



## ASHRAE Technical Committee 2.7

### ASHRAE TC 2.7 Seismic, Wind and Flood Resistant Design Main Committee Meeting Minutes 1:00pm - 4:00pm, Zoom Meeting Wednesday, February 3<sup>rd</sup> 2021 <https://ashrae-org.zoom.us/j/91520906201?pwd=cXFGZXBrVFJnYVQrc2ZsNXJaVzJHZz09>

1. **Opening, Hooti**
  - 1.1. Additions, modifications to the agenda
2. **Introduction of those present, All** [5 minutes]
3. **Confirmation of Current Voting Members, Waters** [3 minutes]

*Steven Duda asked to be a corresponding member – adjusted that today*

*10 voting members: Matthew H., Angela W., Matt C., Scott C, Greg M, Harold D, Jim T, John G, Prasad N, Michael M*

*7 of 10 present – Quorum reached*
4. **Review and approval of the minutes, Clark** [3 minutes]

*Motion: Approve Summer 2020 minutes*

*Made by: Jim Tauby*

*Second: Scott Campbell*

*Motion Passes*
5. **ASHRAE Liaisons** [15 minutes]
6. **Secretary's report, Clark** [3 minutes]

*No report*
7. **TC Chair's Report, Hooti** [5 minutes]

*Report attached in minutes*
8. **Subcommittee reports (written reports to be given to Secretary)**
  - 8.1. **Standards Subcommittee, Tauby** [3 minutes]
    - 8.1.1. ASHRAE 171 / SPC 171, Tauby

*Current status – 171 has been approved, being used quite often. Jim has not received any comments or changes that would warrant a revision. Reaffirmation is recommended*

*Karl said there was a discussion yesterday on changes. Karl suggests having a discussion and Scott says we should look at references.*

*Jim has been working with OSPHD for 30 years. He says requests change by person, suggests not doing anything in 171 in regards to OSHPD. People should work with OSHPD separately.*

*Karl Suggests vote for reaffirmation with editorial changes(references)*

*Agreed to vote on at next meeting – Angela will send document to voting members*
  - 8.2. **Publications Subcommittee, Carlson** [15 minutes]

8.2.1.Applications Handbook Chapter 56, *Carlson*

8.2.2.Other publications

8.2.2.1. Practical Guide 2<sup>nd</sup> Ed., *Tauby*

*Had conversation about Practical guide – 2012 last edition. A lot of changes since 2012. Recommend update.*

*Jim – if as a group we agree on a new publication – Jim will work directly with ASHRAE on a new contract. A new contract will be created based on work. Matthew will let publications know directly and they will work with Jim.*

*Jim – ASHRAE doesn't like to put anything that isn't published already. Past experience caused delayed when doing this. If the publication isn't expected in the next year, we should not include it.*

*Karl – can provide assistance or checking of technical content.*

*2.7 will be setting a PMS to review the document.*

8.2.2.2. Others – HPAC, ASHRAE Journal, etc

8.2.3.Website, Clark/Selman

### 8.3. Research Subcommittee, *Simmons*

[15 minutes]

8.3.1.Research Chair Report

*Robert not present*

*At the research meeting, Robert went over topics for research:*

- 75lb rule for inline ductwork – project to investigate seismic restraint exception for this. This is the only topic currently*
- Currently we do not have any guideline or standard for floating floor. Everyone using their judgement today. Something Valid to look at in the future*

8.3.2.Current research projects

8.3.3.Proposed research

8.3.3.1. Research project to investigate the basis of the seismic restraint exemption for components weighing less than or equal to 75 lb that are in-line with a duct system was suggested by Karl Peterman.

8.3.3.2. Robert Simmons and Jim Tauby will prepare an RTAR for the 75 lb exemption investigation. TC5.2 and TC5.3 were suggested as possible partners in the research project.

8.3.4.Outside research/testing

8.3.4.1. MCEER, PEER, EERI

8.3.4.2. Others

### 8.4. Programs Subcommittee, *Dubensky*

[20 minutes]

*Program meeting report attached below*

8.4.1.Current Issues/Hot Topics

8.4.2.Possible Programs future –

8.4.2.1. Wind and Seismic International codes for various equipment (Tauby)

8.4.2.2. Certification of seismic brace systems (Kenny Hightower)

8.4.2.3. Seismic certification of equipment (Hooti)

8.4.2.4. Cosponsor of the Fellows Debate. Delegated Design

Debate both sides of topic, 1-3 pm on Tuesdays

Mike Bilderbeck - Lead

Jim Tauby - Debater

Steve Duda - Debater

#### 8.4.3.Next Meeting – Phoenix Arizona

### 8.5. Long range planning, *Hooti*

8.5.1.Installation inspections

8.5.2.Testing and certification

8.5.3.System approach

8.5.4.Committee position on engineering disciplines appropriate for design of seismic/wind for non-structural components such as HVAC

### 8.6. Other committees

[15 minutes]

8.6.1.Seismic Certification, *Carlson*

8.6.2.Inspections, *Simmons*

8.6.3.Codes and Specifications, (*Selman, Peterman*)

8.6.4.Wind resistance, (*Papavizas*)

8.6.5.Flood resistance, (*Carlson*)

### 9. Liaisons,

[20 minutes]

9.1.1.1. ASHRAE Handbook Liaison (if present)

9.1.1.2. ALI, *Warick*

9.1.1.3. ASHRAE TG 2.HVAC Security, *Campbell/Peterman*

*TC2.10 – Scott – A lot of work on the resilience side. ASHRAE has made resilience a high priority. 2.10 drafted a framework and presented to ASHRAE leadership. ASHRAE has now asked 2.10 to draft a roadmap. There is a push for resilience in ASHRAE and focus on writing a resilience based standard.*

9.1.1.4. ASHRAE TC 2.6 Sound&Vibration, *Hooti*

*Tried to incorporate crumb rubber isolation pad to handbook. This material provides a significant vibration isolation. It is used for floating floor isolation. Being added to the electronic version and will be in future handbook prints. Engineered foams included as well*

9.1.1.5. ASHRAE TC 5.1 Fans, 5.2 Duct, 9.6 Healthcare, 9.7 Educational, 9.9 Mission Critical, 9.4 Justice facilities and security(*Fitts*)others

*5.1 - OSHPD review time has become quite long. Over a year. Other than that, nothing new*

*9.6 – No update*

*9.4- adding COVID paragraph for new and existing buildings*

9.1.1.6. ASTM E33 (E580 ceilings), *Peterman*

*Ceiling suspension systems. Ongoing participation on this. Tweaking the test parameters for testing ceiling grids. There have been a couple ballots in the past years. If Interested – take a look at E580, E3090*

*ISO wants to start a similar standard for Ceiling suspension grids*

*E06 – Building systems. Oversees anything having to do with concrete. Nothing substantial to bring to the committee. They have fairly active groups. There have been some changes in the ASTM standard to Steel.*

9.1.1.7. ASCE, *Simmons/Peterman*

*New version coming out next year in print. 2022 edition in final review stages. Huge changes to Seismic.*

9.1.1.8. ICC, *Campbell*

*Not much to report, Group A this year, Group B is next year, Structural and residential code proposals will be in January.*

9.1.1.9. BSSC, FEMA, NEHRP, *Simmons/Campbell*

9.1.1.10. ATC, *Carlson*

9.1.1.11. AHRI, *Abbate*

*AHRI is changing their Org chart. New process is being launched soon. No changes to standard but just how they are revised and managed. There is an AHRI standard on Seismic qualification referencing ASCE7.*

9.1.1.12. VISCMA, *Warick*

*VISCMA will possibly be putting together a position on floating floor. Angela will put something together for June to get this started.*

*B line is no longer participating. ISOtech is now a member.  
Discussed the possibility of a temporary visitors pass.*

9.1.1.13. SMACNA, *Deer*

9.1.1.14. MSS, *Naik*

9.1.1.15. Others: ACI, INCE, NCAC, USGS, USGBC, MCEER, PEER, etc.

*INCE – Conference will now be virtual. If anyone wants to take board certification, that will be available.*

**10. Operations Subcommittee, Waters**

[15 minutes]

10.1.1. Honors and Awards, *Steve Duda*

10.1.2. Membership, *Waters*

10.1.2.1. Review of roster

*Joel will be rolling on as a voting member*

10.1.3. Subcommittee times for next meeting

**11. New business/Old business**

[20 minutes]

**12. Next meeting date and location - Phoenix Arizona June 2021**

**13. Adjourn**

**TC CHAIR BREAKFAST**  
**Announcements and Reminders for TC/TG/TRG & MTG Chairs**  
**Virtual Winter Meeting 2021**

**A. NEW!**

**1. Discuss and confirm that TGs, TRGs, and MTGs in section will continue in 21-22 Society Year**

This could be an agenda item for your Winter Meeting to formally reaffirm for next year. TCs are encouraged to work with Section Head on new FG Evaluation worksheet.

From TC MOP: Group Governance, Purpose and Scope

**1.5. Review**

**1.5.1.** Once a year, preferably at, or prior to, each Annual meeting, the Committee Chair and Committee Membership shall evaluate their progress in accomplishing the purpose for which they were constituted and recommend one of the following actions to their Section Head:

- a) Continue as a TC, TG, MTG, or TRG
- b) Convert from a TG to a TC
- c) Convert from a TRG to a TG or TC
- d) Merge with a TC/TG/TRG and submit a revised scope for the merged committee
- e) Dissolve the TC, TG, MTG, or TRG.
  - i) If a TC/TG/TRG/MTG votes to disband, it must establish whether any current responsibilities should be continued and, if so, recommend existing TC/TRG/MTG(s) to assume responsibility and obtain those committee's written concurrence

**2. TC Meeting schedule and protocols**

TC committee meeting schedules posted at [www.ashrae.org/conferences/2021-virtual-winter-conference](http://www.ashrae.org/conferences/2021-virtual-winter-conference). Access to virtual committee meetings will available to all. The meeting access information is included in the program.

**3. 21-22 Roster Rollover**

Remember, the current 2020-2021 roster for your TC, TG or MTG is in effect until after the June meeting later this year.

TC Chairs will receive a unique link to an online workbook for your particular TC that will allow you to update membership and roster assignments in order to create your SY21-22 roster. Please make sure that the completed workbook is submitted on or before Tuesday night, January 26<sup>th</sup>, of the Winter Meeting. Online training will be available and announced shortly. A recorded training presentation on how to use this workbook is posted on our website at [www.ashrae.org/technical-resources/technical-committees/tc-training-and-presentations](http://www.ashrae.org/technical-resources/technical-committees/tc-training-and-presentations).

**4. Interim TC Meeting Procedures**

TAC is encouraging TC's to meet in between ASHRAE Meeting. TAC will implement the following:

- Maintain a listing of the interim meetings on the Technical Committees webpage ([www.ashrae.org/technical-resources/technical-committees](http://www.ashrae.org/technical-resources/technical-committees)), similar to the listing done for Standards.
- TC interim meetings should be posted (by emailing the alias [TCmeetings@ashrae.net](mailto:TCmeetings@ashrae.net)) two weeks before an online meeting and four weeks before a face-to-face meeting. The person emailing should also include the meeting call-in info/ link for posting.
- To keep our members apprised of the meetings, we will add a notice in the ASHRAE Journal Newsletter (bimonthly) to remind our members to check the listing and to provide a link to the list.

**5. New Section Head/TC leadership Basecamp**

A new Basecamp (<https://3.basecamp.com/3106353/projects/15520814>) is set up to communicate and transfer documents between TAC Section Heads and TC leadership (Chairs, Vice Chairs, Secretary) at TC members can participate at <https://3.basecamp.com/3106353/join/8MHSs5gveaLg>. Send staff

([shammerling@ashrae.org](mailto:shammerling@ashrae.org)) an email if you need access.

## 6. TC Re-Org update

TAC has a subcommittee to implement recommendations of TC Re-Org Ad Hoc final report.

For those TC's that have decided to merge, you need to:

- Vote on the revised Title & Scope. Any combining TC's need to be voting on the same TPS.
- Proposed leadership and voting roster need to be completed.
- Please work closely with your Section Head.
- So far, TAC has approved 5 TC mergers – 3.2 & 3.3, 8.10 & 8.12, 9.4 & 9.8, 7.3 & 7.8, and 10.1 & 10.3. More are in the works.

- For those TC's still in the discussion phase, please keep your Section Head aware of your discussion status.

## 7. MTGs that have been formed since Annual Meeting

- **MTG.VIC (Ventilation for Infection Controls)**

## 8. How to Import Your TC Roster Information into MS-Outlook

Detailed instructions on how to import your TC roster information into MS-Outlook has been created and an e-mail announcement will be issued to all TC chairs, vice chairs, and secretaries once these instructions and the restructured TC MOP are posted to the TC page of the website ([www.ashrae.org/TCs](http://www.ashrae.org/TCs) )

## B. VIRTUAL ANNUAL MEETING

### 1. Training Options

#### i. TC/TG/TRG/MTG Chair's Training Topic

A set of training blocks related to leadership training is in development. One of the four blocks is complete. Access will be made available to FG leadership shortly. TAC is exploring making PDH credits available. The training is part of TC Chair's Breakfast virtual meeting. Draft slides sent via email.

#### ii. RAC's Research Subcommittee Chair's Breakfast

RAC has scheduled section Research Subcommittee Chair Breakfasts in July. See [www.ashrae.org/conferences/ashrae-2020-virtual-conference](http://www.ashrae.org/conferences/ashrae-2020-virtual-conference) for schedule details or below for details. Contact [meetings@ashrae.org](mailto:meetings@ashrae.org) to request access to this meeting as a guest by close of business the day prior to the meeting.

Please encourage your Research Subcommittee Chair or another representative from the TC to attend this meeting so that your RAC Research Liaison (RL) can get an update on the TC's research activities and so that your RL can help resolve issues & questions that TC may have concerning their research program.

#### iii. TC Program Subcommittee Chair Training

Tuesday, July 7<sup>th</sup>, 1:00 PM – 2:00 PM EDT. Contact [meetings@ashrae.org](mailto:meetings@ashrae.org) to request access to this meeting as a guest by close of business the day prior to the meeting.

A few things you might learn in training are as follows:

- Incomplete program submissions is the biggest reason for rejection now. All information is needed up front for CEC selection process.
- A packaged session on a similar topic is the best way to greatly improve your chances for acceptance.
- There is no difference in how CEC handles 60 and 90 minute program slots. 60 minute slots are just as good as 90 minute slots if complete.

## C. UPCOMING DEADLINES

1. **TC Activity Forms for the 2021 Virtual Winter Meeting are due to Your Section Head before Tuesday 1/26/2021**

*TC/TG/TRG Activity Feedback Form (Excel)* can be downloaded from the TAC Section and TC Leadership Basecamp - [www.ashrae.org/standards-research--technology/technical-committees/tc-forms-and-documents](http://www.ashrae.org/standards-research--technology/technical-committees/tc-forms-and-documents). Section heads can also provide an electronic copy of the form if requested.

2. **ASHRAE is planning for face-to-face meeting in Phoenix AZ, June 26-30, 2021. Seminar and Forum proposals for Phoenix are due by Monday, February 8, 2021.**

Please visit the following site to submit your proposal: For more information, go to: [www.ashrae.org/phoenix](http://www.ashrae.org/phoenix). Here's the deadlines:

- **Wednesday August 12, 2020:** Conference Paper Abstracts, Technical Papers, and Paper Session Requests Due – PAST DUE
- **Friday September 4, 2020:** Conference Paper Abstract Accept/Reject Notifications
- **Wednesday December 2, 2020:** Final Conference Papers and Request for Conference Paper Sessions Due
- **Monday January 4, 2021:** Conference Paper Accept/Revise/Reject Notifications
- **Wednesday January 6, 2021:** Website Opens for Seminar, Workshop, Forum, Debate, and Panel Proposals
- **Wednesday January 13, 2021:** Revised Conference Papers/Final Technical Papers Due
- **Monday February 8, 2021:** Program Submissions Due / Extended Abstracts Due
- **Thursday February 18, 2021:** Conference and Technical Paper Final Accept/Reject Notifications
- **Friday March 19, 2021:** Program Submissions Accept/Reject Notifications

3. **2021-2022 Hightower Award Nominations by Wednesday, September 1st**

There were 6 nominations for this year's award. Thanks to all TCs that nominated a winner! All that did not win are encouraged to resubmit.

TAC wishes to encourage TCs to make nominations for the 2020-2021 *George B. Hightower Technical Achievement Award*. Nominations are due to Section Heads by September 1, 2021 or sooner. The award recognizes outstanding technical leadership and contributions on a TC/TG/TRG during the past four years, excluding research and standards activities. Please go to the Technical Committee page of the ASHRAE website at the following link under the "Procedures, Forms..." heading: [www.ashrae.org/tcs](http://www.ashrae.org/tcs).

#### D. **REMINDERS**

1. **21-22 Roster Rollover**

Remember, the current 2020-2021 roster for your TC, TG or MTG is in effect until after they meet for the ASHRAE Annual Conference. Rosters will roll over to 2021-2022 at that point.

2. **Useful TC/TG/TRG/MTG Chair Information and forms on ASHRAE website** Information for TC/TG/TRG and MTG chairs can be found on the Technical Committee page of the ASHRAE website at the following link: [www.ashrae.org/tcs](http://www.ashrae.org/tcs)

3. **Request for each TC to briefly review ASHRAE Code of Ethics at start of meeting** See the following link for the latest version of the ASHRAE Code of Ethics: [www.ashrae.org/about-ashrae](http://www.ashrae.org/about-ashrae).

4. **Make a Special Effort to welcome new Members, and Visitors to TC meeting**

Potential new members for your committee have been encouraged to drop-by your meeting. As a result, please make a special effort to recognize and warmly welcome all visitors to your meeting – A TC can never have too many willing and able volunteers.

5. **Is Your Committee Website up to Date?**

If not, please ask your webmaster to at least post the latest minutes and the Virtual Annual meeting times and agenda. If your website has been neglected, add an action item for this meeting to appoint a



responsible member of the TC/TG/TRG who will bring it back to life. The new TC website template has greatly simplified the duties of the TC webmaster and this form of communication is critical to the efficient operation of your committee, and for attracting new members. Please note a listserv is available to TCs to communicate with rostered members and all interested in keeping track of TC activities.

The conversion to a new TC website platform highlighted a couple areas where a refresher of the ASHRAE rules on website maintenance is warranted. First be aware that ASHRAE Products (i.e., handbook chapters, journal articles, final reports from research projects, etc.) cannot be published on your TC's website. It is very appropriate to post the title and scope of the product and then link the reader to the ASHRAE bookstore or other location on the ASHRAE site where the product may be purchased. Any possible exceptions to this rule must be sent through Mark Owen for review and approval ([mowen@ashrae.org](mailto:mowen@ashrae.org)). The second issue involves timely posting of the draft minutes. Draft minutes (and final, approved minutes from the prior meeting) should be posted to your website (or otherwise distributed to the members) within 60 days after the meeting. Please ensure that your secretary and webmaster are aware of this deadline. To assist your secretary in understanding the procedures for taking and reporting minutes, a video has been developed and posted on the Technical Committees' Training page (<http://www.ashrae.org/tcs>). On the same page, a video has also been posted for use by webmasters to learn about the procedures and schedule to maintain the new websites.

6. **TC Master Calendar – Now Available through Google** - The Technical Committee Master Calendar is now available through Google. In order to access this calendar you need to have a Google account.

Once you log into your Google account, follow the instructions below:

To add a friend's calendar, just follow these steps:

- At the bottom of the calendar list on the left, click Add and select Add a friend's calendar.
- Enter the appropriate email address ([techservices1791@gmail.com](mailto:techservices1791@gmail.com)) in the field provided, then click Add.

This calendar is public and will appear under 'Other Calendars' in the left column.

To set up Google Calendar Sync to your Outlook:

- Make sure you're using a supported operating system and Outlook version.
- Download Google Calendar Sync (version 0.9.3.6) at
- <https://google-calendar-sync.en.softonic.com/>
- Once a dialog box appears, click Save File. The downloaded file should open automatically. If it doesn't, manually open it from your browser's download window.
- Click OK to confirm that you're aware this is an executable file.
- Read through the Google Calendar Sync Terms of Service, and click I Agree.
- Follow through the Installation Options and click Install to finish the set-up process.

Once Google Calendar Sync is installed on your computer, the Google Calendar Sync Settings window will appear:

In the Settings window, enter your email address and password and select the Sync Option you prefer. Read about each Sync Option.

You'll also be able to set the time interval for syncing to occur. Please keep in mind that 10 minutes is the minimum time interval allowed.

After the initial set-up, you can access the Google Calendar Sync Settings window again by double-clicking the calendar icon in your Windows System Tray.

## 9. TC E-mail Position Aliases available

SY 20-21 TC Position e-mail alias addresses for the mandatory positions of the Technical Committee management team (Secretary, Standards Sub. Chair, Program Sub. Chair, Handbook Sub. Chair, and Webmaster) will stay in effect until July 1<sup>st</sup>. The 20-21 E-mail Alias list with these position aliases is posted on the ASHRAE website [www.ashrae.org/TCs](http://www.ashrae.org/TCs) under the heading *Procedures, Forms & Information for TCs/TGs/MTGs and TRGs*.

## 10. Restructured TC MOP (Manual of Procedures)



TAC has restructured the TC MOP so that it is easier to navigate and find information. The new TC MOP can be found on the ASHRAE website [www.ashrae.org/TCs](http://www.ashrae.org/TCs) under the heading *Procedures, Forms & Information for TCs/TGs/MTGs and TRGs*.

#### **11. Distribution of TC minutes changed in TC MOP**

The TC MOP and *TC/TG/MTG/TRG Minutes Cover Sheet* form have both been updated and you are no longer required to send the TAC chair a copy of your minutes after each meeting. The new minutes cover sheet can be found on the ASHRAE website [www.ashrae.org/TCs](http://www.ashrae.org/TCs) under the headings *Procedures, Forms & Information for TCs/TGs/MTGs and TRGs – Routine Forms for TC/TG/MTGs/TRGs*.

#### **12. Updated TAC Presentation Template Available for TC members to use with local Chapter**

TAC recently updated the standard presentation and presentation notes that TC members can use, without a lot of effort, to explain what TCs do for the Society and how that work benefits members in your local ASHRAE Chapter.

The new presentation and presentation notes files are posted now at the following link [www.ashrae.org/tcs](http://www.ashrae.org/tcs) under the heading *General TC Information* at the top of the page in case you prefer to direct others to these files posted online. The presentation material is now also available in both English and Spanish.

#### **13. Basecamp and Virtual Meeting Information from ECC**

ECC is offering training to TC leadership at the Winter 2021 Meeting.

More and more TCs and standing committees are making use of ASHRAE's subscription to Basecamp3 to better organize, store, and distribute on-line committee files that are needed for their meetings through a dedicated committee Basecamp site. If you would like to learn more about Basecamp and how to request a site for your particular committee, please go to the Electronic Communications Committee (ECC) web page: (<https://www.ashrae.org/communities/committees/standing-committees/electronic-communications-committee> ) and scroll down to the section titled *Basecamp Guidance*

### **E. RECENT ANNOUNCEMENT**

#### **1. CEC's Standing Request for Future Society Meeting Program Track Suggestions**

The Conferences and Expositions Committee (CEC) oversees ASHRAE's annual and winter conferences and other specialty conferences and expositions globally. The CEC continually works to improve the conference experience for all attendees. To help keep a "pulse" on the technical issues facing professionals in the HVAC&R marketplace, and to create meetings that reach all of ASHRAE's constituencies, the CEC seeks ideas for tracks for the Chicago 2021 Winter meeting and annual and winter conferences beyond as well as topics for specialty conferences from TC members.

Please submit your suggestions to ASHRAE Staff member Tony Giometti ([Giometti@ashrae.org](mailto:Giometti@ashrae.org)). You can also add your track suggestion in the "Comment" section of the TC Activity form for the Orlando meeting.

#### **2. CEC Always Seeks TC Volunteers willing to Support Content Development and Quality Control for Society Technical Program at Society Meetings**

Provide to your Section Head after each Society meeting a list of qualified volunteers from your TC that are potential Technical Session chairs and reviewers of session papers that are related to TC's scope for use by the Conferences & Expositions Committee (CEC) in developing technical content for future technical programs.

#### **3. The Professional Development Committee (PDC) is seeking ideas for new ASHRAE Learning Institute (ALI) courses.**

The Professional Development Committee (PDC) is actively seeking ideas for new ASHRAE Learning Institute (ALI) courses. We need practical courses of broad interest to be presented as face-to-face seminars or short courses, instructor-led online courses and self-paced courses. Examples include courses with a focus on new technologies that need to be shared, fundamentals for engineers new to the discipline, standard applications that need explanation, and courses based on new design guides. Does your TC have a potential course idea?

Contact Karen Murray (ASHRAE staff) [kmurray@ashrae.org](mailto:kmurray@ashrae.org) or [PDCchair@ashrae.net](mailto:PDCchair@ashrae.net) with your course ideas.

**4. ASHRAE Certification Committee seeking ideas from TCs for possible professional certification programs**

Certification Committee seeking ideas from TCs for possible professional certification programs related to 1) support adaptability, resilience and recovery of buildings and communities, 2) promote understanding of indoor environmental quality (IEQ) among practitioners). Representatives from the Certification Committee will meet with TCs in Orlando that expressed an interest or had ideas.

**F. CURRENT & UPCOMING ASHRAE CONFERENCE PROGRAMS**

**1. Chicago Winter Conference – Jan. 23 – Jan. 2, 2021**

Conference Website: <https://www.ashrae.org/chicago>

Conference Program Chair: Maggie Moninski

Program Focus at Chicago Winter Conference

- i. Track 1: HVAC&R Fundamentals and Applications
- ii. Track 2: Systems and Equipment
- iii. Track 3: Refrigeration & Refrigerants
- iv. Track 4: Environmental Health through IEQ
- v. Track 5: Building Performance and Commissioning for Operation and Management
- vi. Track 6: Energy Conservation
- vii. Track 7: International Design
- viii. Track 8: Standards, Guidelines and Codes
- ix. Track 9 (mini-track) based on Chuck Gulledge's Presidential Theme (to be announced and not accepting papers).

**2. Chicago Winter Conference – Jan. 23 – Jan. 2, 2021**

Conference Website: <https://www.ashrae.org/phoenix>

Conference Program Chair: Christine Reinders

Program Focus at Phoenix Annual Conference

- i. Track 1: **Fundamentals and Applications**
- ii. Track 2: HVAC&R Systems and Equipment
- iii. Track 3: Research Summit
- iv. Track 4: Professional Development
- v. Track 5: Design, Control, and Operation of Critical Environments
- vi. Track 6: HVAC&R for Indoor Plants and Animals
- vii. Track 7: Future Proofing – Renewable, Regenerative and Resilient
- viii. Track 8: Hot, Hot, Hot
- ix. Track 9 (mini-track) to be announced

## **G. OTHER UPCOMING WORKSHOPS, CONFERENCES AND EVENTS**

### **1. 2021**

- i. 2021 ASHRAE Virtual Design and Construction Conference – March 8-10, 2021 – Orlando, FL.  
[www.ashrae.org/virtualdesign2021](http://www.ashrae.org/virtualdesign2021)
- ii. IAQ 2020: Indoor Environmental Quality Performance Approaches: Transitioning from IAQ to IEQ – September 13-15, 2021 – Athens, Greece - [www.ashrae.org/iaq2020](http://www.ashrae.org/iaq2020).
- iii. Ventilation 2021: 13th International Industrial Ventilation Conference for Contaminant Control – August 15-18, Toronto, Canada - [www.ashrae.org/conferences/topical-conferences/ventilation-2021](http://www.ashrae.org/conferences/topical-conferences/ventilation-2021).

## **TC2.7 Programs Meeting - 2021 Virtual Winter Conference**

### **Virtual On-demand Technical Program**

**Live Three Day Event: Monday, Feb 9 – Feb 11, 2021**

TC 2.7 submitted the following seminars for the Technical Program

#### Certification of seismic brace systems (Kenny Hightower)

Seminar was accepted for Virtual Conference, postpone until can present in person

How to brace equipment/pipe/duct (Matthew Hooti)

Standard-171 Method of testing (Jim Tauby)

Rating and Certifications (Robert Simmons)

#### Seismic certification of equipment (Matthew Hooti)

Code requirements-When/Where (Robert Simmons)

Equipment Mfg. experience ((Mark Vanderkooy from Greenheck))

How-Certification Requirements (John Giuliano)

### **Phoenix, 26-30 June 2021**

Wednesday January 13, 2021: Revised Conference Papers/Final Technical Papers Due

Monday February 15, 2021: Extended Abstracts Due

Thursday February 18, 2021: Conference and Technical Paper Final Accept/Reject Notifications

Monday February 22, 2021: Program Submissions Due

Friday March 19, 2021: Extended Abstract Accept/Reject Notifications

Friday April 2, 2021: Program Submissions Accept/Reject Notifications

### **Phoenix Tracks**

Conference Chair - Christine Reinders (christinereinders@gmail.com)

1. Fundamentals and Applications
2. HVAC&R Systems and Equipment
3. Research Summit
4. Professional Development
5. Design, Control, and Operation of Critical Environments
6. HVAC&R for Indoor Plants & Animals
7. Future Proofing - Renewable, Regenerative, and Resilient
8. Hot, Hot, Hot

**Hold off on submitting programs for Phoenix until can present in person at Las Vegas**

## Las Vegas, NV, 29 January – 2 February 2022

Monday, March 22, 2021: Conference Paper Abstracts, Technical Papers Due

Monday, April 19, 2021: Conference Paper Abstract Accept/Reject Notifications

Friday, June 18, 2021: Website Opens for Program Proposals

Monday, July 12, 2021: Conference Papers Due

Friday, August 6, 2021: Revised Conference Papers/Final Technical Papers Due

Monday, August 23, 2021: Conference Paper Accept/Revise/Reject Notifications

### Las Vegas Tracks

1. HVAC&R Systems and Equipment
2. Fundamentals and Applications
3. Refrigerants and Refrigeration
4. Buildings at 360°: Papers and presentations explaining methods, equipment, systems and solutions to satisfy occupants' needs, to guarantee buildings' performances and resilience, and to save resources (energy, water, etc.) will fit this track.
5. Energy System Integration
6. Environmental Health and IEQ in the International Arena
7. HVAC for Industrial and Commercial Purposes - Challenges and Opportunities
8. Refrigerants, Safety, Performances: Presentations in this track present advancements and developments about flammability of refrigerants (e.g., HFOs, naturals, etc.), that can reduce the direct emissions, but that may have safety, regulatory and performance issues when deployed on the field.

### **Submit the following programs for Las Vegas**

#### Certification of seismic brace systems (Kenny Hightower)

How to brace equipment/pipe/duct (Matthew Hooti)

Standard-171 Method of testing (Jim Tauby)

Rating and Certifications (Robert Simmons)

#### Seismic certification of equipment (Matthew Hooti)

Code requirements-When/Where (Robert Simmons)

Equipment Mfg. experience ((Mark Vanderkooy from Greenheck))

How-Certification Requirements (John Giuliano)

#### ACI/ASCE anchor requirements, housekeeping pads, etc. (Karl Peterman)

Potential Presenters: Jim Tauby, Matthew Hooti, John Giuliano, Pat Marks

Raise awareness of proper anchoring requirements

How does equipment isolation effect the equipment seismic performance?

Raise awareness with proper connection of equipment to the roof structure.

- Matthew Hooti

## Wind and Seismic International codes for various equipment (Jim Tauby)

Comparison of International codes Seismic: Robert  
-Euro Code, Mid-East Codes, Not Including Canada  
Comparison of International codes Seismic: Hooti

## **Toronto, 25 – 29 June 2022** **Canadian Codes**

### **Future Programs**

- Possible Flood Seminar
- Wind , flood, bomb Blast
- Session on shake table testing
- Back to Basics seminar
- Seismic for Electrical components and distribution systems.
- Co-sponsor with TC6.1, Hydronic and Steam Systems (TC6.1) One speaker from TC6.1 and Tauby from
- TC2.7-seismic for boilers and pumps
- Seismic restraint vs. Vibration Isolation(CARLSON) Roman-VI, Jim Tauby-SP171, John G-Shake Table
- Integration seminar (Pat)
- Panel discussion/debate on some topic, e.g., should Ip be higher for components in rural schools?
- Stamping requirement and whether a Structural Engineer is required to perform the work or if Mechanical Engineer is adequate?
- Seismic standards: ASHRAE 171 - Jim T., Kenny H. chair
- ACI - Scott C.
- Seismic applications: Karl chair
- Equipment certification- John G.
- Pictures (Haiti, US embassy? - Joel D.
- Inspections/Permits, approval/enforcement- Matt H.
- ASCE 7 2022 revisions and updates