



HISTORICAL COMMITTEE

Minutes

June 9, 2020

ASHRAE Virtual Conference

<u>Introduction of Members and Visitors:</u> Voting Members present Stan Westhoff, Chair Dean Borges, Vice Chair Niss Feiner Spencer Morasch Bern Nagengast Glenn Remington Branko Todorovic <u>Region Historians Present</u> Tom Pollard, Region II Hans Cromer, Region ? Dean Borges, Region X Drew Godfrey, Region VII Gary Cooper, Region IX John Davant, Region XII KC Ng, Region XIII Alkis Triantafyllopoulos, Region XIV Atilla Biyikoglu, Region at Large	<u>Guests:</u> Nadia Ali David Arnold Bruce Flaniken Jeff Haberl Julie Harr Cindy Michaels Randy Schrecengost <u>Staff present:</u> Joslyn Ratcliff Emily Sigman, staff liaison to Historical <u>BOD Ex-Officio:</u> Ahmed Alaa El Din, BOD Ex-Officio <u>Coordinating Officer:</u> Farooq Mehboob (2019-2020)
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Call to Order:

Mr. Westhoff called the meeting to order at 10:00 am.

Code of Ethics:

Mr. Westhoff read the Code of Ethics:

In this and all other ASHRAE meetings, we will act with honesty, fairness, courtesy, competence, integrity and respect for others, and we shall avoid all real or perceived conflicts of interests. (See full Code of Ethics: <https://www.ashrae.org/about-ashrae/ashrae-code-of-ethics>.)

Review of Agenda:

The agenda was reviewed and accepted.

Approval of Minutes:

Mrs. Sigman provided a draft copy of the minutes of the Historical Committee's meeting in Orlando to the committee for review via Basecamp.

Motion 1: It was moved that the minutes of the meeting of February 4, 2020 be approved. Mr. Nagengast moved; Mr. Feiner seconded. Approved. 7-0-0 CV

BOD Ex-O Presentation: (Attachment A)

Dr. Alaa as BOD Ex-Officio, presented a slide show of the Society's activities over the past year.

Report on Projects for 125th Anniversary: (Attachment B)

Mr. Nagengast made a complete report on the status of the various projects for the 125th Anniversary. He stated that all projects are complete with the exception of Dr. Arnold's book which was promoted during the virtual conference and is scheduled to be published summer of 2020.

Dr. Arnold was most complimentary of staff and their support and assistance in getting the book to press.

Mr. Todorovic mentioned the need for a book or document concerning the history of air conditioning and humidity.

Mr. Nagengast asked if he would be willing to write it

Mr. Todorovic said that he would.

Mr. Nagengast continued his review of his report. In summary, he stated that a lot more papers for ASHRAE Journal had been received than expected. He said that the timeline project had been postponed. Note: since the meeting took place the timeline which was published to [ashrae.org](https://www.ashrae.org/about/mission-and-vision/ashrae-industry-history#timeline) in early July 2020. <https://www.ashrae.org/about/mission-and-vision/ashrae-industry-history#timeline>

Mr. Westhoff asked about the historical markers or plaques and if there would be funding for them.

Mr. Nagengast stated that they should be self-funded and suggested that the Regions promote them.

Mr. Borges mentioned a scarf that was sold in Orlando.

Mr. Nagengast said that was a good example of a chapter's ingenuity.

Leadership Voices, Lou Flagg Award, Hall of Fame and Pioneers of the Industry

Mr. Westhoff then asked Mr. Morasch to discuss Leadership Voices and other Honors and Awards.

Mr. Morasch said that plans to videotape Presidential members Bjarne Olesen and Sheila Hayter had been put on hold due to the pandemic, but he hoped they could be scheduled and filmed during the Austin conference in 2021. He then mentioned that nominations for the Lou Flagg award were due by

December 1. He also stated that the Hall of Fame is handled by the Honor and Awards Committee. The decision for that award is made by the Honors and Awards Committee, but nominations can come from anyone including the Historical committee or individuals as long as the proposed candidate met the criteria and that there was enough supporting documentation.

Mr. Feiner provided an update on the nominations he had made for Hall of Fame. He stated that Hugh Barron and William McKay might still be considered, but that his nomination for Louis Hart had been rejected. He spoke to Honors and Awards committee and they told him the strength of his documentation was part of the reason. **Note:** since our meeting, Mr. Feiner has received notice that the application for both Hugh Barron and William MacKay for ASHRAE Hall of Fame were accepted.

Mr. Morasch stated that no more than two Hall of Fame candidates are selected per year, but suggested the Mr. Feiner resubmit Mr. Hart's name.

Mr. Nagengast told Mr. Morasch that another similar award is Pioneers of the Industry which had not been mentioned. Those nominations can also come from an individual or a committee.

Mr. Feiner asked if candidates can be chosen from as long ago as the Roman Empire or earlier.

Mr. Nagengast said yes, the main issue could be getting enough documentation. He also wanted to encourage international Regional Historians to nominate candidates from their areas.

MBOs: (Attachment C)

Mr. Westhoff reviewed his MBOs. With the exception of those that are and will continue to be ongoing, he had completed all of them.

PAOE: (Attachment D)

At the beginning of this meeting, but reported here:

Mr. Borges asked if President-Elect Chuck Gulledge had made any comments or final decisions regarding PAOE.

Mr. Schrecengost answered Mr. Borges and let the committee know that there had been a lot of modifications to line items in various categories. He changed some point values. His main goal was to consolidate. He added a 2020-21 Presidential Initiatives Master List.

The remainder of this discussion took place later and follows here:

Mr. Borges reviewed his report of chapter and region PAOE activity. He stated that many Regions are active in their reporting of PAOE points.

Mr. Feiner asked if he had to compile the figures and Mr. Borges told him yes.

Mr. Westhoff said the committee needs to figure out a better way to disseminate information to the RVCs.

Mr. Borges mentioned the contest that Pam Immekus used to have for the chapters in her region when she was Historian for Region IV. She would ask each chapter to present their history in some fashion whether it was a video, a presentation, or displays – whatever worked best – at the CRC. The winner received a \$100 gift card.

Mr. Nagengast asked if the historical newsletter would be reactivated. It was a useful tool to encourage the RVCs, Regions, and Chapters in collecting and preserving their histories.

Mr. Westhoff agreed it was a good idea.

Mr. Borges asked why the newsletter had ceased publication.

Mr. Nagengast said that it was created by a committee member as part of a subcommittee but once he no longer was writing it, it fell off.

Mr. Borges liked the idea and hoped to resurrect it.

Mr. Borges responded to a question asking if the training PowerPoint was available and said it had been posted.

Library and Archives

The discussion segued to how best to care for and store historical data and artifacts.

Mr. Remington volunteered to put together a literature review and send an email asking what people need. He will put together a summary review.

Dr. Haberl said that TC 4.7 has historical information on simulation

Mr. Remington wants peer support. He wants the focus to be on how our volunteers can manage materials.

Mr. Feiner expressed strong support for the use of climate-controlled storage. He asked if there was any way to add a request for donations on the member application.

Mr. Morasch stated that was a great idea.

Dr. Haberl mentioned the extensive vault in use by the University of Texas and suggested that ASHRAE could contact them and ask if they could store the ASHRAE archives.

Mr. Nagengast reminded the committee that if you give your materials to someone else to store you run the risk of losing them.

Mrs. Sigman stated that Carrier had closed their library about 20 years ago and the collection was disposed of.

Mr. Cooper asked if there was a limit on storage in Basecamp, as an accessible electronic alternative.

Mrs. Ratcliff confirmed that there were no space limitations in Basecamp.

Mr. Remington asked if there was a software platform in place

Mr. Cooper said that could be a future discussion. The Committee should help chapters and regions to find and identify their historical materials and to provide guidance on how to scan and store the information.

Mr. Nagengast reminded everyone that the Historians Handbook contains a lot of useful information about how to manage and store historical and archival information.

Mr. Cooper said that would be a good guideline. He asked if the storage in Basecamp can be structured.

Mr. Westhoff requested Mr. Remington to explore the topic and make recommendations on what he finds.

Mr. Remington said he would be happy to take that on.

Dr. Haberl offered to give assistance.

Transition of Vice Chair to Chair

Mr. Westhoff formally recognized Mr. Borges as the new chair and Mr. Morasch as the new vice-chair of the committee.

Mr. Borges reviewed his years at ASHRAE and the positions he has filled as a volunteer, including all chapter positions, many region activities including DRC of Region 10, 1996-1999. He has served on Technology Council and standards committees. He firmly believes that preserving and advancing history is an important endeavor.

MBOs 2020-21: (Attachment E)

He then reviewed his MBOs.

Subcommittee Assignments: (Attachment F)

One issue he saw was the need to re-establish the communications subcommittee. He would like to know how many chapters were celebrating milestone anniversaries. And he would like to see the Historians newsletter re-established.

Both Dr. Haberl and Mr. Cooper volunteered to help with the administrative/archives subcommittee.

Mr. Nagengast welcomed new committee member, Atilla Biyikoglu.

Mr. Cooper talked about how Region IX has been reducing the number of workshops in order to reduce costs. They have surveyed everyone to see if that has been successful. He said the CRC may be a blend of workshops and meetings.

Mr. Todorovic committed to preparing a UNESCO proposal. He stated that he hoped we could all meet again in January.

Mr. Borges thanked everyone for attending virtually. He expressed the hope that the weather will be good and the virus go away by the time of the winter conference.

Mr. Westhoff expressed his thanks to everyone and in particular to Mr. Nagengast for his tireless and successful efforts in managing the 125th celebration projects.

Mr. Nagengast said it never could have happened without the people who worked on the various projects.

Dr. Haberl mentioned that he had uncovered about six new early building simulation programs.

Dr. Alaa said he hope the experience of using Go to Meeting which allowed Region Historians to attend the Historical Committee meeting virtually would be used regularly in meetings.

Mr. Ng stated that the Region XIII CRC would be held virtually.

Dr. Alaa agreed and said that many CRCs this year would be virtual.

Mr. Ng asked for guidance on how to prepare for a virtual CRC.

Mr. Flaniken suggested that he contact Jon Symko.

Mr. Schrecengost said he had attended a virtual CRC and suggested Mr. Ng contact him and he would give him guidance.

Mr. Borges stated the Region X CRC would also be virtual.

Mrs. Sigman announced that she was retiring at the end of the year.

Adjournment:

It was moved that the meeting be adjourned. Mr. Borges moved; Mr. Feiner seconded. Approved 6-0-0
CV

Mr. Westhoff adjourned the meeting at 12:08 PM.

ASHRAE 2020 **Virtual Conference** ►

ASHRAE UPDATE

ExO Report to Committees

ASHRAE 2020 Virtual Conference



CELEBRATING
125
YEARS

In this and all other ASHRAE meetings...

Code of Ethics

“We will act with honesty, fairness, courtesy, competence, inclusiveness and respect for others, which exemplify our core values of excellence, commitment, integrity, collaboration, volunteerism and diversity, and we shall avoid all real or perceived conflicts of interest.”



Upcoming Conferences



2020 Virtual Conference | June 29-July 2, 2020

- 90+ sessions covering trends and technology in the HVACR industry
- Leadership presentations and addresses
- Virtual social events and professional development
- **Registration is open now! Visit ashrae.org/2020virtual**



2021 Winter Conference & AHR Expo in Chicago, IL | Jan. 23-27, 2021

- Over 100 sessions and topics presented by over 300 speakers
- The world's largest HVACR show
- Social events, tours and professional development
- **Registration opens September 2020, visit ashrae.org/chicago**

Please visit ashrae.org/conferences for the latest updates on these and other conferences

The recent pandemic may have an impact on these events

Upcoming Topical Conferences



2020 Building Performance Analysis Conference & SimBuild Co-organized by ASHRAE and IBPSA-USA | September 29- October 1, 2020 | Virtual

- Registration is open now! Visit ashrae.org/BuildPerform2020

The Fourth International Conference on Efficient Building Design | Postponed to 2021 | Beirut, Lebanon

- Visit ashrae.org/Beirut



IAQ 2020: Indoor Environmental Quality Performance Approaches | Postponed to 2021 | Athens, Greece

- Visit ashrae.org/IAQ2020



Ventilation 2021: 13th International Industrial Ventilation Conference for Contaminant Control | August 15-18, 2021 | Toronto, Canada

- Visit ashrae.org/Ventilation2021

Please visit ashrae.org/conferences for the latest updates on these and other conferences

The recent pandemic may have an impact on these events

Leadership Moments



Leadership Moments taking place at the 2020 Virtual Conference
June 29 – July 2 at 12:30pm

Monday, June 29

State of the Society/Farewell Address
2019-20 ASHRAE President Darryl K. Boyce, P.Eng.

Tuesday, June 30

Secretary's Report
ASHRAE Executive Vice President Jeff Littleton

Wednesday, July 1

ASHRAE Board Recognition

Thursday, July 2

ASHRAE's Vision For the Future
The ASHRAE Digital Lighthouse and Industry 4.0.
2020-21 ASHRAE President Chuck Gulledge, P.E.

Learn more at ashrae.org/2020virtual



Nominations Needed NOW!

- Nominations for appointed standing committees are sought annually
- Speak with your committee ExO if your current appointment ends **June 2021** and you wish to be nominated for another committee Society Year 2021-22
- Self-nomination is also encouraged
- Nominations are due by **mid-February 2021**
- Councils are elected by the Board of Directors, but nominations are welcome
- Council, RAC, TAC, Standards and Handbook nominations are due **mid-September 2020**



For more information, visit: ashrae.org/committee-nominations



ASHRAE Commercialism Policy

ASHRAE's Commercialism Policy allows for Society activities that fulfill the mission of technological advancement with adherence to business plans that generate income to offset operational expenses such as AHR Exposition, ASHRAE periodicals, website, and Society conference events such as the Welcome Party, luncheons, registration kits, and receptions.

Principles for Managing Advertising and Sponsorships

Content should be labeled as advertising or sponsored.

Use of commercial names and logos shall not imply ASHRAE endorsement, approval or certification of products or services.

The inclusion of commercial information shall be fair and unbiased so as to avoid explicit promotion of a product or commercial entity.

Content shall adhere to accepted business practices specified by the U.S. Federal Trade Commission and recognized publishing authorities.

Activities including events at chapter meetings shall be managed to prevent an atmosphere in which commercial entities are encouraged to critique one another in the public forum.

ashrae.org/commercialism



Sexual Harassment

The Society takes Sexual Harassment seriously and does not condone it.

Every employee is given our policy in the Employee Handbook and all members can read our policy here:

<https://www.ashrae.org/about/governance/ashrae-discrimination-and-harassment-policy>

All instances of harassment must immediately be reported in writing to ASHRAE's Executive Vice President.

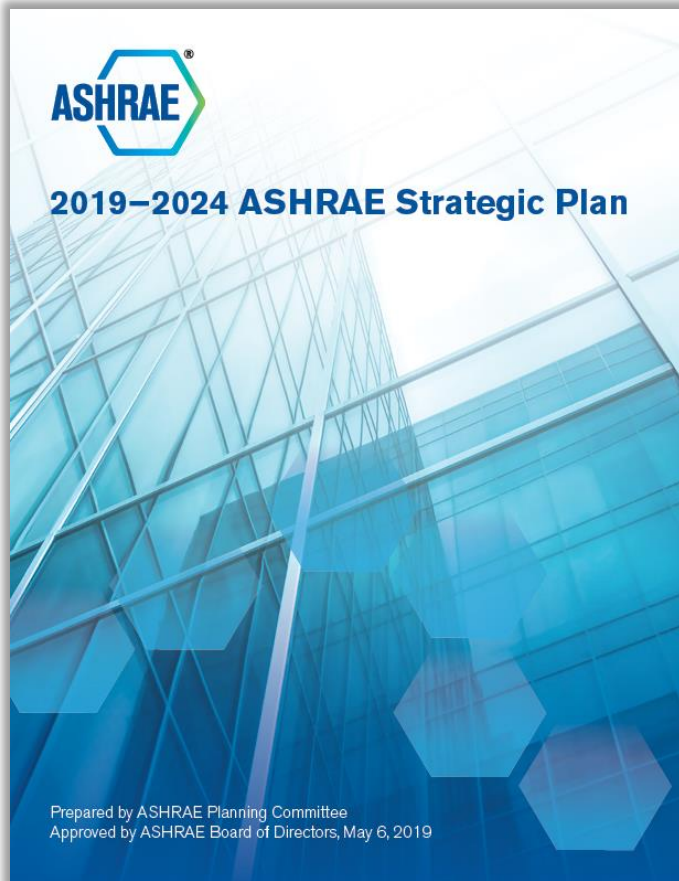
Any member found to have violated this policy will be subject to disciplinary action, up to and including expulsion from membership in accordance with the Code of Ethics Enforcement Procedures and ASHRAE's Bylaws.

ASHRAE is committed to educating members to eliminate all instances of sexual harassment. The Society will soon deploy an online training program to Society volunteers to help educate and protect all members, and to sustain the professional environment members deserve and expect.

This training will be a requirement prior to serving on certain standing committee and/or leadership position.

Please contact hr@ashrae.org to arrange to take the training before assuming a leadership position.

2019-2024 ASHRAE Strategic Plan



Mission

To serve humanity by advancing the arts and sciences of heating, ventilation, air conditioning, refrigeration and their allied fields.

Vision

A healthy and sustainable built environment for all.

Strategic Plan Resources available ashrae.org/strategicplan

- Full **2019–2024 Strategic Plan** in PDF format
- Quick and Simple **Strategic Plan At-a-Glance** in PDF format
- **Strategic Plan Presentations**
 - 2019–2024 ASHRAE Strategic Plan Overview PPT
 - Recordings of *Kansas City Seminar 27: The ASHRAE 2019-2024 Strategic Plan: What and Why* in MP4 format

ASHRAE Vision 2030 and Beyond: Buildings of the Future

The *ASHRAE Vision 2030 And Beyond – Buildings of the Future Presidential Ad Hoc Committee* is being established to position ASHRAE and its members to lead the evolution of buildings during this period of accelerated change.

- Will build and expand upon the ASHRAE report released in June of 2007 *ASHRAE Vision 2020: Producing Net Zero Energy Buildings*.
- Launched jointly by 2019-20 ASHRAE President Darryl Boyce and 2019-20 ASHRAE President-Elect Chuck Gullett.
- Charged with defining how buildings of the future will be designed and built, what future buildings will look like, and how they will be operated.
- The Ad Hoc Committee should provide an interim report during the Chicago Winter Conference in January 2021 and a final report during the June 2021 Annual Meeting in Phoenix.



Government Affairs

The mission of ASHRAE's Government Affairs office is to establish ASHRAE as a leading source for expertise in the built environment and a resource for policy-makers in the development of legislation and regulations affecting the public, the HVAC&R community and the engineering profession.

Activities include:

- Coordination of **Semi-Annual Senior Leadership Meetings** in Washington, DC.
 - Government agencies, elected officials, aligned organizations
- **Government Outreach Days** planning and support
 - Connecting ASHRAE volunteer members with their elected officials and policy makers
- **Congressional Briefings & Testimony + Regulatory Meetings/Hearings/Comments**
 - FEMA-DRRA Guidance
 - U.S. Senate Committee on Environmental and Public Works – HFC Phasedown Legislation
 - Congressional Clean Energy Expo and Policy Forum
 - U.S. House Committee on Energy and Commerce – Climate Legislation
- **Letters** related to **GAC Public Policy Priorities**
 - Workforce development, resiliency and disaster recovery, infrastructure, DOE/EERE, Energy STAR and energy tax extenders



ashrae.org/government-affairs



Government Affairs: Member-led Government Outreach Events

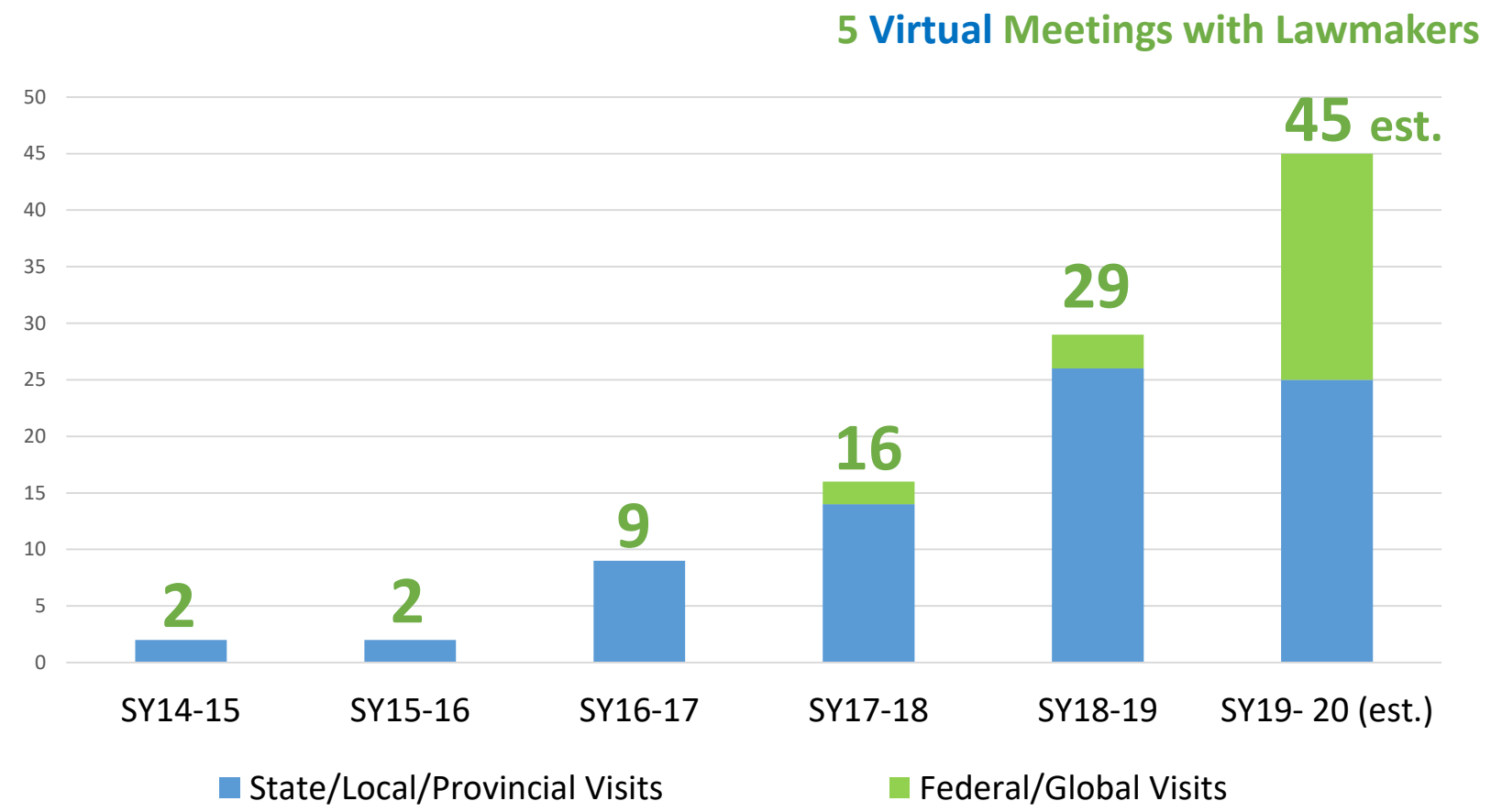


115+ Member Participants 

130+ Meetings 

ashrae.org/advocacytoolkit

All ASHRAE Members are invited to participate – Get Involved!



Signed Memoranda of Understanding



- American Chemistry Council (ACC)



- APPA: Leadership in Educational Facilities (APPA)



- International Facility Management Association (IFMA)



- National Environmental Balancing Bureau (NEBB)



- National Institute of Standards and Technology – U.S. Depart of Commerce (NIST)



- Smart Cities Council



- United Nations Environment Programme (UNEP)

For more information, visit:
ashrae.org/mous



ASHRAE Epidemic Task Force

The primary role of the task force is to maintain communication with members, industry partners, building owners, facility operators, government agencies and the general public.

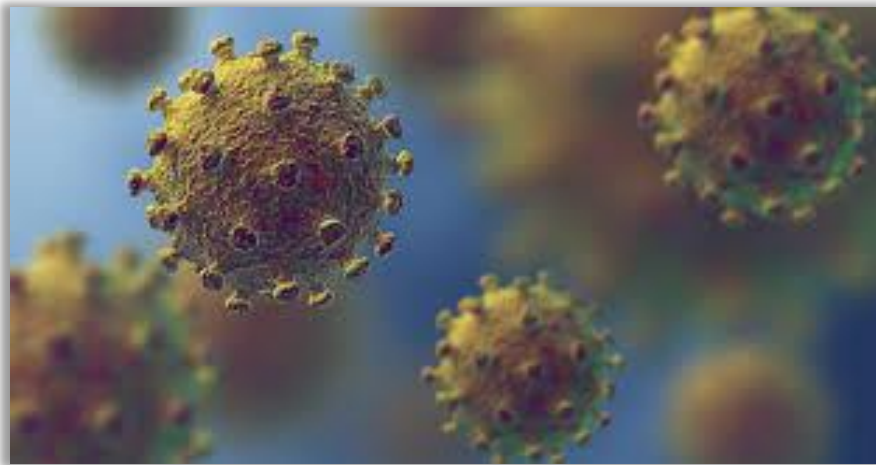
- Respond to the current COVID-19 pandemic
 - ✓ Immediate – guidance for immediate implementation (focus on healthcare capacity and emergency operations of other buildings)
 - ✓ Near-term - guidance to prepare for a possible second wave
- Develop resources to mitigate the effects of future epidemics
- Leverage ASHRAE resources to maximize responsiveness

Technical inquiries emailed to
COVID-19@ashrae.org
5-10 technical inquiries/day answered by
Task Force members

ASHRAE Epidemic Task Force

The ASHRAE Epidemic Task Force has been established to help deploy ASHRAE's technical resources to address the challenges of the current pandemic and future epidemics as it relates to the effects of heating, ventilation, and air-conditioning systems on disease transmission in healthcare facilities, the workplace, home, public and recreational environments. The task force will also provide recommendations for setting up temporary field hospitals in convention centers, arenas and indoor stadia to deal with surges.

The Epidemic Task Force's Media Presence



- Close to **20** media interviews
- More than **225,000** visitors to **ashrae.org/COVID19**
- More than **100** media placements
- Over **556,474,545** media impressions*

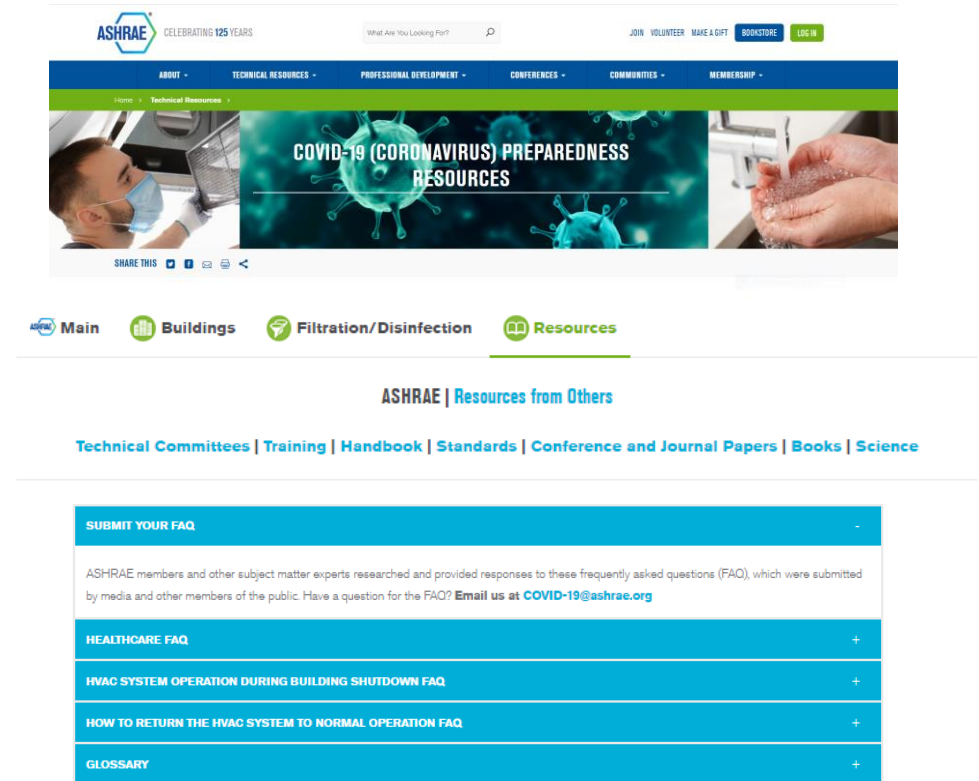
**Total number of times a piece of media content is viewed; total exposure*

ashrae.org/COVID19

COVID-19 Preparedness Resources

- Buildings and Schools Reopening Guidance
- FAQs
- Free ASHRAE Resources
 - ✓ ASHRAE training
 - ✓ Handbooks
 - ✓ Standards
 - ✓ Research papers
 - ✓ Seminars
 - ✓ Press coverage

**ASHRAE BOD approved Statements, Position Document on
Infectious Aerosols
Environmental Health Committee's Emerging Issue Brief
*Pandemic COVID-19 & Airborne Transmission***



ashrae.org/COVID19



ASHRAE New Global HQ



- Renovation kick-off Jan. 10, 2020
- Construction is on schedule
- Showcases a net-zero-energy ready building
- Demonstrates the latest HVAC&R equipment and technology
- Move expected by October 2020

180 Technology Parkway
Peachtree Corners, GA



Design team members were chosen based on an RFP, competitive bids and committee interviews.

The design team includes: **McLennan Design, Houser Walker Architecture and Integral Group.**

Project Management: **Darden Company** (*formerly known as Collins Project Management*)

Construction Manager at Risk: **Skanska**

Commissioning Agent: **Epsten Group**



For more information, visit:
ashrae.org/newhq

New HQ Building Campaign

THANK YOU!

Campaign to Date: May 2020

Total Raised: \$10.5M+

- All Cash and Pledges: \$6,471,700
- Gifts of Equipment & Services: \$4,043,088 (List Value)

Breakdown:

- Largest Gift: \$5,000,000 – NIBE
- ASHRAE Foundation: \$300,000
- Members: \$173,475
- Corporate Donors: 28 have participated!
- **\$3,000,000+ Still to Go!**
- Support of this Critical Project is Still Needed from Members and Industry Partners



**180 Technology Parkway
Peachtree Corners, GA**

**For more information, visit: ashrae.org/newhq
To donate, visit: ashrae.org/buildingcampaign**

New HQ Building Campaign



180 Technology Parkway
Peachtree Corners, GA

ASHRAE Members Rock!

- **ASHRAE Volunteers** have played an integral role:
 - Development Committee, Building Ad-Hoc Committee, Technical Advisory Subcommittee
- **Key Leadership** who have visited prospects with staff:
 - Darryl Boyce, Chuck Gulledge, Tom Phoenix, Dennis Knight, Ginger Scoggins, Don Brandt, Tim McGinn, Dennis Wessel, and Jeff Littleton

THANK YOU!

For more information, visit: ashrae.org/newhq
To donate, visit: ashrae.org/buildingcampaign

ASHRAE Resources

ASHRAE Technology Portal	Your one-stop location for ASHRAE papers, articles, reports, Handbook PDFs, and seminar recordings.	ashrae.org/technology-portal
Online Standards Database	Allows access to public review drafts for standards, guidelines, and addenda to submit comments, to do online balloting, and to submit proposals to standards and guidelines.	ashrae.org/publicreviews
Zero Energy Advanced Energy Design Guides	For offices and K-12 schools are available for free download. Multifamily AEDG available Summer 2020.	ashrae.org/freeaedg
Science and Technology For the Built Environment	Provides free online access to ASHRAE's archival research publication offering comprehensive reporting of original research.	ashrae.org/technical-resources/science-and-technology-for-the-built-environment
ASHRAE Technical Apps	Deliver mobile design, calculation, and analysis tools to the palm of your hand.	ashrae.org/technical-resources/technical-apps
ASHRAE's Free Resources	Offer downloads of a variety of well-known resources to everyone.	ashrae.org/technical-resources/free-resources

Selected Recent Publications

- Standards 62.1-2019, 62.2-2019, Standard 90.4-2019, and Standard 147-2019
- Guideline 41-2020, *Design, Installation and Commissioning of Variable Refrigerant Flow (VRF) Systems*
- *Smart Grid Application Guide: Integrating Facilities with the Electric Grid*
- *ASHRAE Position Document on Infectious Aerosols*
- *High-Performance Buildings Simplified*
- *Air-Conditioning System Design Manual*, 3rd ed.
- 125th Anniversary: *Proclaiming the Truth*, 2nd ed.; *Adventures in Heat & Cold*
- *Damp Buildings, Human Health, and HVAC Design* (MTG report)
- *ASHRAE Position Document on Energy Efficiency in Buildings*
- Guideline 12-2020, *Minimizing the Risk of Legionellosis Associated with Building Water Systems*



ashrae.org/bookstore

ASHRAE
CELEBRATING
125
YEARS

Upcoming Publications

Spring 2020

- *ASHRAE Design Guide for Low- to Mid-Rise Multifamily Residential Buildings*
- *ASHRAE Design Guide for Tall, Supertall, and Megatall Building Systems*, 2nd ed.

Summer 2020

- *20th Century Air Conditioning*
- *HVAC Fast Facts I-P*
- *Advanced Energy Design Guide for Multifamily Buildings: Achieving Zero Energy*
- Spanish translation: *ASHRAE Design Guide for DOAS*
- *A Practitioner's Guide to Engineering Management*

Fall 2020

- *Designing for Operational Excellence*
- *Duct Systems Design Guide*
- *ASHRAE Guide for Hazardous Spaces*
- *Design Guide for Combustion Turbine Inlet Air Cooling Systems*, 2nd ed.
- *ASHRAE/REHVA Guidebook Towards Zero Energy Hospital Buildings*
- *ASHRAE Design Guide for Natural Ventilation*



ASHRAE Learning Institute (ALI)

New & Updated Courses offered in the 2020 Online Course Series

- Air-to-Air Energy Recovery Applications: Best Practices
- Designing and Operating High-Performing Healthcare HVAC Systems
- Designing for Cold Climates
- Guideline 36: Best in Class HVAC Control Sequences
- Laboratory Exhaust Stacks: Safe and Energy-Efficient Design
- Principles of Building Commissioning: ASHRAE Guideline 0 and Standard 202
- Reducing Infectious Disease Transmission with UVGI (*1 hr*)
- Save 40% by Complying with Standard 90.1-2019
- V in HVAC – What, Why, Where, How, and How Much

ashrae.org/education

ASHRAE Certification

NEW! Digital Badging

- Embedded metadata uniquely linked to certificants
- Shareable in electronic media, including LinkedIn
- Over 7,000 badge views

NEW! Certified HVAC Designer (CHD) Study Guide Launching July 2020

COMING SOON! Remotely Proctored Examination

- Conveniently sit for an exam from your home or office
- Online proctoring is as secure as physical test centers, and the quality of the exam remains the same

More details will be made available in July 2020



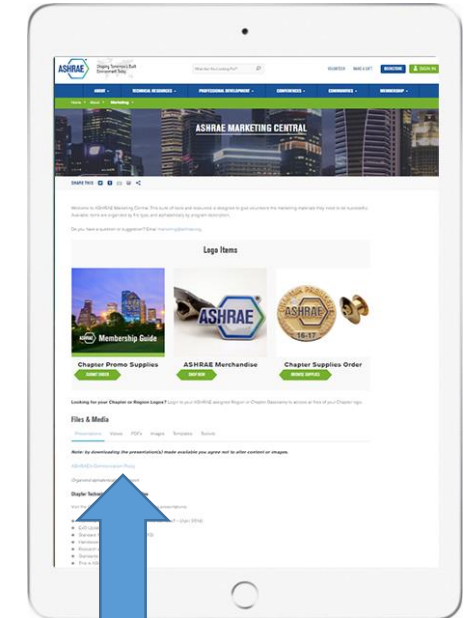
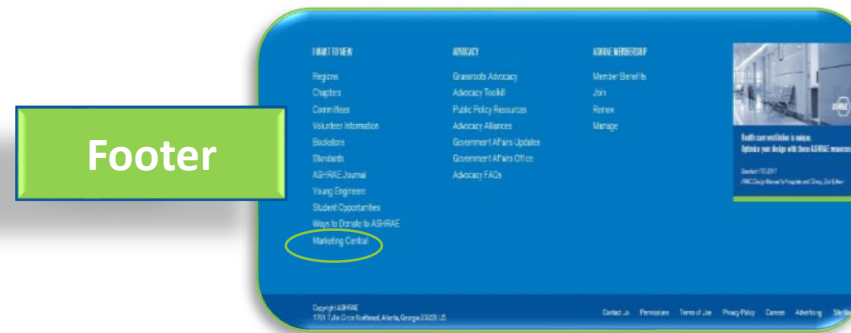
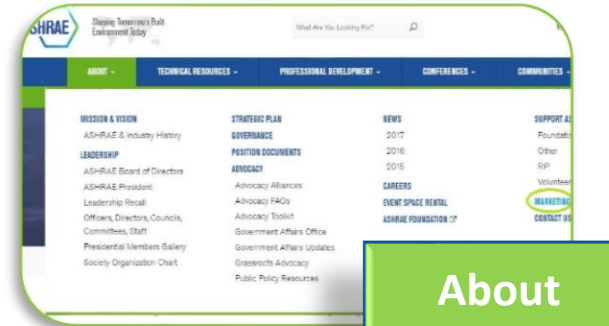
ashrae.org/certification

Marketing Central

Resources for Society-related marketing materials

- PowerPoint Presentations
- Videos
- PDFs
- Images
- Templates
- Toolkits
- Websites & Forms
- News & Events
- Grassroots
- Going to a show? Order a pull-up banner or table top sign with your Chapter logo!

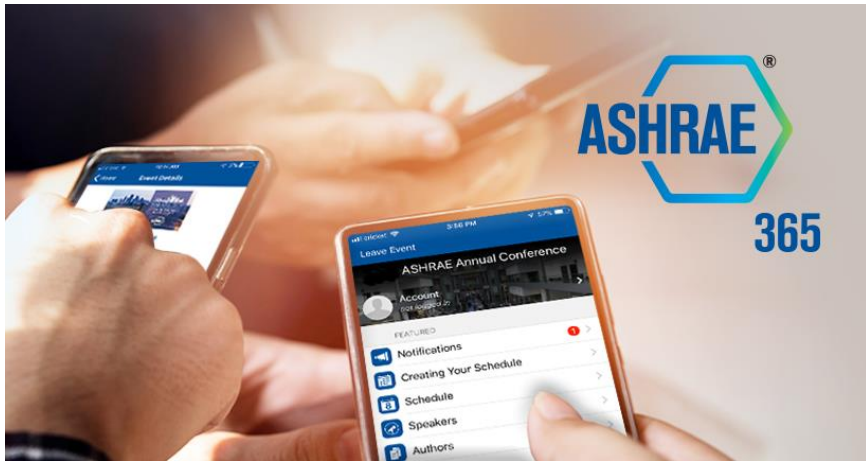
How to find Marketing Central:



ashrae.org/marketing

ASHRAE 365

Over **19,000** active downloads!



- ASHRAE Events & Topical Conferences
- Professional Development Resources
- Volunteer and Member Resources

Download it free today!

ashrae.org/365



Over **9,000** views for both Tech Hours combined!

Tech Hour introduces the latest technical content presented by some of ASHRAE's brightest minds. Tech Hour videos are one hour and conveniently available in **ASHRAE 365** or on **ashrae.org**.

- Participants may be eligible to receive one PDH
- New videos published quarterly
 - ✓ Tech Hour #1: **Optimize Occupant Health, Building Energy Performance and Revenue through Indoor-Air Hydration**
 - ✓ Tech Hour #2 : **Where Have All the Ethics Gone?**
 - ✓ Tech Hour #3 : TBD Summer 2020

ashrae.org/techhour



Virtual Conference Feedback

Members and committees are encouraged to share Virtual Conference feedback with their ExO.



What was good?
What could have been better?

Questions?

Thank You!



ashrae.org

ASHRAE[®]
CELEBRATING
125
YEARS

UPDATE to ASHRAE 125th Anniversary Sub-Committee and ASHRAE Historical Committee

Subcommittee Membership:

Bern Nagengast, Chair
Branco Torodovich
Niss Feiner

Former Subcommittee Members

Kent Anderson
Jeff Haberl
Pam Immekus
Eric Sturm
Ron Vallort

Interested individuals who asked to be kept in the loop:

David Arnold
Bruce Flaniken
Randy Schrecengost
George Menzies

copy to Emily Sigman, Steve Comstock, Mark Owen, Stan Westhoff, Dean Borges

Update as of June 8, 2020

All of the active 125th anniversary projects are completed or nearing completion. Please see the following report for all of the projects, including canceled or inactive projects.

Bern Nagengast
125th Sub-Committee chair



Historical Committee (HC))

ASHRAE 125 Year Anniversary Celebration – Project Status

As of June 8, 2020

Active or completed:

“History of development of air conditioning systems 1920-2020”

Focus would be both equipment and materials, written and illustrated to appeal to engineers as well as a wider audience. Author: David Arnold

Total Fiscal Impact: -20000

Status as of January 13: Project progressing – Mr. Arnold has selected topics to be covered. The time period has been extended back before 1920. *

Status – Active: The book is undergoing editing and will be promoted at the virtual Annual Meeting, June 2020, and published soon after.

“HVAC&R Giants”

Published in January 2020 as a 155 page soft cover book titled *Adventures in Heat & Cold: Men and women who made your lives better*. Author: Bernard Nagengast with Randy Schrecengost.

Total projected Fiscal Impact: -20000

Status – Complete: Available for sale in the ASHRAE bookstore.

125 most important Transaction Papers

Published as part of *Proclaiming the Truth 2nd. Edition*. Has Abstracts of papers/articles published between 1895 and 2019 were published in the First edition of *Proclaiming the Truth*. Responsibility: Eric Sturm, Steve Comstock and staff. Total Fiscal Impact: 0

Status – Complete: The updated list was included in the second edition of *Proclaiming the Truth*.

Publish 6 to 12 historical articles in the ASHRAE Journal.

Articles considered for publication will appeal to the more general interest of *Journal* readers. *ASHRAE Journal* staff has selected most of the articles.

Possible publication of as many as one article per month from July 1919 through June 2020.

Responsibility: Jay Scott and *Journal* staff. Total Fiscal Impact: 0

Status – Active: Series began with the September 2019 issue is being published as editing and reviews allow.

Sponsor at least one technical paper session for the winter and annual 2020 meetings.

Solicit 4 or more papers to be presented in a technical session or sessions (preferably in a format that would be published as a permanent record in *ASHRAE Transactions*) Papers would target specific historical advances or could address a broader history of HVAC&R Technology.

Responsibility: Jeff Haberl. Total Fiscal Impact: 0

Status – Complete: One session was held at the Kansas City annual meeting and two sessions at the 2020 winter meeting.

Develop a pictorial calendar for 2019 and 2020. This was to be similar to the historical calendars produced annually by CIBSE. These calendars could be sold by ASHRAE to members and companies.

Author: Pam Immekus

This project had been suspended due to defunding by PEC, however the ASHRAE Life Members Club approved funding up to \$25000. for the project. The concept was modified to an online timeline idea. Sarah Foster and Tani Palefski of the Journal staff are administering the project.

Status – Active: Although this project is currently inactive due to Journal workload and short-staffing the project will be completed eventually, possibly using free lance help.

ASHRAE Society History (*Proclaiming the Truth 2nd Edition*)

Proclaiming the Truth book was updated to cover the 25 year period after the Centennial.

This is not a Historical Committee project.

Responsibility: Steve Comstock and staff.

second edition of *Proclaiming the Truth* was distributed as part of the registration package at the Winter Meeting 2020 and is also available for sale in the ASHRAE bookstore.

ASHRAE Oral History

Short oral histories by ASHRAE members. Specific use to be defined but can be used on ASHRAE Website and as basis of presentation at 2020 Winter Conference or in display.

This is not a Historical Committee project.

Responsibility: ASHRAE Staff (Krys Gilstrap)

Status – Complete: A video presentation featuring 20 short interviews was available for the Winter 2020 meeting.

ASHRAE Historical Markers

Identification of HVAC&R related historical sites by plaques, ASHRAE Website information, etc. with possible opportunities for ASHRAE marketing. Proposed by Larry Markel.

Historical Markers is being proposed as an on-going program after the 125th celebration. PEC has requested the Historical Committee to devise a pilot program.

Status – Active: A pilot launch of the project at Orange Texas, site of the first air conditioned church, was approved by the Historical Committee project at the 2019 winter meeting. Bruce Flaniken has been managing the pilot effort and a bronze plaque has been completed that was be dedicated in Orange, Sunday April 26th, 2020 the day after the CRC in Houston, Texas, the plaque to be presented by ASHRAE's president. Since the CRC was canceled due to the Covid-19 situation, the presentation will be rescheduled for later this year. A date has not been finalized yet.

Inactive or canceled

“How HVAC&R has improved the quality of life worldwide”

This was to be written to appeal to a general audience thus promoting the importance of engineering and ASHRAE as a benefit to humanity. Author: Ron Vallort and Vanita Gupta
ASHRAE Marketing staff.

This project was canceled in 2019 due to defunding by PEC.

“Evolution of components and design build practices after 1900”

This would cover the development of factory engineering and construction practices from the inventors/innovators design build to the application manufacturing to application engineering to engineering consultants and then mechanical contractors. Author: Bruce Flaniken

Budgeted as Total Fiscal Impact: -20000.

Mr. Flaniken envisions this as a ASHRAE Journal article(s).

Status – Inactive: Completion and publication as an article will be in the future. If published as a Journal article there will be no need to request any specific funding.

HVAC&R Museum

Display at 2020 Winter Conference. Similar to the museum display at the 1995 Centennial meeting. Sponsorships to be solicited.

This is not a Historical Committee project.

Responsibility: ASHRAE Staff

This project was canceled in 2019 due to defunding by PEC.

ASHRAE Journal Advertising Supplement

Features invited company histories and ads, similar to the feature published for the ASHRAE Centennial. To be published in the December 2019 *Journal*.

This is not a Historical Committee project.

Responsibility: Greg Martin

Status – this was not published in December. Instead, advertisers were invited to bring historical themes into their existing advertisements.

Historical Committee 2019-2020 MBOs --Stan Westhoff History Chair

Objective	PR	Completion Date	Fiscal Impact	Delegated to:	Status	Comment
HC MBO 1 Develop proposals to improve the opportunities for Regional Historians to participate in Historical Committee activities.	1	Winter 2020 Orlando	None	RVC Guideline sub committee	Ongoing	Continue on-line participation of (RVCs) at Committee meetings.
HC MBO 2 Develop PAOE Recommended Changes to 2020-2021 PAOE	1	2020 Austin	none		Complete February	To get ahead of the PAOE Committee Cycle with proposal for the following year's PAOE Letter in Summer 2020.
HC MBO 3 History VC PAOE Update Summary Report at Annual & Winter Meetings to include copy similar to 2018-2019 Annual meeting	1	Winter & Annual	None	VC Report	Complete February	To encourage RVCs to target the below PAR performing Chapters in their Region based on the previous year's History PAOE Summary.
HC MBO 4 Encourage Chapter Historians who don't Attend their Regional CRC to complete the Chapter Historians Training Power Point and promote on-line workshop participation at CRCs	1	Winter 2020	minor	RVC Guideline sub committee	Complete February	Update the Chapter Historians Training PowerPoint. Add points for submittal of a completed MBO with phone discussion with RVC History prior August 30 of fiscal year. Promote on-line workshop participation at CRCs
HC MBO 5 Assist in publicizing 125 th Anniversary. Develop information of historical interest that can be presented at Society & Regional Meetings	1	Summer 2020	Major	125th Anniversary Celebration sub committee	Complete June 2020	Continue 125th Seminar and Historical Articles Promotions with PEC to support the 125th anniversary and demonstrate to members the strength in depth of our Society.
HC MBO 6 Develop proposal for publication/s to celebrate 125th Anniversary	1	Summer 2020	To Be Advised	Historical Committee	Complete February	Continue working on and supporting 125th Publications to PEC.
HC MBO 7 Foster collaboration with other international societies to improve our historical research and support history-related activities of the Society	4	Summer 2020	None	Historical Committee	Ongoing	Continue work on collaboration. HC has links with similar groups in CIBSE and AiCARR - opportunity to pursue to work w/similar committees in CEN, International Institute of Ammonia Refrigeration (IIR), International Institute of Refrigeration (IIR), & Global Cold Chain Alliance (GCCA).
HC MBO 8 Encourage younger members of ASHRAE to have interest in history-related activities of the Society	2	Summer 2020	None	Historical Committee	Complete February	Proposing to keep the PAOE line item "For a local Chapter Historical activity performed by an actively engaged YEA member"
HC MBO 9 Leadership Recall Arrange for videos at Annual meeting 2020	2	Summer 2020	Verify \$1,000 Budgeted	Historical Committee	Ongoing	Arrange two Presidential interviews. Review other potential interviewees
HC MBO 10 Digitize Archived Journals + Transactions	3	Summer 2020	Major	Historical Committee/P EC	Ongoing	Encourage digitalization of all Society Journals and Transactions
HC MBO 11 Incorporate a Women In Engineering component to the 125 Year ASHRAE Anniversary celebration	1	Summer 2020	None	Historical Committee	Complete (WIA now called Diverse)	Continue WIA PAOE Support in History
Jun 22-26, 2019 – Kansas City,						Feb 1-5, 2020 – Orlando, FL

HISTORY VICE CHAIR PAOE SUMMARY REPORT

ORLANDO WINTER MEETING -- FEBRUARY 2, 2020

Regions	Total PAOE	Chapters @ "0" PAOE	Chapters @ MIN	Chapters @ PAR
I	5255	3	11	7
II	4100	0	9	7
III	1075	5	5	1
IV	1650	4	3	3
V	2100	1	10	3
VI	1600	3	8	3
VII	4050	2	11	6
VIII	7325	2	12	9
IX	2750	3	10	5
X	5925	0	14	9
XI	1750	3	8	2
XII	7125	3	13	11
XIII	3700	0	10	6
XIV	100	8	1	0
Region- At-Large	7775	7	16	9
Grand Total	56280			

Top 10 Chapters	Top 10 PAOE
HOUSTON	1550
CENTRAL OKL	1300
NORTHERN NEVADA	1275
INDIA	1200
BRASIL	1125
SRI LANKAN	1050
COLOMBIA	1000
TWIN TIERS	980
NORTHEAST	965
PYRAMIDS	950

1. Each Regional Historian to reach out to Chapter Historians/Presidents with ZERO PAOE History points and help them get to Minimum PAOE of 100.
2. Each Regional Historian to reach out to Chapter Historians/Presidents with less than 300 PAR PAOE points and encourage them to get PAR.

REGION I

2019-2020 Presidential Award of Excellence

*Minimum and PAR points indicated are for 2019-20

Chapter#	ChapterName	ChapterMembers	Historical: Minimum 100; PAR 300	Membership Promotion: Minimum 500; PAR 800	Student Activities: Minimum 500; PAR 800	RP: Minimum 800; PAR 1050	Communications: Minimum 250; PAR 650	Chapter Operations: Minimum 600; PAR 1200	Chapter Technology Transfer: Minimum 550; PAR 1050	Government Affairs: Minimum 500; PAR 650	Young Engineers in ASHRAE: Minimum 300; PAR 800	ChapterPAOE pointTotals
1	BOSTON	974	610	740	675	1440	0	540	0	1050	750	5805
3	RHODE ISLAND	105	0	150	0	90	0	30	100	0	525	895
4	CONNECTICUT	497	430	675	805	550	640	1165	1900	800	1050	8015
6	LONG ISLAND	284	355	400	450	1120	0	190	400	950	600	4465
7	NEW JERSEY	584	365	685	575	590	705	1220	825	1300	875	7140
8	NEW YORK	981	675	1095	1725	1470	300	830	150	1050	925	8220
9	NORTHEAST	271	965	825	50	425	75	300	650	0	600	3890
10	CENTRAL NEW YORK	239	275	350	150	220	50	190	0	1300	450	2985
11	ROCHESTER	248	65	695	150	1000	200	725	200	1650	1950	6635
12	NIAGARA FRONTIER	177	285	375	660	470	300	775	1150	650	400	5065
111	CHAMPLAIN VALLEY	122	150	225	1360	905	450	535	1025	550	850	6050
118	MAINE	181	100	275	50	265	0	70	0	50	100	910
129	TWIN TIERS	101	980	665	990	1150	780	1225	1250	1000	900	8940
146	BI-STATE	195	0	375	150	390	0	70	0	0	150	1135
152	GRANITE STATE	149	0	410	50	460	0	60	0	700	0	1680
		Total PAOE	5255									
		Avg PAOE	350									

REGION II

2019-2020 Presidential Award of Excellence

*Minimum and PAR points indicated are for 2019-2020

Chapter#	ChapterName	ChapterMembers	Historical: Minimum 100; PAR 300	Membership Promotion: Minimum 500; PAR 800	Student Activities: Minimum 500; PAR 800	RP: Minimum 800; PAR 1050	Communi- cations: Minimum 250; PAR 650	Chapter Operation s: Minimum 600; PAR 1200	Chapter Technolog y Transfer: Minimum 550; PAR 1050	Governm ent Affairs: Minimum 500; PAR 650	Young Engineers in ASHRAE: Minimum 300; PAR 800	ChapterPAOE pointTotals
13	QUEBEC	167	675	525	3025	1057	674	785	1175	550	550	9016
14	MONTREAL	540	675	1720	600	415	825	1175	1350	900	1400	9060
15	OTTAWA VALLEY	427	400	710	915	960	525	450	875	0	1325	6160
16	TORONTO	1081	750	1210	1050	1490	495	1510	1575	200	1525	9805
37	HAMILTON	273	450	1105	1170	845	250	425	875	1000	600	6720
100	HALIFAX	185	250	805	650	715	200	785	925	350	350	5030
116	LONDON (CANADA)	123	300	825	850	808	825	1225	1100	650	800	7383
117	NB/PEI	152	250	535	50	328	500	1155	2300	500	400	6018
141	WINDSOR	69	350	1000	855	556	665	1550	1075	2200	1050	9301

Total PAOE 4100

Avg PAOE 456

REGION III

2019-2020 Presidential Award of Excellence

*Minimum and PAR points indicated are for 2019-2020

Chapter#	ChapterName	ChapterMembers	Historical: Minimum 100; PAR 300	Membership Promotion: Minimum 500; PAR 800	Student Activities: Minimum 300; PAR 500	RP: Minimum 800; PAR 1050	Electronic Communications: Minimum 250; PAR 600	Chapter Operations: Minimum 600; PAR 1200	Chapter Technology Transfer: Minimum 550; PAR 1050	Government Affairs: Minimum 500; PAR 650	Young Engineers in ASHRAE: Minimum 300; PAR 800	ChapterPAOE ointTotals
21	PHILADELPHIA	891	100	880	550	1025	0	620	0	1450	200	4825
22	CENTRAL PENNSYLVANIA	381	0	480	450	430	0	520	0	0	200	2080
23	JOHNSTOWN	59	150	300	0	544	0	10	0	0	300	1304
24	PITTSBURGH	309	50	570	2320	815	195	160	350	0	1075	5535
25	BALTIMORE	742	350	830	375	1630	600	1145	1275	2250	1450	9905
26	NATIONAL CAPITAL	995	0	1110	650	585	50	1320	0	1350	925	5990
27	HAMPTON ROADS	170	275	350	300	655	50	160	0	350	600	2740
28	RICHMOND	347	150	585	375	400	355	455	900	400	900	4520
98	LEHIGH VALLEY	140	0	395	0	1195	0	180	0	0	550	2320
125	ROANOKE	156	0	125	0	140	0	230	0	0	300	795
134	ANTHRACITE	99	0	0	150	620	0	20	0	0	200	990
		Total PAOE	1075									
		Avg PAOE	98									

REGION IV

2019-2020 Presidential Award of Excellence

*Minimum and PAR points indicated are for 2019-2020

Chapter#	ChapterName	ChapterMembers	Historical: Minimum 100; PAR 300	Membership Promotion: Minimum 500; PAR 800	Student Activities: Minimum 300; PAR 500	RP: Minimum 800; PAR 1050	Electronic Communications: Minimum 250; PAR 600	Chapter Operations: Minimum 600; PAR 1200	Chapter Technology Transfer: Minimum 550; PAR 1050	Government Affairs: Minimum 500; PAR 650	Young Engineers in ASHRAE: Minimum 300; PAR 800	ChapterPAOE pointTotals
29	NORTH PIEDMONT	195	0	770	710	996	0	950	800	720	775	5721
30	SOUTHERN PIEDMONT	359	350	895	150	737	50	860	150	2230	300	5722
31	SOUTH CAROLINA	143	0	270	295	285	0	100	0	200	250	1400
32	ATLANTA	992	350	1550	300	600	620	2430	1550	3350	1450	12200
97	GREENVILLE	184	0	200	100	105	0	120	50	0	300	875
106	TRIANGLE	459	950	965	2550	1290	872	3080	2650	4150	2300	18807
113	CHARLESTON	143	0	375	50	772	0	270	1425	620	200	3712

Total PAOE 1650

Avg PAOE 236

REGION V

2019-2020 Presidential Award of Excellence

*Minimum and PAR points indicated are for 2019-2020

Chapter#	ChapterName	ChapterMembers	Historical: Minimum 100; PAR 300	Membership Promotion: Minimum 500; PAR 800	Student Activities: Minimum 300; PAR 500	RP: Minimum 800; PAR 1050	Electronic Communications : Minimum 250; PAR 600	Chapter Operations: Minimum 600; PAR 1200	Chapter Technology Transfer: Minimum 550; PAR 1050	Government Affairs: Minimum 500; PAR 650	Young Engineers in ASHRAE: Minimum 300; PAR 800	ChapterPAOEpointTotals
38	CLEVELAND	332	400	710	250	1305	715	1220	1550	350	350	6850
39	COLUMBUS	373	100	400	840	1420	0	210	300	200	100	3570
40	CINCINNATI	264	100	275	150	210	50	230	825	300	200	2340
41	DAYTON	210	525	575	1699	1300	429	110	300	100	200	5238
42	TOLEDO	114	100	175	100	130	0	190	0	100	450	1245
43	CENTRAL INDIANA	333	100	650	1421	755	0	380	1350	0	950	5606
44	EVANSVILLE	54	0	0	0	1045	50	165	250	50	0	1560
45	DETROIT	575	75	500	230	2558	200	765	200	100	625	5253
47	WESTERN MICHIGAN	338	100	360	200	940	0	300	0	300	300	2500
90	AKRON/CANTON	145	100	125	250	650	0	40	0	0	300	1465
103	NORTHERN INDIANA	76	100	160	0	244	0	70	200	200	100	1074
120	FORT WAYNE	74	400	530	165	1050	255	605	625	700	525	4855
		Total PAOE	2100									
		Avg. per Chapter	175									

2019-2020 Presidential Award of Excellence

Total PAOE	1600
Avg. PAOE	145

Chapter#	ChapterName	ChapterMembers	Historical: Minimum 100; PAR 300	Membership Promotion: Minimum 500; PAR 800	Student Activities: Minimum 300; PAR 500	RP: Minimum 800; PAR 1050	Electronic Communications: Minimum 250; PAR 600	Chapter Operations: Minimum 600; PAR 1200	Chapter Technology Transfer: Minimum 550; PAR 1050	Government Affairs: Minimum 500; PAR 650	Young Engineers in ASHRAE: Minimum 300; PAR 800	ChapterPAOE pointTotals
48	WISCONSIN	350	100	250	100	1565	305	400	375	600	575	4270
49	ILLINOIS	1225	350	975	1150	330	250	1345	3100	300	1950	9750
50	CENTRAL ILLINOIS	133	100	215	150	170	25	245	50	550	275	1780
51	IOWA	307	0	620	100	1010	40	260	1175	150	400	3755
52	MINNESOTA	878	0	630	800	610	523	1445	1175	300	2025	7508
54	ST LOUIS	672	0	425	550	585	0	340	0	150	275	2325
95	MADISON	265	375	425	125	235	767	410	0	900	750	3987
107	NORTHEAST WISCONSIN	153	100	345	0	770	0	140	175	100	300	1930
115	LA CROSSE AREA	128	475	395	575	650	385	740	725	900	775	5620
123	MISSISSIPPI VALLEY	104	100	100	0	250	175	80	500	0	400	1605
159	CEDAR VALLEY	83	100	150	224	175	300	1255	1225	800	800	5029

REGION VII

2019-2020 Presidential Award of Excellence

*Minimum and PAR points indicated are for 2019-2020

Chapter#	ChapterName	ChapterMembers	Historical: Minimum 100; PAR 300	Membership Promotion: Minimum 500; PAR 800	Student Activities: Minimum 300; PAR 500	RP: Minimum 800; PAR 1050	Electronic Communication s: Minimum 250; PAR 600	Chapter Operations: Minimum 600; PAR 1200	Chapter Technology Transfer: Minimum 550; PAR 1050	Government Affairs: Minimum 500; PAR 650	Young Engineers in ASHRAE: Minimum 300; PAR 800	ChapterPAOE ointTotals
55	LOUISVILLE	185	800	850	265	995	850	1655	1850	100	800	8165
56	MEMPHIS	171	250	175	395	350	225	910	1100	0	975	4380
57	BIRMINGHAM	250	0	585	200	1015	500	205	775	0	1100	4380
58	MOBILE	50	50	50	850	775	400	240	500	50	475	3390
59	NEW ORLEANS	124	450	400	50	375	715	930	1475	700	775	5870
60	BATON ROUGE	91	0	25	0	395	250	20	100	0	100	890
61	MISSISSIPPI	94	250	270	75	707	410	385	725	1400	900	5122
88	NASHVILLE	333	300	705	1245	610	250	160	1025	0	100	4395
99	EAST TENNESSEE	213	350	600	825	948	680	1205	1075	350	925	6958
114	TENNESSEE VALLEY	88	100	500	125	510	725	1070	1075	550	700	5355
128	BLUEGRASS	112	850	685	928	910	695	830	1500	550	1050	7998
130	NORTHWEST FLORIDA	62	200	270	500	700	425	555	725	450	50	3875
133	NORTH ALABAMA	56	150	135	50	165	175	30	100	0	0	805
192	WEST VIRGINIA	78	300	745	1200	1160	855	1540	700	1500	1000	9000

Total PAOE 4050
Avg. PAOE 289

REGION VIII

2019-2020 Presidential Award of Excellence

*Minimum and PAR points indicated are for 2019-2020

Chapter#	ChapterName	ChapterMembers	Historical: Minimum 100; PAR 300	Membership Promotion: Minimum 500; PAR 800	Student Activities: Minimum 300; PAR 500	RP: Minimum 800; PAR 1050	Electronic Communications: Minimum 250; PAR 600	Chapter Operations: Minimum 600; PAR 1200	Chapter Technology Transfer: Minimum 550; PAR 1050	Government Affairs: Minimum 500; PAR 650	Young Engineers in ASHRAE: Minimum 300; PAR 800	ChapterPAOE ointTotals
62	ARKANSAS	235	750	725	1755	1227	1215	3315	2975	1070	1800	14832
64	HOUSTON	766	1550	1180	1620	1257	1295	2070	2075	1900	1300	14247
65	ALAMO	232	350	235	200	686	300	377	625	150	425	3348
66	AUSTIN	363	825	1200	975	1009	936	1840	2025	1200	1775	11785
67	DALLAS	707	0	745	575	970	200	310	300	200	450	3750
68	CENTRAL OKLAHOMA	287	1300	815	1660	1288	1044	1695	1475	2700	900	12877
69	NORTHEASTERN OKLAHOMA	198	200	225	700	919	955	880	725	2200	200	7004
70	FORT WORTH	296	475	700	915	1858	1058	1360	2125	950	950	10391
71	WEST TEXAS	83	100	175	0	240	0	140	125	100	300	1180
91	EAST TEXAS	125	50	400	400	136	25	175	100	0	400	1686
154	SOUTH TEXAS	63	100	225	50	2294	0	80	0	100	100	2949
165	MEXICO CITY	102	350	275	775	170	550	1380	1175	1150	175	6000
166	MONTERREY	134	925	965	1917	935	1370	2490	2905	2300	1700	15507
173	GUADALAJARA	31	0	325	0	100	0	50	0	0	0	475
208	NORTHWEST ARKANSAS	129	350	560	265	573	930	305	600	800	1250	5633

PAOE Total 7325

Avg. PAOE 488

2019-2020 Presidential Award of Excellence

Total PAOE	2750
Avg. PAOE	212

Chapter#	ChapterName	ChapterMembers	Historical: Minimum 100; PAR 300	Membership Promotion: Minimum 500; PAR 800	Student Activities: Minimum 300; PAR 500	RP: Minimum 800; PAR 1050	Electronic Communications: Minimum 250; PAR 600	Chapter Operations: Minimum 600; PAR 1200	Chapter Technology Transfer: Minimum 550; PAR 1050	Government Affairs: Minimum 500; PAR 650	Young Engineers in ASHRAE: Minimum 300; PAR 800	ChapterPAOE ointTotals
53	KANSAS CITY	661	650	1845	1965	1100	925	1565	1550	960	1925	12485
72	EL PASO	49	0	370	100	560	25	60	0	200	525	1840
73	ROCKY MOUNTAIN	953	0	605	1500	462	50	1050	325	400	525	4917
74	UTAH	321	425	1315	450	550	510	1210	1725	900	700	7785
75	NEBRASKA	375	400	880	1100	620	847	1090	1700	1350	2200	10187
76	WICHITA	139	100	325	450	1035	250	125	0	450	250	2985
77	NEW MEXICO	151	325	385	711	615	622	585	450	300	1000	4993
93	SOUTH DAKOTA	125	0	470	150	431	665	60	0	1050	500	3326
127	BLACK HILLS	51	100	225	0	265	50	20	900	0	100	1660
131	BIG SKY	122	100	350	300	90	183	515	525	0	225	2288
135	IDAHO	166	100	1105	250	390	1150	215	250	300	700	4460
148	PIKES PEAK	127	450	570	560	1140	325	715	725	700	375	5560
150	OZARKS	73	100	275	315	100	0	90	0	300	250	1430

REGION X

2019-2020 Presidential Award of Excellence

*Minimum and PAR points indicated are for 2019-2020

Chapter#	ChapterName	ChapterMembers	Historical: Minimum 100; PAR 300	Membership Promotion: Minimum 500; PAR 800	Student Activities: Minimum 300; PAR 500	RP: Minimum 800; PAR 1050	Electronic Communications: Minimum 250; PAR 600	Chapter Operations: Minimum 600; PAR 1200	Chapter Technology Transfer: Minimum 550; PAR 1050	Government Affairs: Minimum 500; PAR 650	Young Engineers in ASHRAE: Minimum 300; PAR 800	ChapterPAOE ointTotals
81	SACRAMENTO VALLEY	287	225	450	200	580	0	170	0	100	300	2025
82	GOLDEN GATE	898	375	785	725	420	0	760	0	0	825	3890
83	SAN JOAQUIN	112	175	220	125	90	0	110	425	100	200	1445
84	SOUTHERN CALIFORNIA	703	475	550	450	520	0	490	0	100	625	3210
85	SAN DIEGO	362	325	480	340	854	0	190	0	100	700	2989
86	CENTRAL ARIZONA	432	575	810	1295	805	570	960	1375	350	1375	8115
87	TUCSON	101	575	390	175	1182	50	20	0	950	400	3742
92	SOUTHERN NEVADA	158	225	150	50	270	75	40	0	0	350	1160
101	SAN JOSE	308	325	460	2770	595	50	190	0	200	1575	6165
105	ORANGE EMPIRE	397	575	545	300	1200	50	260	0	0	650	3580
108	HAWAII	248	225	430	890	840	250	320	1400	100	1325	5780
126	NORTHERN NEVADA	93	1275	470	220	830	450	695	900	100	475	5415
144	SIERRA DELTA	50	200	320	150	810	0	130	0	1150	200	2960
155	TRI COUNTY	78	375	225	1163	150	0	10	175	0	300	2398

Total PAOE

5925

Avg. PAOE

423

REGION XI

2019-2020 Presidential Award of Excellence

*Minimum and PAR points indicated are for 2019-2020

Chapter#	ChapterName	ChapterMembers	Historical: Minimum 100; PAR 300	Membership Promotion: Minimum 500; PAR 800	Student Activities: Minimum 300; PAR 500	RP: Minimum 800; PAR 1050	Electronic Communications : Minimum 250; PAR 600	Chapter Operations: Minimum 600; PAR 1200	Chapter Technology Transfer: Minimum 550; PAR 1050	Government Affairs: Minimum 500; PAR 650	Young Engineers in ASHRAE: Minimum 300; PAR 800	ChapterPAOE ointTotals
17	MANITOBA	183	100	260	95	100	150	225	25	0	325	1280
18	SOUTHERN ALBERTA	387	100	650	1184	805	590	760	675	0	900	5664
19	NORTHERN ALBERTA	281	100	505	790	510	50	50	0	0	100	2105
20	BRITISH COLUMBIA	573	600	970	920	2700	740	1710	1325	1000	950	10915
78	INLAND EMPIRE	146	0	425	1490	390	50	455	100	0	575	3485
79	PUGET SOUND	799	200	825	900	290	480	935	725	0	250	4605
80	OREGON	608	0	605	1750	1035	0	420	0	250	1175	5235
96	REGINA	103	150	280	1720	442	150	505	975	100	650	4972
102	SASKATOON	109	0	430	920	391	0	80	50	0	600	2471
122	ALASKA	190	400	430	610	2897	323	730	575	1250	1200	8415
145	VANCOUVER ISLAND	96	100	335	595	225	0	580	900	650	700	4085

Total PAOE 1750
Avg. PAOE 159

REGION XII

2019-2020 Presidential Award of Excellence

*Minimum and PAR points indicated are for 2019-2020

Chapter#	ChapterName	ChapterMembers	Historical: Minimum 100; PAR 300	Membership Promotion: Minimum 500; PAR 800	Student Activities: Minimum 300; PAR 500	RP: Minimum 800; PAR 1050	Electronic Communications: Minimum 250; PAR 600	Chapter Operations: Minimum 600; PAR 1200	Chapter Technology Transfer: Minimum 550; PAR 1050	Government Affairs: Minimum 500; PAR 650	Young Engineers in ASHRAE: Minimum 300; PAR 800	ChapterPAOE pointTotals
34	JACKSONVILLE	242	475	235	525	1160	655	800	1200	850	850	6750
35	FLORIDA WEST COAST	410	550	685	1475	1110	628	1360	975	1650	2550	10983
36	MIAMI	200	600	450	1075	830	835	1695	1530	350	1025	8390
94	CENTRAL FLORIDA	338	725	645	650	1250	1050	2595	1775	1100	1875	11665
104	GOLD COAST	203	200	785	815	10	640	1190	550	150	1000	5340
109	SPACECOAST	89	750	180	1060	140	515	1110	1650	3450	1150	10005
110	PUERTO RICO	86	200	370	190	920	310	160	400	0	400	2950
139	SOUTHWEST FLORIDA	123	0	230	200	1900	75	410	1950	800	1100	6665
172	BRASIL	178	1125	675	5830	850	940	1915	2875	2700	1425	18335
178	ARGENTINA	120	350	580	6285	860	980	1185	3100	1450	1300	16090
190	COLOMBIA	63	1000	450	1125	80	1195	1155	1150	2050	475	8680
196	CHILE	54	0	351	100	20	0	100	200	0	100	871
199	ECUADOR	50	0	100	450	30	25	10	200	0	800	1615
202	PARAGUAY	52	450	385	500	415	255	605	775	550	525	4460
209	ASHRAE CARICOM	72	300	970	1265	1925	1125	1435	1825	1850	1300	11995
213	SOUTH BRAZIL	50	400	100	800	150	500	270	350	1500	1650	5720

Total PAOE
Avg. PAOE

7125
445

2019-2020 Presidential Award of Excellence

Chapter#	ChapterName	ChapterMembers	Historical: Minimum 100; PAR 300	Membership Promotion: Minimum 500; PAR 800	Student Activities: Minimum 300; PAR 500	RP: Minimum 800; PAR 1050	Electronic Communications: Minimum 250; PAR 600	Chapter Operations: Minimum 600; PAR 1200	Chapter Technology Transfer: Minimum 550; PAR 1050	Government Affairs: Minimum 500; PAR 650	Young Engineers in ASHRAE: Minimum 300; PAR 800	ChapterPAOEpointTotals	
142	SINGAPORE	354	200	970	950	900	1270	1305	1150	2300	1175	10220	
143	HONG KONG	742	600	1235	4315	960	961	2615	5425	5600	2150	23861	
149	MALAYSIA	226	400	820	1061	1170	655	1185	1100	1800	1025	9216	
157	TAIWAN	116	625	510	2065	285	545	1600	0	1050	550	7230	
167	PHILIPPINES	184	350	535	500	790	700	140	0	3800	1125	7940	
170	THAILAND	65	575	625	885	1090	410	730	950	700	0	5965	
183	INDONESIA	101	500	1010	1915	175525	755	705	0	600	100	181110	
194	JAPAN	184	150	650	0	1525	50	520	0	200	0	3095	
195	SOUTH KOREA	86	100	550	0	585	25	160	0	200	0	1620	
198	MACAO	78	200	475	50	605	215	1230	0	1100	575	4450	
Total PAOE			3700										
Avg. PAOE			370										

REGION XIV

2019-2020 Presidential Award of Excellence

*Minimum and PAR points indicated are for 2019-2020

Chapter#	ChapterName	ChapterMembers	Historical: Minimum 100; PAR 300	Membership Promotion: Minimum 500; PAR 800	Student Activities: Minimum 300; PAR 500	RP: Minimum 800; PAR 1050	Electronic Communications: Minimum 250; PAR 600	Chapter Operations: Minimum 600; PAR 1200	Chapter Technology Transfer: Minimum 550; PAR 1050	Government Affairs: Minimum 500; PAR 650	Young Engineers in ASHRAE: Minimum 300; PAR 800	ChapterPAOEpointTotals
168	HELLENIC	133	0	200	200	125	405	10	0	0	0	940
176	DANUBE	113	0	400	500	1625	0	530	0	0	1375	4430
177	PORTUGAL	71	100	125	100	125	0	60	0	0	0	510
182	SPAIN	188	0	500	105	515	510	650	575	0	350	3205
203	CYPRUS	40	0	50	0	840	0	0	0	0	0	890
204	IRELAND	103	0	200	200	100	680	325	0	0	300	1805
205	UK MIDLANDS	113	0	605	5225	100	425	1445	1450	50	900	10200
206	UK LONDON and SOUTH-EAST	284	0	310	150	140	0	100	0	0	0	700
214	ISRAELI	66	0	350	0	0	0	10	0	0	0	360

Total PAOE 100

Avg. PAOE 11

REGION-AT-LARGE

2019-2020 Presidential Award of Excellence

*Minimum and PAR points indicated are for 2019-2020

Chapter#	ChapterName	ChapterMembers	Historical: Minimum 100; PAR 300	Membership Promotion: Minimum 500; PAR 800	Student Activities: Minimum 300; PAR 500	RP: Minimum 800; PAR 1050	Electronic Communications: Minimum 250; PAR 600	Chapter Operations: Minimum 600; PAR 1200	Chapter Technology Transfer: Minimum 550; PAR 1050	Government Affairs: Minimum 500; PAR 650	Young Engineers in ASHRAE: Minimum 300; PAR 800	ChapterPAOE ointTotals
158	INDIA	303	1200	985	8723	1175	675	2600	2875	1050	400	19683
160	SAUDI ARABIA	169	0	200	0	425	0	120	0	0	0	745
161	CAIRO	90	925	650	550	1340	560	890	650	800	1025	7390
162	LEBANESE	122	0	230	150	195	0	200	200	0	100	1075
163	WESTERN INDIA	90	450	420	400	1595	500	1230	1900	1000	300	7795
164	KUWAIT	51	0	10	0	775	0	20	175	0	200	1180
169	ASHRAE BANGALORE	103	0	50	1245	945	529	480	2050	0	300	5599
171	SRI LANKAN	112	1050	185	300	1105	200	290	850	0	400	4380
174	PAKISTAN	109	250	175	150	775	0	30	0	2900	100	4380
175	ASHRAE FALCON	504	250	685	250	1905	50	270	50	0	725	4185
179	NORTHERN PAKISTAN	84	150	100	400	125	0	20	225	475	100	1595
181	BAHRAIN	42	0	235	0	925	0	10	0	0	200	1370
184	QATAR ORYX	188	200	245	0	705	50	60	175	0	100	1535
185	CHENNAI	99	50	360	100	1625	0	10	225	0	0	2370
186	PUNE	128	250	460	550	805	405	720	1250	600	600	5640
187	ASHRAE NIGERIA	85	250	205	100	1170	50	70	175	0	100	2120
188	ASHRAE MUMBAI	116	350	310	3195	1355	0	1300	2075	550	575	9710
189	CENTRAL PAKISTAN	83	400	345	305	25	320	365	825	50	450	3085
191	ASHRAE DECCAN	68	50	825	250	485	0	350	1425	0	700	4085
193	TURKISH	105	450	610	1635	25	0	30	685	0	0	3435
197	BANGLADESH	54	0	150	150	25	0	0	0	0	0	325
207	SOUTH AFRICA	151	450	130	0	280	75	210	400	150	0	1695
210	FAISALABAD	29	0	25	150	0	0	0	0	0	0	175
211	PYRAMIDS	74	950	525	1196	1180	265	2040	975	2550	1850	11531
212	JORDAN	58	100	125	0	100	0	0	200	0	100	625

Total PAOE 7775
Avg. PAOE 311

Highest PAOE

	PAOE Pts Position	Region	Chapter	PAOE Pts	Members
1	7775	RAL	HOUSTON	1550	776
2	7325	8	CENTRAL OKLAHOMA	1300	287
3	7125	12	NORTHERN NEVADA	1250	93
4	5925	10	INDIA	1200	303
5	5225	1	BRASIL	1125	178
6	4100	2	SRI LANKAN	1050	112
7	4050	7	COLUMBIA	1000	63
8	3700	13	TWIN TIERS	980	101
9	1650	4	NORTHEAST	965	271
10	1600	6	PYRAMID	950	74

Historical Committee 2020-2021 MBOs –Dean Borges Historical Comm. Chair

Objective	PR	Completion Date	Fiscal Impact	Delegated to:	Status	Comment
HC MBO 1 Develop proposals to improve the opportunities for Regional Historians to participate in Historical Committee activities.	1	Winter 2021 Chicago	None	RVC Guideline sub committee	Ongoing	Continue on-line participation of (RVCs) at Committee meetings.
HC MBO 2 Develop PAOE Recommended Changes to 2021-2022 PAOE	1	2021 Chicago	None			To get ahead of the PAOE Committee Cycle with proposal for the following year's PAOE Letter in Summer 2021
HC MBO 3 History VC PAOE Update Summary Report at Annual & Winter Meetings to include copy similar to 2019-2020 Annual meeting	1	Winter & Annual	None	VC Report		To encourage RVCs to target the below PAR performing Chapters in their Region based on the previous year's History PAOE Summary.
HC MBO 4 Encourage Chapter Historians who don't Attend their Regional CRC to complete the Chapter Historians Training Power Point and promote on-line workshop participation at CRCs	1	Winter 2021	Minor	RVC Guideline sub committee		Update the Chapter Historians Training PowerPoint. Add points for submittal of a completed MBO with phone discussion with RVC History prior August 30 of fiscal year. Promote on-line workshop participation at CRCs
HC MBO 5 Foster collaboration with other international societies to improve our historical research and support history-related activities of the Society	4	Summer 2021	None	Historical Committee	Ongoing	Continue work on collaboration. HC has links with similar groups in CIBSE and AiCARR - opportunity to pursue to work w/similar committees in CEN, International Institute of Ammonia Refrigeration (IAR), International Institute of Refrigeration (IIR), & Global Cold Chain Alliance (GCCA).
HC MBO 6 Encourage younger members of ASHRAE to have interest in history-related activities of the Society	2	Summer 2021	None	Historical Committee		Proposing to keep the PAOE line item "For a local Chapter Historical activity performed by an actively engaged YEA member"
HC MBO 7 Leadership Recall Arrange for videos at Annual meeting 2021	2	Summer 2021	Verify \$1,000 Budgeted	Historical Committee	Ongoing	Arrange two Presidential interviews. Review other potential interviewees
HC MBO 8 Digitize Archived Journals + Transactions	3	Summer 2021	Major	Historical Committee/P EC	Ongoing	Encourage digitalization of all Society Journals and Transactions
Jun 27–July 1, 2020 – Austin, Tx						Jan 23-27, 2021 – Chicago, Illinois/June 26-30 2021, Phoenix, AZ



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2020-2021 HISTORICAL COMMITTEE ASSIGNMENTS

<u>COMMITTEE</u>	<u>CHAIR</u>	<u>MEMBERS</u>
ADMINISTRATIVE/ ARCHIVES	Glen Remington	Bern Nagengast/ Spencer Morasch /Dean Borges (ExO)
COMMUNICATIONS/ RVC GUIDELINES	Spencer Morasch	Spencer Morasch/ Dean Borges (ExO)
AWARDS/ LEADERSHIP RECALL	Spencer Morasch	Nissun Feiner/ Dean Borges (ExO)