

**AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR-CONDITIONING
ENGINEERS, INC.**

TC9.3 Agenda

June 27, 2023
Hybrid Meeting (Tampa, FL: Marriot Waterside & Virtual

All times are Eastern Daylight Time.

Committee	Day	Date	Start	End	Room	Location
GPC 23 Rail/Mass Transit Guideline and Mass Transit Subcommittee	Monday	06/26/2023	2:30 PM	5:30 PM	Meeting Room 3 (2)	Hybrid
GPC 23 Rail/Mass Transit Guideline and Mass Transit Subcommittee	Tuesday	06/27/2023	1:00 PM	3:00 PM	Meeting Room 3 (2)	Hybrid
TC 9.3 Programs Subcommittee	Thursday	06/6/2023	11:00 AM	12:00noon	Your own	online
TC 9.3 Handbook Subcommittee	Thursday	06/22/2023	2:00 PM	4:00 PM	Your own	online
TC 9.3 Automotive Subcommittee	Thursday	06/22/2023	2:00 PM	4:00 PM	Your own	online
TC 9.3 Research Subcommittee	Thursday	06/22/2023	11:00 AM	1:00 PM	Your own	online
TC 9.3 Transportation Air Conditioning Main Committee	Tuesday	06/27/2023	3:00 PM	5:00 PM	Meeting Room 7 (2)	Hybrid
SSPC161 SSPC 161 Air Quality Within Commercial Aircraft	Monday	06/26/2023	2:30 PM	4:30 PM	Meeting Room 4 (2)	Hybrid

The Participant Web Meeting links are as follows:

TC 9.03 Mass Transit and GPC 23	https://ashrae.webex.com/ashrae/j.php?MTID=m3d81bb53693e9be5ca272c208fdab229 (Monday) https://ashrae.webex.com/ashrae/j.php?MTID=mb1fe6129da6986b2b9556d6f65584652 (Tuesday)
TC 9.03 Programs	https://ashrae.webex.com/ashrae/j.php?MTID=m5c15f942146b287e4be8a81cf1e87749
TC 9.03 Handbook	https://teams.microsoft.com/l/meetup-join/19%3ameeting_OTFmODM2YWQtMGQzMC00MTY1LWlwZDktMTdjM2UzODc1YzA1%40thread.v2/0?context=%7b%22Tid%22%3a%22a6a61c24-46eb-a657-e25259ad9536%22%2c%22Oid%22%3a%2279c185db-4a42-4fb9-b71a-27e793c49cf3%22%7d
TC 9.03 Automotive	https://teams.microsoft.com/l/meetup-join/19%3ameeting_OTFmODM2YWQtMGQzMC00MTY1LWlwZDktMTdjM2UzODc1YzA1%40thread.v2/0?context=%7b%22Tid%22%3a%22a6a61c24-46eb-a657-e25259ad9536%22%2c%22Oid%22%3a%2279c185db-4a42-4fb9-b71a-27e793c49cf3%22%7d

TC 9.03 Research	https://ashrae.webex.com/ashrae/j.php?MTID=m09d7c8d4cfea587a834f0f11d218d467
TC 9.03 t Main Committee	https://ashrae.webex.com/ashrae/j.php?MTID=m3264b01e21f5263f8e98216b3d65171c
SSPC 161	https://ashrae.webex.com/ashrae/j.php?MTID=m7473fbc54671abdf8ca11ec323f3ca9f

Agenda

3:00 Call to Order & Establishment of Quorum; Online

a. Introductions

Attendees:

Name	VM/CM/PCM/Guest	YEA?
Rene Beaulieu	VM (1)	
Don Leblanc	VM (2)	
Alex Schmig	PCM	
Ben Thiesse	VM (3)	YEA
Dan Fillenwarth	PCM	
Francisco Caicedo	Guest	
GD Mathur	VM (4)	
Jim Bushnell	VM (5)	
Kirk Stifle	Guest	
Michael Levin	VM (6)	
Stephanie Licht	CM	YEA
Tony Di Iorio	CM	
Stephen Trent	VM (7 of 13- Quorum)	YEA

b. Roster Update

a. ID voting member roll-off after 2023 Summer Meeting

Don Leblanc is rolling from Chair & VM to CM

b. ID voting member additions

Judith Anderson to join as VM

Alex Schmig to join as VM

c. Review committee positions (new/continuing)

Ben Thiesse will take over for Stephen Trent for Aviation Subcommittee Reports (SSPC161)

d. Leadership Changes

Stephen Trent is the incoming Chair of T.C. 9.3- replacing Don Leblanc

Lubos Forejt is the incoming Vice Chair of T.C. 9.3- replacing Stephen Trent

Alex Schmig is the incoming Secretary of T.C. 9.3- replacing Lubos Forejt

3:30 Old Business

Approval of Minutes from January Atlanta Meeting

Motion to Approve was made by GD Mathur, Seconded by Mike Levin. The vote passed 7-0-0-0

Request from Standard 15

In Winter: Alex Schmig reported to TC 9.3 about the standard 15 (TC 10.6) which explicitly stated not being applicable to mobile systems, whether that should change and TC 9.3 would champion that activity. Discussion about the detail and approach. Don asked Alex to write request to this group about 10.6 so the TC9.3 can make any decision on this.

Alex provided an update on the proposal:

- A gap currently exists where Standard 15 states explicitly that it is not intended for use for systems in motion.
- Intent is for new standard to target transportation & align heavily with Standard 15- with changes as necessary
- Proposal for New Standard to be sponsored by T.C. 10.6 & T.C. 9.3
- Title, Purpose & Scope Complete. Six members have requested to join from T.C. 10.6
- ACTION: Alex to provide a copy of the proposal to route to committee
- A call for members from T.C. 9.3 has been opened- Alex Schmig & Jim Bushnell will support
- Other Interested Parties should contact Alex Schmig for details
- A meeting is planned next week on the standard proposal form

3:50 New Business

a. Research- Andreas Bezold (See attached)

- 1. Mass Transit RTAR**
- 2. FAA CoE ACER Update**
- 3. EASA CAQIII Update**

b. Subcommittee Reports and Handbook Chapter Approval Status

The handbook has recently been republished for all chapters- books and digital copies were delivered two weeks ago.

1. Automobile & Chapter 11 -GD Mathur

GD provided an update on the auto subcommittee. He is planning on routing out the presentation shared. PFAS is the predominant issue. Others noted that there are also discussions in GPC23, SSPC34 & SAE AC-9.

2. Mass Transit & Chapter 12-Rene Beaulieu

Rene provided a series of updates on GPC 23 & the Mass Transit Subcommittee:

Working Meeting:

- They are currently working on Section 7
- On Target per work plan
- Goal: Release standard in early 2026
- Equipment design is the current focus- there will be an intermittent meeting to continue the review

Business Meeting:

- Covered more aspects:
 - Replacement of refrigerant
 - In General- same conclusion as Auto- still in limbo with no clear direction yet
 - Ventilation RTAR- will add CFD to workscope and route for a virtual ballot. Following that conclusion T.C. 9.3. will review and route for a virtual ballot
 - Doug Eaton briefed the GPC 23 members on APTA TCRP F-30 Interim Report: Guide for Protecting Transportation Employees and the Traveling Public from Airborne Diseases
 - Potential Collaboration in future between mass transit and buses
 - Potential Follow up project including pathogen transmission

3. Aviation & Chapter 13– Richard Fox/Stephen Trent- Ben Thiesse

- Ben Thiesse & Stephen Trent provided updates on SSPC 161
- SSPC 161 is being republished early next year, updates to references are in progress
- Discussions Surrounding Balance of Committee
- Updates were given on the efforts of Guideline 28 writing committee for Marker Compounds
- Richard Fox & Ben Thiesse are the new chair and vice chair respectively

4. Ship & Chapter 14-Kevin Glover

- Tom Zhang has reached out to Don Leblanc about potential edits to the ship handbook chapter

c. Program Report- Lubos Forejt (15 min)- GD Mathur

GD provided an insight as to the plans for future programs. Chicago is not likely to have a T.C. 9.3 program, but there are potential options for Indianapolis
Byron & Richard, Paul Lebbin, Rail Representative?

d. Standards Report

a. Aircraft-SSPC161- Richard Fox

(See above)

b. Mass Transit-GPC 23- Rene Beaulieu

(See above)

c. Ship-Standard 26- Kevin Glover

e. Other updates

Don Leblanc attended the Chairs Breakfast and the Research Committee breakfast
Chair's breakfast focused heavily on Decarbonization

- DoD standards and codes are being worked- and ASHRAE wants to step in as technical experts

Research breakfast:

- New type of research proposal: PTAR: Publication Research Program
 - High degree of innovation (out of the box) ideas- funding means provided
- Pushing basecamp usage for RTARs- to be rolled out hopefully within next six months

f. Next Meeting Date and Location

a. Winter Jan 20 to 24, 2024 Chicago

5:00 Adjournment-