

**AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR-CONDITIONING ENGINEERS,
INC.
1791 Tullie Circle, N.E./Atlanta, GA 30329
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TC/TG/TRG MINUTES COVER SHEET

(Minutes of all TC/TG/TRG Meetings are to be distributed to all persons listed below within 60 days following the meeting.)

TC/TG/TRG NO. 3.4 DATE March 31, 2004

TC/TG/TRG TITLE Lubrication

DATE OF MEETING January 27, 2004 LOCATION Anaheim Convention Center

MEMBERS PRESENT	YEAR APPTD	MEMBERS ABSENT	YEAR APPTD	EX-OFFICIO MEMBERS AND ADDITIONAL ATTENDANCE
Joe Karnaz	2002	Dietrich Huttenlocher	2000	Dean Frailey
Dave Bellas	2002	Steve Randles	2001	Steve Pohlman
Jay Field	2003			Dave Vincent
Danny Halel	2001			
Scott Gustafson	2001			
Richard Hall	2002			
Raymond Thomas	2001			
Ward Wells	2002			
Rob Yost	2003			

DISTRIBUTION

All Members of TC/TG/TRG plus the following:

TAC Section Head:	<u>David Geary</u>
TAC Chair:	<u>Mark Hegberg</u>
All Committee Liaisons As Shown On TC/TG/TRG Rosters:	Richard Cawley – RAC Richard Evans – Handbook Arthur Hallstrom – Standards Julian Debullett – ALI Marilyn Listvan – Special Pubs

Joe Karnaz, Chairman, called the meeting to order at 1:30 pm on Tuesday, January 27, 2004. The meeting was held in Anaheim Convention Center Room 213B in Anaheim, CA. After the introduction of members and guests, a quorum was confirmed with 10 members present. A motion was then made and seconded to approve the minutes from July 1, 2004 meeting in Kansas City, Mo.

The motion passed 10-0-0(Chair Voting)

David Bellas read the roll over roster. TC 3.4 committee has been unable to contact Dietrich Huttenlocher but he will roll off as a member at the end of this society year and by made a corresponding member.

The officers for TC 3.4 are

Chairman	-	Joe Karnaz
Vice Chairman	-	Ward Wells
Secretary	-	Dean Frailey
Research	-	Scott Gustafson
Standards	-	Rob Yost
Program		Richard Hall
Membership	-	David Bellas
Webmaster	-	David Vincent
Handbook	-	Steve Pohlman

Report on TC 3.0 Chair Breakfast Meeting

TC Chairs Meeting - Highlights

- ? TAC Meeting - New Format
 - o Sunday Morning TC Chair/Vice-Chair Meeting with Section Head; This meeting will be a regular occurrence
 - o Monday Morning Technical Committee Meeting; this meeting will still take place in Nashville but will eventually be phased out.

Highlights of Sunday Morning Section 3 Meeting and Monday Morning TAC Meeting

- ? Programs
 - o Make sure session chairs pick-up evaluation forms and turn into the speakers lounge
 - o Seminars will be posted on web site and in some cases may be recorded – Speaker has the option and has to sign a release
 - o Each TC is encouraged to sponsor two symposiums a year and any symposium will automatically be on the program
 - o 135 Programs Submitted for Anaheim and 100 Sessions Accepted

- Members need to talk to users to get their feedback allowing for ways to make the chapter more practical
- Handbook chapters should address common errors and misapplications with advice on ways to correct
- Look for any cross-cutting themes, i.e. energy efficiency, homeland security, health and safety

? Websites

- All TC websites will be found on the ASHRAE server

Sub-Committee Reports

Program – Richard Hall

No Forums or seminars materialized for the Anaheim meeting.

Future Meetings

Rich is targeting Orlando for one seminar. Plans were made to re-address in Nashville.

1.) Seminar - “*Can Lubricants Reduce Compressor Noise*” was tentatively scheduled for Anaheim. Now tentatively scheduled for Orlando. Richard will contact Randles and follow up on the viability of this seminar. Chair opened the floor to volunteers to submit papers. Must have 2 more papers to present at Orlando. Rich proposed broadening the topic if support continues to be limited. Also suggested combining with Seminar, “*Lubricants for alternative Refrigerants Part III*” if not enough papers are submitted. Curt suggested he could get TC 8.1 to co-sponsor a paper on reducing noise. August 6th is the deadline for Orlando.

2.) Seminar: “*Lubricants for alternative Refrigerants Part III*”, chaired by Richard Hall, was proposed for Anaheim and now targeting Orlando. No one volunteered to submit a paper. Richard needs three papers, prefers 4. An open-ended invitation was extended by Rich for anyone interested in submitting a paper.

3.) Seminar – “*Issues with Alternative Refrigerants*”, chaired by Ken Lilje. At least two spots remain open. Rich opened the floor to volunteers. No offers made. Ken stated he would ask some of his European colleagues if they would be interested in submitting a paper, or two, for Orlando.

4.) Forum - “*How Do You Achieve the Secondary Benefits of Oil in an Oil Free System?*” - Forum turned down for Anaheim due to limited space. It was agreed the Forum would be re-submitted for Nashville. February 13, 2004 is the deadline for submission. Rich will put into the Program for Nashville and Bob will complete the rest of necessary paperwork.

5.) Symposia – “*System Chemistry and Contaminants Research*”, chaired by Denny Halel.

Co-sponsoring with TC 3.2 and TC 3.3. One paper has been submitted and reviewed. The other two papers have not. Bob Kaufman has at least one paper, maybe two. Deadline for submission is April 5th with review completed by August 6th for the Orlando meeting.

Floor was opened to attendees for ideas on new seminars, symposia, forums, etc. No new ideas presented.

Standards –Rob Yost

SPC 99 “Refrigeration Oil Description”

About to be revised. Vote is planned by Nashville. Quorum of members will include Rosine, Joe, Ken, Bob, and Rob. Ken will add references and document changes.

SPC 172P Standard - “Method of Testing of Precipitation Temperatures for Partially Soluble Matter in Refrigerant/Lubricant Mixtures”

Jay Field - Chair. Jay will schedule a time for the committee to meet. Committee members include Joe, Rosine, and Rob. Jay noted that ASHRAE does not recognize 172P, but they do acknowledge 176P. 176P is the same as 172P. Jay will work to clarify this discrepancy and report on his progress in Nashville.

Research – Scott Gustafson

It was noted that new RTARs and WS must comply with the new format. Format includes more complete references, among other things. May 15th is the deadline for new WSs.

WS 1253 – Measurement of Solubility, Viscosity, and Density of R-125/143a(R507 series) Refrigerant mixtures. PMS committee has received the draft, reviewed it, and requested additional testing data on some of the data points. Tests should be complete by the end of February. Plan is to issue a letter ballot for approval prior to Nashville.

WS 1249 – Determine the Mechanism for Copper Plating and Methods for its Elimination from HVAC Systems. Will be modified by Ken and Jay.

1211 TRP – Mechanism for the Reactions Between Polyolester Lubricants and Ferrous Metals.

No actions needed.

Motion was offered to support TC 3.2 on RTAR, Physical Property Measurements of CO2 Lubricant Mixtures. Motion was carried (10-0-0)

Scott opened the floor to new RTARS or ideas.

Joe suggested an idea to generate Daniel plots and Stribeck data for high pressure refrigerants, like CO2, with different oils. Question was asked, should the SA fund these tests? Should it be renamed to read, “Working Viscosity of High Pressure Lubricants and Refrigerants”? TCs’ 8.1, 3.2, and 3.4 to all co-sponsor. Scott will further define and submit for approval to RAC. He will then get an RTAR and plan to vote to approve in Nashville.

Old Business

Continue to push to get some Forums open to the public. Suggested advertising for next winter meeting.

New Business