

**Residential Building Committee  
Kansas City Annual Meeting  
Monday, June 24, 2019**

**Attendance**

**15 Voting Members: Quorum = 8**

	1/14/2019		1/14/2019
<b>Voting Members:</b>		<b>Ex-Officio Members:</b>	
Theresa Weston – Chair (2019)	X	Van Baxter – Board Ex-O	X
Paul Francisco – Vice-Chair (2019)	X	Mick Schwedler – CO	X
Pankaj Dharker (2020)	Not Avail	Lilas Pratt – Staff Liaison	X
Pat Graef (2020)	X		
Glenn Hourahan (2021)	Not Avail	<b>Liaisons:</b>	
Jeff Inks (2019)	Not Avail	Bill McQuade (GGAC)	X
Dan Int-Hout (2020)	X		
John Jones (2021)	Not Avail	<b>Guests:</b>	
Leslie Jonsson (2021)	Resigned	Michal Bartho	X
Richard Karg (2020)	X	Mike Blanford	X
Neil Leslie (2019)	X	Scott Hellendrung	X
Chris Mathis (2019)	X	Wes Davis	X
David Weishuhn (2019)	X	Anthony Fontanini	X
Eric Werling (2021)	X	Art Giesler	X
Jon Winkler (2021)	Not Avail	Amy Gupta	X
		Nick Hurst	X
<b>Incoming Members:</b>		Dennis Knight	X
Steve Baden	X	Dennis Loveday	X
Roy Crawford	X	Li Song	X
William Healy	X	Max Sherman	X
Gayathri Vijayakumar	X	Sam Taylor	X
		Jeff Warther	X

**Principal Motions<sup>1</sup>**

**Motion #1:** David Weishuhn moved and Chris Mathis seconded the meeting notes from the January 14, 2019 Atlanta Winter meeting be approved with the noted correction.

**Correction:** A correction on is needed on page 3 to show Dan Int-Hout as chair of the Publications Subcommittee.

**Vote:** Motion passed 9-0-0, CV

**Motion #2:** Chris Mathis moved and Rick Karg seconded that the proposed changes to the MOP be recommended for approval as shown.

**Vote:** Motion passed 9-0-0, CV

<sup>1</sup> All motion votes are listed as yes-no-abstain.

**Motion #3:** Chris Mathis moved and Dan Int-Hout seconded that the proposed changes to the ROB be recommended for approval as shown.

**Vote:** Motion failed 0-8-0, CNV

### New and Open Action Items

January 14, 2019 Atlanta Winter Meeting			
4	Pat Graef & Dan Int-Hout	Develop a marketing publication plan for the MF Guide to be reviewed by RBC at the spring committee webinar.	On-going

  

June 24, 2019 Kansas City Annual Meeting			
1	Pat Graef	Update the draft reference manual for review by the committee.	New
2	Lilas Pratt	Send emails to Chairs of committees that might be interested in signing up for the RBC listserve	New
3	Paul Francisco	Send Lilas Pratt a list of ASHRAE committees with residential activity	New
4	RBC Members	Send feedback on the 1861-RP Work Statement to Pat Graef and Dan Int-Hout by July 15, 2019	New
5	Pat Graef	Respond to Chip Barnaby of TC 4.1 regarding the updating of Chapter 17 (Residential Cooling and Heating Load Calculations) in the HOF	New
6	Pat Graef	Update the residential presentation template (with Chris Mathis)	New
7	Lilas Pratt	Send out a doodle poll for a full committee meeting the week of July 8 or July 15.	New
8	RBC Members	Provide feedback to Paul Francisco on which subcommittee they are interested in serving on	New

### Meeting Notes

1. Call to Order – **Meeting Convened at 8:34am CDT.** Quorum was established.
  - a. [Introductions](#)
2. Review of Agenda
3. Old Business (Weston)
  - a. Approval of minutes - January 14, 2019 Web Meeting (*File: 01-14-19 WM\_RBC\_MtgMinutes\_Draft.pdf*)

**Motion #1:** David Weishuhn moved and Chris Mathis seconded the meeting notes from the January 14, 2019 Atlanta Winter meeting be approved with the noted correction.

**Correction:** A correction on is needed on page 3 to show Dan Int-Hout as chair of the Publications Subcommittee.

**Vote:** Motion passed 9-0-0, CV

- b. Review of current [Action Items](#)

#### 4. Liaison Reports

- a. GAC

- Theresa Weston reported that GAC was very interested in feedback on Standard 90.2 which was developed specifically as a stretch code. As chair of Standard 90.2, she was able to provide an updated and answer questions.

- b. Building Conference Series

- Theresa Weston reported that the 14<sup>th</sup> series of the conference will be held the first week of December 2019 in Clearwater, FL. This will be its first occurrence as an ASHRAE conference. 14<sup>th</sup> conference. They may need to open a 3<sup>rd</sup> track in order to accommodate all the seminar/paper submissions.
- On Tuesday evening of the conference, a Building Science Education Workshop is planned.

- c. SSPC/Standard 90.1

- Chris Mathis reported that Standard 90.1-2019 will be published later this year.
- He reminded everyone that 90.1 covers residential buildings over 3 stories and recapped a number of changes to the standard that will appear in this latest version.
- A work plan is in place for the 2022 version of the standard and includes the changes that the committee has targeted for exploring for the next round.

- d. Staff Report

- Nothing to report at this time

- e. ExO Report ([Attachment A](#))

- Van Baxter presented the ExO report to the guide focusing on information of interest to the committee.

- f. CO Report (Schwedler)

- Mick Schwedler recapped the lean assessment debate that transpired in the BOD meeting and reported that the BOD had voted to restore funding to RBC, keeping them as a standing committee.
- He noted that much of what has been done by RBC so far has been work that could have been done by a TC or MTG (e.g., programs, publications, research)
- He recommended that the committee be strategic and take actions that will move the Society's residential agenda forward. While not everything that RBC does will connect with a strategic initiative, the MBOs should support the strategic plan.
- He also reminded the committee that Tech Council is here to provide support and the committee should not be afraid to ask for help.

g. CTTC

- The annual webcast is being revamped and quarterly technical hour broadcasts are being added. There is a desire to include residential content to one of those quarterly hours.
- The DL's roll over every year. RBC may want to reach out to the current stable of DL's and ask if they want to add a residential presentation.
- It was noted that there has been an increase in requests for DL talks on the basics.

*(Secretary's note: per CTTC, the committee should seek approval from the chair of the DL Committee prior to reaching out to individual DLs)*

5. New Business

a. Proposed changes to Committee MOP ([Attachment B](#))

- The proposed changes are shown in the attachment.
- The main change is to remove the specific subcommittee listings and allow those to be described in the Reference Manual and be adjusted as needed by the committee. The ability to create subcommittees remains in the MOP.

**Motion #2:** Chris Mathis moved and Rick Karg seconded that the proposed changes to the MOP be recommended for approval as shown.

**Discussion:** It was noted that being able to more easily adjust the subcommittee structure to address needs as they occur would be helpful as the committee continues to mature.

**Vote:** Motion passed 9-0-0, CV

b. Proposed changes to Rules of the Board (ROB) ([Attachment C](#))

- The proposed changes are shown in the attachment.
- This proposal came about as a result of wanting more continuity in the leadership for the committee.

**Motion #3:** Chris Mathis moved and Dan Int-Hout seconded that the proposed changes to the ROB be recommended for approval as shown.

**Discussion:**

- A two year term is different from most standing committees. Does this change suggest that RBC does not have good leadership? The consensus is no.
- The committee should consider that this creates a long term commitment for a committee member: 3 years as a member, 2 years as a vice-chair, and 2 years as chair.
- A two-year term allows a chair to organize, develop, and execute an agenda.
- Another option would be to have the outgoing chair serve as a consultant or non-voting member for one year.
- Art Geisler suggests that this should not be in the ROB, but rather in the reference manual. He also noted that consultants are purely the choice of the president elect and can be requested each year and are not part of the ROB.

**Vote:** Motion failed 0-8-0, CNV

c. Promoting continuity on the Committee

- The committee discussed reactivating the listserv
- d. Review & approval of 1861-RP Work Statement  
([WS Draft for Circulation – Thermal Comfort in NA Residences June 17 2019.docx](#))
- Dennis Loveday (TC 2.1) updated the committee on the progress of the Work Statement for 1861-RP about thermal conditions/comfort in residences.
  - The project is to develop a protocol and test it.
  - Feedback is requested from the Committee on the Work Statement.
  - As a co-sponsor, RBC needs to have someone who is part of the work statement author group. Dan Int-hout and Pat Graef have volunteered to help with that.
  - TC 2.1 is Aiming to submit the final work statement for the August RAC meeting.
6. Subcommittees (MBO's shown in [Attachment D](#))
- a. Stakeholders – MBO #2 Stakeholder Outreach
- Pat Graef reported on the discussions from the Stakeholders subcommittee.
  - The subcommittee worked on the outreach contact list and plan of action to engage the stakeholders on that list.
  - A lot of work has previously been done but the problem has been how to execute the outreach. The subcommittee wants to reexamine the information in an effort to make the outreach exercise more personal. The goal is to start a conversation that will identify needs and challenges.
  - There was a lot of coordination between Technical and Stakeholders during the subcommittee meeting and it was determined that a targeted survey to individual stakeholders was needed along with a matrix to connect responses to ASHRAE activities.
- b. Technical – MBO #4.1, #5
- Pat Graef reported on the discussions from the Technical Subcommittee.
  - The subcommittee has recognized that a gap analysis of ASHRAE's resources is a huge task and determined that the stakeholder survey may be a better vehicle for identifying the gaps. This connects the stakeholders and gap analysis.
  - Pat Graef had previously reached out to RAC in regard to having RBC assist RAC by reviewing RTARs with residential content and providing feedback to RAC.
  - The subcommittee also reviewed 1861-RP Thermal Comfort in Residences (co-sponsored with TC 2.01). See New Business item d above for more detail.
  - The authoring subcommittee for the Chapter 17 (Residential Cooling and Heating Load Calculations) in the HOF had reached out to RBC in regard to updating or eliminating that chapter. Because outside manuals reference the formulas from that chapter, the subcommittee recommends that the TC update the references and keep the chapter.
- c. Publications (Int-Hout) – MBO #4.3 and #6
- Dan Int-Hout reported on the discussions of the Publications Subcommittee.
  - It was noted that an Index for Residential content in the Handbook would not be a one-time event, because every time a handbook is updated, the index would also

need to be updated. Because this would become an ongoing maintenance project that someone would have to shoulder, it was decided that was not a good approach to identifying residential content in the Handbook.

- It was suggested that the subcommittee needs to meet with Handbook and determine a different way to identify residential handbook.
- Training Initiatives – a presentation given to PA Housing research center is one of research consortium (basics of forced air distribution).
- The committee would like to reactivate the quarterly column that had been appearing in the ASHRAE Journal.

d. Programs (Leslie)

- Neil Leslie reported that there were a number of residential sessions in the Kansas City Annual Meeting Technical Program. One of these was co-sponsored by RBC.
- The deadline for Orlando seminars is in early August 2019.

e. Conferences & Web Page Upkeep (Karg)

- Rick Karg reported on the discussions of the Conferences subcommittee.
- The subcommittee continues to identify conferences and populate the spreadsheet.
- They discussed what ASHRAE might do at various conferences including presentations, sharing a booth, updating the DL presentation, developing a subset of presentations to provide to local chapters, as well as continuing to coordinate efforts with stakeholders.

7. Closing comments (Weston)

- Theresa Weston thanked the committee for their service and recognized the outgoing members with certificates of appreciation.

8. Incoming Chair (Francisco)

- Paul Francisco reported that he has been drafting MBO's that will cover coordination within and without ASHRAE rather than TC work (e.g., programs and research).
- He is looking at modifying the subcommittee structure into the following structure: External Activities, Internal Activities, and ExCom – depending on the outcome of the MOP change proposal. Each subcommittee would have both a chair and vice-chair.

9. Next Meeting(s)

- a. Interim Subcommittee meetings – TBD
- b. Interim Full Committee meeting – July 2019 (exact date TBD)

10. Adjourn – **Meeting adjourned at 11:33pm CDT**

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**Residential Building Committee  
Roster & Subcommittees**

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**2018-2019 Committee (Members Appointed)**

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**Voting Members:** Theresa A Weston (Chair), Paul Francisco (Vice chair), Pankaj R. Dharkar, Patricia Graef, Glenn Hourahan, Jeff Inks, Dan Int-Hout, John Jones, Leslie Jonsson, Richard Karg, Neil Leslie, Chris Mathis, David Weishuhn, Eric Werling, Jon Winkler

**Non-Voting Members:** Van Baxter (BOD Ex-Officio), Mick Schwedler (Coordinating Officer)

**2018-2019 Subcommittees:**

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- Technical: Graef (Chair), Mathis, Hourahan, Winkler
- Publications: TBD (Chair), Mathis, Dharkar, Int-Hout
- Stakeholders: Jones (Chair), Hourahan, Inks, Werling, Int-Hout
- Conferences: Karg (Chair), Dharkar, Werling, Weishuhn
- Programs: Leslie (Chair), Inks, Winkler, Weishuhn

**2019-2020 Committee (Members Appointed)**

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**Voting Members:** Paul Francisco (Chair), Patricia Graef (Vice chair), Steve Baden, Roy Crawford, Pankaj R. Dharkar, William Healy, Glenn Hourahan, Dan Int-Hout, John Jones, Richard Karg, Gayathri Vijayakumar, Eric Werling, Jon Winkler

**Non-Voting Members:** Van Baxter (BOD Ex-Officio), Dennis Knight (Coordinating Officer)

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# Attachment A – ExO Report



In all your interactions at these meetings, please remember...

**Code of Ethics**

*“As members of ASHRAE or participants in ASHRAE committees, we pledge to act with honesty, fairness, courtesy, competence, integrity and respect for others in our conduct.”*




**President’s Luncheon**



**Monday, June 24  
12:15 – 2:00 pm**

*Building for People and Performance.  
Achieving Operational Excellence.*

**ASHRAE President 2019-2020  
Darryl K. Boyce, P.Eng**



**Nominations Welcome**

- Nominations for appointed standing committees are sought annually
- Speak with your committee ExO if your appointed term is ending and you wish to be nominated for another Committee
- If a person is completing his or her term on a committee in June 2019, the next appointed committee term would begin on **July 1, 2020**
- Self-nomination is also encouraged
- Nominations are due by **mid-February 2020**
- Councils are elected by the Board of Directors, but nominations are welcomed

For more information, visit: [ashrae.org/committee-nominations](http://ashrae.org/committee-nominations)



**ASHRAE Nominations**

ASHRAE website links are available for Board Officer and Director recommendations, Nominations to Board-elected Standing Committees and Councils, and Appointments to Committees.

<ul style="list-style-type: none"> <li>• Board Officer and Director Recommendations</li> </ul> <p>Link closes for the following Society year each <b>September 29<sup>th</sup></b></p>	<ul style="list-style-type: none"> <li>• Board-elected Standing Committee and Council Nominations</li> </ul> <p>Link closes for the following Society year each <b>September 15<sup>th</sup></b></p>	<ul style="list-style-type: none"> <li>• Standing Committee Nominations, Appointed by the President-Elect</li> </ul> <p>Link closes for the following Society year each <b>February 15<sup>th</sup></b></p>
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For more information, visit: [ashrae.org/committee-nominations](http://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.

For more information, visit: [ashrae.org/commercialism](http://ashrae.org/commercialism)



## Presidential Ad Hocs

### Standards Membership Model Ad Hoc

- Final report will be submitted in Kansas City
- Implementation will require collaboration among Finance Committee, Members Council and Publishing & Education Council

### Smart Grid Design Guide Ad Hoc

- Developing Smart-Grid Application Guide to provide building owners, managers, and designers with guidance on the smart grid, applicable regulations, and how to operate their building in the smart-grid environment
- Publication planned for Summer 2019

### Event Sponsorship Presidential Ad Hoc Committee

- April 2019, the Event Sponsorship Presidential Ad Hoc Committee, led by President-elect Chuck Gulledge, met to investigate opportunities to acquire sponsorships for meetings and events
- The committee's goal is to increase event sponsorship revenue and thereby reduce registration fees



## Government Outreach Days

### All ASHRAE Members are invited to participate – Get Involved!



Meetings with Government Officials are growing:

- SY 2016-17: 8
- SY 2017-18: 16
- SY 2018-19: 29
- SY 2019-20: 45 (anticipated)



152 Member Participants

Advocacy resources available in ASHRAE 365 and [ashrae.org/advocacytoolkit](http://ashrae.org/advocacytoolkit)



## Signed Memoranda of Understanding

Society Year 2018-2019



## ASHRAE's New Global HQ



180 Technology Parkway  
Peachtree Corners, Ga

- Building campaign to help fund the new HQ is underway
- Aims to be a net-zero-energy ready office
- Showcase for the latest HVAC&R equipment and technology
- Retrofitted new HQ building will have a zero carbon footprint
- Move expected by October 2020

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: Collins Project Management  
Construction Manager at Risk: Skanska  
Commissioning Agent: Epsten Group

For more information, visit: [ashrae.org/newhq](http://ashrae.org/newhq)



## "R" In ASHRAE



### ASHRAE Launches All New Refrigeration Page

With refrigeration literally in its name, ASHRAE offers a wide selection of information and publications concerning refrigeration and refrigerants – from standards and design guides to ASHRAE courses as well as a monthly column in the ASHRAE Journal, and more.

ASHRAE and the International Institute of Refrigeration (IIR) announced on April 11, 2019 the establishment of new definitions for five refrigeration keywords, which are:

- Cooling
- Refrigeration
- Chilling
- Freezing
- Cold Chain

For more information, visit: [ashrae.org/refrigeration](http://ashrae.org/refrigeration)



## World Refrigeration Day



### The Coolest Day of the Year June 26, 2019

- ASHRAE endorses the first World Refrigeration Day
- Established to raise awareness of refrigeration, air conditioning and heat pumps and their role in modern society to a wider audience
- #Refrigerants4Life

For more information, visit: [ashrae.org/refrigeration](http://ashrae.org/refrigeration)



## New Strategic Plan

### Strategic Plan 2019-2024



**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.

**Find out more about the new plan**  
Attend Seminar 27: ASHRAE's 2019 Strategic Plan: Development, Initiatives and Implementation  
Monday, June 24 from 9:45–10:45 AM  
Kansas City Convention Center, Room 2105

 [ashrae.org](http://ashrae.org)

## Strategic Plan At-A-Glance

**Initiative Area: Built Environment Of The Future**

- 1 RESILIENT BUILDINGS AND COMMUNITIES** 
- 2 INDOOR ENVIRONMENTAL QUALITY** 

**Initiative Area: Future Of ASHRAE**

- 3 ORGANIZATIONAL STREAMLINING** 
- 4 IMPROVE CHAPTER ENGAGEMENT, CAPACITY AND SUPPORT** 

Strategic Plan At-A-Glance available for download **beginning 7/1/2019**  
[ashrae.org/strategicplan](http://ashrae.org/strategicplan)

 [ashrae.org](http://ashrae.org)

## Recent Publications

- ASHRAE Design Guide for Cool Thermal Storage, Second Edition
- Advancing DCIM with IT Equipment Integration (ASHRAE Datacom Series, Book 14)
- Advanced Energy Design Guide for Small to Medium Office Buildings: Achieving Zero Energy
- Standard 218-2019, Method of Test for Lubricant and Refrigerant Miscibility Determination
- Standard 30-2019, Method of Testing Liquid Chillers
- Standard 41.8 2016 (RA 2019), Standard Methods for Liquid Flow Measurement
- Standard 15-2019, Safety Standard for Refrigeration Systems
- Standard 34-2019, Designation and Safety Classification of Refrigerants
- Standard 150-2019, Method of Testing the Performance of Cool Storage Systems
- Humidity Control Events in Perioperative Care Areas (free white paper from TC 9.6)
- Water-Cooled Servers Common Designs, Components, and Processes (free white paper from TC 9.9)
- Spanish translations: Standard 188-2018, Thermal Guidelines for Data Processing Environments, 4th ed.



To purchase publications, visit: [ashrae.org/bookstore](http://ashrae.org/bookstore)

 [ashrae.org](http://ashrae.org)

## Upcoming Publications

**ASHRAE Design Guide for Multifamily Residential Buildings (Fall 2019)**

- HPB Simplified (textbook) (Fall 2019)
- ASHRAE Design Guide for Ventilation of Hazardous Spaces (Fall 2019)
- Nearly ZEB Hospitals Guide Book (co-published w/RHEVA) (Fall 2019)
- HVAC Design Guide for DOE Nuclear Facilities, 2nd ed. (Fall 2019)
- A Practitioner's Guide to Engineering Management (Fall 2019)
- Smart Grid Application Guide (Late 2019)
- ASHRAE Design Guide for Tall, Supertall and Megatall Buildings Design Guide 2nd ed. (Late 2019)
- Air Conditioning System Design Manual, 3rd ed. (Late 2019)
- Design Considerations for Datacom Equipment Centers, 3rd ed. (Datacom 3) (Late 2019)
- ASHRAE Design Guide for Hot-Climate Buildings (Late 2019)
- Natural Ventilation Design Guide (Jan 2020)
- Design Guide for Combustion Turbine Inlet Air Cooling Systems, 2nd ed. (Jan 2020)
- ASHRAE Design Guide for Duct Systems (January 2020)
- 125th Anniversary books: Evolution of Components and Design Build Practices after 1900; Proclaiming the Truth, 2nd ed.; Adventures in Heat & Cold; Twentieth Century of Air Conditioning (January 2020)

 [ashrae.org](http://ashrae.org)

## ASHRAE Learning Institute (ALI)

### New Courses



The following courses are being offered during the Annual Conference:

- Effective Presentation for Positive Results
- Guideline 36: Best in Class HVAC Control
- IgCC and ASHRAE Standard 189.1 Technical Provisions
- Laboratory Exhaust Stacks: Safe and Energy-Efficient Design
- Solar PV & Thermal Systems Analysis and Design

- Advanced Design for Net Zero Buildings
- Choosing the Right Energy Code for Your Project: IECC 2018 or ASHRAE 90.1-2016
- How Smart, Efficient, Sustainable Systems Lead to Improved Resilience
- Thermal Energy Storage Systems for Air Conditioning

For more information, visit: [ashrae.org/education](http://ashrae.org/education)

 [ashrae.org](http://ashrae.org)

## ASHRAE eLearning

- PDHs/CEUs: Most courses recognized by AIA and GBCI.
- Train on your own schedule from any computer with internet access.
- No special software required.
- Free tracking reports.
- More than 90 courses, including:
  - **Introduction to Refrigerants NEW!**
  - **Refrigerant Selection NEW!**
  - **Refrigerant Management NEW!**



For the complete course catalog, visit: <https://elearning.ashrae.org>

 [ashrae.org](http://ashrae.org)

## Certified HVAC Designer (CHD) Certification

Launched March 2019

The CHD certification validates competency of the HVAC Designer working under the responsible charge of an engineer.

Industry Need & Demand

In an "Industry Need" survey, ASHRAE Member respondents agreed:

Worthwhile Professional Development Goal



Tool to Identify Competent New Hire Prospects



View the NEW CHD video here: [ashrae.org/chd#video](http://ashrae.org/chd#video)



## Advanced Energy Design Guides

- Roughly 630,000 total copies of 12 published guides in circulation
- **Advanced Energy Design Guide for K-12 School Buildings – Achieving Zero Energy** – Published in January 2018
  - Applicable to all sizes and types of K-12 school construction
- **Advanced Energy Design Guide for Small to Medium Office Buildings – Achieving Zero Energy** – Published June 2019
  - Applicable to office buildings 10,000 to 100,000 ft<sup>2</sup> which a building height of less than 75 feet.
- **Advanced Energy Design Guide for Multifamily Residential Buildings – Achieving Zero Energy** – In Development

For more information, visit: [ashrae.org/freeaedg](http://ashrae.org/freeaedg)



## Building EQ

Take your building to the next level beyond benchmarking

- Online data entry & submission
- Metered data exchange from ENERGY STAR® Portfolio Manager
- Consistent, streamlined process to conduct ASHRAE Level 1 Energy Audit
- Auto-populated audit reports aligned with ASHRAE Standard 211
- Measured data and actionable recommendations to improve building energy performance



For more information, visit: [ashrae.org/BuildingEQ](http://ashrae.org/BuildingEQ)



## Online Standards Review Database

Launched in September 2018, the online standards review database allows members and non-members access to public review drafts for standards, guidelines, and addenda and to submit comments.

The new system offers:

- single sign-on feature
- new dashboard which highlights items that require attention, provides quick links to individual / committee comments, continuous maintenance proposals and outstanding ballot results.



For more information, visit: [ashrae.org/publicreviews](http://ashrae.org/publicreviews)



## Publishing/Education Strategies to Improve Content Access

Enhance member access using online delivery

- ASHRAE Technology Portal for ASHRAE Journal, Research Reports, Conference Papers, Seminars
- Handbook PDFs added to ASHRAE Technology Portal to eliminate CDs
- 90.1 Portal syncs the 2016 standard with the user's manual plus red-line version

Expand content available electronically

- Free Online Access to *Science & Technology for the Built Environment*, ASHRAE's journal of archival research

Use web-based tools to optimize volunteer time

- Handbook Chapter Authoring Teams using Authoring Portal for 2019 Handbook

Customize training and translate publications applying business models

Trackable delivery of Handbooks to more countries

For more information, visit: [ashrae.org/technology-portal](http://ashrae.org/technology-portal)



## See You There!

- International Congress of Refrigeration 2019  
**August 24-30, 2019 – Montréal, Québec, Canada**
- 2019 ASHRAE Building Performance Analysis Conference  
**September 25-27, 2019 – Denver, CO**
- 7<sup>th</sup> International Conference on Energy Research and Development  
**November 19-21, 2019 – State of Kuwait**
- Greenbuild International Conference and Expo  
**November 20-22, 2019 – Atlanta, GA**
- 2019 Building XIV International Conference  
**December 9-12, 2019 – Clearwater, FL**
- IEA International Heat Pump Conference  
**May 11-14, 2020 – Jeju Island, South Korea**



@ Greenbuild Expo

For more information, visit: [ashrae.org/conferences](http://ashrae.org/conferences)



## Attachment B – Proposed Changes to RBC MOP

RBC would like to make changes to their MOP as shown below in strike-through (remove) and underline (add). The goal is to remove the specific subcommittee assignment and responsibility information from their MOP and put it into their reference manual. They believe that this is a more appropriate place for that information.

### SECTION E – SUBCOMMITTEES

#### Part 1. Organization

- E1.1 Standing Subcommittees of the RBC are organized by the Chair as necessary to satisfy the needs of the committee.
- E1.2 Ad hoc subcommittees may be appointed by the Chair of the committee
- E1.3 The Chair shall form additional subcommittees as needed to conduct the business of the RBC in a practical and efficient manner. As conditions change, the Chair may dissolve these subcommittees.
- E1.4 The Chair shall appoint the members and chair of each subcommittee. The chair of each subcommittee must be a member of RBC. At least three subcommittee members should be members of the RBC, but the Chair may appoint Additional Subcommittee members who are not members of the RBC when there is a need for members who have expertise and experience in certain areas that are of immediate importance and not available from the RBC members.
- E1.5 Subcommittee members are appointed for the Society year. If a member's term of service on the committee continues into the next Society year, they may be re-appointed to the same or different subcommittee by the incoming Chair.
- E1.6 The subcommittees shall meet at least two (2) times per year at the Annual and Winter Society meetings.
- E1.7 The subcommittee Chair shall report subcommittee activities at the appropriate point in the agenda of the RBC meeting

#### Part 2. Responsibilities

##### ~~E2.1 Program Subcommittee~~

~~2.1.1 Develop, manage and coordinate a long term RBC program plan for Society Meetings and ASHRAE sponsored conferences in cooperation with CEC. Identify potential topics and program chairs for RBC sponsored programs.~~

~~2.1.2 Sponsor or co-sponsor workshops, forums, seminars, symposia, and other technical presentations to bring residential building content to ASHRAE members and building professionals.~~

~~2.1.3 Liaise with other Society Committees, TCs, and other residential building professionals to identify related speakers/presenters for their programs when requested.~~

##### ~~E2.2 Conferences Subcommittee~~

~~2.2.1 Identify and recommend to Technology Council conferences and workshops that the Society should sponsor or support.~~

~~2.2.2 Oversee the Society's role in the conferences and workshops as identified above in cooperation with CEC.~~

#### ~~E2.3 Stakeholders Subcommittee~~

~~2.3.1 Identify and engage external stakeholders relevant to residential buildings.~~

~~2.3.2 Coordinate with Program Subcommittee and other Society entities to create and maintain two-way communications with stakeholders.~~

~~2.3.3 Inform stakeholders of opportunities to support RBC and Society strategic objectives.~~

#### ~~E2.4 Publications Subcommittee~~

~~2.4.1 Identify opportunities to create or improve residential standards and technical information in the broader residential building community and coordinate activities with TAC and Standards Committee. Report opportunities and Society engagement efficacy to the RBC.~~

~~2.4.2 Coordinate and generate technical content in ASHRAE publications relevant to residential buildings.~~

~~2.4.3 Coordinate activities in residential guides and residential portions of broader guides with relevant committees responsible for those guides.~~

#### ~~E2.5 Technical Subcommittee~~

~~2.5.1 Provide policy level perspective to the RBC and Society to support technically sound actions affecting residential objectives.~~

~~2.5.2 Coordinate with technical parts of ASHRAE (e.g., TCs) and the Technology Council (e.g., Research Activities Committee (RAC), Standards Committee (StdC), Technical Activities Committee (TAC), Environmental Health (EHC), and Refrigeration Committee (Ref)) to facilitate residential activities.~~

## Attachment C – Proposed Changes to RBC Rules of the Board (ROB)

RBC would like to make changes to their ROB as shown below in strike-through (remove) and **underline (add)**. The goal is to provide increased continuity from one society year to the next by extending the term of the Chair and Vice-chair from one year to two years.

### 2.423 RESIDENTIAL BUILDINGS COMMITTEE

#### 2.423.002 MEMBERSHIP

##### 2.423.002.1 Composition

The members of this committee are as follow

A. Maximum of fifteen (15) voting members, including a chair and a vice chair;

B. Voting members shall include:

1. a past member of Standards Committee
2. a past member of Research Administration Committee
3. a past member of Members Council
4. a past member of Environmental Health Committee
5. a representative of the home/multi-family building/remodeling industry or other residential industry segments
6. two current or past chairs or other committee officers of a technical committee or standards project committee involved in residential issues
7. a member from outside the U.S. and Canada
8. two representatives of major residential stakeholder organizations or government agencies
9. a past Society officer
10. members at-large as needed

C. Non-voting members include a Board ex-officio member and coordinating officer.

##### 2.423.002.2 Qualifications

A. The chair and vice chair shall hold the grade of Member or higher in the Society.

B. The majority of the voting members of the committee must be ASHRAE members of Associate Grade or higher.

##### 2.423.002.3 Term of Service

The term of service for voting members is intended to be three (3) years, subject to ROB 3.300 *Election and Appointment Procedures*.

The term of service for the chair and vice-chair is intended to be (2) years, subject to ROB 3.300 *Election and Appointment Procedures*.

**Attachment D – RBC 2018-19 MBOs**

**Residential Building Committee MBOs 2018-19  
Updated: June 2019**

Item	MBO	Status	Due Date	Assigned To	Comments
<b>1. RBC Membership Requirements</b>					
1.1	Review existing membership requirements in the ROB and identify changes needed to get the representation needed on the RBC.	Complete	11/1/2018	Weston, Francisco	Changes approved in Atlanta.
1.2	Provide proposed changes for consideration by SRC (ROB changes) and Tech Council OPS Subc (MOP changes).	Complete	11/30/2018	Weston, Francisco	ROB changes approved in Atlanta. MOP change proposal brought to Ops in Kansas city.
<b>2. Outreach to stakeholders</b>					
2.1	Identify contacts and assign committee champions for top dozen organizations on June 2018 stakeholder list.	Ongoing	<del>9/1/2018</del> 10/30/2018	Stkehlders SubC	The Subcommittee determined that the Stakeholder list was not broad enough in scope and is reworking the list
2.2	Initiate contact through champions using conversational script developed by Stakeholders subcommittee	Ongoing	12/1/2018	Stkehlders SubC	The Subcommittee members determined that a preamble was needed in order to engage and recruit potential stakeholder. The Subcommittee also determined that the current list of questions needed to be reworked in order to get valuable/useful input and data. Additional work will be done in Kansas City.
2.3	Identify contacts and propose interaction with existing building focused stake-holders	Ongoing	3/1/2019	Stkehlders SubC	Will be addressed as part of MBO 2.1.
<b>3. Promotion of ASHRAE Residential Publications</b>					
3.1	Create one-page fact sheets for high priority residential publications identified by GAC.	Complete	10/1/2018	Technical SubC	Requested fact sheets have been sent to GAC. Will be an on-going staff activity as new requests come in.
3.2	Work with GAC to promote ASHRAE standards and publications for residential buildings.	On-going	6/30/2019	ALL	Will be an on-going activity moving forward.

Item	MBO	Status	Due Date	Assigned To	Comments
<b>4. Gap Analysis</b>					
4.1	Review existing ASHRAE publications and other resources to identify gaps in coverage of residential buildings, with emphasis on multi-family residential buildings.	Ongoing	12/1/2018	Technical/ Pblications SubC	The committee has decided to utilize the stakeholder outreach effort to solicit input on gaps in resources.
4.2	Work with appropriate committees to propose additions or changes to cover gaps.	Ongoing	6/30/2019	ALL	The committee has decided to utilize the stakeholder outreach effort to solicit input on gaps in resources.
4.3	Work with Handbook Committee and TCs to create a residential index for Handbook.	Closed	2/1/2019	Pblications SubC	A Handbook index was determined to be untenable. Committee will reach out to Handbook committee to determine a different way to identify residential content in the handbook
<b>5. Research</b>					
5.1	Work with RAC to develop a process to identify, review, and monitor residential themed research projects.	Complete	6/30/2019	Technical SubC	Modeled after EHC role in pertinent RTARs.
5.2	Identify needed research based on outreach to stakeholders and work with pertinent TCs to generate RTARs and/or Work Statements	Ongoing	<del>12/30/2018</del> 6/30/2019	Technical SubC	Cosponsoring 1861-RP with TC 2.1. Reviewing other RTARs and Work statements from RAC.
<b>6. Training</b>					
6	Identify needed training topics through outreach to ASHRAE membership and outside stakeholders.	Ongoing	<del>7/1/2018</del> 6/30/2019	Pblications SubC	Committee to reach out to CTTC in regards to DL presentations.

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