

THE EXCHANGER

Volume XXXII, Issue 1

January 2023



NEXT CHAPTER MEETING:

Tour of Ossining Children's Center
32 State Street, Ossining NY 10562
February 1st, 2023 @ 6pm

Followed by Sing Sing Kill Brewery
75 Spring Street, Ossining NY



PRESIDENTS MESSAGE

Happy New Year to our Bi-State ASHRAE family! I hope that you all had time to relax and reconnect with family and friends over the Holidays!

This is our first newsletter of 2023 and I am so excited about what the year will bring. As we continue to adapt to our new world, we are going to bring to you as many in-person events that we can offer. I feel that our group is at our best when we have the opportunity to get together to network and learn about the great projects that continue to happen.

This month we are very excited to be offering a tour of the Ossining Children's Center on February 1st. The tour will be led by Travis Schnell of KG&D, principal and project architect, and BGA engineers.

As our thoughts slowly start to turn to warmer days and green grass we have our ASHRAE sights set on May 23, 2023 for our annual golf outing. This is always our major event of the year where we look to your continued support to help our student scholarships. We listed our 2022 student scholarships from last year as well in this newsletter. Just to get you excited, only 125 days until we tee off!

There is a dedicated a page to our largest ASHRAE student chapter at Manhattan College and brief look ahead from that vibrant group to hear from its student president, Mr. Michael Dunleavy class of 2023.

On behalf of the Board of Directors I want to thank all of you for your continued support. All the best in 2023!

Kieran J. Moran

UPCOMING EVENTS

FEBRUARY 1ST: TOUR OF OSSINING CHILDRENS CENTER

FEBRUARY 4-8TH: 2023 ASHRAE WINTER CONFERENCE

MAY 23RD: GOLF OUTING

MARCH 26TH: TRI-STATE ENGINEERING EXPO

JUNE 24-28TH: 2023 ASHRAE ANNUAL CONFERENCE

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EDITORS NOTE

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ABOUT ASHRAE

ASHRAE, founded in 1894, is a building technology society with more than 50,000 members worldwide. The Society and its members focus on building systems, energy efficiency, indoor air quality and sustainability within the industry. Through research, standards writing, publishing and continuing education, ASHRAE shapes tomorrow's built environment today. ASHRAE will be the global leader, the foremost source of technical and educational information, and the primary provider of opportunity for professional growth in the arts and sciences of heating, ventilating, air conditioning and refrigerating.

2022 STUDENT SCHOLARSHIP AWARDEES

Nolan Kelly – Manhattan College Class of 23', Mechanical Engineering

Melissa Feliciano – Manhattan College Class of 23', Mechanical Engineering

Antonio Resciniti – Manhattan College Class of 23', Mechanical Engineering

Ryan Truhn – Manhattan College Class of 22', Mechanical Engineering

Dylan Donnery – Quinnipiac University Class of 24', Mechanical Engineering

Steven Katz

IN CASE

you missed it

On December 7th, we had Trane's Steve Kujak, Director of Next Generation Refrigeration Research, come and present on *The Future of Refrigerants*.

Key Takeaways:

- Major transition happening in the USA with a reduction in refrigerant supply by 10% in 2022 and ~40% by 2024.
- Steve emphasized there is no perfect refrigerant, there needs to be a balanced approach that considers safety, environmental impact, and efficiency. More specifically direct refrigerant GWP, efficiency (indirect GWP), safety, transition costs, intellectual property, and product sustainability. There will need to be widespread use of flammable refrigerants required to achieve phasedown goals
- Low or ultra-low alternatives are available today/will be shortly for many products
- Leak tightness is key!
- Use of Natural Refrigerant expanding
 - Ammonia (R717) continues in US. Carbon dioxide (R744) trials accelerating/maturing in specific applications. Hydrocarbons common in small portable appliances
- Expect more product fragmentation by refrigerant. A single refrigerant may not be used from small to large capacity products



From left, Artorius M. Reyes – ASHRAE NY Chapter President, Kieran Moran – ASHRAE Bi-State Chapter President, Steven Kujak – Trane Technologies, Jim Dolan – Past ASHRAE Bi-State Chapter President & Principal at OLA

Meet the Manhattan College Student Chapter

“Our main objective is to introduce and create an environment where students can learn what ASHRAE is and how ASHRAE can help them, not only for academic purposes but as a future career. At the start of the academic year for the ASHRAE Student Chapter, one of the main goals was to double the number of students, originally having 25 students as members, to join and be engaged in the ASHRAE community. Starting this new academic year, we now have 48 members and are continuing to increase this number. With plans such as various workshops, having guest speakers present their knowledge in the ASHRAE community, and learning different software to help improve the skills of the student engineers. We aim to increase the knowledge of these students to real-world scenarios and promote the Student Chapter for the next generation to come.”



Michael Dunleavy, President



Emily Peters, Vice President



Kreso Majstorovic, Secretary



Nicholas Kindya, Treasurer



Melissa Feliciano, Social Media Manager



WE'RE BACK!

Sunday – March 26, 2023

White Plains High School

550 North Street, White Plains, NY 10605

11:00AM to 3:30PM

Tristate areas largest hands-on engineering sponsored event for High School and Middle Schoolers.



Meet Representatives From

Top Engineering Colleges & Universities

Learn About The Industry From

Top Engineering & Technology Firms

Get Your Questions Answered at

The Young Engineers Panel



Free Admission!	Giveaways!	Contests!	Activities!

The Tri-State Engineering Expo, a NYS Chartered 501(c)(3) corporation. Donations are tax deductible to the maximum extent allowed by law.

Learn more at: **BeAnEngineer.org**



ASHRAE BI-STATE CHAPTER
PRESENTS THE ANNUAL

GOLF OUTING

TUESDAY, MAY 23, 2023
THE LINKS @ UNION VALE

MORE DETAILS TO COME

UPCOMING CONFERENCES



2023 ASHRAE WINTER CONFERENCE

ATLANTA, Feb 4-8 | AHR Expo, Feb 6-8

*ASHRAE is looking forward to returning to Atlanta – home of the new ASHRAE Global Headquarters. The ASHRAE Winter Conference will be held February 4-8, 2023, at the Omni Hotel at CNN Center and Building A of the Georgia World Congress Center. The AHR Expo is February 6-8 in Buildings B and C of the Georgia World Congress Center.
Registration currently open for in-person and virtual!*



2023 ASHRAE Annual Conference

TAMPA, Jun 24-28



*ASHRAE is looking forward to convening in Tampa at the JW Marriott Tampa Water Street and the Marriott Tampa Water Street June 24-28, 2023
Registration opens Spring 2023*