

ASHRAE Technical Committee 2.5 – Global Climate Change

2021 Virtual Conference

WebEx Meeting

Tuesday, January 26, 2021 – 1:00 PM – 3:00 PM EST

Meeting Minutes

1. Call to Order (Enrica Galasso)

a. Introduction of members and guests

Enrica Galasso filled in as Chair and led meeting for Matt Clark due to a last minute conflict.

b. ASHRAE Code of Ethics Commitment

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>.)

c. Establish quorum

Quorum Established. Voting Members present were Elizabeth Tomlinson, Janice Means, Elizabeth Jedrlinic, Gerardo Alfonso, Joseph Rendall, Don Brundage, Scott Sherwood, Renee Clair

d. Revise agenda; accept agenda

Agenda accepted with one revision to new business:

- Added discussion on updating ASHRAE position document on Climate Change

e. Approvals (if quorum is met):

There were two revisions to the previous meeting's minutes (June 19, 2020, Virtual Meeting):

- Correction to Handbook Committee Update: Handbook will be published in 2021.
- Correction to TC 6.7 Liaison Report: Changed name a few years ago and have added renewable energy to TC's mission.

Motion to approve the revised minutes by Gerardo Alfonso and second by Joseph Rendall. Motion was approved.

2. Chairman's Announcements (Enrica Galasso)

a. Report of TC/TG Chair's Meeting

It was reported that ASHRAE is looking for special publications to sell because revenues are down. No other key items discussed.

3. Roster Updates (Enrica Galasso)

Previously announced updates effective July 2020:

Matt Clark- Chair
Scott Sherwood – VC
Renee Clair – Secretary
Beth Tomlinson – Handbook
Elizabeth Jedrlinic - Research
Daniel Villa – Programs Chair
Enrica Galasso – Standards/ Certifications

Matt Clark will follow-up via email to active TC participants for next roster update. If anyone is interested, please reach out to Matt directly. In additional, if there are any chair changes required, let Matt know.

4. Subcommittee Reports

a. Programs (Daniel Villa)

- The Programs subcommittee met on 1/25/21.
- The group discussed a seminar that Janice Means is working on with TC 2.8. Committee decided to endorse.
- The group reviewed new ideas, including a seminar on a Climate Assessment Tool from the US Army (Beth Tomlinson) in the June Conference. It would fit well in in Track 7 – Future Proofing: Renewable, Regenerative, and Resilient
- Janice Means suggested a forum on adaptation in non-coastal environments. Potential to propose for June Conference.
- There had been an email from Dave Godwin about a program on HFC Regulations in CA and internationally. The group is deferring to an alternate conference because he did not join meeting.
- The TC has 3 seminars in this conference (Seminars 58, 59, and 60). They will be available on demand once the conference starts.

b. Handbook (Beth Tomlinson)

Not meeting this winter conference because deliverables were submitted. Chapter reviewed and approved for publication in June 2021. Beth recommends the committee reconvenes next summer to review IPCC AR6 and its impacts on the chapter. Beth thanked all those involved for getting the chapter completed and the group thanked Beth for her leadership.

c. Website (Gerardo Alfonso)

Website is updated with current information. All information that needs to be posted should be sent to Gerardo Alfonso. If you see any issues or updates that are needed, let Gerardo know.

d. Research (Elizabeth Jedrlnic)

No on-going research programs currently. The group talked about an RATR that TC 4.2 is likely to submit in the next round and that TC 2.5 will consider co-sponsoring. They are meeting in a of couple weeks to review. If anyone has ideas for future research, reach out to Liz.

e. Standards (Enrica Galasso)

No report this meeting.

f. MTG.LowGWP (Larry Burns, John Karakash)

No update for the group. MTG has not met yet.

5. Liaison Reports

Handbook – Javier Korenko

No liaison present, no report.

Standards – Niels Bidstrup

No liaison present, no report.

Research – TBD

No liaison present, no report.

Staff – Steven Hammerling

No liaison present, no report.

TC 2.7 – Matt Clark

Not present, so no report.

TC 2.8 – Renee Clair

Has not met yet, so no report

TC 2.10 – Scott Sherwood

Has not met yet, so no report

TC 7.1 – Eric Haley

No liaison present, no report.

TC 9.9 – Gerardo Alfonso

Waiting for editorial proof for new version of Thermal Guidelines for Data Processing Environments, 5th Ed. and CFE modeling of data centers research. Data centers in coastal regions. Whitepapers on TC 9.9 website: Cold Weather Shipping acclimation and Best Practices. Impact of Human Health for Hot Aisle Containment solutions, Liquid cooled solutions.

SSPC 90.1 – Don Brundage

The committee has 3 one hour sessions scheduled during the Winter Conference, with one complete. The most relevant topic for this TC is that the 2022 edition of 90.1 has already been approved to have mandatory on-site renewable requirements included (0.25 watts per square foot of the 3 largest floors). It will show up in the published edition that comes out in late 2022.

Previously suggested groups to contact:

SSPC 189.1: Beth Tomlinson was approached about a proposal to include climate risk assessments as part of the owner projects development process.

There was discussion about a guidance document covering regional recommendations for climate adaptation. Janice Means volunteered to get involved. If others are interested, reach out to Beth, Enrica and Liz.

6. Round Table Discussion on Climate Change Related Treaties, Accords, and Activities

No discussion.

7. New Business

a) Government Affairs & Policies Updates:

- The group discussed having a dedicated person in the committee to give on update on Government Affairs and Policies. This could take the place of the roundtable portion of the agenda and should include a global view. The committee agreed that this is a good idea.
- At one time, we had fair portion of the committee that had governmental affairs as their day job. The question was asked if we have anyone on the committee where this is still the case. We are looking for someone that could provide information without it being a big lift.
- Could ASHRAE send us something from their monthly updates that is relevant for climate change? This might be something the GA Committee could help with. Beth will reach out and ask.

- We could structure this in a similar way we do liaison reports. Members can provide updates on issues they are tracking (i.e. electrification and incentivizing DR).
 - It was mentioned that there is more for ASHRAE to do around electrification and that there is discussion about forming a MTG on the topic. Enrica will look into process for new MTG and we will revisit in later meeting
- b) Basecamp: TC 2.5 has not historically used Basecamp, but we are going to start. Voting Members and Sub-Committee Chairs will be granted access. If anyone else wants access, let Matt Clark know.
- c) Strategic Plan: ASHRAE is looking for feedback for the next strategic plan. Matt will be following up with the committee and will call an interim meeting to discuss. If interested in participating, let Matt Clark know.
- d) Climate Change Position Document:
- Steve Hammerling approached the TC about the opportunity to update the Climate Change Position Document. Don Brundage chaired the committee the last time we edited it.
 - The UN does an Assessment Report every 3-4 years that deep dives on issues related to climate change. The position document was based heavily off of it. It will be hard to do an update without having a new version of this report.
 - It was suggested we could setup an ad-hoc group within TC 2.5 to figure out what changes we will make next time we update. The Tech Council appoints voting members, but we can make recommendations. Some feedback we have heard in past is that it is too heavily oriented towards refrigerants.
 - There are rules about non-substantive updates that limit them to updating the year for existing references. Beth suggested adding a reference to the handbook chapter. Much beyond that would not be possible without going through the rewrite committee.
 - The current position paper can be found on the ASHRAE website.
 - We have the ability to revise it every 3 years. We can either reaffirm as is or update. TC 2.5 is the cognizant TC for the position document.
 - We do not need to make a decision on whether to update or not now. We can defer for a year until we IPCC Assessment Report 6 is finished. We would then have details needed to update.
 - The Summary Assessment Report is expected mid-2022. Don Wubbles would likely have more detailed info on timing. Physical science part is due to be released in April / May.
 - There will be a separate meeting for anyone interested in continuing conversation on the position paper. Setup second meeting. Those interested in participating include Don Brundage, Janice Means, Beth Tomlinson, Joe Rendall, Jim Newman, Abdul Sab, and Renee Clair.

8. Adjourn

Janice Means moved to adjourn the meeting and Beth Tomlinson seconded. The meeting was adjourned at 2:29 PM eastern.

Submitted by Renee Clair

List of attendees (information as provided in the meeting chat):

1. Elizabeth Tomlinson, TKDA, Handbook Subcommittee Chair, Voting Member, Elizabeth.Tomlinson@tkda.com (non YEA)
2. Janice K. Means, PE, LEED AP, FESD Voting Member jmeans@ltu.edu
3. Elizabeth Jedrlinic, Trane, Elizabeth.jedrlinic@trane.com, TC 2.5 voting member, Research Subcommittee chair
4. Eric Peterson, visiting researcher at University of Leeds VM TC4.2 Climate Information e.peterson@leeds.ac.uk
5. Daniel Villa, Sandia National Laboratories, TC 2.5 Programs Chair, dlvilla@sandia.gov
6. Alex Corvino, EIT, new member, alexander.corvino@wsp.com
7. Gerardo Alfonso, INGEAL, Bogota, Colombia. Voting. ventas@ingeal.com
8. Joseph Rendall, ORNL, rendalljd@ornl.gov, TC 2.6 voting member
9. jmoberg@stanweaver.com Jacob Moberg (YEA)
10. Michael Roth, michael.roth@klimaat.ca, CM, Non-YEA
11. Don Brundage, dbrunda@southernco.com, voting member, past work on position document and handbook chapter
12. Michael Stark Carrier Corp, corresponding member. mike.stark@carrier.com
13. Jurgen Lobert, new member, Entegris Inc., Jurgen.Lobert@entegris.com
14. Abdul Zameer Ahamed Sab, New Member, From ASHRAE Qatar, MEP Manager. (abdulzameersab@hotmail.com)
15. Larry Burns, Carrier Corp, corresponding member liaison to Low GWP MTG, larry.burns@carrier.com,
16. Scott Sherwood Vice Chair TC2.5
17. Enrica Galasso, non-voting, standard committee chair, National Grid, enrica.galasso@nationalgrid.com CM (YEA)
18. William Ryan University of Illinois at Chicago, wryan@uic.edu
19. Shaojie Wang wsjsxn@gmail.com
20. Renee Clair, Johnson Controls, Secretary & Voting Member, renee.m.clair@jci.com (non-YEA)

Additional attendees: Allen Karpman, Liz Jedrlinic, Peter Hoffman, Richard Pulfer