



ASHRAE American Society of Heating, Refrigerating, and Air-Conditioning Engineers, Inc.

Technical Committee 3.4 – Lubrication

Agenda – Winter Conference 2025 Orlando (Hybrid)

Tuesday February 11th, 2025 – 1:30 to 3:30 pm (ET)

Hilton Orlando, Lake Highland AB (Lobby Level)

Log in information provided below for virtual attendees

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

TC 3.4 Meeting (Hybrid) – February 11th, 1:30 pm – 3:30 pm (ET)

Meeting Link:

https://teams.microsoft.com/join%2F19%3Ameeting_NmRmN2RjY2MtNzRjYS00MjFiLWlWjctZDEzOGJlNDc4MjRm%40thread.v2%2F0%3Fcontext%3D%257b%2522Tid%2522%253a%25220398134e-af0e-4c05-9da7-fbcc41a1cfa7%2522%252c%2522Oid%2522%253a%25224043225e-1cb2-42ac-8dee-25858c8206b9%2522%257d%26anon%3Dtrue&type=meetup-join&deeplinkId=65b8d7ce-e177-4ef8-8fbc-8b627d1a3934&directDI=true&mSLaunch=true&enableMobilePage=true&suppressPrompt=true

Access Info: Meeting ID: 239 480 217 629 Password: fWFg3d

The schedule of all virtual meetings, technical program and registration can be found at

<https://www.ashrae.org/conferences/2025-winter-conference-orlando>

1.) Call to Order (**Stephen Kujak**)

- Virtual conference housekeeping
 - In the group chat for those online, please provide your name and contact information for attendance.
- Introduction of members and guests

2.) ASHRAE Code of Conduct - <https://www.ashrae.org/about-ashrae/ashrae-code-of-ethics>

- *In this and all other 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 we shall avoid all real or perceived conflicts of interests.*

3.) Confirmation of Quorum (**Ray Drost**)

4.) Approval of TC 3.4 2024 Annual Meeting Minutes (**Stephen Kujak**) y/n/a/cv

5.) Approval of TC 3.4 2025 Winter Meeting Agenda (**Stephen Kujak**) y/n/a/cv

6.) Report of TC Chair's Breakfast Meeting (**Stephen Kujak**)

7.) Liaison Comments (If present)

- RAC – Zheng O'neill
- TAC –Kevin Mercer
- Handbook – Drake Erbe
- Standards – Gerald Kettler

8.) Subcommittee Reports

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:

Lubrication basics for next generation refrigerants

Handbook (**Casey Scruggs**)

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

Standards (Sheli Porter)

Updates:

- **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*”
- **New Ideas for standards or guidelines**

Research (Scott Wujek)

TC 3 Combined Programs Meeting on June 11th from 1pm to 3pm CST

Current Research Activities Updates:

- **RP 1879** – “*Foaming Properties of Low GWP Refrigerant and Oil Mixtures*”
 - o Contractor to update the progress of the work
- **RP 1721** – “*Oil Return and Retention in Unitary Split Gas Lines with HFC and HFO Refrigerants*” – *Completed Waiting on ASHRAE*
 - o Has there been movement with ASHRAE
- **RTAR 1891** – “*Tribological Interaction Data with Lubricants and Refrigerants*”
 - o Is the TC still interested in pursuing this work?
 - o Any revamp
- Update from Research Subcommittee Meeting
- Others – Any research needs and gaps from review of Handbook Chapters
- Future Research needs and New Research ideas

Webmaster TC 3.4 (Dave Vincent)

Website Update

9.) MTG Lower GWP Refrigerants TC 3.4 (**Joe Karnaz/Danny Halel**)

Update: Recent activity

10.) Membership (**Stephen Kujak**)

Roster: Anyone interested in becoming a corresponding member please go to the ASHRAE website and join as a Provisional Member:

11.) Old Business (**Stephen Kujak**)

12.) New Business (**Stephen Kujak**)

13.) Adjournment