

ASHRAE TC 3.4
Lubrication
2025 ASHRAE Annual Meeting

Tuesday 6/24/2025, 2:00 - 4:00 PM (MST)
Conv Center North Building:230 (Lvl 2) North 230

Minutes for 2005 annual meeting of TC 3.4

- **Call to order**

- *Meeting was called to order by Rashid Zakeri where TC 3.4 scope and value statement were read out loud.*

- **Introductions**

- *All attendees introduced themselves for attendance and to determine role call for voting members*

a. Determination of a quorum

- *All voting members present except for – Sheli Porter, Dave Vincent, Andrea Irias*

Name		Affiliation
Voting Members		
Rashid Zakeri – Chair/MTG Sustainable RAC	2026	Circle Proscio
Raymond Drost – Secretary	2028	Calumet
Sheli Porter – Standards	2025	Stellar Laboratories
Dave Vincent – Webmaster	2025	BVA
Andrea Irias – Programs	2025	Metalloid
Sara Kampfe	2027	Copeland
Chris Seeton	2026	Koura
Rosine Rohatgi	2026	Spauschus
Morgan Leehey	2026	Trane Technologies
Ramesh Navaratnam	2028	Patech Fine Chemical
Amy Shifflett	2028	CPI Fluid Engineering
Joeseeph Nigro	2028	Shrieve
Non-Voting Members		
Stephen Kujak – Vice Chair		Trane Technologies
Scott Wujek – Research, ALI		Apple
Casey Scruggs – Handbook		Trane Technologies
Danny Halel – MTG Low GWP		NTHALP Engineering

- **Approval of minutes**

- *A motion was made by Sara Kampfe to approve the 2025 Winter minutes and seconded by Joe Nigro...the motion carried 8-0-1 (chair abstain)*

- A motion was made Amy Shifflett to approve the 2025 annual meeting agenda and seconded by Morgan Leehey...the motion carried 9-0-0
- **Chair's Report Breakfast Meeting** – Committee and attendees were informed of topics below
 - **Special Projects** – falls outside of normal AHSRAE research
 - **CEBD** (center of excellence for building decarbonization) <https://www.ashrae.org/about/CEBD-center-of-excellence-for-building-decarbonization>
 - Graduated from task in July 2024
 - Created several new standards with more to come
 - 2025-2026 5-part strategic theme
 - **GAC** (Government affairs committee) <https://www.ashrae.org/about/government-affairs>
 - Promotes cooperation between ASHRAE and government offices (local, state, fed)
 - Sign up on website for 2x week updates from GAC
 - **CEC** (Conferences and Expositions Committee) Vegas submission Aug 1st

Program	Proposals Submitted	Proposals Scheduled	• Fundamentals and Applications • HVAC&R Systems and Equipment • Refrigeration and • Research Summit • Energy Storage and Grid Resiliency • Pathways to Building Decarbonization • Artificial Intelligence • Indoor Environmental Quality for Healthy Buildings. • Future-Proofing the Built Environment
Panel Sessions	16	7	
Forum Sessions	7	2	
Seminar Sessions:	93	72	
Workshop Sessions	11	4	
Debate Sessions	2	1	
Total	129	86	
Total with Paper Sessions		108	

- **TC 9.13 SPACE** (Extraterrestrial and deep space environmental control systems) <https://tpc.ashrae.org/?cmtKey=5b4d9760-dc07-41a5-bbfe-62ed77c4c50d>
 - New TC – specialize in built environments in conditions different from earth and earth's environment
- **MTG-GAI** (Generative Artificial Intelligence)
 - Encouraged to participate if you are interested or involved in growth of AI in ASHRAE space
- **TAC** (Technical Action Committee)
 - Tracking all data from TC with new template design
 - Point of mention...Handbook deadlines being missed becoming problematic

- **Liaison reports**

- *No Liaisons present*

- **Subcommittee reports**

a. Programs

Andrea Irias

Review of Sponsored, Co-sponsored or Programs of Interest

- **Sponsored programs**
- **Other Programs of Interest**
Update from Program Subcommittee Meeting.
Timeline for program submission.

Programs Ideas and Discussion of Future Programs:

- Lubricants and their effects on system efficiency
- High Temp Heat Pumps (HTHP)
 - *HTHP will be resubmitted, as is*
 - *Ramesh Navaratnam will reach out to original authors to discuss Co-sponsor with TC 3.1*
 - *Discussed program ideas for Las Vegas and/or Austin with a possible combined program of all 3.xx Technical Committees*

b. Research

TC 3 Combined Programs Meeting

Current Research Activities Updates:

- **RP 1879** – “Foaming Properties of Low GWP Refrigerant and Oil Mixtures”
 - *The Principle Investigator (Craig Bradshaw) requested a No Cost Extension (NCE). Chris Seeton made a motion to accept the NCE and was second by Joe Nigro – motion passed 9-0-0*
- **RP 1721** – “Oil Return and Retention in Unitary Split Gas Lines with HFC and HFO Refrigerants” – Completed Waiting on ASHRAE
 - o Update with TC 8.11
 - *No further update than as stated*
- **RTAR 1891** – “Tribological Interaction Data with Lubricants and Refrigerants”
 - o *Is TC still interested in pursuing this work?*
 - o Any movement with reaching out to ASHRAE
 - *No further update than as stated*
- **Future Research needs and New Research ideas**
 - *Discussion of new Oil Circulation Rate(OCR) measurements for standard 41.4: High OCR, sampling techniques, current sensor technologies, and refrigerant/lubricant mixtures with poor miscibility*

- Topic *“Preferential Solubility of Glide Refrigerant Blends.”*
 - Chris Seeton will help/lead drafting an RTAR and Henna Tangri will aid in the work statement.

c. Handbook

- Chapter 12 *Lubricants in Refrigerant Systems*
 - Casey Scruggs communicated the chapter will be updated in August 2025 and the subcommittee chair is working with handbook liaison for submission and publication

d. Standards

Sheli Porter

- **GPC 40** *“Refrigeration Oil Description”*
 - Scott Wujek has taken on this guideline and will revise
- **SPC 86** *“Methods of Testing the Flocc Points of Refrigeration Grade Oils”*
 - Revision has not been completed to date but should be before winter meeting
- **SPC 172** *“Method of Test for Insoluble Materials in Synthetic Lubricants and HFC Refrigerant Systems”*
 - Raymond Drost will head committee to resubmit standard update
- **SPC 218** *“Method of Testing for Lubricant and Refrigerant Miscibility Determination”*
“Method of Test for Insoluble Materials in Synthetic Lubricants and HFC Refrigerant Systems”
 - 218 went out for ballot in Online Standards Review (OSR), closed on 06-30-25
 -
- **New Ideas for standards or guidelines**
 - No ideas presented at this meeting

e. Webmaster

- Dave Vincent has Website Up to Date

- Old Business

- No old business to discuss

- New Business

- ASHRAE UK (Amr Suliman) Looking to hold technical webinar series. Asking if TC 3.4 would like to participate. Provide 15-20 min presentation on background of TC 3.4 and a topic related to lubrication.
 - No, members were keenly interested in pursuing this

- Adjourn

- Chair closed the meeting with barely any left in attendance since other TC 3.xx meetings overlapped. Remaining members discussed reaching out to

ASHRE for better scheduling of meeting times for TC 3.xx since many members are active in multiple committees.