



AGENDA

ASHRAE TC 3.4—Lubrication¹
American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.
Palmer House Hilton Floor 7; Clark 5
Chicago, IL
Tuesday, January 23, 2017, 1:30 – 3:30 p.m.

1. CALL TO ORDER

Introduction of members and guests

ACTION:

2. ASHRAE Code of Conduct

“Commitment to the ASHRAE Code of Ethics – In this and all other ASHRAE meetings, we will act with honesty, fairness, courtesy, competence, integrity and respect for others, and we shall avoid all real or perceived conflicts of interests. (See full Code of Ethics: <https://www.ashrae.org/about-ashrae/ashrae-code-of-ethics>.)”

3. AGENDA REVIEW

ACTION: XXX, YYY 2nd R-S-T-CNV

4. MINUTES OF THE LAST MEETING

Draft minutes of the Jun 2017 meeting in Long Beach are posted to the TC 3.4 website

<https://tc0304.ashraetcs.org/>

ACTION: XXX, YYY 2nd R-S-T-CNV

5. ROSTER REVIEW AND ANNOUNCEMENTS

Voting Members for this meeting (committee terms expire June 30 of year listed):²

6. REPORT OF TC CHAIR’S BREAKFAST (Chris Seeton)

This meeting provides the Section 3 Chairs’ a forum for distribution of current direction and guidelines for any requirements related to ASHRAE activities including technical and research direction, standards, publications, etc.

¹ 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.

² Members may retrieve the complete committee roster from the AHSRAE website:
log on to ASHRAE.org and sign in with your member info (from the “Join or Login” tab at top of page)
the line “Welcome, [your name]” will appear at the very top of the page; click on “My Account”
this brings up your “ASHRAE Member Profile”
click on “Committees” tab (left side of page); this brings up “My Active Committees”
a line with “T-TAC-TC03.04” should appear; click the “roster” link to download a pdf

7. LIAISON COMMENTS

Jay Kohler – TAC – discussion on Badges for meetings.
Don Fenton – Handbook
Steve Kujak - Research

8. RESEARCH SUBCOMMITTEE (Greg Smith)

Update:

- RTAR 1728 “Development of a Model for Prediction of Oil/Refrigerant Mixture Properties of Low GWP Refrigerants and Synthetic Oils” – Julie Majurin
- RP 1721 – “Oil Return and Retention in Unitary Split Systems Gas Lines with HFC and HFO Refrigerants – Chris Seeton
- Draft “Physical Property Measurements of HFO/HFC Lubricant Mixtures” – Chris Seeton, Joe Karnaz, Scott Wujek
- Draft “Foaming Properties of Low GWP Refrigerant and Oil Mixtures” – Ivan Rydkin and Julie Majurin
- RP1774 – “Effects of System Chemicals Towards the Breakdown of Lubricants and Lower GWP Refrigerants” cosponsored by TC 3.4 – Spauschus update
- Effect of Oil Refr Mixtures on u-channel heat exchanger performance Lead TC 8.4 – Scott Wujek

- Update from Sunday research subcommittee meeting.

Previous meeting ideas

- Long term research plan:
 - Preferential solubility of High Glide Blends in Lubricants – Safety and Performance – Oliver Newton
 - Electrical Properties of Lubricant-Refrigerant mixtures TC 8.1
- Open discussion on ideas for new research.

9. PROGRAM SUBCOMMITTEE (Ed Hessel)

Current Program:

AHRI Mini-Track

Future Programs: (Houston June 23-27, 2018; Atlanta January 2019)

Future Programs – Program Subcommittee meeting

Monday (1/22) 10:30 am – 12:00 pm Floor 7: Clark

- Low GWP Lubricant Fundamentals
- New Refrigerants, Glide and Compatibility

10. HANDBOOK SUBCOMMITTEE (Julie Majurin)

Update:

- Handbook committee members include Ed Hessel, Wasim Akrim, Sheli Porter, Chris Seeton, and Scott Wujek.
- The team is working on revising the chapter for the 2018 publication, per the recommended ASHRAE Handbook revision timetable, with a chapter revision completion goal ASAP

11. STANDARDS SUBCOMMITTEE (Rob Yost)

Update:

- Standard 86 “Method of Testing the Floc Point of Refrigeration Grade Oils” – Update from Committee Chair Warren Clough;
- GPC 40 (aka Standard 99) “Refrigeration Oil Description” – Update from Committee Chair Chris Seeton
 - Guideline published
- Standard 172P “Method for Test for Insoluble Materials in Synthetic Lubricants and HFC Refrigerant Systems” – Update from Committee Chair Ed Hessell
 - Finished in hands of ASHRAE
 - Something is not right with this...
- SPC 218 “Method of Test for Lubricant and Refrigerant Miscibility Determination” – Update from Committee Chair Brad Boggess
- Previously Discussed Ideas – Guideline on material compatibility of refrigerants, lubricants and system materials
- Open discussion on ideas for new standards.

12. WEB SITE (Dave Vincent)

<https://tc0304.ashraetcs.org>

13. OLD BUSINESS

14. NEW BUSINESS

15. NEXT MEETING

2018 ASHRAE Annual Meeting; Houston; June 23 – June 27th, 2018.

16. ADJOURN

ATTACHMENTS:

1. **Draft minutes:** Long Beach