

**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**

Meeting Link:

https://teams.microsoft.com/join/19%3ameeting_NzRhODUzMjgtNzljNy00ZmFmLTIiODgtNTImNzIOMDE4MDRi%40thread.v2/0?context=%7b%22Tid%22%3a%220398134e-af0e-4c05-9da7-fbcc41a1cfa7%22%2c%22Oid%22%3a%224043225e-1cb2-42ac-8dee-25858c8206b9%22%7d

Access Info: Meeting ID: 290 839 909 895 Password: Us7Dp9QD

- **Call to order** **Rashid Zakeri**
- **Review Scope**

TC 3.4 is concerned with all functions and interactions of lubrication in a refrigerant system, including physical and thermodynamic properties of refrigerant-lubricant systems, all issues relating to the circulation of lubricants in a refrigerant system, and other lubrication concerns.

- **ASHRAE Value Statement** **Rashid Zakeri**

ASHRAE Value Statement – *In ASHRAE meetings, we will act with honesty, fairness, courtesy, competence, inclusiveness and respect for others, which exemplify our core values of excellence, commitment, integrity, collaboration, volunteerism and diversity, and shall avoid all real or perceived conflicts of interest. Our culture is one of inclusiveness, acknowledging the inherent value and dignity of each individual. We celebrate diverse and inclusive communities, understanding that doing so fuels better, more creative and more thoughtful ideas, solutions and strategies for the Society and the communities our Society serves. We respect and welcome all.*

[Code of Ethics](https://www.ashrae.org/about/governance/code-of-ethics) – <https://www.ashrae.org/about/governance/code-of-ethics>

[Core Values](https://www.ashrae.org/about/ashrae-s-core-values) - <https://www.ashrae.org/about/ashrae-s-core-values>

[Diversity Statement](https://www.ashrae.org/about/diversity-equity-and-inclusion-dei) – <https://www.ashrae.org/about/diversity-equity-and-inclusion-dei>

- **Introductions**

- - a. Determination of a quorum Ray Drost

VOTING MEMBERS FOR THIS MEETING (Need (4) or ½+1 for a Quorum)

Name	Year	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
Joeseph 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

- **Agenda additions**

- a) Approval of TC 3.4 2025 Winter Meeting Minutes (**Rashid Zakeri**) *y/n/a/cv*
- b) Approval of TC 3.4 2025 Annual Meeting Agenda (**Rashid Zakeri**) *y/n/a/cv*

- **Chair’s Report Breakfast Meeting**

Rashid Zakeri

- **Liaison reports (as they arrive)**

Liaisons

- | | |
|--------------|----------------|
| a. RAC | Zheng O’neill |
| b. TAC | Kevin Mercer |
| c. Handbook | Drake Erbe |
| d. Standards | Gerald Kettler |

- **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

- b. **Research**

Scott Wujek

- *TC 3 Combined Programs Meeting*

- **Current Research Activities Updates:**

- **RP 1879** – “Foaming Properties of Low GWP Refrigerant and Oil Mixtures”
 - o Spring Time update from new student
- **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
- **RTAR 1891** – “Tribological Interaction Data with Lubricants and Refrigerants”
 - o Is the TC still interested in pursuing this work?
 - o Any movement with reaching out to ASHRAE
- Update from Research Subcommittee Meeting

- Others – Any research needs and gaps from review of Handbook Chapters
- Future Research needs and New Research ideas

c. Handbook

Casey Scruggs

- Updates on Handbook activities and meetings
- Chapter 12 *Lubricants in Refrigerant Systems*-

d. Standards

Sheli Porter

- **GPC 40** “*Refrigeration Oil Description*”
- **SPC 86** “*Methods of Testing the Floc Points of Refrigeration Grade Oils*”
- **SPC 172** “*Method of Test for Insoluble Materials in Synthetic Lubricants and HFC Refrigerant Systems*”
- **SPC 218** “*Method of Testing for Lubricant and Refrigerant Miscibility Determination*”
“*Method of Test for Insoluble Materials in Synthetic Lubricants and HFC Refrigerant Systems*”
- **New Ideas for standards or guidelines**

e. Webmaster

Dave Vincent

Website Update

- **Old Business**
- **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.
- **Adjourn**