



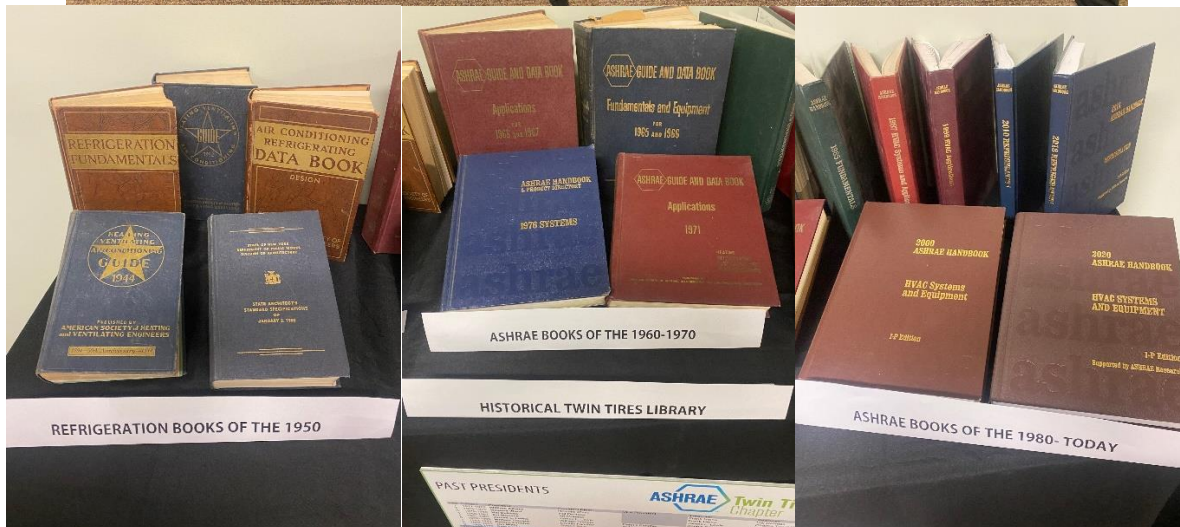
Chapter Historian Richard R. Sanguinito
Twin Ties Chapter # 129

Delta Engineers, Architects, and Land Surveyors
rsanguinito@delta-eas.com

CHAPTER TIMELINE 2021-2022

AUGUST 2020 – CRC was virtual due to COVID 19

Committee meeting were virtual.
History presentation was virtual.



PAST PRESIDENTS				ASHRAE Twin Tiers Chapter	
Year	Office	President	Sponsored List	Vice President	Secretary
1	1971-1972	William Adams	Robert L. Ford	Frank R. H. H. H.	Charles L. H. H.
2	1972-1973	Harold H. H.	Frank R. H. H.	Charles L. H. H.	Frank R. H. H.
3	1973-1974	Frank R. H. H.	Charles L. H. H.	Frank R. H. H.	Charles L. H. H.
4	1974-1975	Charles L. H. H.	Frank R. H. H.	Charles L. H. H.	Frank R. H. H.
5	1975-1976	Frank R. H. H.	Charles L. H. H.	Frank R. H. H.	Charles L. H. H.
6	1976-1977	Charles L. H. H.	Frank R. H. H.	Charles L. H. H.	Frank R. H. H.
7	1977-1978	Frank R. H. H.	Charles L. H. H.	Frank R. H. H.	Charles L. H. H.
8	1978-1979	Charles L. H. H.	Frank R. H. H.	Charles L. H. H.	Frank R. H. H.
9	1979-1980	Frank R. H. H.	Charles L. H. H.	Frank R. H. H.	Charles L. H. H.
10	1980-1981	Charles L. H. H.	Frank R. H. H.	Charles L. H. H.	Frank R. H. H.
11	1981-1982	Frank R. H. H.	Charles L. H. H.	Frank R. H. H.	Charles L. H. H.
12	1982-1983	Charles L. H. H.	Frank R. H. H.	Charles L. H. H.	Frank R. H. H.
13	1983-1984	Frank R. H. H.	Charles L. H. H.	Frank R. H. H.	Charles L. H. H.
14	1984-1985	Charles L. H. H.	Frank R. H. H.	Charles L. H. H.	Frank R. H. H.
15	1985-1986	Frank R. H. H.	Charles L. H. H.	Frank R. H. H.	Charles L. H. H.
16	1986-1987	Charles L. H. H.	Frank R. H. H.	Charles L. H. H.	Frank R. H. H.
17	1987-1988	Frank R. H. H.	Charles L. H. H.	Frank R. H. H.	Charles L. H. H.
18	1988-1989	Charles L. H. H.	Frank R. H. H.	Charles L. H. H.	Frank R. H. H.
19	1989-1990	Frank R. H. H.	Charles L. H. H.	Frank R. H. H.	Charles L. H. H.
20	1990-1991	Charles L. H. H.	Frank R. H. H.	Charles L. H. H.	Frank R. H. H.
21	1991-1992	Frank R. H. H.	Charles L. H. H.	Frank R. H. H.	Charles L. H. H.
22	1992-1993	Charles L. H. H.	Frank R. H. H.	Charles L. H. H.	Frank R. H. H.
23	1993-1994	Frank R. H. H.	Charles L. H. H.	Frank R. H. H.	Charles L. H. H.
24	1994-1995	Charles L. H. H.	Frank R. H. H.	Charles L. H. H.	Frank R. H. H.
25	1995-1996	Frank R. H. H.	Charles L. H. H.	Frank R. H. H.	Charles L. H. H.
26	1996-1997	Charles L. H. H.	Frank R. H. H.	Charles L. H. H.	Frank R. H. H.
27	1997-1998	Frank R. H. H.	Charles L. H. H.	Frank R. H. H.	Charles L. H. H.
28	1998-1999	Charles L. H. H.	Frank R. H. H.	Charles L. H. H.	Frank R. H. H.
29	1999-2000	Frank R. H. H.	Charles L. H. H.	Frank R. H. H.	Charles L. H. H.
30	2000-2001	Charles L. H. H.	Frank R. H. H.	Charles L. H. H.	Frank R. H. H.
31	2001-2002	Frank R. H. H.	Charles L. H. H.	Frank R. H. H.	Charles L. H. H.
32	2002-2003	Charles L. H. H.	Frank R. H. H.	Charles L. H. H.	Frank R. H. H.
33	2003-2004	Frank R. H. H.	Charles L. H. H.	Frank R. H. H.	Charles L. H. H.
34	2004-2005	Charles L. H. H.	Frank R. H. H.	Charles L. H. H.	Frank R. H. H.
35	2005-2006	Frank R. H. H.	Charles L. H. H.	Frank R. H. H.	Charles L. H. H.
36	2006-2007	Charles L. H. H.	Frank R. H. H.	Charles L. H. H.	Frank R. H. H.
37	2007-2008	Frank R. H. H.	Charles L. H. H.	Frank R. H. H.	Charles L. H. H.
38	2008-2009	Charles L. H. H.	Frank R. H. H.	Charles L. H. H.	Frank R. H. H.
39	2009-2010	Frank R. H. H.	Charles L. H. H.	Frank R. H. H.	Charles L. H. H.
40	2010-2011	Charles L. H. H.	Frank R. H. H.	Charles L. H. H.	Frank R. H. H.
41	2011-2012	Frank R. H. H.	Charles L. H. H.	Frank R. H. H.	Charles L. H. H.
42	2012-2013	Charles L. H. H.	Frank R. H. H.	Charles L. H. H.	Frank R. H. H.
43	2013-2014	Frank R. H. H.	Charles L. H. H.	Frank R. H. H.	Charles L. H. H.
44	2014-2015	Charles L. H. H.	Frank R. H. H.	Charles L. H. H.	Frank R. H. H.
45	2015-2016	Frank R. H. H.	Charles L. H. H.	Frank R. H. H.	Charles L. H. H.
46	2016-2017	Charles L. H. H.	Frank R. H. H.	Charles L. H. H.	Frank R. H. H.
47	2017-2018	Frank R. H. H.	Charles L. H. H.	Frank R. H. H.	Charles L. H. H.
48	2018-2019	Charles L. H. H.	Frank R. H. H.	Charles L. H. H.	Frank R. H. H.
49	2019-2020	Frank R. H. H.	Charles L. H. H.	Frank R. H. H.	Charles L. H. H.
50	2020-2021	Charles L. H. H.	Frank R. H. H.	Charles L. H. H.	Frank R. H. H.
51	2021-2022	Frank R. H. H.	Charles L. H. H.	Frank R. H. H.	Charles L. H. H.



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CHAPTER TIMELINE 2021-2022

SEPTEMBER 21, 2021 – ASHRAE TWIN TIER SEPTEMBER CHAPTER MEETING

Event	Brewery Tour and "Welcome Back" Social Hour Factory by Beer Tree - Lower Level 511 Reynolds Rd, Johnson City, NY 13790
Time	5:00 PM
Location	Factory by Beer Tree - Lower Level 511 Reynolds Rd, Johnson City, NY 13790
Activity	Brewery Tour
Presenter	Brendan Harder (Beer Tree)
Description	Topic Description: Factory by Beer Tree opened its doors in late 2020 in the former Sears in the Oakdale Mall. Our tour will feature a behind-the-scenes view of their large-scale brewing operations and discuss the process of renovating a former big-box store into their current space. Following the tour, we will gather for a social hour, providing an opportunity to network and reconnect with folks at our first in-person meeting since spring 2020!
Menu:	Appetizers and drinks
Agenda:	5:00-5:15: Registration - meet in the lower level 5:15-6:00: Brewery Tour 6:00-7:00: Social Hour (appetizers and drinks)





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CHAPTER TIMELINE 2021-2022

OCTOBER 6, 2021 – YEA (Young Engineers in ASHRAE) Event

Event	ASHRAE Twin Tier October YEA
Time:	4:30 PM
Location:	Driving Range Polar Shot , 4403 Watson Blvd, Johnson City, NY 13790 Happy Hour / Networking Pour House Pub and Grill 4402 Watson Blvd, Johnson City, NY 13790
Speaker:	NONE
Description:	Join other young engineers in ASHRAE (YEA) and fellow ASHRAE Chapter members for a driving range session at the Polar Shot Driving Range in Johnson City and Happy Hour networking across the street at Pour House Pub and Grill! Our driving range session will begin at 4:30, and the Happy Hour networking will begin at approximately 5:30pm. Young Engineers in ASHRAE (YEA) seeks to enhance member benefits for young professional ASHRAE members, 35 years old and younger, by identifying, creating, and supporting activities for development. The driving range golf ball costs and appetizers at the happy hour/networking session will be provided courtesy of the chapter at no cost.
Agenda:	4:30-5:30PM - Driving Range 5:30-7:30PM - Happy Hour and Networking Events
Summary:	We had 9 total people in attendance and the weather was perfect, 73 degrees and partly cloudy. Trane covered the cost of range balls for everyone at Polar Shot, and Trane and RL Kistler split the cost of appetizers and the first drink for everyone at the happy hour across the street at Pour House.
Attendees:	Kyle Nedlik Ibrahima Balde Tim Envid Shannon O'Brien Eric Zucker Mike McGinnis Jason Gilbert Glenn Roberts C.J. (Glenn Roberts +1)





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CHAPTER TIMELINE 2021-2022

OCTOBER 19, 2021 – ASHRAE TWIN TIER OCTOBER CHAPTER MEETING

Event	Tour & Dinner Meeting Sheet Metal and Piping Fabrication Shop Tour						
Time	5:00 PM						
Location	SOUTHERN TIER CUSTOM FABRICATORS, INC. 1322 College Ave, Elmira, NY 14901						
Activity	Sheet Metal and Piping Fabrication Shop Tour						
Presenter	Southern Tier Custom Fabricators						
Description	Topic Description: This month's tour will explore Southern Tier Custom Fabricator's 65,000 square foot campus, comprised of three buildings. The tour will cover all steps of the process from CAD drafting to fabrication. STCF specializes in Sheet Metal fabrications and Air Handling systems for the commercial and industrial marketplace. More information can be found on STCF's website: http://stcf.com/ Safety glasses are required for the tour. Please bring your own if you have them.						
Menu:	Dinner Buffet Catering by Hill Top Inn <table><tbody><tr><td>- Chicken Marsala</td><td>- Pasta Primavera</td></tr><tr><td>- Roasted Red Potatoes</td><td>- Fresh Garden Salad</td></tr><tr><td>- Fresh Baked Rolls</td><td>- Assorted Cookies and Brownies</td></tr></tbody></table>	- Chicken Marsala	- Pasta Primavera	- Roasted Red Potatoes	- Fresh Garden Salad	- Fresh Baked Rolls	- Assorted Cookies and Brownies
- Chicken Marsala	- Pasta Primavera						
- Roasted Red Potatoes	- Fresh Garden Salad						
- Fresh Baked Rolls	- Assorted Cookies and Brownies						
Agenda:	5:00-5:15: Arrival and Check-In 5:15-6:45: Tour of Southern Tier Custom Fabricators 6:45-8:00: Dinner and Chapter Meeting at STCF						
Attendance:	Victoria Kramer, Adam Keller, Alex Merry, Maxwell Jones, Mark Schmitz, Joelle Taliento Wes Wheeler						





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CHAPTER TIMELINE 2021-2022

NOVEMBER 16, 2021 – CHAPTER MEETING

ASHRAE Twin Tier November Chapter Meeting Refrigeration Day

TIME: 12:00 (noon) PM

LOCATION: Virtual Meeting

TOPIC: **ASHRAE Tech Hour: "The Future of Refrigerants" (1 PDH)**

SPEAKER: **Steve Kujak - ASHRAE Distinguished Lecturer**

Steve Kujak is the director of Next Generation Refrigerants Research for Trane Technologies (divisions include Trane and ThermoKing). He has over 29 years of HVACR industry experience involving development of new refrigerants and HVACR systems. Steve has been an author or co-author on 50+ publications related to refrigerants, has 27 patents related to HVACR products and is involved in numerous refrigerant safety standards globally

DESCRIPTION: New societal environmental demands to control climate change are driving the development of new regulatory policies to restrict and lower the direct GWP (global warming potential) impact of F-gases. The HVAC&R industry is currently being challenged to invest significant resources to understand the best refrigerants that meet the above requirements. However, there are many uncertainties and challenges given the ever-changing global regulatory environment, within regions, country, state, and sometimes locally by city.

Safe non-flammable low toxicity F-gases allowed for an exponential increase in the standard of living of society through increased food productivity, reduction in heat related deaths, increased worker productivity and migration of people to cities and to hotter climates. The orderly transition from CFCs to HCFCs and HFCs achieved a balance between the societal environmental demands for reduced ozone depletion while continuing to improve the standard of living in developing countries and minimize the societal safety (nonflammable refrigerants) impacts for everyone. Today designers are being asked to consider new lower direct GWP unsaturated hydrofluorocarbons (HFOs) refrigerants, some of which are slightly flammable under certain conditions, as well as revisiting the application of natural refrigerants, like carbon dioxide, ammonia, hydrocarbons, and water.

1 PDH is available for attending this session.

AGENDA: 12:00 – 12:05: Chapter Announcements, Meeting Introduction
12:05 – 12:55: Presentation
12:55 – 1:00: PDH Instructions & Closing



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CHAPTER TIMELINE 2021-2022

DECEMBER 21, 2021 – CHAPTER MEETING

ASHRAE Twin Tier November Chapter Meeting

TIME: 12:00 (noon) PM

LOCATION: Virtual Meeting

TOPIC: **ASHRAE Tech Hour: "Where Have All the Ethics Gone?" (1 PDH)**

SPEAKER: **Richard H. Rooley, FREng, Rooley Consultants**

Richard H. Rooley (FREng FASHRAE, Presidential Member ASHRAE) is a Consulting Engineer in London, UK. He has designed HVAC systems and developed operation and maintenance procedures for commercial, health, defense, public buildings and housing. He has project managed complex engineering and building projects and has worked with universities in research on indoor air quality and the process of building design, construction and use. He acts as an expert in litigation, and as an arbitrator and mediator in disputes. In seeking solutions to problems in buildings, he has used teams of professionals, from inside and outside the HVAC industry.

Mr. Rooley has been a member of ASHRAE since 1976 and has served as Chairman or member of many Councils, standing and technical committees. He served as ASHRAE President (2003–2004), he is a Fellow of ASHRAE, received the Paul Anderson Award, the Exceptional Service Award, the Award of Merit and the International Activities Award. He is also a Life Member.

DESCRIPTION: Each individual has a different approach to ethics, colored by their education, training, culture, trade, profession and nationality. Learn about the commercial and cross-discipline drivers which have a great effect on ethics and evaluate scenarios that challenge you to determine what's ethically right and what contravenes good ethical practice.

1 PDH is available for attending this session.

AGENDA: 12:00 – 12:05: Chapter Announcements, Meeting Introduction
12:05 – 12:55: Presentation
12:55 – 1:00: PDH Instructions & Closing



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CHAPTER TIMELINE 2021-2022

JANUARY 18, 2021 – CHAPTER MEETING

ASHRAE Twin Tier January Chapter Meeting
Past Presidents, History & Research Promotion Night

TIME: 5:30 PM

LOCATION: Virtual Meeting

TOPIC: **Cornell University's District Steam to Hot Water Conversion**

SPEAKER: **Travis Fisher - Director of Project Management,
Renewal and Critical Maintenance Team
Frank Perry - Thermal Distribution and Hydroplant Manager
Cole Tucker, PE, CEM - Energy Engineer
Mark Howe, PE, CEM - Director of Utilities Distribution
& Energy Management**

DESCRIPTION:

The presentation will provide an overview of Cornell University's District Steam to Hot Water Conversion. Topics include:

- Project Team Introduction
- Project Objectives
- Steam to Hot Water Conversion - Kennedy to Clark Project
 - Design Approach and Considerations
 - Construction
 - Results
 - Improvement Opportunities
 - What's Next
 - Q&A

AGENDA: 5:30 – 5:45: Chapter Announcements, Meeting Introduction
5:45 – 6:30: Presentation
6:30 – 7:00: Q&A - Closing



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CHAPTER TIMELINE 2021-2022

FEBRUARY 15, 2022 – CHAPTER MEETING

ASHRAE Twin Tier November Chapter Meeting

TIME: 12:00 (noon) PM

LOCATION: Virtual Meeting

TOPIC: **Fundamentals of Condensing Boiler Design (1 PDH)**

SPEAKER: **Alex Pedrosa**

Alex Pedrosa
Application Engineer - Fulton Heating Solutions Inc.

Alex is a graduate of Clarkson University with a Degree in Aeronautical and Mechanical Engineering. He has worked for Fulton on their Hydronic Products for the past four years. He is responsible for quoting new equipment, assisting with system design and product information updates for the Service and Sales Community distributing Fulton Products. He is a unique asset in support a myriad of questions from the design phase to installation in the field of Hydronic Boiler Applications.

DESCRIPTION: This course covered the "Do's and Don'ts" of Hydronic Condensing Boiler Vent Design. Topics include: venting guidelines, proper materials selection, combustion air, flue gas venting, and draft equipment.

1 PDH is available for attending this session.

AGENDA: 12:00 – 12:05: Chapter Announcements, Meeting Introduction
12:05 – 12:50: Presentation
12:50 – 1:00: PDH Instructions & Closing



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CHAPTER TIMELINE 2021-2022

MARCH 15, 2022 – CHAPTER MEETING

ASHRAE Twin Tier March Chapter Meeting

TIME: 5:15 PM

LOCATION: Tour & Dinner Meeting
Decker School of Nursing and Health Sciences
Binghamton University
48 Corliss Ave, Johnson City, NY

SPEAKER: Dave Lewis, PE of the Binghamton University Physical Facilities Department.

DESCRIPTION: This month's tour will explore the recent renovation of a 1940s era manufacturing facility into a state of the art health sciences education and research building.

AGENDA: 5:15-5:30: Welcome and Check-In
5:30-6:30: Building Tour
6:30-7:30: Dinner, Chapter Announcements and Project Presentation





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CHAPTER TIMELINE 2021-2022

APRIL 19, 2022 – 2022 ASHRAE Spring Symposium and Professional Development Seminar

TIME: 8:30 A.M. – 4:30 P.M

LOCATION: Holiday Inn Binghamton – Downtown,
2-8 Hawley St, Binghamton, NY 13901

ACTIVITY Professional Development Class

SPEAKER and Description: EARN UP TO 7.5 Professional DEVELOPMENT HOURS!

SCHEDULE OF EVENTS

Time/Room	Topic	Speaker
8:30-10:00 A.M. Endicott Rm	“CO2 Refrigeration/Heat & Energy Recovery”	Michael Collins, Eagle Bay Refrigeration
8:30-10:00 A.M. Binghamton Rm	“Air Rotation Systems and Applications”	Rob VanSkiver, H&V Sales Group
10:10-11:40 A.M. Endicott Rm	“NYStretch Energy Code for Commercial Buildings”	Chris Whittet, Performance Sys Dev
10:10-11:40 A.M. Binghamton Rm	“Building Automation Systems 101 Fundamentals”	Scott Edwards, Johnson Controls
11:40-1:20 P.M. Johnson City Rm	“Thoughts on Leadership”	Victor Goldschmidt, Ph.D, ASHRAE DL
1:20-2:50 P.M. Endicott Rm	“Humidification Application, Technologies and Best Practices”	Steve Brandt, P.E. D.F. Brandt, Inc.
1:20-2:50 P.M. Binghamton Rm	“Primary-Secondary Pumping”	Michael Licastro, Bell & Gossett - Xylem
3:00-4:30 P.M. Endicott Rm	“Decarbonization with Heat Pumps”	Shawn Ameri – Aermec
3:00-4:30 P.M. Binghamton Rm	“Creating a World of Zero Energy Buildings”	Paul Torcellini, Ph.D., ASHRAE DL



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SCHOLARSHIP - HO Ward Scholarship Recipients



Josip Banovic \$500



Joseph Apollo, \$500



Wyatt Cudney, \$1,000



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CHAPTER TIMELINE 2021-2022

MAY 25, 2021 – CHAPTER MEE2ING

ASHRAE Twin Tier May Chapter Meeting

TIME: 5:00 PM - 8:00 PM

LOCATION: SUNY Broome Culinary & Events Center,
78 Exchange St, Binghamton, NY 13901

SPEAKER: Project Team Panel

DESCRIPTION: In 2020, SUNY Broome open it's doors to the Culinary & Events Center on Exchange St. in downtown Binghamton. The former Carnegie Library has been transformed into hands-on, state-of-the-art classrooms for SUNY Broome's Hospitality Programs, as well as ample event space available for public use.

AGENDA: 5:15 - 5:30 - Registration & Check-In
5:30 - 6:30 - Building Tour
6:30 - 8:30 - Dinner, Chapter Announcements & Project Panel





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CHAPTER TIMELINE 2021-2022

JUNE 7, 2022- CHAPTER MEETING

Golf Tournament & Clambake –

SPECIAL GUEST ASHRAE PRESIDENT MICK SCHWEDLER, P.E.

Date June 7, 2022

Time Golf shotgun start at 10:30 AM & Clambake at approx. 4:00 PM

Location The Links at Hiawatha Landing; 2350 Marshland Rd, Apalachin, NY 13732

Activity Golf Tournament & Clambake

Speaker Captain & Crew

Menu The menu will include thin sliced ribeye steak sandwiches with sautéed onions/peppers/mushrooms, chicken speadies, salt potatoes, corn on the cob, garden salad, soft drinks, and beer and Two Dozen Steamed Hard Shell Clams Per Person

Great Door Prizes and a 50/50 raffle to benefit the Twin Tiers ASHRAE Chapter

Very Respectfully,

Richard Sanguinito
Chapter Historian 2021-2022