December Newsletter

ASHRAE Buffalo Chapter

A Message from Our President

As we near the end of 2024, I find myself filled with pride and gratitude as I reflect on the incredible strides we've made in just a few short months of our current ASHRAE year. Together, we've built momentum, and our chapter is stronger than ever.

First, let's talk numbers. Our monthly meeting attendance has seen a significant rise, and we are now consistently surpassing last year's averages. This surge in participation has led to a direct boost in our revenue, allowing us to reinvest in the great initiatives we have ahead. But it's not just about numbers – it's about community, about bringing more of us together to make this organization something truly special.

One of the highlights I'm especially proud of is our commitment to the Research Promotion (RP) Fund. As I mentioned last month, our executive board members, alongside our RP Chair, Jake Muller, made generous voluntary donations to help propel us closer to our RP goals. Without the support of our sponsors, and thanks to them, we are on track to achieving High Five status with the National Research Promotion Fund – a truly remarkable accomplishment!

Speaking of remarkable events, let me give a huge shout-out to our VP, Lizzie Hagerty, for her outstanding work planning the annual holiday party. Although a snowstorm in the southtowns impacted some attendance, the event was sold out well in advance! If the buzz around the holiday party is any indication, I believe similarly to our golf tournament we will see tickets flying off the shelf – all within 24 hours of going live next year!

I know January isn't typically associated with golf, but for those of us who can't get enough of the game, we've got something special lined up! We're hosting two exciting golf events in January. The first is a Members Appreciation Golf Event at Golf DoJo on Niagara Falls Blvd – a great opportunity to network while enjoying a virtual round of golf. Depending on your tee-time, you'll get lunch, snacks, and drinks – all the ingredients for a fantastic afternoon.

The second event is something totally unique – a "Create-a-Putt-Putt Course" at Buffalo City Mission. This interactive event will allow us to sponsor and create custom putt-putt holes for the BCM. It's going to be a great way to give back to the community while having some fun. We'll need sponsors and volunteers to bring this idea to life, so stay tuned for more details!

Of course, our monthly meetings continue to provide valuable learning opportunities. On January 14th at Big Ditch, we'll be diving into Standard 241, sponsored by H&V Sales Group. More details on this topic will be available in our January newsletter, and I look forward to seeing you there!

As we head into the holiday season, I want to take a moment to wish each and every one of you a happy, healthy, and restful break. May this time bring you joy and rejuvenation, and I hope you're able to spend quality moments with your loved ones. I'm already looking forward to seeing you all at our upcoming events in the new year – it's going to be an exciting ride, and I'm thrilled to continue this journey with you.

Cheers to all of you, and here's to a bright and successful 2025!

Nicole R Smith

Inside this Issue:

Website:

Check out our website for updated chapter information at www.buffaloashrae.org

Socials:

Follow us on LinkedIn

Editor's Note:

Do you have some ASHRAE related information to share with the chapter or an HVAC related event or opportunity to advertise? If so, please reach out to the newsletter editor and discuss options for publishing in the chapter newsletter.

Newsletter Disclaimer:

YOUR CHAPTER NEWS IN ONE PLACE

The chapter has several board positions available. If you are interested in volunteering for one of the open positions, please reach out to our Chapter President: Nicole Smith

Advertise in the Chapter Newsletter!

Advertising in The Newsletter is a great way to promote your business to local industry professionals! The Newsletter currently offers a business card size (3.5" x 2") ad for $50. Your ad will run in every issue of the newsletter for the 2024-2025 ASHRAE year! If you would like to place an advertisement in the newsletter, please follow the instructions below:

- E-mail a PDF copy of your ad to jmee@ipdengineering.com
- Please mail a check payable to ASHRAE Buffalo Chapter and address to:
  ATTN: Eben Piazza
  ASHRAE Buffalo Treasury
  3132 Clinton Street
  Buffalo, New York 14224

Scholarship Opportunities!

There are scholarships available from both the chapter and national levels. At the national level, applications will be accepted from Engineering or Technical students majoring in Mechanical Engineering or in a technical course related to the field of Heating, Refrigeration and Air Conditioning. Visit https://www.ashrae.org/membership--conferences/student-zone/scholarships-and-grants/scholarship-program to see what opportunities are available.

At the chapter level, scholarships of up to $4000 are available for students enrolled in an engineering or technical major relating to the HVAC field. Applicants must be a resident of Western New York or attending school in Western New York and be in good academic standing. Applicants must demonstrate a desire to locate in WNY post-graduation.

Additional information can be found here: https://buffaloashrae.org/images/downloads/Documents/scholarship_cover_page.doc
Applications can be found here: https://buffaloashrae.org/images/downloads/Documents/ashrae_scholarship_form.doc
For more information contact Drew Nowak at anowak@mollenbergbetz.com or Nick Farina at: nick.farina@victaulic.com.

Check out Local Employment Opportunities!

ASHRAE is a great source to find your next career opportunity! Employers can easily post jobs at: https://buffaloashrae.org/classifieds.php.

- Postings are made available to the entire chapter membership through the website and the monthly newsletter.
- Postings never expire, they remain available until the employer fills the position or informs the chapter that the position is no longer available.
- There is a small, one-time fee of $100 to post job openings. Proceeds are provided to the chapter to assist in annual chapter expenses.

Welcome to our New Members:

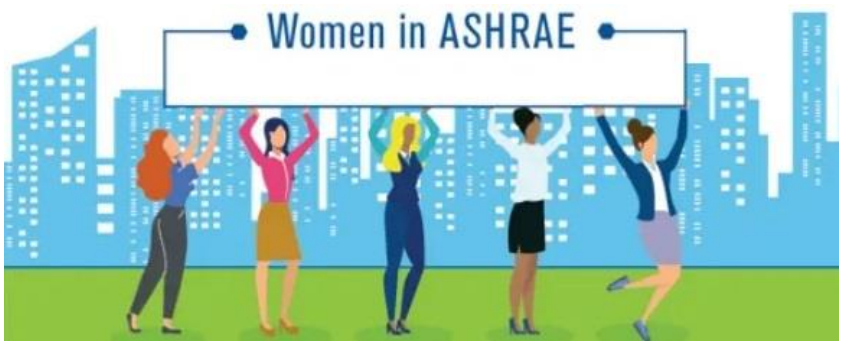
- Mr. Bryce Lakso; CannonDesign
- Mr. Robert Bertram; Triangle Tube
- Mr. Carl Kirchgraber; University at Buffalo
- Mr. Nick Schiferle; Herman HVAC

We're glad you've chosen to join the ASHRAE Buffalo Chapter and look forward to meeting you at our upcoming Chapter Events

LOCATION Holimont Ski Area, Ellicottville NY
DATE/TIME TBD
DETAILS Stay tuned for more details as event planning continues
Everyone will be responsible for their own equipment and lift passes. Rentals are available at the resort. Please visit the resort website for rates and further details at www.holimont.com
RSVP TO Once details a finalized, RSVPs will be taken by:
Drew Nowak: 245-1824 (cell)
614-7450 ext.301 (office)
anowak@mollenbergbetz.com

The Chapter is currently seeking interested members to join our sustainability committee. A kick-off meeting is being planned for January.

If interested in participating, please reach out to Krista Wayne:
kwayne@cannondesign.com



Thank you to everyone who attended our first Women in ASHRAE (WIA) event at Lucky Day last month! It was such a great time connecting, we even forgot to take a picture! We were thrilled to have multiple members from the Syracuse area chapter join us as well—what a wonderful surprise!

Our next event will be our first book club meeting on January 22nd, where we will discuss Lean In: Women, Work, and the Will to Lead by Sheryl Sandberg. More details will be shared soon, but don't forget that you can access the audiobook via the Libby app or Spotify.

SPONSORSHIP *Opportunities*

The chapter will be adding website sponsorships to our website, see below for tiers and perks of becoming a website sponsor:

- Gold level: $1,500; includes 2 sponsors to our two largest events of the year (golf and holiday party) and logo on Buffalo ASHRAE website for a full calendar year.
- Silver: $1,000; 1 sponsor of choice of our two largest events of the year (golf and holiday party) and logo on Buffalo ASHRAE website for a full calendar year.
- Bronze: $500; Logo on Buffalo ASHRAE website for a full calendar year.

Mark your calendars for our indoor golf event on January 24, 2025, to be held at:
GolfDojo
1154 Niagara Falls Blvd, Suite 2
Tonawanda, New York 14150
www.mygolfdojo.com

More details to follow in an upcoming email invitation

NOVEMBER CHAPTER MEETING RECAP

GEOTHERMAL SYSTEMS – STRATEGIES FOR SUCCESS

presented by: Water Furnace

Thank you to our Sponsor:

J.W. SWANSON & ASSOCIATES, LLC

Thank you to our Speaker:

Kevin Austin, Geothermal Heat Exchanger Consultant at Water Furnace International.

The November chapter was a very an interesting overview of geothermal heat pump systems presented by Kevin Austin, a geothermal heat exchanger specialist at Water Furnace International. Kevin focused his discussion on the ground loops associated with geo exchange systems. Kevin educated over 50 chapter members in attendance on different aspects of ground loops including the differences between horizontal and vertical wells, the advantages and disadvantages of closed loop vs. open loop, and some real life installation experiences. Kevin leaned on his nearly 20 years of loop installation experience to provide the attendees with the benefits of using geothermal heat pump systems. Additional thanks for Dan Arnold of JW Swanson for arranging Kevin's presentation and sponsoring the meeting. The meeting was very well attended, thanks go out to all present for taking time out of their day to join us.

UPCOMING CHAPTER MEETING

1 PDH Credit!

Date	Location	Topic and Speaker	Event Sponsor	Cost*
January 14, 2024 12:00 p.m. – 1:00 p.m.	Big Ditch 55 E. Huron St. Buffalo, NY 14203	Tom Boyd: GPS Air Electric Air Cleaners arrive under ASHRAE Standard 241	H&V Sales Group Providing Integrated Efficient HVAC Solutions	Member: $35.00 Non-member: $40.00 Student: $20.00

* Tickets purchased less than 24 hours prior to the event and at the door we will be assessed a $10 late fee. Please RSVP prior to the 24-hour window so we can give a proper headcount to the restaurants and do not end up short or paying for extra seats.

UPCOMING YEA EVENT

Date	Time	Location	Event Sponsor	Cost*
CHECK BACK SOON FOR EXCITING UPCOMING YEA EVENTS !				

* Please reach out Kirk Feeney if your firm would be interested in sponsoring a future YEA Event. The chapter strives to keep these events free of charge for attending members so we're always in search of willing sponsors. Sponsoring firms will be recognized in the preceding newsletter.

PAOE SUMMARY

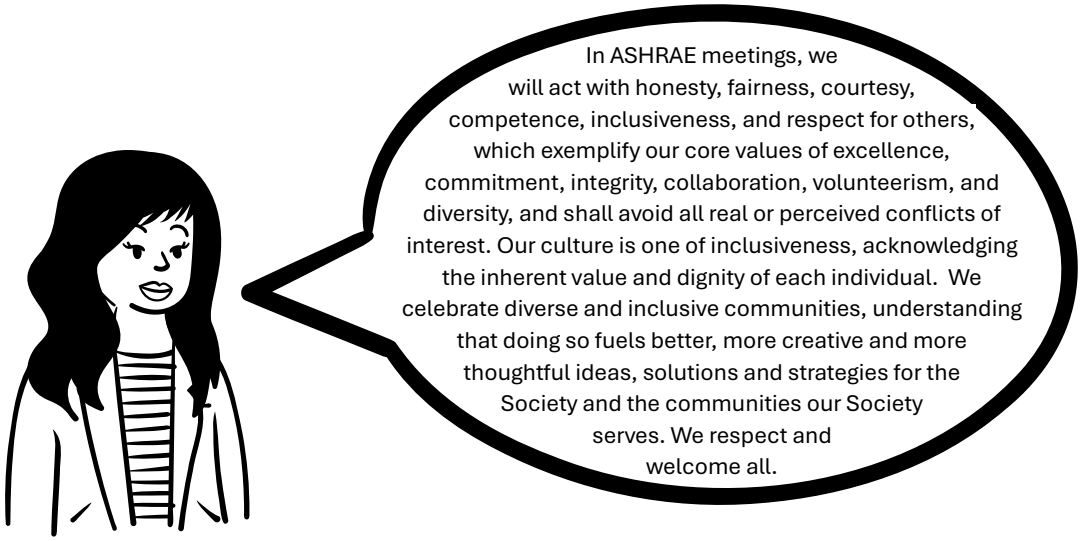
Category	Minimum Points	Par Points	Total Points
Chapter Operations	600	1500	120
Chapter Technology Transfer	550	1500	600
Communications	300	700	270
Government Affairs	500	1250	0
Historical	100	500	129
Membership Promotion	1000	1600	725
Research and Promotion	800	1050	0
Student Activities	500	800	0
Young Engineers in ASHRAE	300	900	750

* Point summary current as of 12/4/24.

2024-2025 CTT / PROGRAMMING

Date & Time	Presenter / Topic
September 24, 2024 5:00 – 7:00 PM	Extreme Event Engineering – Understanding IBC Seismic/Wind Restraint Requirements and Risks presented by Greg Schmelig of Vibro-Acoustics
October 15, 2024 12:00 – 1:00 PM	Technology of Vertical Flood Heat Exchangers - How They Can Utilize Both Sensible and Latent Heat presented by Patrick Lach, VP Sales & Business Development at Maxi-Therm Inc.
November 19, 2024 12:00 – 1:00 PM	Geothermal Systems – Strategies for Success presented by Kevin Austin; Geothermal Heat Exchanger Consultant from Water Furnace International
December 5, 2024 6:00 – 9:00 PM	Annual Holiday Party at the Curtiss Hotel, 210 Franklin Street, Buffalo, NY 14202
January 14, 2025 12:00 – 1:00 PM	Electric Air Cleaners Arrive Under ASHRAE Standard 241

Date & Time	Presenter / Topic
February 18, 2025 5:00 – 7:00 PM	Induction Displacement in Classrooms and Chilled Beams in the Corridors Tour and Meeting at Cayuga Heights Elementary School
March 11, 2025 ***tentative***	Distinguished Lecturer: Dr. Theresa Weston Defining and Assessing Resilience *More Details to Follow*
April ***tentative***	Presentation by Schneider Electric *More Details to Follow*
May ***tentative***	Trade Show, Tour, and Panel Presentation at the Buffalo History Museum *More Details to Follow*
June	Annual Golf Outing *More Details to Follow*



Holiday Party: December 4th

Thank You to those who attended

A Lesson in History

Willis Carrier's First Patent

No. 808,897. PATENTED JAN. 2, 1906.

W. H. CARRIER.

APPARATUS FOR TREATING AIR.

APPLICATION FILED SEPT. 16, 1904.

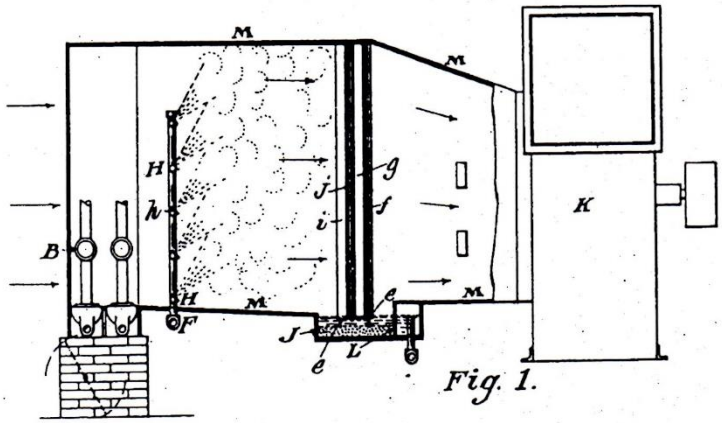


Fig. 1.

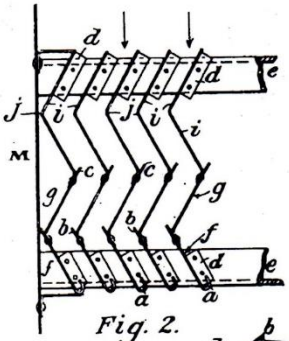


Fig. 2.

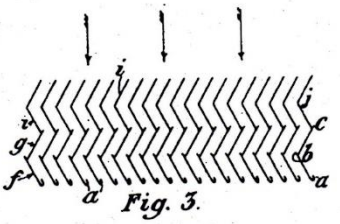


Fig. 3.

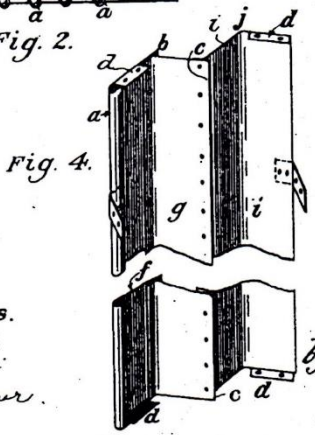


Fig. 4.

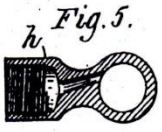


Fig. 5.

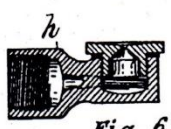


Fig. 6.

Witnesses.
E. A. Volk.
R. W. Rumer.

Inventor.
Willis H. Carr
by Wilkinson, Parker & Hoyne
Attorneys

UNITED STATES PATENT OFFICE.

WILLIS H. CARRIER, OF BUFFALO, NEW YORK, ASSIGNOR TO BUFFALO FORGE COMPANY, OF BUFFALO, NEW YORK.

APPARATUS FOR TREATING AIR.

No. 808,897. Specification of Letters Patent. Patented Jan. 2, 1906.

Application filed September 16, 1904. Serial No. 224,758.

To all whom it may concern:

Be it known that I, WILLIS H. CARRIER, a citizen of the United States, residing at Buffalo, in the county of Erie and State of New York, have invented a new and useful Improvement in Apparatus for Treating Air, of which the following is a specification.

This invention relates to apparatus for treating air previous to its use for ventilating and heating buildings or for other commercial purposes—such as drying, refrigerating, &c.—and more particularly to air-purifying apparatus of that kind in which a liquid or solution in a finely-divided condition or atomized spray is introduced into a current of air to be treated, which is then caused to pass through a separator consisting of baffle-plates which intercept and separate from the air the particles of liquid, together with the solid impurities contained therein.

The object of the invention is to provide an efficient practical apparatus of simple construction which will thoroughly separate all solid impurities, floating particles, and noxious material from the air either with or without altering its temperature and humidity.

In the accompanying drawings, Figure 1 is a view, partly in elevation and partly in vertical section, of an apparatus for treating air embodying the invention. Fig. 2 is a fragmentary horizontal section, on an enlarged scale, of the separating device. Fig. 3 is a diagram of the separating device. Fig. 4 is a perspective view of one of the separator plates or elements. Figs. 5 and 6 are enlarged sections in different planes of one of the spray-nozzles detached.

Like letters of reference refer to like parts in the several figures.

M represents an air trunk, conduit, or casing, of galvanized iron or other suitable material, through which a current of air is caused to pass in a horizontal direction by a fan or other propelling device K, connected with the casing. In the casing M, preferably near its open intake or front end, is located a spraying device H for introducing water or any other suitable treating liquid or solution into the air passing through the casing. The spraying device may be of any suitable construction which will fill the adjacent portion of the casing with a finely divided or atomized spray of the liquid and cause an intimate contact and mixture thereof with all portions of the air-current. The spray device shown consists of a vertical head or pipe connected with a supply-pipe F and provided with spray-nozzles *h* of a well-known type, (shown in Figs. 5 and 6,) which impart a whirling or circular motion to the issuing liquid and produce a very fine spray or vapor.

In the casing in rear of the spray device is a separator through which the air is passed for eliminating or separating therefrom the solid particles of foreign matter or impurities, together with all or a portion of the water which was introduced into the air for cleansing it. The separator comprises a series of parallel baffle plates or elements, made of sheet metal or other suitable material, separated by intervening passages for the air and arranged in an upright position, which will be understood to mean either vertically or inclined, so that the liquid or moisture removed from the air can flow down the surface of the plates or elements. The separator elements are provided with oblique faces joined by upright bends or angles, so as to form a series of continuous, sinuous, or zigzag passages between the elements for the air, which in its passage is deflected from side to side and caused to impinge against the alternate faces of the opposite separator plates or elements. Each plate or element comprises a forward portion consisting of oblique faces *i*, joined by a simple upright bend or angle *j*, and a rear portion consisting of oblique faces *f g*, joined by upright bends or angles, which are provided with flanges or portions *b c*, which project outwardly and rearwardly from the plates or in a direction opposed to the direction of movement of the air and form recesses or gutters.

The separator plates or elements are preferably constructed as shown in the drawings, from which it will be seen that the front portion of each plate consists of a single section or piece which is bent at the angle *j*, while the other portion consists of separate sections or pieces riveted or otherwise joined with the front edge of each section projecting beyond the joint to form the flanges *b* and *c*.

An obvious modification of the construction would be to make each plate or element of a

single continuous piece and secure separate narrow strips thereon at the angles to form the flanges *b* and *c*. The upright rear edge of the last section *f* of each plate or element is also formed with or has secured thereto a lip or flange which forms a gutter or recess *a*. The two portions of the separator-plates perform distinct functions. The front portion does not completely separate the particles of the liquid or solution from the air, but only to a sufficient extent to cover the faces *i* with thin films or streams of the liquid. The air is brought into intimate contact with these films of liquid by reason of the sinuous passage-ways, and all the solid particles of material or impurities contained in the air are thrown against the films of liquid by reason of their inertia and by the action of centrifugal force produced by the sinuous course of the air. The liquid intercepts the impurities and the same are washed down the separator plates or elements by the downwardly-flowing films of liquid and collect in a suitable basin or trap J in the bottom of the casing, from which the liquid passes out through a suitable filter or sieve L. While the liquid is flowing downwardly on the front portions of the separator-plates, due to the action of gravity, it is also propelled forwardly by the current of air across the unobstructed bends *j* of the front portions of the plates. The entire surface of the front faces *i* of the plates is kept wet and offers a large area to catch the impurities from the air; but the front portion of the separator-plates is not designed to completely remove the particles of liquid from the air. The projecting flanges or lips *b c* of the rear portion of the plates, however, obstruct the flow of the liquid across the angles from one face to the other of the rear portion of the plates, so that all of the free particles of liquid or any desired proportion thereof can be separated from the air, depending on the number of the faces *f g* and flanges *b c* with which the rear portion of the plates are provided. The number of faces of the front portion and faces and flanges of the rear portion of the separator-plates will depend on the desired degree of purification and elimination of moisture from the air.

The separator-plates can be supported in the casing on transverse horizontal bars *e* and secured to said bars and the top of the casing by projecting ears or parts *d* at the lower and upper ends of the plates or they can be mounted and secured in any other desired manner.

B represents pipe-coils located in a suitable portion of the casing in the path of the air and through which a heating or cooling medium is circulated for raising or lowering the temperature of the air as desired or necessary for the purpose for which the air is to be used. These heating or cooling coils constitute no part of the invention and may be of any known construction and their temperature regulated in any suitable manner. They are omitted when it is not desired to alter the temperature of the air.

By the described construction of the separator the air is brought into intimate contact with a large wetted surface, whereby all of the impurities are removed from the air and a perfect separation of the free particles of liquid from the air is secured, while at the same time a minimum amount of resistance is offered to the flow of the air. On account of the continuous sinuous passages for the air the latter cannot flow in any but the intended paths, and thereby defeat to a greater or less extent the desired separation of the impurities and moisture. The construction of the separator is exceedingly simple and inexpensive.

I claim as my invention—

1. In an air-purifying apparatus, the combination of an air-conduit and a separator therein comprising upright plates, each having a succession of oblique faces forming a continuous sinuous surface lengthwise of the conduit and having the front portion of such surface unobstructed to permit the distribution of the liquid along the plate from one face to another, and having its succeeding portion provided with projections which obstruct the flow of the liquid lengthwise of the conduit and promote the separation of the liquid from the air, the plates being spaced from each other to form continuous sinuous air-passages between them, substantially as set forth.

2. In an air-purifying apparatus, the combination of means for moistening the air, an air-conduit, and a separator therein comprising spaced upright plates having upright bends providing each plate with a succession of oblique faces and forming continuous sinuous air-passages between the plates, the surface of the front portions of said plates being smooth and unobstructed, and the succeeding portions of said plates having surface projections which obstruct the flow of the liquid lengthwise of the conduit, substantially as set forth.

3. In an air-purifying apparatus, the combination of means for moistening the air, an air-conduit, and a separator in said conduit comprising spaced upright plates having upright bends whereby the plates form continuous sinuous air-passages between them, a portion of the bends of each plate being provided with projecting flanges forming upright gutters, substantially as set forth.

4. In an air-purifying apparatus, the combination of means for moistening the air, an air-conduit, and a separator in said conduit composed of spaced upright plates having

continuous zigzig surfaces and having projections forming gutters at salient portions of said surfaces, substantially as set forth.

5. A separator-plate for air-purifiers having separate sections arranged at an angle to each other, with the front portion of the rear section projecting beyond the rear portion of the adjacent front section, thereby forming a gutter at the junction of the sections, substantially as set forth.

Witness my hand this 14th day of September, 1904.

WILLIS H. CARRIER.

Witnesses:
CHAS. W. PARKER,
C. B. HORNBECK.

Member Spotlight

Members are the foundation of our chapter. There are a lot of members of the Buffalo Chapter of ASHRAE and we want to get to know all of you! Each month we're going to ask one of our members some questions so the chapter can get to know them better.

This month we're going to get to know Charlie Grochowiak a little bit better. Charlie is currently a Sales Engineer at RF Peck. Charlie has been with Peck since May of 2023. Prior to Peck, Charlie spent time working for Binghamton University, CannonDesign, and VPC Fiberglass. Charlie has been an ASHRAE member for 8 years and is currently our Grassroots and Government Advocacy Chairperson.

Q: What is your biggest professional achievement?

A: Thinking back on what I've done so far, I think my biggest professional achievement is designing the Mechanical (HVAC and Plumbing) scope for a full-gut renovation of an entire wing of the Science III building at Binghamton University.

Q: What is your favorite part about living in Western New York?

A: The food, the people, and the history.

Q: What are some future goals and aspirations for your career?

A: One goal I have is to become more of a leader within our local ASHRAE chapter.

Q: What originally brought you to Western New York?

A: I am a 5th generation Buffalonian, with my roots going back as far as the 1870s. I was born in the Town of Tonawanda and returned to WNY after going to college and working in Binghamton.

Q: What is your favorite travel destination?

A: My favorite travel destination is South Florida. It's a great escape during our long and gloomy winters!

Q: Tell us something most members would not already know about you.

A: I've gone on two separate canoe camping trips in the Okefenokee National Wildlife Refuge.

Q: What drove you to a career in HVAC?

A: My early impression of a career in HVAC was that it seemed like a good way earn a living while getting to directly apply the concepts I had just learned in Engineering school, like thermodynamics and heat transfer, to things that have a tangible impact on the world.

Q: Who is one person that influenced your career most?

A: That would have to be Jason Gilbert of Binghamton University, who was both my professor and first boss.

Q: What did you want to do when you were young?

A: When I was very young, I wanted to be a train conductor. Then, according to family, starting from when I was 9 years old I said I knew I wanted to do Engineering.

Q: What will you do when you retire?

A: Retirement plans are to grow a big vegetable garden, build out a wine cellar, and never stop learning.

If you or someone you know would like to be featured in our member spotlight, please reach out to the newsletter editor.

GOVERNMENT ADVOCACY

Open Legislation

On Monday, December 2nd, legislation to establish a maximum temperature in classrooms and indoor school facilities, passed by the New York State Senate and Assembly in June, was transmitted to Governor Kathy Hochul for her consideration. If enacted, this bill would require school boards to enact policies for, and require staff to take action, when indoor heat reaches or exceeds eighty-two degrees. In addition, rooms that reach eighty-eight degrees must be immediately evacuated. Multiple groups such as the New York State School Boards Association (NYSSBA) and the New York State School Facilities Association (NYSSFA) oppose this legislation. In summary, they find that this legislation represents a blunt instrument that will only cause a new set of problems while attempting to address another. One specific point raised by NYSSBA in their letter to Governor Hochul is that it is likely that such legislation would have a disproportionately negative impact on students of lower socio economic status. As school districts in such areas are often fiscally challenged, they are more unlikely to have the quality of facilities that would preemptively mitigate such temperatures, such as air conditioning. In such areas, it is also likely that students' households and other residences would also be disproportionately unlikely to have air conditioning or other systems that would be healthier or more comfortable than their schools. In those situations, families would also be disrupted as they would have to adjust to students being sent home with little to no warning.

What kinds of impacts, positive or negative, do you think this legislation would have on our local region and on the work that our members do?

You can find a pdf copy of the NYS Assembly Bill text here: https://legislation.nysenate.gov/pdf/bills/2023/a9011a

The Chapter is currently seeking interested members to join our Grassroots Government Advocacy Committee.
If interested in participating, please reach out to Charlie Grochowiak: cgrochowiak@rfpeck.com

Mechanical Engineer

Trautman Associates
https://buffaloashrae.org/classifieds.php?record_number=6
May 28, 2024

As a Mechanical Designer, you'll specialize in commercial projects that range from groundbreaking new constructions to transformative renovations.

1. Collaborate with multidisciplinary teams to design mechanical systems that meet client needs and exceed industry standards.
2. Prepare construction documents and conduct comprehensive energy modeling and calculations.
3. Ensure compliance with energy codes and regulations.
4. Conduct field surveys to assess existing HVAC. Plumbing and fire protection infrastructures.
5. Engage in construction administration activities.
6. Lead teams through project milestones.

What we are looking for in our next Mechanical Designer:

1. A bachelor's degree in Mechanical Engineering.
2. A minimum of 5 years of professional experience.
3. Proficiency in AutoCAD, Revit, Bluebeam, and MS Office.
4. Understanding of relevant codes and standards.
5. Ability to manage multiple projects concurrently while meeting deadlines.
6. A collaborative spirit and excellent communication skills.

If you're a motivated individual who shares our values and is seeking a fulfilling career in mechanical design, we'd love to welcome you to our team! Join us at Trautman Associates and become part of our vibrant community. Apply today and let's build a brighter future together.

Contact Information
Marisa Scroger
mscroger@trautmanassoc.com

ASHRAE PROFESSIONAL CERTIFICATIONS

Click each badge to learn more about the benefits of each ASHRAE professional certification

Building Commissioning Professional (BCxP) Certification

ASHRAE's BCxP certification program validates competency to lead, plan, coordinate and manage a commissioning team to implement commissioning processes in new and existing buildings.

Building Energy Assessment Professional (BEAP) Certification

The BEAP certification, an ANSI-Accredited Personnel Certification Program under ISO/IEC 17024 (#1139), validates competency to assess building systems and site conditions; analyze and evaluate equipment and energy usage; and recommend strategies to optimize building resource utilization.

Building Energy Modeling Professional (BEMP) Certification

The BEMP certification, an ANSI-Accredited Personnel Certification Program under ISO/IEC 17024 (#1139), validates competency to model new and existing building and systems with the full range of physics; and evaluate, select, use, calibrate and interpret the results of energy modeling software where applied to building and systems energy performance and economics.

Certified HVAC Designer (CHD) Certification

The CHD certification, managed under ISO/IEC 17024 requirements for ANSI-Accredited Personnel Certification Programs, validates competency to design HVAC systems to meet building/project requirements, including equipment, equipment sizing, load calculations, mechanical equipment room design, duct and piping design and layout, and develop HVAC plans for permit and construction.

Certified Decarbonization Professional (CDP) Certification

The CDP certification program validates competency of the decarbonization professional to do the following:

Assess, analyze, and develop effective and sustainable strategies that reduce/eliminate the life-cycle carbon footprint of new and existing buildings.

High-Performance Building Design Professional (HBDP) Certification

The HBDP certification, an ANSI-Accredited Personnel Certification Program under ISO/IEC 17024 (#1139), validates competency to design and integrate sustainable HVAC&R systems into high performing buildings.

Healthcare Facility Design Professional (HFDP) Certification

The HFDP certification validates competency to Incorporate standards and guidelines as well as unique healthcare facility requirements and design principles in HVAC system design.

Operations and Performance Management Professional (OPMP) Certification

Developed with the participation of APPA and the General Services Administration (GSA), the OPMP certification validates competency to do the following:

Manage facility operations and maintenance to achieve building performance goals, including those related to indoor environmental quality, health and safety.

WHY GET CERTIFIED?

BUFFALO CHAPTER OFFICERS AND COMMITTEE CHAIRS				
	Name	**Company**	**Phone**	**Email**
President	Nicole Smith	Cannon Design	716-774-3256	nsmith@cannondesign.com
President-Elect	Stacia Valik	Stark Tech Group	716-693-4490	valiks@starktech.com
Vice President	Elizabeth Hagerty	Cannon Design	716-774-3381	ehagerty@cannondesign.com
Secretary	Dan Arnold	JW Swanson	716-877-6900	darnold@jwswanson.com
Treasurer	Eben Piazza	Emerson-Swan	716-290-1090	epiazza@emersonswan.com
Board of Governors	John Stuber	U&S Services, Inc.	716-693-4490	stuberj@usservicesinc.com
Board of Governors	Thomas Marone	BJ Muirhead Co.	631-599-3971	tmarone@bjmuirhead.com
Historian	Rick Robinson	Retired	716-983-6292	krrjr49@outlook.com
Scholarships	Drew Nowak Nick Farina	Custom Sheetmetal Victaulic	716-614-7472 716-961-8844	anowak@mollenbergbetz.com nick.farina@victaulic.com
Awards	Rick Robinson Russ Stuber	Retired Retired	716-983-6292 716-693-4490	krrjr49@outlook.com russStuber@gmail.com
Membership	Eben Piazza	Emerson-Swan	716-290-1090	epiazza@emersonswan.com
Newsletter Editor	Joshua Mee	IPD Engineering	716-431-5719	jmee@ipdengineering.com
Refrigeration	Chris Fecio	Cannon Design	716-773-6800	cfecio@cannondesign.com
Research Promotion	Jake Muller	Stark Tech Group	716-693-4490	mullerj@starktech.com
Young Engineers	Nicole Smith	Cannon Design	716-774-3256	nsmith@cannondesign.com
Student Activities	Kirk Feeney	Trane Commercial Systems	716-449-9250	kirk.feeney@trane.com
Webmaster	Thomas Marone	BJ Muirhead Co.	631-599-3971	tmarone@bjmuirhead.com
CRC Delegate	Nicole Smith	Cannon Design	716-774-3256	nsmith@cannondesign.com
CRC Alternate	Elizabeth Hagerty	Cannon Design	716-774-3381	ehagerty@cannondesign.com
Grassroots Government Advocacy	Charlie Grochowiak	RF Peck	716-276-8933	cgrochowiak@rfpeck.com
Sustainability	Krista Wayne	Cannon Design	716-774-3459	kwayne@cannondesign.com
Woman in ASHRAE	Nicole Smith Elizabeth Hagerty	Cannon Design	716-774-3256 716-774-3381	nsmith@cannondesign.com ehagerty@cannondesign.com
Diversity, Equity and Inclusion	Nicole Smith	Cannon Design	716-774-3256	nsmith@cannondesign.com

BOARD OF GOVERNORS MEETING MINUTES

Attendees: Virtual

1. President:
   a. Yearly Goals:
      - Focus on community engagement
      - Educate K-12, colleges and trade schools about the different job opportunities there are within the built industry
      - There are two videos linked in the POAE guide above that everyone on the board needs to watch – once you watch please let Nicole know
      - Have a combined event with Toronto or Mumbai
      - When we have a first-time attendee at a meeting all exec board members who are present should meet and greet new member
      - Track who attends the society level meetings
   b. November Topics:
      - Curtiss Hotel will be the location again for our holiday party
      - First WIA event will be hosted next week Tuesday at Lucky Day – would love to see a big turnout!
      - Working with City Mission to set up a putt putt course volunteer event
      - Student activities and YEA event
      - Look into insurance for holding events
      - StarChapter upping their monthly to $145
   c. December Topics:
      - Skipped in person meeting
      - Sold out Holiday party at Curtiss Hotel
      - Need to add to the invite next year that we no longer do a bring one receive one bottle exchange
      - WIA first event was a huge success we even had attendees from the Syracuse chapter come in
      - Student activities and YEA event to be in February
2. President Elect (CTTC):
   a. Yearly Goals:
      - Make sure the monthly meetings are cost effective for ASHRAE to help turn a profit.
      - Increase annual attendance at meetings by least 10%.
   b. Monthly Topics:
3. Vice-President:
   a. Yearly Goals:
      - Create a schedule for all posts and email correspondence so we have consistent messaging.
      - Earn at least 150 PAOE points through the social meeting posting options.
      - Plan a cheaper holiday party.
   b. Monthly Topics:
      - 120 PAOE points currently.
      - Emails are scheduled so if you want something to go out talk with Lizzie prior so we don't have any accidental duplication of invites.
      - Linkedin growth idea.
4. Secretary:
   a. Yearly Goals:
      - Create notes from BOG monthly meetings.
      - Document what each exec board member's responsibilities are.
   b. Monthly Topics:
5. Treasurer:
   a. Yearly Goals:
      - Spend less money and raise more money.
      - Get bank account back to level of comfort.

b. Monthly Topics:
   - Bank account is in great standings. We have since September increased the account by over $3,000 which will help with our RP goals.

6. Historian:
   a. Yearly Goals:
      - Identify and document greatly influential DEI person.
      - Digitizing complete chapter historical archives.
      - Chair or Co-chair serves 2 or more years.
      - Member of a committee other than chair.
      - 5-year history of chapter/person/system standard.
      - Historical display of CRC.
      - Chapter timeline.
      - History program with minimum 5-minute speaker.
      - Interview fellow or life member (once/5 years).
      - Personally inviting life member to a meeting.
      - Articles on chap, co, mbr (+5 pts ea special pubs).
   b. Monthly Topics:
      - Rick and Nicole moving forward with history museum.

7. Scholarships:
   a. Yearly Goals:
      - Make sure that the scholarship is well advertised.
      - Have a new recipient for the scholarship this year.
      - Grow the account the same amount that we give away each year so that it can be a continuous gift to the community.
   b. Monthly Topics:
      - Scholarship should be more publicized
      - $2,000-$4,000 a semester
      - Made donations to schools in the past for labs
      - No scholarship students
      - Around since 1986

8. Awards:
   a. Yearly Goals:
      - Verify who qualifies for awards, gather information needed to fill out the application and give out as many awards as possible for our chapter's members this year.
   b. Monthly Topics:
      - Rick will get list of who will possibly could win an award

9. Membership:
   a. Yearly Goals:
      - Get membership to 210 members.
      - Host a membership appreciation event.
      - Look into when our membership amount ticks into being more expensive.
   b. Monthly Topics:
      - 199 members, which is down a few. We added 1 new student member and 1 new full member. 25 unpaid or delinquent members (below).
      - Did not get confirmation if we can make the January golf event a membership event. – Event is confirmed more information to follow

10. Newsletter:
    a. Yearly Goals:
       - Issue minimum of 9 newsletters, each newsletter in advance of the monthly meeting (3/9).
       - Increase newsletter sponsors (currently zero).

b. Monthly Topics:
   - November and December newsletters went out
   - Anyone have anything interesting or upcoming events that should be advertised to membership?

Refrigeration:

a. Yearly Goals:
   - Take the chapter on a visit to a local building with a refrigeration system to obtain points under CT27. This will be a minimum 30-minute walkthrough with presentation from equipment rep or manufacturer in the mechanical equipment room. Currently looking at Key Bank Center.

b. Monthly Topics:
   - Reach out to Pat McParlane to start planning refrigeration event

11. Research and Promotion:
    a. Yearly Goals:
       - Make high five status.
       - Sell all the squares for the Superbowl squares and adjust payouts to be more profitable for ASHRAE.
       - Figure out a second way to raise money for research and promotion.
    b. Monthly Topics:
       - Confirmed the RP goal for 2024-25 is $10,400.
       - Waiting to confirm what scholarship goal is, likely $150, which I usually cover as my Full Circle contribution. Will confirm when this is done.
       - PAOE opportunities
         - Full Circle – Minimum $100 donation by each Chapter officer and RP chair by 11/15/24 – 100 points
         - 30% of goal ($3,120) achieved by 12/1/24 – 100 points
         - 60% of goal ($6,240) achieved by 3/31/25 – 100 points
         - 100% of goal ($10,400) achieved by 6/15/25 – 500 points
         - Scholarship goal achieved by 3/31/25 – 50 points
         - RP chair succession plan submitted by 4/1/24 – 50 points
       - Super Bowl Pool will be sent out prior to Holiday Party
       - Voted in November meeting to not send donation for the 30% goal deadline on 12/1/2024 we are hoping to send 60% donation goal by 3/31/2025
       - We did achieve full circle donation by exec board and RP chair

12. YEA:
    a. Yearly Goals:
       - Host two YEA events one in the fall and one in the spring. Fall event will be a volunteer day. Spring event will be a tour of the new Bills stadium for 10 YEA members.
       - Work with SA to host events at local k-12 schools, trade schools and universities to educate about our industry.
    b. Monthly Topics:
       - Start planning an event with SA.

13. Student Activities:
    a. Yearly Goals:
       - Engineering / contractor firm Intern student networking event.
         - Q/A, discussion and coaching next generation.
         - Exposure to different people and roles within our local industry.
       - Grow presence and involvement at UB student chapter in local activities.
         - Meet with SBA, investigate design competition for Spring.
         - Find out who is currently teaching energy systems / heat transfer / fluid mechanics / thermo.
         - Present to these students about what ASHRAE is and general local industry opportunities and career paths and how ASHRAE can be a great organization to be involved with.
         - Track PAOE points and plan activities to reach par for student activities PAOE points.
    b. Monthly Topics:

14. Webmaster:
    a. Yearly Goals:
        - Work to get sponsors for the website.
        - Update the website for the year to have the correct people in their positions.
    b. Monthly Topics:
        - Starting in January we will be rolling out our new website sponsorship opportunity.
15. Grassroots and Advocacy:
    a. Yearly Goals:
        - Have our Engineering community get involved with writing grants for local projects.
        - Increase chapter literacy regarding local, state, and federal tax incentives for both Designers and Building owners.
    b. Monthly Topics:
        - Looking to plan an activity or at least some kind of action to commemorate or promote National Engineers' Week (Feb 16-22 in 2025). Hopefully, this can be coordinated to earn PAOE points with another committee in addition to GGA.
        - Charlie to look into event we used to participate in at the Buffalo Science museum during engineers week.
16. Sustainability:
    a. Yearly Goals:
        - Create a sustainability committee before December 2024 (CO5 – create a committee).
        - One sustainability focused lunch and learn (CO5 –hold 2 events, this could count as 1 of those events). Second half of AHSRAE year.
        - Invite ASHRAE to Cannon's EA Tradeshow to count as a sustainability event for the chapter (CO5 –hold 2 events, this could count as 1 of those events). Oct 16th, 2024.
        - Help create a sustainability focused trade show at the May meeting.
    b. Monthly Topics:
17. WIA:
    a. Yearly Goals:
        - Host events where women and advocates (those who don't identify at a female) can attend to have a safe space to discuss what it is like to be a female in a male dominated world.
        - Host multiple volunteer events to support women in our community.
        - Create a book club that will read books about the struggles that women encounter in the workplace.
        - Make sure it is well known that this group is open to ALL females and advocates within the built industry this includes administrative staff.
    b. Monthly Topics:
        - Meeting topic ideas: Floral arrangement get together, Book club meetings (meet at local book stores), Murder Mystery Dinner, Free first and second Fridays at Art museum
18. DEI:
    a. Yearly Goals:
        - Create a local chapter that feels inclusive to everyone.
        - Visit local schools of all ages to promote our industry.
        - Have a 5-minute presentation for DE&I at a minimum of one monthly meeting.
        - Host multiple community engagement events throughout the year.
    b. Monthly Topics:
        - Start looking into schools to target to speak at
        - Work with BEAM
19. Next Meeting: January 8, 2024.