

ASHRAE TC 3.4 Lubrication

2026 ASHRAE Annual Meeting

Tuesday 06/30/2026, 1:00 - 3:00 PM (CST)
JW Marriott, Lonestar Ballroom D-L3



Meeting Link:

<https://teams.microsoft.com/join/25369564924719?p=Mhwx55ko74l9E3hYwZ>

Access Info: Meeting ID: 253 695 649 247 19 Passcode: ZG7uM9hP

- **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**

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		Affiliation
Voting Members		
Rashid Zakeri – Chair	2026	Circle Proscio
Raymond Drost – Secretary	2028	Calumet
Amy Shifflett	2028	CPI Fluid Engineering
Joeseeph Nigro	2028	Shrieve
Ramesh Navaratnam – Programs	2028	Patech Fine Chemical
Sara Kampfe	2027	Copeland
Chris Seeton	2026	N/A
Rosine Rohatgi	2026	Spauschus
Morgan Leehey	2026	Trane Technologies

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
Sheli Porter – Standards	Stellar Laboratories
Dave Vincent – Webmaster	BVA

- **Agenda additions**

- Approval of TC 3.4 2026 Winter Meeting Minutes (**Rashid Zakeri**) y/n/a/cv
- Approval of TC 3.4 2026 Annual Meeting Agenda (**Rashid Zakeri**) y/n/a/cv

- **Chair’s Report Breakfast Meeting –**

Rashid Zakeri

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

- RAC
- TAC
- Handbook
- Standards

Liaisons

Zheng O’neill
Tina Brueckner
Drake Erbe
Gerald Kettler

- **Subcommittee reports**

- Programs**

Ramesh Navaratnam

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:

- High Temp Heat Pumps – Further work for resubmission
- Combined session with all TC 3.xx for Chicago

- Research**

Scott Wujek

TC 3 Combined Programs Meeting

Current Research Activities Updates:

- **RP 1879** – “Foaming Properties of Low GWP Refrigerant and Oil Mixtures”
 - o PI (Craig Bradshaw) in NCE period.
- **RTAR 1891** – “Tribological Interaction Data with Lubricants and Refrigerants”
 - o Is the TC still interested in pursuing this work?

- 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***
 - OCR measurements update standard 41.1?
 - RTAR? “Preferential solubility of glide refrigerant blends” Chris Seeton/HennaTangri

c. Handbook

Casey Scruggs

- Updates on Handbook activities and meetings
- Chapter 12 *Lubricants in Refrigerant Systems*- Next cycle 2030

d. Standards

Sheli Porter

- **GPC 40** “*Refrigeration Oil Description*”
 - Was roster updated?
- **SPC 86** “*Methods of Testing the Floc Points of Refrigeration Grade Oils*”
 - Public review?
- **SPC 172** “*Method of Test for Insoluble Materials in Synthetic Lubricants and HFC Refrigerant Systems*”
 - Ray Drost is waiting for ASHRAE 86
- **SPC 218** “*Method of Testing for Lubricant and Refrigerant Miscibility Determination*”
 “Method of Test for Insoluble Materials in Synthetic Lubricants and HFC Refrigerant Systems”
 - Sheli, co-Chair?
- **New Ideas for standards or guidelines**

e. Webmaster

Dave Vincent

Website Update

- **Old Business**
- **New Business**
- **Adjourn**