

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

**TC9.3 Main Committee Meeting
Approved Meeting Minutes**

Time: 9:00 AM – 12:30 PM EST
Date: Wednesday, February 12
Location: Hilton Orlando, Key Largo A (Lower Level)
TC 9.3 website link: <https://tc0903.ashraetcs.org/>

1. CALL TO ORDER 9:03

a. Introductions

- a. Please mark on the sign-in sheet if you are YEA (≤ 35 years old) and/or if you are an international attendee (reside outside of US or Canada) for meeting attendance records.
- b. Establishment of Quorum

Voting Members

Name	Present?
Alexander Schmig	Y
Andreas Bezold	Y
Anthony Di Iorio	N
Ben Thiesse	Y
Byron Jones	N
Christopher McDaniel	N
Douglas Eaton	N
Gursaran Mathur	Y
James Bushnell	Y
Joshua Kelton	N
Judith Anderson	N
Ken Warren	Y
Lubos Forejt	Y
Michael Levin	Y
Stephen Trent	N

a. Chair's Report – update from TAC/TC Chair Training Breakfast

- a. YEA Mentorship Program is being revamped and more information can be found here: www.ashrae.org/communities/young-engineers-in-ashrae-yea/yea-events-and-programs/ashraconnect
- b. ASHRAE released 2025-2028 strategic plan and initiatives

- c. ASHRAE Pivots in policy focus (e.g. resilient and strong built environment rather than climate change and decarbonization) or Productive and healthy workplaces – rather than improved IAQ/IEQ; etc

b. Roster Update

- a. ID voting member roll-off after 2025 Winter Meeting
 - i. None
- b. ID voting member roll-off after 2025 Summer Meeting
 - i. Stephen Trent
 - ii. Andreas Bezold
 - iii. Byron Jones
 - iv. James Bushnell
 - v. Michael Levin
- c. ID voting member additions (we have 15 VM currently, allowed 16, 5 VM rolling off as of June 2025)

Currently Eligible to become VM:

- i. Thaddeus Rogowski
 - 1. He is retired
- ii. Tao (Tom) Zhang
- iii. Don Leblanc
 - 1. Agreed to roll on

Potential Additions Eligible as of 6/30/25:

- iv. Catherine Thibaud
 - 1. Agreed to roll on
- v. Rene Beaulieu
 - 1. Retired, but active
- vi. Richard Fox
 - 1. Agreed to roll on

- d. Review committee positions (new/continuing)
 - i. Tao Zhang (PCM)- Term Expires 1/31/2025 to move to CM or VM from PCM
- e. Leadership Changes
 - i. Stephen Trent's term as chair expires 6/30/2025
 - 1. **Lubos to Chair position.**
 - 2. **Alex Schmig to Vice Chair position?**
 - a. **Agreed**
 - 3. **Need New Secretary**
 - a. **Richard Fox**
 - 4. **Open position: Webmaster**
 - a. **Ben Thiesse**
- f. ASHRAE Leadership Changes:
 - i. Joy Altwies as section head wraps up 6/30/25
 - ii. Roland Charneux as research liaison wraps up 6/30/25
 - iii. Julie Majurin as standard liaison wraps up 6/30/25

c. TAC Section 9 Head Update- Joy Altwies

- a. Please check out our basecamp located at:
<https://3.basecamp.com/3106353/buckets/23194253/vaults/3964421607>

Joys Notes

Roster updates due March 3rd

This goes for voting members and an also moving PCM's to CM's

These roster updates go into effect July 1st (After summer meeting)

New YEA shadow program in Phoenix

TC 9.13 wondering if we cover submarines

No we do not

TAC activity form will become automated in the future

2. OLD BUSINESS

a. Approval of Minutes from January Atlanta Meeting

- a. Approved in September 7-0-0-7 (Y/N/A/NV)

b. Approval of Minutes from Summer Virtual Meeting:

- a. Routed 1/16/2025 to T.C. 9.3. Committee → Vote Michael motions to approve, Andreas seconds
- b. 8-0-0-7 (Y/N/A/NV)

3. NEW BUSINESS

a. TC 9.3 Standards and Guidelines Reports

- a. Aircraft SSPC 161, G28 & G48P - Richard Fox
 - a. Met Monday to work on operational guideline G48P
 - b. Adding and expanding operational tool
 - c. Targeting Jan 2026 for PPR
 - i. G28 and 161 will be revised to align with G48 after PPR
- b. Mass Transit GPC 23 - Rene Beaulieu
 - a. RTAR 1968 accepted with comments
 - i. Doug Eaton is now leading the effort
 - ii. Targeting may deadline for RAC
 - b. No Programs updates
 - c. Handbook chapter updates
 - d. GPC23 Technical updates
 - i. Fan Balancing
 - ii. Evacuation and dehydration
 - iii. Temperature variation
 - e. Starting to meet every 2 weeks to push updates across finish line
- c. Ship - Standard 26 - Kevin Glover
- d. Multiple TCs SPC 243(Safety Standard for Transportation Refrigeration Systems) - Alex Schmig



SPC243_2025_Winter_Meeting_Minutes_

b. TC 9.3 Research Subcommittee Report - Andreas Bezold

- a. RTAR 1968 (Mass Transit)
- b. Future RTARs
- c. Brief Overview of External Research Projects
- d. RAC has a budget of ~\$4million and no RTAR's
 - a. Ken Warren proposing the work

- i. Potential Airplane preconditioned air filtration project
 - ii. Potential RTAR
- b. Don Leblanc
 - i. Potential study of mass transit UA values to better quantify external heat loss of vehicles
 - ii. Transport Canada being targeted
- e. Detailed Subcommittee minutes.



TC 0903 Research
SC Meeting minutes

a. TC 9.3 Handbook Subcommittee Report – GD Mathur

- a. Handbook chapter due dates for the 2027 revisions and high-level plan.

Chapter	Volume	Title	TC	Files due to HQ
11	HVAC Applications	Automobiles	09.03	7/5/26
12	HVAC Applications	Mass Transit	09.03	7/5/26
13	HVAC Applications	Aircraft	09.03	7/12/26
14	HVAC Applications	Ships	09.03	7/19/26



TC 9.3 Automobile Subcommittee



TC 9.3 Handbook Subcommittee



2025 ASHRAE Refrigeration

Chapter 11 GD Mathur to lead
 Chapter 12 Doug Eaton to lead
 Chapter 13 Stephen Trent to lead
 Chapter 14 Tom Zhang to lead and Don reaching out to member of Canadian Coast Guard

d. TC 9.3 Program Subcommittee Report - Catherine Thibault

- a. Program Submissions for 2025 Annual Conference are open and will remain so until Wednesday, February 26
- b. Next ASHRAE Conferences and TC 9.3 meeting dates and locations
 - i. June 21-25, 2025 Phoenix, AZ **Virtual only**
 - ii. February 2-4, 2026 Las Vegas, NV **In person**
 - iii. June 27-July 1, 2026 Austin, TX **Virtual only**



TC 9.3 programs subcommittee list

- iv. New ideas:
 - 1. Addressing the next pandemic (Airline IAQ)

- a. SAE willing to contribute to IAQ in cabin. Recently published new standards in this area
- 2. Niles: next gen refrigerants for mass transit
 - a. System architectures (energy), safety, regulation


d. Additional discussion

- a. Do we want to add a hybrid meetings for future meetings?
 - i. Guests are encouraged to attend in person to make for a more efficient meeting.

4. ADJOURNMENT

Don motions to adjourn, GD seconds at 10:27am

Appendix: Sign in Sheets



Shaping Tomorrow's
Built Environment Today

TC 9.3 Sign-in Sheet

Meeting Info: TC 9.3 - Winter 2025 Date: 02/12/2025

Name	Affiliation	E-mail	Member (Voting, Corresponding, or Guest?)	YEA Member? (Yes/No)	INTL Y/N
LUBOS FOREST	HONEYWELL	LUBOS.FOREST@HONEYWELL.COM	VM	N	Y
Alex Shmy	TT	Alexander.Schmy@tt.com	VM	Y	N
Donald LeBlanc	NRC Canada	don.leblanc@nrc-cnrc.gc.ca	& NV	N	Y
AARON MCFARLANE	KNORR-BREMSE	AARON.MCFARLANE@KNORR-BREMSE.COM	NVM	N	Y
JAMES BUSHNELL	MOTT MACDONALD	WJAC.CS@qmail.bushnell.com	VM I	N	N
KIRK STIFLE	FUSION AMERICA	KSEIFLE@FUSION1.COM	CM	N	N
Ken Warren	Port of Seattle	warren.ka@portseattle.com	VM	N	N
DWAYNE TAYLOR	DENSO	dwayne.taylor@na.denso.com	guest	N	N
Nilesh Purshit	Honeywell	Nilesh.Purshit@honeywell.com	guest/CM	Y	
MaryJo VandenBrink	Honeywell	MaryJo.Vandenbrink@honeywell.com	Guest	N	

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Name	Affiliation	E-mail	Member (Voting, Corresponding, or Guest?)	YEA Member? (Yes/No)
G.D. MATHUR	FORD MOTOR Co.	gmathur@ford.com gmathur@ford.com	VM	NO
GLAM FAROOQ	MOBILE CLIMATE CONTROL	Golam.Farooq@mcc-hvac.com	GUEST	NO
Catherine THIBAUD	AIRBUS	catherine.thibaud@airbus.com	NVM	NO
Andreas Bezold	Airbus	andreas.bezold@airbus.com	VM	N
RICHARD FOX	AeroParts	rfox@aeroparts.aero	CM	N
Ben Thiesse	American Airlines	benjamin.thiesse@aa.com	VM	N
Chang Chung	Mobile Climate Control	chang.chung@mcc-hvac.com	Guest	N
Christopher Castillo	Beacon Consulting Boulogne, FL	Castillo.mechanicaleng@gmail.com	Guest (YEA)	Yes
Joy Altwies	UW-Madison	altwies@wisc.edu	TAC Section Liaison	N
JAMES STEWART	TransArctic	jstewart@transarctic.com	Guest	No

INTL
Y/N

N

