



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

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### President's Message

Welcome to the February issue of the "Long Island Sounder". We thank all those who attended last month's meeting and presentation on Condensing Boiler Combustion Technologies by Kyle Bottorff.

We had a very good turn out and thank Mr. Bottorff for his support.

We are almost half way done with Winter and as we can start to see March peeking around the corner we are keeping our fingers crossed that we can make it through the rest of the season with out to many winter storms. With spring in our sights we still have many ASHRAE Activities planned and your Board of Governors is working hard to continue to serve the Long Island Engineer community

Speaking of Spring it's never too early to start thinking about the annual Chapter Golf Outing at the Cherry Valley Club in Garden City (May 6th) and the Chapter Fishing Trip, to be scheduled in June.

This month's meeting will be held on Tuesday February 12<sup>th</sup> and the Westbury Manor and we are looking forward to a presentation on ASHRAE Building Energy Quotient (bEQ) to be given to us by ASHRAE Distinguished Lecturer M. Dennis Knight, P.E. This is a great topic that has very current application in our area and we are expecting a very strong turnout this month as well.



### CHAPTER MONTHLY MEETING

|                   |   |
|-------------------|---|
| <b>DATE:</b>      | <b>Tuesday, February 12, 2019</b>   |
| <b>TIME:</b>      | 6:00 PM - Cocktails/Dinner<br>7:00 PM - Dinner Presentation<br>8:45 PM - Conclusion |
| <b>LOCA-TION:</b> | Westbury Manor<br>1100 Jericho Tpke.<br>Westbury, NY 11590                          |
| <b>FEES:</b>      |   |
| Members -         | \$45.00   |
| Guest -           | \$60.00   |
| Student -         | \$15.00   |

National Engineers Week is February 11-15. Engineers Week celebrates us—Engineers, Engineering Students, and Technicians— inclusive of all the amazing things we do every day to make the world a better place. Our local EJCLI chapter will be having a one day seminar on February 13 with multiple opportunities to gain PDH credits as well. Further information can be found on [www.ejcli.org](http://www.ejcli.org).

All of the above would not be possible without the dedication of the Chapter Board of Governors and Committee Chairs, who expend the effort to provide our members with a full schedule of technical and social events. While we have filled up all of the presentation slots for this year, if you would like to make a future presentation, now is the time to line up the schedule for next year. Finally, for those members who ventured to Atlanta in January for the ASHRAE Winter Conference (and AHR Expo), please make sure to let the Chapter officers know so the Chapter can get the proper credit for member attendance.

As always, we thank you for your support of ASHRAE Long Island and look forward to see you

**Rich Halley**  
**President - Long Island Chapter**

Check the ASHRAE Website for Society news and to join/renew membership!

<http://www.ashraeli.org>

## Long Island Chapter Officers & Committees

### ASHRAE 2018/2019 OFFICERS

| POSITION            | NAME                | PHONE        | EMAIL  |
|---------------------|---------------------|--------------|--|
| President           | Richard Halley      | 516.490.1616 | <a href="mailto:president@ashraeli.org">president@ashraeli.org</a>             |
| President-Elect     | Frank Paradiso      | 631.632.2791 | <a href="mailto:president_elect@ashraeli.org">president_elect@ashraeli.org</a> |
| Vice President      | James Hanna         | 718.269.3768 | <a href="mailto:vice_president@ashraeli.org">vice_president@ashraeli.org</a>   |
| Financial Secretary | Bill Artis          | 516.732.2519 | <a href="mailto:finsec@ashraeli.org">finsec@ashraeli.org</a>                   |
| Treasurer           | Matthew Vitrano     | 212.643.9055 | <a href="mailto:treasurer@ashraeli.org">treasurer@ashraeli.org</a>             |
| Secretary           | Murat Bayramoglu    | 631.312.8818 | <a href="mailto:secretary@ashraeli.org">secretary@ashraeli.org</a>             |
| Board of Governors  | Michael Nigro       | 212.643.9055 | <a href="mailto:bog1@ashraeli.org">bog1@ashraeli.org</a>                       |
| Board of Governors  | Elizabeth Jedrlnic  | 516.490.1621 | <a href="mailto:bog2@ashraeli.org">bog2@ashraeli.org</a>                       |
| Board of Governors  | Andrew Blom         | 631.626.1695 | <a href="mailto:bog3@ashraeli.org">bog3@ashraeli.org</a>                       |
| Board of Governors  | Michael Razzano     | 516.805.3084 | <a href="mailto:bog4@ashraeli.org">bog4@ashraeli.org</a>                       |
| Board of Governors  | Andrew B. DuBel, PE | 516.484.1020 | <a href="mailto:bog5@ashraeli.org">bog5@ashraeli.org</a>                       |

### ASHRAE 2018/2019 COMMITTEES

| COMMITTEE                 | NAME                            | PHONE        | EMAIL  |
|---------------------------|---------------------------------|--------------|--|
| Programs & Special Events | Frank Paradiso                  | 631.632.2791 | <a href="mailto:programs@ashraeli.org">programs@ashraeli.org</a>       |
| Membership (MP)           | Bill Artis                      | 516.732.2519 | <a href="mailto:membership@ashraeli.org">membership@ashraeli.org</a>   |
| Refrigeration             | Michael Razzano                 | 516.805.3084 |  |
| Chapter Technology Trans- | Donald W. Kane, PE              | 516.524.7258 | <a href="mailto:cttc@ashraeli.org">cttc@ashraeli.org</a>               |
| Grassroots Government     | Andrew Blom                     | 631.626.1695 | <a href="mailto:ggac@ashraeli.org">ggac@ashraeli.org</a>               |
| Newsletter Editor         | Liset Cordero                   | 212.643.9055 | <a href="mailto:editor@ashraeli.org">editor@ashraeli.org</a>           |
| Research Promotion (RP)   | Andy Manos                      | 631.632.2792 | <a href="mailto:rp@ashraeli.org">rp@ashraeli.org</a>                   |
| Historian                 | Elizabeth Jedrlnic              | 516.490.1621 | <a href="mailto:historian@ashraeli.org">historian@ashraeli.org</a>     |
| Student Activities (SA)   | Frank Paradiso                  | 631.632.2791 | <a href="mailto:sa@ashraeli.org">sa@ashraeli.org</a>                   |
| Young Engineers in        | Elizabeth Jedrlnic              | 516.490.1621 | <a href="mailto:yea@ashraeli.org">yea@ashraeli.org</a>                 |
| Webmaster                 | Bill Artis                      | 516.732.2519 | <a href="mailto:web@ashraeli.org">web@ashraeli.org</a>                 |
| Nominating                | Michael Gerazounis, PE, LEED AP | 212.643.9055 | <a href="mailto:nominating@ashraeli.org">nominating@ashraeli.org</a>   |
| Reception & Attendance    | Matthew Catan                   | 407.489.6684 | <a href="mailto:reception@ashraeli.org">reception@ashraeli.org</a>     |
| PR & Engineering Joint    | Andrew Manos, LEED AP           | 631.632.2792 | <a href="mailto:pr@ashraeli.org">pr@ashraeli.org</a>                   |
| Golf Outing               | Peter Gerazounis, PE LEED AP    | 212.643.9055 | <a href="mailto:golf@ashraeli.org">golf@ashraeli.org</a>               |
| Awards                    | Brian Simkins                   | 203.261.8100 | <a href="mailto:bsimkins@accuspecinc.com">bsimkins@accuspecinc.com</a> |

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## Chapter Monthly Meeting - Program for 2018/2019

|  |   |
|--|---|
| <b>September 11, 2018</b> * At Westbury Manor <br>Dinner Presentation – Adiabatic Cooling Solutions<br>Presenters: Robert Gebhard, Michael Silverstein, Alex Schafer<br><b>**1 PDH**</b><br><b>Refrigeration Night</b>  | <b>March 12, 2019</b> * At Westbury Manor<br>Dinner Presentation - TBD<br>Presenter: <b>**1 PDH**</b><br><b>YEA Night</b>   |
| <b>October 9, 2018</b> * At Westbury Manor <br>Dinner Presentation— Refrigerants<br>Presenter: William E. Dietrich<br><b>**1 PDH**</b>  | <b>April 9, 2019</b><br><b>Annual Field Trip</b>  |
| <b>November 13, 2018</b> * At Westbury Manor <br>Dinner Presentation-- System Effect<br>Presenter: Mark Terzigni<br><b>**1 PDH**</b><br><b>Joint meeting with SMACNA</b><br><b>Membership Promotion</b><br><b>Student Activities Night and YEA Night</b><br><b>Resource Promotion Night</b> | <b>May 6, 2019</b> * Cherry Valley Club, Garden City, NY<br><b>ANNUAL GOLF OUTING</b>   |
| <b>December 11, 2018</b> * At Westbury Manor <br>Dinner Presentation-- Eliminating the High Cost of Over Pumping / Commercial Gas Detection System Overview & Application<br>Presenters: Robert J. Rybka / Ronald Sweet<br><b>**1 PDH**</b>   | <b>May 7, 2019</b> * At Westbury Manor<br>Dinner Presentation - TBD<br>Presenter: <b>**1 PDH**</b><br><b>Refrigeration Night</b><br><b>Student Activities Night</b>   |
| <b>January 8, 2019</b> * At Westbury Manor <br>Dinner Presentation— Condensing Boiler Combustion Technologies<br>Presenter: Kyle Bottorff<br><b>**1 PDH**</b>   | <b>June 11, 2019</b> * At Westbury Manor<br><b>Free Buffet Dinner for Members</b><br><b>PAST PRESIDENTS NIGHT &amp; OFFICER INSTALLATION</b><br><b>STUDENT SCHOLARSHIPS TO BE AWARDED</b><br><b>ASHRAE History Quiz and prize Give-A-Ways</b> |
| <b>January 20-24, 2019</b> <br>ASHRAE Winter Meeting<br>Chicago, IL   | <b>June 8, 2019 (4pm-8pm)</b> * Dixie II @ Captree State Park Boat Basin, NY<br><b>ANNUAL FISHING TRIP</b>  |
| <b>February 12, 2019</b> * At Westbury Manor –<br>Dinner Presentation— ASHRAE's BEQ Energy Labeling Program<br>Presenter: M. Dennis Knight, P.E.<br><b>**1 PDH**</b><br><b>Membership Promotion Night</b><br><b>Resource Promotion Night</b>   | <b>June 14, 2019</b><br>Joint YEA Event with LI, NYC & Westchester<br>(Details to follow)   |
| <b>February 18-24, 2019</b><br><b>NATIONAL ENGINEERS WEEK</b><br><b>EJCLI Seminars</b>   | <b>August 15-17, 2019</b><br><b>CHAPTERS' REGIONAL CONFERENCE (CRC) REGION I</b>  |



## January Meeting Pictures





## January Meeting Pictures



## Long Island Chapter - Past Presidents

|      |                             |      |                                    |
|------|-----------------------------|------|------------------------------------|
| 1958 | H. Campbell, Jr. PE         | 1988 | Michael O'Rourke                   |
| 1959 | Clyde Alston, PE            | 1989 | Mel Deimel                         |
| 1960 | Sidney Walzer, PE           | 1990 | Robert Rabell                      |
| 1961 | Sidney Gayle                | 1991 | Gerald Berman                      |
| 1962 | William Kane                | 1992 | Donald Stahl                       |
| 1963 | Louis Bloom                 | 1993 | Ronald Kilcarr                     |
| 1964 | Milton Maxwell              | 1994 | Jerald Griliches                   |
| 1965 | Will Reichenback            | 1995 | Walter Stark                       |
| 1966 | Joseph Minton, PE           | 1996 | Joe Marino                         |
| 1967 | Irwin Miller                | 1997 | Norm Maxwell, PE                   |
| 1968 | Walter Gilroy               | 1998 | Alan Goerke, PE                    |
| 1969 | Charles Henry               | 1999 | Frank Morgigno                     |
| 1970 | William Wright              | 2000 | Michael Gerazounis, PE, LEED AP    |
| 1971 | Louis Lenz                  | 2001 | Ray Schmitt                        |
| 1972 | Ronald Levine               | 2002 | Steven M. Stein, PE                |
| 1973 | Henry Schulman              | 2003 | Andrew Braum, PE                   |
| 1974 | Myron Goldberg              | 2004 | Claudio Darras, P.E.               |
| 1975 | John N. Haarhaus            | 2005 | Craig D. Marshall, P.E.            |
| 1976 | Richard K. Ennis            | 2006 | John Nally                         |
| 1977 | Kenneth A. Graff            | 2007 | Peter Gerazounis, PE, LEED AP      |
| 1978 | Evans Lizardos, PE, LEED AP | 2008 | Steven Friedman, PE, HFDP, LEED AP |
| 1979 | Albert Edelstein            | 2009 | Steven Giammona, P.E., LEED AP     |
| 1980 | Ralph Butler                | 2010 | Nancy Román                        |
| 1981 | Robert Rose, PE             | 2011 | Carolyn Arote                      |
| 1982 | Timothy Murphy, PE          | 2012 | Brian Simkins, LEED AP             |
| 1983 | Leon Taub, PE               | 2013 | Andrew Manos, LEED AP BD+C         |
| 1984 | Raymond Combs               | 2014 | Richard L. Rosner, P.E.            |
| 1985 | Edward W. Hoffmann          | 2015 | Thomas J. Fields, P.E., LEED AP    |
| 1986 | Jerome T. Norris, PE        | 2016 | Donald Kane, P.E.                  |
| 1987 | Abe Rubenstein, PE          | 2017 | Andrew Dubel, P.E., LEED AP        |

## PAOE POINTS FOR 2018/2019

| Chapter Members | Chapter Operations | CTTC | Electronic Communications | GGAC | Historical | Membership | Research Promotion | Student Activities | Chapter PAOE Totals |
|-----------------|--------------------|------|---------------------------|------|------------|------------|--------------------|--------------------|---------------------|
| 282             | 895                | 575  | 50                        | 800  | 350        | 600        | 890                | 100                | 4,260               |

## February Meeting Program



### Dinner Presentation

***“ASHRAE’s bEQ Energy Labeling Program”***

*Presented by*

**M. Dennis Knight, P.E.**

**Principal**

**Whole Building Systems**

**ASHRAE DISTINGUISHED LECTURER**

**Attendees  
Will Earn  
1 PDH!**

|                           |   |             |   |
|---------------------------|---|-------------|---|
| <b>DATE:</b>              | <b>TUESDAY FEBRUARY 12, 2019</b>  |             |   |
| <b>Time:</b>              | 6:00 PM - Cocktails and Hors D'oeuvres<br>7:00 PM - Dinner Presentations<br>8:45 PM - Conclusion  | <b>Fee:</b> | \$ 45.00 Member<br>\$ 60.00 Guest<br>\$ 15.00 Student |
| <b>Location:</b>          | <b>WESTBURY MANOR</b> (516) 333-7117<br>1100 Jericho Tpke., Westbury, NY 11590<br><b>Directions are posted at @ <a href="http://www.ashraeli.org">www.ashraeli.org</a></b>  |             |   |
| <b>Presentation:</b>      | ASHRAE has a new Building Energy Quotient (bEQ) Energy Labeling Program that officially launched its operational program in 2011, and launched its “as designed” rating in 2013. This presentation includes an overview of the ASHRAE bEQ program with an up to date discussion of its primary goals, objectives, and procedures.<br><br><b>All attendees will receive 1 PDH.</b>   |             |   |
| <b>About our Speaker:</b> | <p><b>M. Dennis Knight</b> joined ASHRAE in 1979 and has 44 years of experience providing engineering, design and construction related services within the building industry. Mr. Knight serves as a Director at Large on the ASHRAE Board of Directors and holds the membership grade of ASHRAE Fellow. Active at the local, state and national levels with various agencies and professional societies, he works to help develop sustainable, integrated building design guidelines. Nationally, as a member of ASHRAE, Mr. Knight is the Chairman of Standards Committee SPC 224 - "The Application of Building Information Modeling", is the former Chair of Technical Committee (TC) 7.1 "Integrated Building Design," and served as chair of the ASHRAE Building Performance Analysis Specialty Conference for six years.</p> <p>Mr. Knight founded Whole Buildings Systems, LLC, in 2010 after having owned both an MEP engineering firm and a construction company, and most recently serving as a Principal at Liollo Architecture. Whole Building Systems' practice focuses on commissioning, building performance simulation, energy management, BIM applications, operations and maintenance management and planning.</p> <p>Mr. Knight holds an assortment of professional registrations and accreditations. He is a Registered Professional Engineer in South Carolina, North Carolina, and Wisconsin and holds dual registration in South Carolina as both a Mechanical Engineer and a Fire Protection Engineer. He is a LEED Accredited Professional, a Construction Specification Institute (CSI) certified Constructional Specification Specialist, a American Commissioning Group (ACG) certified Commissioning Authority and Building Performance Institute (BPI) certified as both a Building Energy Analyst and a Building Envelope Professional.</p> |             |   |



## Young Engineers in ASHRAE (YEA)

We had our YEA Go Kart event February 5, 2019 at RPM raceway. 7 LI ASHRAE members took to the tracks. Congrats to all our winners!

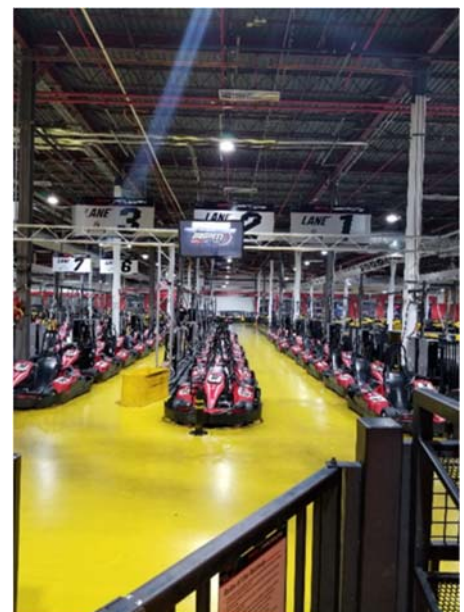
**Elizabeth Jedrlinic**

**YEA Chair**

[Elizabeth.jedrlinic@trane.com](mailto:Elizabeth.jedrlinic@trane.com)



| RPM RACEWAY                       |                                |        |
|-----------------------------------|--------------------------------|--------|
| WINNERS FOR QUALIFIER (#65)       |                                |        |
| TRACK: Track 1 POWERED BY CUMMINS |                                |        |
| 1                                 | Dan Maccollum (Kart #16)       | 21.803 |
| 2                                 | Keith Callahan (Kart #2)       | 21.966 |
| 3                                 | Steve Kropp (Kart #28)         | 22.510 |
| 4                                 | Chris Zarccone (Kart #20)      | 22.527 |
| 5                                 | James Hanna (Kart #5)          | 24.274 |
| 6                                 | Elizabeth Jedrlinic (Kart #44) | 24.887 |
| 7                                 | Don Kane (Kart #26)            | 36.446 |
| TRACK 1 RACE RESULTS              |                                |        |





## Research Promotion

I would like to thank the companies who have participated in the annual 2019 Product Directory of Manufacturers and their Representatives. The Product Directory has been prepared as a service to all its members and as a service to the local HVAC industry. It will be made available to all ASHRAE and non-ASHRAE members at no-cost and can be obtained from our monthly meetings or directly from our web-site. There's still time if you would like your company listed in the directory please contact me.



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

This year's overall resource promotion goal is \$2,500,000 with over 75 research projects on board. Our chapter is expected to raise approximately \$19,950 towards the overall goal of which we have already raised \$8240. I am hoping I can count on the continued support of all of our past contributors who have generously supported us over the years.

I also look forward to gaining the support of new contributors this coming year. Please help support ASHRAE in any way you can. I would like say 'thank you' to all the contributors listed below whom have already donated to ASHRAE this year:

### INDIVIDUALS

Ronald J Kilcarr, PE, CEM  
Peter Gerazounis, PE  
Michael Gerazounis, PE  
John D Nally  
Andrew E Manos  
William Artis, Jr  
Michael Nigro  
Matthew Vitrano  
Donald Kane, PE  
Elizabeth Jedrlinic  
Frank Paradiso  
Richard Halley  
Murat Bayremoglu

Robert Fuchs  
Andrew Dubel  
Charles Lesniak PE  
Brian Simkins  
Andrew Blom  
Thomas Fields  
Kenneth Mueller  
Richard Halley  
Paul Freeman  
James Tauby  
Jerome Norris

### COMPANIES

Catan Equipment Sales  
Accuspec, Inc  
Gil-Bar Industries, Inc.  
Trane  
ASAP Sales  
RPG Associated  
Chimney Design Solutions

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

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

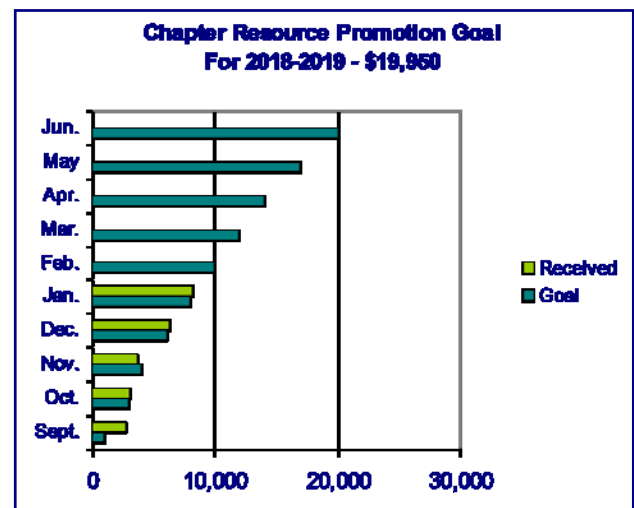
Andrew Manos, LEED AP BD+C  
ASHRAE Research Promotion Chair  
c/o Stony Brook University  
Campus Planning, Design and Construction  
Research and Support Services, Building 17, Suite 160  
Development Drive, Stony Brook, NY 11794-6010

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

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

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

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



Thank you again for all of your support!

**Andrew Manos, LEED AP BD+C**  
**Research Promotion Chair**

## Membership Promotion

Welcome to the Membership Promotion section of the newsletter. Our MP Committee is responsible for recruiting and retaining members of ASHRAE Long Island, and to ensure our members are receiving value for their membership. Throughout the year, we will be hosting numerous meetings and events for our members to encourage professional development and networking. We will be using our MP Blog to update the chapter on all of our events, as well as posting information regarding chapter updates, and recognizing member achievements.

<http://www.ashraeli.com/blog>

**Bill Artis**  
**Membership Chair**



## Student Activities

Student Activities added another student member this month, bringing out total up to 8 for the year.

**Student Membership** - Student Members are sponsored by full-grade Members or Associate Members. The student must be studying or have an interest in an HVAC&R industry-related field. A student eligible for ASHRAE student membership is a person matriculated in an approved course of study in a university, college, junior college, or technical institute, who is being educated in the arts and sciences covered by the Society's objectives.

**The Student Zone** - The Student Zone web page offers valuable career and educational resources for ASHRAE Student Members.

We also encourage you to check out the ASHRAE student's zone at <http://www.ashrae.org/students/>. Information on society level design completions, scholarship and grant programs can all be found here.

As a reminder, as always we are looking for ASHRAE handbooks in good condition that are no longer in use and could be given to our student members. If you have are in position of a hand book or two please bring them into the chapter meeting and we will find them a new home.

**Frank Paradiso**  
**Research Promotion Chair**

**James Hanna**  
**Research Promotion Chair**



## CTTC

## MY BUILDING IS BETTER THAN YOUR BUILDING...OR IS IT? (Comparing Apples to Apples.....or at least to similar sized Oranges)

Buildings are funny things. Architects like them to be the most stunning avant-garde example of design, engineers would like to employ all of the available high-tech solutions to make them as trouble free to operate and maintain, the occupants want a comfortable environment (whether for living or working, depending upon the use of the building) and.....the owner wants it to be built for as little cost as possible while allowing for receiving a premium in rent. To add to the mix, environmentalists (which includes some of those in the above groups) and our elected officials mandate that buildings be eco-friendly and, as much as possible, be self sustaining. Without a doubt our buildings make a significant imprint on the landscape, both visually and energy-wise, and those who design and build those components of our built environment need to consider the finite pool of energy available and design and build structures accordingly. But how does one know if the lofty goals of energy efficiency and environmental soundness are being met? Certainly, one of the most visible programs is the LEED rating system, however, as made clear when the results of the New York City building energy audits were reviewed, just because a building rated LEED "Gold" does not necessarily mean it is more energy efficient. This is not to fault the LEED process, as it encompasses much more than just concern for energy consumption (such as the types of materials used, proximity to mass transit and use of locally sourced materials – even if only used for aesthetic purposes – to name a few). Additionally, the effects of the ultimate occupancy and building management/operation are not included in this metric. Buildings which will be used to house massive 24/7 data center operations will require more energy than an office building that is used only Monday through Friday from nine to five! The evaluation of a building's energy use needs to be referenced to the consumption of similarly sized structures with the same type of occupancy and use. It has been reported that in New York City, 2% of the existing buildings are responsible for 45% of the energy consumed. One might be tempted, after a crash course in Pareto 101, that certainly these 2% should be the focus of more stringent requirements...notwithstanding that quite possibly these very buildings may already be using energy most efficiently. It is important to compare buildings that are similar in size, occupancy and use to have a meaningful metric. This metric, to be really useful, must be one which can be tied in with economic analysis to determine the return-on-investment, which will determine the priority assigned to possible enhancements and/or replacements.



Again, referring to New York City, when data was reviewed, it was noted that a significant improvement (energy wise) was manifested between 2011 and 2012, due, in large part, to the many physical plants which were destroyed by Super Storm Sandy and required replacement (probably, for the most part, with the assistance of insurance checks). Had the equipment not been severely damaged, it is likely that many of these locations would have remained at their previous level of energy consumption. There has to be an economic reason to supply a positive reason for improvement (or, conversely, the need to avoid penalties associated with non-compliance with restrictive local laws or tariffs..witness the decrease in energy consumption when direct metering replaces master metering).

To be useful, the metric to be used should allow comparison to similar buildings, both as designed and as built. It should allow for ongoing monitoring to help pinpoint any increases in consumption as well as to document the savings as the result of any improvements and/or changes implemented. Additionally, a standardized, consistent methodology and modeling scheme is necessary to optimize the accuracy of the results. Finally, there needs to be an available body of qualified personnel who can implement the methodology and tools of such a system.

The ASHRAE Building Energy Quotient (bEQ) program has been structured to address these concerns, to allow for an accurate assessment of a building's energy usage, compared to similar buildings. It provides for two types of evaluations; As Designed and In Operation. The As Designed evaluation considers the building characteristics only. It does not consider occupancy and operation effects. The In Operation evaluation, based on a minimum of 12 months of energy usage records, WILL take into account the occupancy and operation. In both cases, comparison is to similar structures both size and use (as well as a comparison between As Designed and In Operation). The In Operation evaluation will



## CTTC

verify that proper environmental conditions are maintained (IEQ) with any changes in system operation and/or installation. Taken together, these two evaluation modes can be an effective tool to pinpoint areas to address once a building is in use which may be the result of the occupancy or operation. Are people bringing in space heaters to keep their toes warm? Are coffee makers left on 24/7? Are building systems (heating and cooling) being ramped up too early in the morning and shut down too late at night? Is there a need for localized comfort cooling/heating if only a small percentage of the offices in a building may be occupied at “off hours”?

Through ASHRAE's BEAP and BEMP certification program, a cadre of qualified resources is available to begin the bEQ process. While the bEQ program will facilitate the preparation for an ASHRAE – Level 1 Energy Audit, it will be, hopefully, the first step in a continuing process (involving additional Level 2 and Level 3 evaluations) which will permit assessment of proposed improvements with a view towards getting the most cost-effective choice, which will result in effective use of energy while maintaining a comfortable work or living environment.

**Donald W. Kane, P.E.**  
**CTTC Chairman**

## Grassroots Government Activities Committee (GGAC)

The following is from the ASHRAE's government affair update:

### New York Governor Announces Green New Deal

New York Governor Andrew Cuomo (D) delivered his State of the State Address to the state legislature on January 15. In that address, the Governor sets forth an ambitious agenda for the state in a number of areas including the establishment of a Green New Deal. This plan would:

- Mandate 100% clean, carbon-free electricity by 2040
- Create a Climate Action Council tasked with helping develop a 100% carbon neutral economy-wide effort
- \$1.5 billion in competitive large-scale renewable energy awards across upstate New York
- Enhancing the state's offshore wind energy initiatives as well as the establishment of a New York State Advisory Council on Offshore Wind Economic and Workforce Development, as well as investing in an offshore wind training center in New York
- Move New York's statewide building stock to carbon neutrality as part of the state's 2025 energy initiative
- Ensure that the move to a clean energy economy protects the poorest New Yorkers and provides new economic opportunities
- Divest the state's \$40 billion in fossil fuel investments
- Enlist the NY Green Bank, established in 2017, to develop a public-private partnership to effectuate NY Green Bank's third-party capital raise and national expansion
- Direct a new Carbon-to-Value Innovation Agenda alongside \$15 million of NYSERDA funding to invest in new technologies that can help avoid the worst consequences of climate change, such as capturing carbon dioxide from the atmosphere and transform it into products, known as carbon-to-value as well as establishing a new incubator and accelerator dedicated to these technologies, called the CarbonWorks Foundry, and is creating a framework for a low-carbon procurement standard to spur a market for low-emissions products



**Andrew Blom**  
**Grassroots Government Activities Chair**

## History

As we move forward in our careers and experiences with ASHRAE, it is always interesting to take a step back a look at where we started.

ASHRAE was formed in 1959 when the American Society of Heating and Air-Conditioning Engineers (ASHAE) and the American Society of Refrigerating Engineers (ASRE) merged. It was originally name the American Society of Heating, Refrigerating and Air Conditioning Engineers.

If you are interested, please take a look at the article in the link below discussing the merge.

<https://www.ashrae.org/File%20Library/About/Mission%20and%20Vision/ASHRAE%20and%20Industry%20History/MergerofASHVE-ASHAE-ASREtoBecomeASHRAE.pdf>

As we know in January 2012 ASHRAE announce its intention to re-brand itself once again. Due to the increasing responsibilities beyond just the HVAC&R ASHRAE decided to drop the name and officially use only its acronym moving forward.

### Next Meeting:

During the next meeting I will doing a presentation on the History of YEA. I hope we can all learn about why this committee started and what ASHRAE has done to make it flourish over the years.

***Elizabeth Jedrlinic***

***History Chairman***

[Elizabeth.jedrlinic@trane.com](mailto:Elizabeth.jedrlinic@trane.com)



## Refrigeration

### **“AIRAH and Institute of Refrigeration sign Memorandum of Understanding”**

*Thursday, January 17, 2019*

Two of the world's leading HVAC&R member organizations have put pen to paper on a Memorandum of Understanding (MoU). The Australian Institute of Refrigeration, Air Conditioning and Heating (AIRAH) and the UK-based Institute of Refrigeration (IOR) formalized the agreement on January 14 at the ASHRAE Winter Conference in Atlanta, Georgia.

The MoU is aimed at “furthering a more effective and beneficial exchange of knowledge and ideas in the HVAC&R industry”. In practical terms it will provide the members of AIRAH and IOR access to each other's considerable banks of technical resources, foster global collaboration on research projects, and provide shared training opportunities.

The two organizations have also agreed to give full support to International Refrigeration Day, slated for June 26. The day will see refrigeration-themed celebrations taking place across the globe including in the UK and Australia to raise the profile of the industry.

AIRAH president Ian Harwood, F.AIRAH, says the MoU is a perfect move for both organizations and specifically supports AIRAH's strategic aims.

“We are always looking to highlight the importance of the R in AIRAH,” says Harwood. “Our agreement with the Institute of Refrigeration will help us achieve that. It will also allow HVAC&R professionals on opposite sides of the globe to access each other's knowledge and best practices, rather than trying to reinvent the wheel.” IOR president Kevin Glass, FInstR, applauds the agreement.

“Our organizations have a long and proud history in their respective countries, with the IOR founded in 1899 and AIRAH in 1920,” says Glass. “A century later, the challenges we face are more intrinsically linked than ever, especially with the HFC phase-down driving major change all over the world, and the growing focus on sustainability – a focus that we share.” The presidents thanked AIRAH CEO Tony Gleeson, M.AIRAH, and IOR immediate past president Steve Gill, FInstR, for laying the groundwork for the historic agreement.

The key areas of the MoU include:

#### **Membership and networking**

- Members of one society will be able to attend conferences and events of the other on the same terms as applicable to the members of the host society. This will extend to education programs, including eLearning and webinars.

#### **Development of standards**

- Both organizations will promote standard development activities in Australia and the UK, and share available knowledge on the subject, including possible advocacy positions and themes.

#### **Publications**

- AIRAH and the IOR will collaborate on publications and develop procedures to make them more easily available to members of the partner organization
- The two organizations will support the development of joint articles on the issues and similarities of the Australian and UK HVAC&R industries. This will take place annually, and be printed in the organizations' publications.

#### **Policy statements and position statements**

- Each organization may be given opportunities by the other to comment on proposed policy and position statements developed on technical subjects. If further collaboration is mutually beneficial, these opportunities will be explored.

#### **Cooperation on exhibitions and conferences**

- AIRAH and the IOR will help disseminate information and promote each other's major events.”



**Michael Razzano**  
**Refrigeration Chair**



## BOG Meeting Minutes

**BOG Meeting, Long Island Chapter**

December 11, 2018 / 5:00 PM / Location: Westbury Manor, Westbury, NY

| Board of Governors      |                     |   |
|-------------------------|---------------------|---|
| President               | Richard Halley      | X |
| President Elect         | Frank Paradiso      | X |
| Vice President          | James Hanna         | X |
| Financial Secretary     | William Artis       | X |
| Treasurer               | Mathew Vitrano      | X |
| Secretary               | Murat Bayramoglu    | X |
| BOG-1                   | Michael Nigro       | X |
| BOG-2                   | Elizabeth Jedrlinic | X |
| BOG-3                   | Andrew Blom         | X |
| BOG-4                   | Mathew Catan        |   |
| BOG Immediate President | Andrew B. Dubel     | X |
| Committee Member        | Don Kane            | X |
| Committee Member        | Brian Simkins       |   |
| Committee Member        | Andy Manos          | X |

**Roll Call: The above noted individuals were present.**

**Call to Order**

**5:05 PM :**

**10 people (Richard Halley, Frank Paradiso, James Hanna, W. Bill Artis, Andrew Dubel, Murat Bayramoglu, Elizabeth Jedrlinic, Michael Nigro, Andrew Blom, Mathew Vitrano)**

**Secretary (Murat Bayramoglu)**

Meetings minutes - Comments/Additions– Oct meeting was approved by all present BOGs.

1. MOTION BY Richard Halley: Past meeting minutes approval
2. Seconded by W. Bill Artis
3. Chair (Richard Halley) stated the motion,
4. The chair put the motion to a vote,
5. All present board members favored the motion,
6. MOTION WAS APPROVED.

**President (Richard Haley) Chapter Operations [min-600/Par-1200] Total Points: 835**

- PAOE- Keep updated
- New Letter: Newsletter and meeting notice separate.  
1<sup>st</sup> of the Month: E blast with presenter Meeting reminder, presenter information, and bio  
1<sup>st</sup> Tuesday of Month: The Tuesday before the meeting is when the second blast goes out (or at Bill's discretion).  
Day Prior to ASHRAE Meeting: Newsletter goes out the day prior to the meeting.  
Committee Articles: The articles are due the first Tuesday of the month.  
Templates: two templates – one has a newsletter, one doesn't have a newsletter.  
Make sure you copy Bill on all the newsletter emails.
- Motion to approve the Minutes: Frank approved Liz second. Motioned Passed

**Programs (Frank Paradiso)**

- Feb meeting: (Engineer's Week: BEQ Presentation) DL: M. Dennis Knight
- March meeting: (To be finalized)??
- April meeting: DL: James R. Tauby (Seismic Restraint of Mechanical Systems)
- May meeting: Field trip (Covanta field trip) 2. Tuesday (North Shore Towers)??
- June meeting: ?/
- Fishing trip June 8<sup>th</sup> 2019.
- Other Notes:  
Andy Emailed the DL's for engineers' week and they responded that they are going to be in February. We need to have the original request in for the allocated DL soon. Patricia Graff is confirmed as a DL. There is a form Frank needs to fill out

## BOG Meeting Minutes

### Chapter Technology Transfer (Don Kane Chair, Michael Nigro) [min-550/par-1050] Total Points: 575

- Facebook updates
- DL requests 1<sup>st</sup> DL was confirmed.
- Need to get all the speaker and topics lined up (CEU)

### Financial Secretary (Bill Artis)

- Sponsor report: Trane \$5000. Working on Daiken \$5000. \$5000 short of goal.
- Mitsubishi Chapter Sponsorship (\$1000)
- Budget
- Chapter financial status
- Monthly meeting sponsor are \$500 for vendors, \$350 for engineering
- Bill and Andy will set up a Dropbox account

### Treasurer (Mathew Vitrano)

- Treasurer's report has been received and filed.

### Government Affairs (Andrew Blom) [min-500/par-650] Total Points (800)

- Activities: We are doing Day in the Hill Again. In September Cuomo introduced HFC initiatives. It should be pretty good this year. Organization will be planned in June.
- USGBC
- Public relations Andy Manos

### Historical (Elizabeth Jedrlnic) [min-100/par-300] Total Points (350)

- Articles/interviews of past president's Potential life-members/fellows. An old article will be picked up.
- Thanks to Andy for his answers.
- History of YEA in the spring presentation.

### Honors and Awards Chair (Brian Simkins)

- Service awards/Technical Awards
- Candidate Projects
- If there are any projects let Brian know

### Research Promotion (Andy Manos) [min-800/par-1050] Total Points (510)

- Vendor Book
- 50/50
- Goal 30 will be reached by the end of December 2018.
- Full circle is due the end of the month. Scholarships have already been taken care of.

### Refrigeration (Michael Razzano)

- Updates: Mike is planning one Refrigeration Tour.
- Andrew: motion to make official ASHREA event – Frank seconds, Liz Seconds, everyone approves.

### Membership Promotion (Bill Artis) [min-500/par-800] Total Points (200)

- Membership Upgrades: Have not looked at
- Delinquency reporting: Currently have 4
- New members: Started at 289 – right now we are at 291
- Planned events – membership promotion next month SMACNA
- Events budgets – CRC - haven't spent any money yet
- No new member pins

## BOG Meeting Minutes

### Student Activities (Frank Paradiso Chair, James Hanna) [min-300/par-500] Total Points (100)

- Scholarships
- Student membership update.
- Stony Brook: Trying to get a meeting with two Professors. Possibly inviting to SMACNA Meeting
- Suffolk Community College presentation next year.
- Hofstra
- NYIT: Speaking with Bill about getting a few people into ASHRAE
- Other: There is a master's Energy management course available to take
- Rich and Mike will visit SCCC.

### YEA (Elizabeth Jedrlinic)

- 2018 Plan Similar events will be organized
- Budget?
- Racecar Event: February 5th \$60 per person, participants will pay \$40, \$20 is from YEA budget.
- Goal: Brief presentation with a student activity committee and speak about HVAC careers
- Other: Frank is scheduled for the 2.0 Event. Which is in Liz budget for reimbursement and approved.
- YEA will participate at student activity in Feb.
- Planning a YEA history event in March
- Planning an educational event in May

### Reception & Attendance (Matt Catan)

- Crushing it: A cool signing sheet was designed. Works well.

### Electronic Communications [min-250/par-600](50)

- Temp address Society is taking over website
- New site active! [www.ashraeli.com](http://www.ashraeli.com)
- Recovery of old address (Ongoing)
- Approved the preliminary budgets at CRC which included the upgrade of the website to a new site.
- Motion: Bill: Motion to release Web page funds; after vote motion approved.

### Golf (Peter Gerazounis/Tom Fields)

- May 6th: Cherry Valley Golf Event  
MOTION BY Andrew: Keep the Golfing charge same as previous year \$375.  
Seconded by Elizabeth Jedrlinic  
Chair (Richard Halley) stated the motion,  
The chair put the motion to a vote,  
All present board members favored the motion,  
MOTION WAS APPROVED.
- No Additional Report.

### New Business...

- **By Richard Halley:** June event in Westbury Manor was cancelled. The boat is still burning. Northport CC is closed. Centerport CC \$45 per person open buffet charge min 45 people. Open bar is additional \$12.  $\$57 \times 20\% \text{ tip} \times 45 = \$3078$   
 $\$3078 - \$500 (\text{Sponsor}) = \text{Net Spending } \$2578$   
The event was approved for \$4000 budget. Centerport CC meets the requirement. However, Andy is looking into Prime, final decision to be made.
- **By Andy Manos:** EJCLI Seminar presentation Feb 13<sup>th</sup> :

Motion to adjourn by Richard Halley at 5:48 PM  
Seconded by Michael Nigro

### Next BOG Meeting

**Location: Westbury Manor**

**Date: 2/12/2019**

**Time: 5:00PM**



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March 11 – 13, 2019

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## Level II – Applications

March 14 – 15, 2019

\$854 (ASHRAE Member: \$699)

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ASHRAE's HVAC Design: Level I – Essentials provides intensive, practical training for HVAC designers and others involved in the delivery of HVAC services. In three days, gain practical skills and knowledge in designing and maintaining HVAC systems that can be put to immediate use.

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- HVAC System and Components
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- Basic Design of Air Systems
- Control/BAS

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**Cost:** \$854 (ASHRAE Member: \$699)

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- Standard 62.1
- Building Systems: Education Facility
- System Applications: Chiller/Boiler, Air Handlers, VAV Terminals
- Life Cycle Cost
- Building Systems: Multi-story Office Building
- Water-to-Water GSHP Option 1 Chilled Beam with DOAS
- Water-to-Water GSHP Option 2 UFAD

**BONUS!** Get a FREE copy of *ASHRAE GreenGuide: Design, Construction, and Operation of Sustainable Buildings, 5th. ed.* A \$100 Value!

REGISTER NOW

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### Your Instructors



Donald Brandt,  
CEM, Member  
ASHRAE, BEAP

[View Bio](#)



Julia Keen, Ph.D.,  
P.E., Fellow  
ASHRAE, HBDP,  
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**The November issue of the Journal is tested for binding strength to see how many times a page can be turned before the binding would fail.**

**Harvard & SUNY Upstate Medical University find that workers are healthier and happier in certified green buildings.**

**ASHRAE Standard 90.1 has been redefining energy savings since 1975. A new version is available now.**

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- Serve as a springboard for continued professional development
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FOR MORE INFORMATION GO TO - <https://www.ashrae.org/education--certification/certification>

# ASHRAE Golf Outing - Monday, May 6, 2019



## 20<sup>th</sup> Annual LI ASHRAE GOLF OUTING

**Monday – May 6, 2019**

**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 8, 2019 (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: \_\_\_\_\_



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Email: peter.gerazounis@mgdpc.net

Golf & Meals: \$ 375 pp x \_\_\_\_\_ = \$ \_\_\_\_\_

Reception & Dinner: \$ 150 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 = \$ \_\_\_\_\_

## ASHRAE Golf Outing - Monday, May 6, 2019

### 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 sundried 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 become Cathedral Avenue. Continue on Cathedral Avenue for one mile to Fourth Street. Make a left on Fourth Street (Westbound) and continue until it ends (Rockaway Avenue). Cross over Rockaway Avenue into the Cherry Valley Club's parking lot.

**From Local Points South:** Take Hempstead Turnpike to Franklin Avenue. Travel Northbound on Franklin Avenue to Fourth Street. Turn left on Fourth Street and continue until it ends (Rockaway Avenue). Cross over Rockaway Avenue into the Cherry Valley Club's parking lot.

## ASHRAE Golf Outing - Monday, May 6, 2019

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.
2. No player should play until the players in front are out of range.
3. If your ball appears headed for a player or group of players immediately shout "fore" in a loud clear voice.
4. No one should move, talk or stand close to or directly behind the ball or the hole when a player is addressing the ball or making a stroke.



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