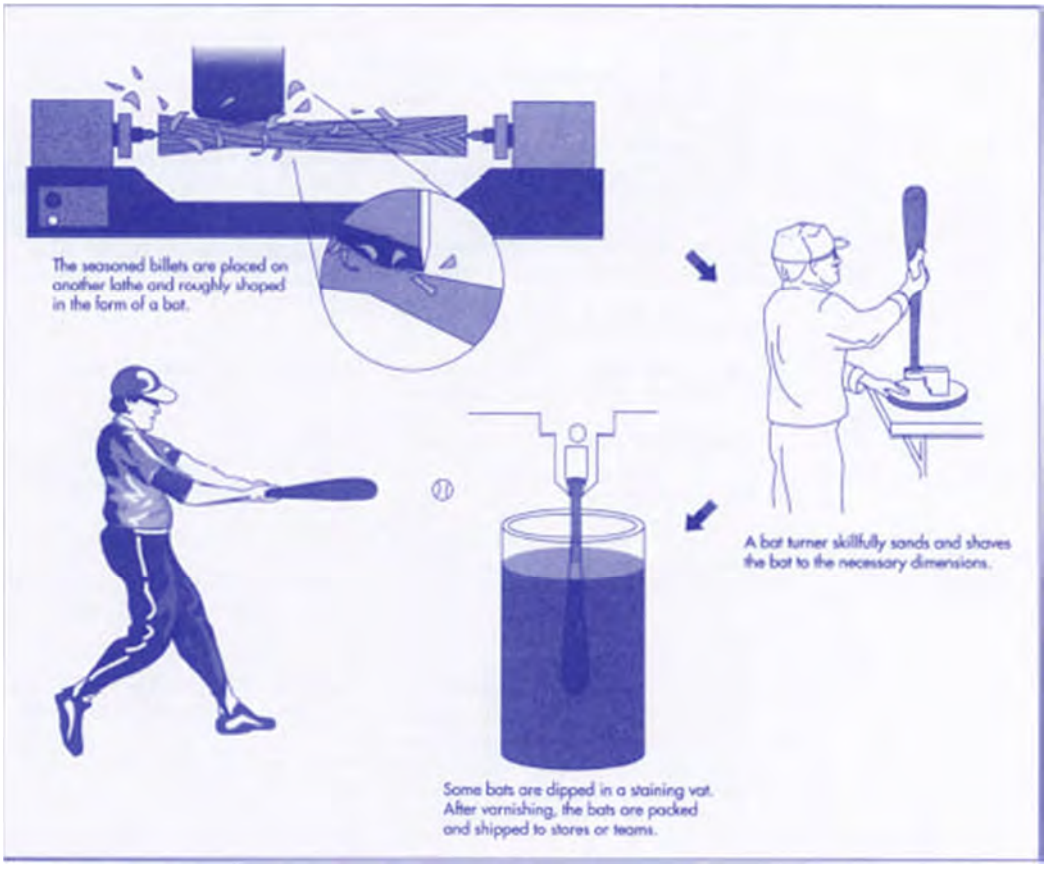
The Manufacturing Process:

Turning the splits into billet

- A mill worker places each split onto an automatic lathe that shaves the rough edges off as it turns the wood. The billets, as they are now called, are inspected again for straightness of grain. The billets are stacked and strapped together into six-sided bundles. Workers paint the ends with a protective preservative to keep the wood from fraying or rotting. The bundled billets are then trucked to the lumberyard of the bat manufacturer.

Seasoning the billets

- The billets that arrive at the lumberyard are considered "green" wood because they still contain sap and gum. In order to strengthen the wood, the sap and gum must be removed by an air-drying process called "seasoning." To achieve the proper seasoning, the billets are simply stacked in the yard for a period of six months to two years.



Cont'd. on Page 19

History (Cont'd. from Page 18)

The plant workers who create the final product are called bat turners. They are highly skilled artisans who have been specially trained for the intricate work. When an order is placed, the bat turner selects a billet from the storage bin and creates a replica of the desired model.

Shaping and sanding the billets

- When the billets have dried completely, they are weighed and inspected for quality. A worker places each billet on an automatic lathe and shapes it into a rough baseball bat shape with a narrowed neck. The bat forms are sanded, inspected once more, and then sorted according to weight.

Matching the bat to the model

- The bat manufacturer keeps a model of each bat made, typically identified by the baseball player who initially ordered it. When a player or team places an order, the order may look like this: six Johnny Bench models, ten Hank Aarons, four Mickey Mantles. The plant workers who create the final product are called bat turners. They are highly skilled artisans who have been specially trained for the intricate work. When an order is placed, the bat turner selects a billet from the storage bin that fits the called-for weight and length. The billet is placed on a lathe. The model bat is placed on a rack above and behind the lathe. The bat turner revolves the billet slowly on the lathe, sanding and shaving it to an exact replica of the model. Using calipers, the bat turner measures the billet every 1-2 inches (2.54-5 cm) and weighs it repeatedly until it is perfect.

Branding, staining, and varnishing the bats

- The bat is branded with the company trademark and the signature of the player associated with the model. The trademark is placed one-quarter of a turn from the sweet spot (the ideal spot where the ball should strike the bat). If the order calls for staining, the bat is dipped into a staining vat. All of the bats are then varnished, packed into cartons, and shipped to the player or team.

Quality Control:

The structural integrity of the baseball bats are monitored through repetitive impact testing. Some factories have compressed-air cannons that shoot baseballs at precise points on the bat. High-speed cameras record the impact while accelerometers measure the velocity. In other plants, robotic arms whack the balls off over-sized golf tees. Inspectors collect data on the frequency of bending and how the balls travel off the bat.

The Future:

In spite of manufacturers' assurances that the supply of ash trees is not decreasing, the development of composite and aluminum bats continues. The wood composite bat typically consists of a plastic foam core surrounded by woven layers of resin-impregnated synthetic fibers. One of the newest innovations is a bat made of "lanxide," a ceramic-enforced material. Proponents of non-wood bats point to their resistance to breakage. These bats also greatly alter hitting power: a player's batting average increases markedly with an aluminum bat. Although the composite and aluminum bats are popular with amateur and college base-ball players, they are required to use all-wood bats if they advance to the major leagues. It is doubtful that Major League Baseball will ever allow anything but pure wood for bats. The sport is steeped in tradition, and the use of aluminum or composite materials would alter the record books dramatically.

Where To Learn More:

Book:

Arnow, Jan. *Louisville Slugger: The Making of a Baseball Bat.* Pantheon Books, 1984.

Periodicals:

Ashley, Steven. "High Tech Up at Bat." *Popular Science,* May 1992, pp. 108-11, 122-24.

Curreri, Joe. "Romance of the Bat." *Antiques and Collecting Hobbies,* May 1992, p. 26.

Pesky, Greg. "Expanded Coverage." *Sporting News,* June 1993, p.32.

"Lanxide Shows Mettle with New Material." *Sporting Goods Business,* July 1993, p. 36.

James Hanna
History Chairman

ASHRAE: Lowest Rates Available for Annual Conference

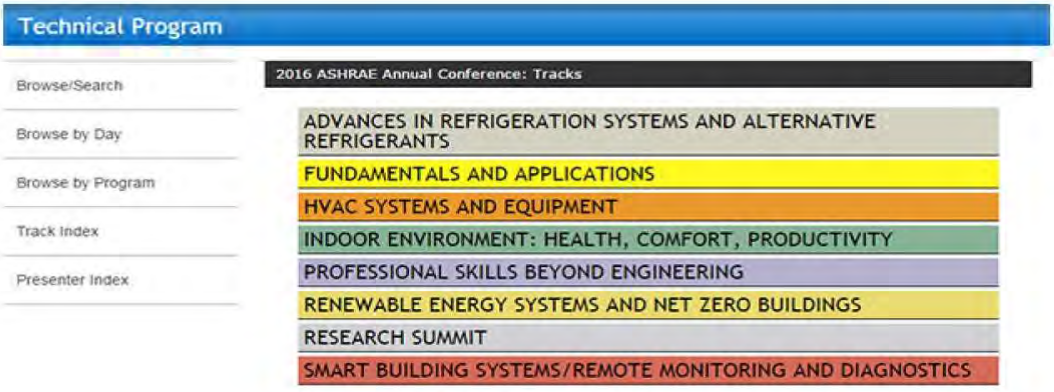
Register today for the ASHRAE Conference in St. Louis. Take advantage of the opportunity to discuss and examine the latest topics in the building industry and earn professional development credits. Hotels are filling up quickly!

Register before rates increase on April 27. You can register at www.ashrae.org/stlouis.

The technical sessions offer an excellent opportunity to learn the results of cutting-edge research and the latest standards that affect the built environment. Topics include nearly every technology used in HVAC&R including alternative refrigerants, fire and smoke control, smart control systems and sources and efficient utilization of renewable energy. In addition, learn the personal and business skills necessary to become and remain a leader in our industry.

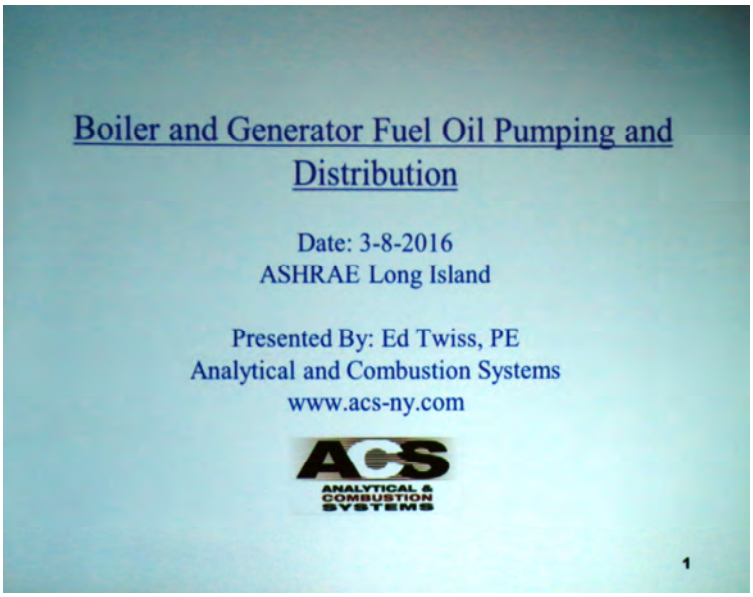
The Technical Program features eight tracks, 108 sessions and more than 400 speakers. The program offers over 130 Professional Development Hours, as well as Continuing Education Units, which can be applied toward a Professional Engineering license, including the state of Florida, AIA LUs and LEED AP credits. Check out the new interactive Technical Program to find the topics, sessions and speakers of most interest to you! Featuring options to search by track, program type, date and keyword, the interactive Technical Program provides a detailed look at each session from color-coded tracks to sponsoring committees. Access, browse and bookmark the feature on your computer, tablet or smartphone.

The interactive Technical Program is available at www.ashrae.org/stlouisinteractivetechprogram.



Can't attend the Conference but want to tap into the technology? Check out the Virtual Conference option for the 2016 Annual Conference as well as previous ones.

March Meeting Pictures



March Meeting Pictures

ASHRAE is seeking papers for its 2017 Winter Conference in Las Vegas

Shaping Tomorrow's Built Environment Today

ASHRAE is seeking papers for its 2017 Winter Conference in Las Vegas, Nev., Jan. 28-Feb. 1, 2017.

To submit a Conference paper abstract or a technical paper and for more information about the conference, visit www.ashrae.org/lasvegas.

"Today's HVAC&R profession is facing challenges unlike those from the past," Leon Shapiro, Conference chair, said. "The rapidity with which technology advances the modeling, design, equipment, systems, construction and operation of the buildings we deal with, along with the speed with which climate change is significantly altering the conditions around which we design, are creating problems for today's ASHRAE members. The conference seeks to address those problems."

The conference seeks papers on new tracks addressing design issues that are challenging the entire industry.

- The Water-Energy Nexus track highlights research in the relationship between water usage and energy systems. It also explores technologies and designs intended to reduce the gap between energy and water efficiency.
- The Advances in Mission Critical Design and Operation track highlights developments in mission critical facilities and the challenges of meeting increasing load demands while minimizing the impact on energy and water usage.
- The Climate Change and Its Effects on HVAC&R Design and Technologies track focuses on methods to increase building resiliency and facilitate climate adaptation.
- Energy Efficient Industrial Buildings and Life Safety spotlights energy efficiency in industrial buildings and how it can be achieved without compromising life safety considerations.

The conference also seeks papers on Fundamentals and Applications, HVAC&R Systems and Equipment, Commercial and Industrial IAQ and Building Operation and Performance: Meeting the Modeling Expectations.

ASHRAE offers two types of paper submissions:

Conference Papers: Abstracts due March 14, 2016. Upon acceptance, papers will be due July 6, 2016. These "final" papers undergo a single-blind review, are submitted as a PDF and have an eight single-spaced page maximum length.

Full Technical Papers, which are due April 18, 2016. Papers submitted for review must be both technically accurate and clearly written. These papers undergo a rigorous double-blind review and can be a maximum of 30 double-spaced pages.

www.ashrae.org/lasvegas

ASHRAE Golf Outing - Monday, May 23rd, 2016

17th Annual LI ASHRAE GOLF OUTING

Monday – May 23rd, 2016

Place:	**Cherry Valley Club**
Brunch:	**11:00 am**
Shotgun:	**12:30 pm**
Reception:	**5:30 pm**
Dinner:	**6:30 pm**

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

(2) Foursome Limit Per Company.

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

CHECKS MUST BE IN BY APRIL 30, 2016 (No Exceptions)

Fax, Email or Mail entire sheet or cut this half and return

Name: _____ Company: _____

Address: _____ Phone: _____

City, State, Zip: _____ Fax: _____

I have read and understand the Cherry Valley Rules and Regulations (Signature): _____

Guest 1: _____ Company: _____

Guest 2: _____ Company: _____

Guest 3: _____ Company: _____

Fund raising is primarily through the contributions of our sponsors.

Golf & Meals:	**$ 350 pp x ____**		**= $_____**
Reception & Dinner:	**$ 130 pp x ____**		**= $_____**
Sponsor Dinner:	**$1,000**	☐ **Yes**	**= $_____**
Sponsor Lunch:	**$ 500**	☐ **Yes**	**= $_____**
Sponsor Reception:	**$ 500**	☐ **Yes**	**= $_____**
Sponsor Prizes:	**$ 500**	☐ **Yes**	**= $_____**
Sponsor Beverage Cart:	**$ 500**	☐ **Yes**	**= $_____**
Sponsor Hole:	**$ 200**	☐ **Yes**	**= $_____**

Please make check payable to:

ASHRAE – Long Island Chapter

Mail Checks To:

MG Engineering D.P.C.

Attn: Peter Gerazounis, P.E. LEED AP

116 West 32nd Street

New York, NY 10001

Fax No.: (212) 643-0503

Email: peter.gerazounis@mgedpc.net

ASHRAE Golf Outing - Monday, May 23rd, 2016

Cherry Valley Club
28 Rockaway Avenue at Third Street
Garden City, NY
Telephone: (516)746-4420
Fax: (516)746-4421

Program:

11 a.m. Brunch in the Clubroom & Lounge – including Omelet station, deluxe deli board with rolls, chicken scarpiello, danish, croissants, bagels & cream cheese, sliced nova, fresh fruit and cheeses, Good Humor ice cream cart.

12:30 p.m. Shotgun Start Golf – Playing individual scores. Prizes for long drive, closest to the pins, low gross and callaway. Refreshments at the halfway house will include packaged snacks and whole fresh fruit, hot dogs, beer & soda. A snack cart will also be on the course. Carts, forecaddies, driving range, locker room and showers are all included in the price.

5:30 p.m. Following Golf - Open Bar with hot and cold horsd'ouvres in the Main Lounge. Fresh mozzarella with sun-dried tomatoes, cajun chicken, spring rolls, baby lamb chops, sesame chicken, turkey canapés, fried oysters, cheeses, fresh fruit, lobster halves, fresh clams & oysters, shrimp and crab claws.

6:30 p.m. Reception Dinner – Awards and raffle in the Main Dining Room. Carving stations of beef tenderloin & turkey breast. Chafing dishes of chicken & salmon featuring the chef's specialty, pasta station with marinara or vodka sauce, and choice of tossed or Caesar salad. Viennese dessert table following the dinner featuring pastries, fruit, cookies, assorted cakes and pies. Full beverage service throughout is included.

Women are also invited to attend and participate. There are locker room facilities available. The Cocktail hour and Dinner will also be available for those who cannot attend during the day for the golf.

Note: We are limited to 128 golfers. Openings will be filled on a first come-first serve basis. Corporate sponsorships will be available and raffle items will be welcome. Proper golf attire is a requirement for the golf course. Soft spikes are required. Please wear a jacket for the dinner.

Directions:

From the North Shore of Long Island: Take the Long Island Expressway to Exit 34 South (New Hyde Park Road Southbound), Grand Central Parkway (Northern State Parkway) to Exit 26 South (New Hyde Park Road Southbound) or Jamaica Avenue (Jericho Turnpike) Eastbound to New Hyde Park Road. Travel Southbound on New Hyde Park Road for approximately 5 to 7 miles to Stewart Avenue (You will cross over a set of railroad tracks). Take Stewart Avenue eastbound for approximately 1-1/2 miles to Cherry Valley Avenue. Travel Southbound on Cherry Valley Avenue for 1/2 mile, Cherry Valley Avenue becomes Rockaway Avenue. Continue on Rockaway Avenue and the entrance to Cherry Valley Club will be on your right.

From Local Points North: Take Old Country Road or Stewart Avenue to Franklin Avenue. Travel Southbound on Franklin Avenue to Fourth Street (just after crossing over railroad tracks). Turn right on Fourth Street and continue until it ends (Rockaway Avenue). Cross over Rockaway Avenue into the Cherry Valley Club's parking lot.

From the South Shore of Long Island: Take the Southern State Parkway to Exit 19 (Peninsula Boulevard-Hempstead/Garden City). Travel Northbound on Peninsula Boulevard for approximately 1/2 mile to President Street. Bear left on President Street (Northbound) for approximately one mile and cross over Hempstead Turnpike. President Street will be-

ASHRAE Golf Outing - Monday, May 23rd, 2016

Cherry Valley Club
Golf Outing Guidelines

To add the enjoyment of your day, we ask that you abide by Cherry Valley Club's basic rules of The Club, dress, golf etiquette & safety, golf carts, and care of the course.

Club Rules

1. **Smoking is not permitted in the Club House.**
2. **Cell Phones are permitted in the parking lot only. Use of Cell Phones beyond the parking lot is strictly prohibited. This includes the Golf Course.**

Dress Code

1. Jeans, designer or otherwise, are not acceptable on club property. This not only includes pants, but skirts, and cut-offs.
2. T-shirts and tank tops are not in keeping with the atmosphere of the club and as such, are not acceptable. The definition of T-shirt includes those with psychedelic coloring or suggestive printing.
3. If the Main Dining room is going to be utilized for any purpose, jackets are required.
4. Short shorts are not permitted on the golf course, practice tee or putting green by either male or female. Bermuda shorts of acceptable length are permitted. Jogging attire and denim pants are not considered proper attire for the golf course.
5. **Soft spikes** are mandatory at all times on our fine golf course. If your shoes need soft spikes, arrive early so we can change them. There is a nominal fee. There is **no** exception to this rule.

Golf Etiquette and Safety

1. Slow play shows lack of consideration for the players in your group and, more important, for the players behind you. Golf is made much more enjoyable if all players adhere to the following points in the conduct of play:

    - Minimize the time spent looking for balls by watching the flight of balls hit by everyone in your group. If a ball appears to be lost or out of bounds, hit a provisional ball before leaving the tee.
    - Signal the players behind you to play through if it becomes apparent that a ball will not easily be found and you are holding up play.
    - Don't rush addressing and striking the ball but move briskly between shots.
    - If your ball is some distance from the golf cart and the exact club selection is in doubt, take several clubs with you when you leave the cart to walk to the ball.
    - When play reaches the area of the green, park the golf cart(s) behind the green or adjacent to the next tee. Walk briskly off the rear or side of the green after putting out. Mark your score cards after your group is off the green.
    - Once a score of double par has been posted, pick up and move on to the next hole.

ASHRAE Fishing Trip - Friday, June 3, 2016

Come Join Us!

ASHRAE Long Island Chapter's Fishing Trip 2016

Date/Time

Friday, June 3rd, 2016
4:00 p.m. – 8:00 p.m.
(Please be at the dock at 3:30 p.m.)

Location

Dixie II @ Captree State Park Boat Basin, NY

Fee

$50 per person
(Maximum of 50 people)
Food, Beverages, Bait &Tackle will all be provided

Please RSVP by May 20th, 2016
andym22@optonline.net

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Directions to the Boat: Take Southern State Parkway to Exit 40 South Robert Moses Causway South. (Ocean Beaches). Continue South on Robert Moses Causeway (over two bridges) follow the signs for Captree State Park Boat Basin. Dixie II is located on the east end of the parking lot near the bait store.

Spring 2016 Online Courses

Register Early & Save

Register before March 18:

$264 ($199 ASHRAE Member)

Two-part Courses: $464 ($339 ASHRAE Member)

Register after March 18:

$284 ($219 ASHRAE Member)

Two-part Courses: $484 ($359 ASHRAE Member)

Take three or more courses and save 15%.

Two Ways to Register

1. Internet

www.ashrae.org/onlinecourses

2. Phone

Call toll-free at
1-800-527-4723 (US and Canada) or
404-636-8400 (worldwide)

NOTE: You may register up to 24 hours prior to an online course. Course times are in Eastern US Time Zone.

Earn Continuing Education Credits | Take 3 or More Courses & SAVE!

Courses are archived for a period of time after their initial presentation.

Commissioning

Commissioning Process & Standard 202
Wed, March 30, 2016, 1:00 pm to 4:00 pm, EDT
Instructor: Walter Grondzik, P.E., Fellow/Life Member ASHRAE, LEED® AP

Energy Efficiency

Combined Heat & Power: Creating Efficiency through Design & Operations (IAQ Practices)
Mon, March 28, 2016, 1:00 pm to 4:00 pm, EDT
Instructor: Lucas Hyman, P.E., Life Member ASHRAE, LEED® AP

IT Equipment Design Evolution & Data Center Operation Optimization
Wed, April 6, 2016, 1:00 pm to 4:00 pm, EDT
Instructors: Don Beaty, P.E., Member ASHRAE and Roger Schmidt, Ph.D., P.E., Member ASHRAE

Spring 2016 Online Courses

HVAC Applications

Air-to-Air Energy Recovery Fundamentals
(ES Practices)
Wed, April 27, 2016, 1:00 pm to 4:00 pm, EDT
Instructor: Paul Pieper, P.Eng., Member ASHRAE

Laboratory Design: The Basics and Beyond
Mon, April 18, 2016, 1:00 pm to 4:00 pm, EDT
Instructor: John Varley, P.E., Member ASHRAE, HBDP, LEED® AP

Operations and Maintenance of High-Performance Buildings
Part 1 - Tues, May 17, 2016, 1:00 pm to 4:00 pm, EDT
Part 2 - Wed, May 18, 2016, 1:00 pm to 4:00 pm, EDT
(Registrants must attend both parts in order to receive credits)
Instructor: Laurie Gilmer, P.E., Member ASHRAE, LEED® AP

NEW! Variable Refrigerant Flow System Design & Applications
Mon, May 16, 2016, 1:00 pm to 4:00 pm, EDT
Instructor: Dermot McMorrow, P.Eng., Member ASHRAE

Standards & Guidelines

Complying with Standard 90.1-2013: HVAC/Mechanical
(ES Practices)
Wed, April 13, 2016, 1:00 pm to 4:00 pm, EDT
Instructor: McHenry Wallace, P.E., Member ASHRAE, LEED® AP

Exceeding Standard 90.1-2013 to Meet LEED® Requirements
(ES Practices)
Part 1 - Mon, April 11, 2016, 1:00 pm to 4:00 pm, EDT
Part 2 - Wed, April 20, 2016, 1:00 pm to 4:00 pm, EDT
(Registrants must attend both parts in order to receive credits)
Instructors: McHenry Wallace, P.E., Member ASHRAE, LEED® AP and Joseph Deringer, AIA, Member ASHRAE, LEED® AP

Fundamental Requirements of Standard 62.1-2013
(IAQ Practices)
Mon, May 2, 2016, 1:00 pm to 4:00 pm, EDT
Instructor: Hoy Bohanon, P.E., Member ASHRAE, BEAP, LEED® AP

NEW! Standard 188.1-2015 – Successfully Managing the Risk of Legionellosis
Mon, April 25, 2016, 1:00 pm to 4:00 pm, EDT
Instructor: Michael Patton, P.E., Member ASHRAE

Note: Course fees listed are per person for a single presentation connection for individual use and may not be shared with other users. All registrants must individually register for the desired course to participate and receive continuing education credit.

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Thank you,
ASHRAE Marketing

PS: Did you know ASHRAE now has over 55,000 members? Thank you for helping to spread the word about ASHRAE! Questions? Email marketing@ashrae.org

Save-the-Date - ASHRAE Webcast - April 21, 2016

SAVE THE DATE! April 21, 2016 | 1–4 pm EDT

This webcast will feature industry experts who will define the importance of, and why we should strive for, net zero in the built environment. Viewers will be able to identify behaviors that create more effective ownership, design and construction teams, and will recognize the value of a collaborative process in building design and the impact on costs. With a strong emphasis on real-world applications, the program will also discuss the primary technical and financial challenges in achieving net zero buildings, and where this design approach can best be applied.

- Take advantage of the **two week On Demand period from April 22 – May 6** and schedule your viewing of the webcast around your time zone and schedule
- The On Demand player has fast forward and rewind capabilities — allowing you to view all or part of the program with your members
- Plan a lunch or dinner meeting with your Chapter to view the webcast
- Utilize the Net Zero Resources online to supplement the webcast program
- Earn 3 FREE PDHs
- Chapters who register to view the webcast will earn **100 PAOE points**

Visit www.ashrae.org/webcast for additional information about the program, sponsorships, continuing education credits, speakers, and registration.

$$$ SAVE MONEY $$$

ASHRAE-LI is now offering Ticket Books for our Monthly Meeting/Dinner presentations. $450 for a book of Eleven (that's right….eleven, one better than ten) tickets for the price of ten member admissions. Tickets are valid until December of 2017 and may be used by members and non-members. For those of you who attend all or most of our meetings and for organizations who normally send large groups to the meetings, this is a great way to save a few dollars and speed up the entry process. For more information and/or to purchase ticket books, please contact Don Kane at cttc@ashraeli.org or call 631-574-4870.

ASHRAE™
Long Island
Chapter

ASHRAE CERTIFICATIONS

Certification

ASHRAE Certified

ASHRAE, accredited by ANSI under ISO/IEC 17024 for the High-Performance Building Design Professional (HBDP) program, has certified more than 2,000 Built Environmental Professionals.

- Energy Assessment
- Energy Modeling
- Commissioning
- Healthcare Facility Design
- High-Performance Building Design
- Building Operations

ASHRAE certification programs:

- Are developed by industry practitioners who understand the knowledge and experience that are expected for superior building design and system operation
- Assure employers and clients of subject mastery
- Serve as a springboard for continued professional development
- Offer an easy-to-apply process

FOR MORE INFORMATION GO TO - https://www.ashrae.org/education--certification/certification

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AN AD OR BUSINESS CARD LISTING IS A GREAT WAY TO GET YOUR COMPANY'S NAME IN FRONT OF THE HUNDREDS OF LI CHAPTER MEMEBERS, AND TO HELP SUPPORT THE CHAPTER'S ACTIVITIES.

If you would like to place an advertisement in the Long Island Sounder, please contact our Chapter Financial Secretary, Don Kane, PE @ 631-574-4870 or by email at finsec@ashraeli.org for further details. Thank you.

Rates (includes all issues September-June):

Business Card	$200	Half Page	$500
Triple Size	$350	Full Page	$800

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