

**AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR-CONDITIONING ENGINEERS,
INC.**

**1791 Tullie Circle, N.E./Atlanta, GA 30329
404-636-8400**

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 3.2 DATE June 25, 2007

TC/TG/TRG TITLE System Chemistry

DATE OF MEETING June 25, 2007 LOCATION Long Beach, CA

MEMBERS PRESENT	YEAR APPTD	MEMBERS ABSENT	YEAR APPTD	EX-OFFICIO MEMBERS AND ADDITIONAL ATTENDANCE
Sonny Sundaresan	VM	Alice Reimer	Int'l Member	Joe Karnaz Chris Seeton
Ken Lilje	VM	Tom Leck	VM	Eric Newberg Dave Bellas
Mildred Allison	VM	Frank Nagy	VM	Rob Yost Joe Nigro
Scott Gustafson	VM			Alan Cohen Curt Slayton
Jay Field	VM			Dave Wilson Rosine Rohatgi
Dave Vincent	VM			Hewitt Gaudin Robert Doerr
Raymond Thomas	VM			Richard Kelley Rich Cavestri
				Bob Kauffman Liz Dixon
				Jorge Cabrera Sunil Nanjundaram
				Ersin Gercek Rich Cavestri
				Andre Villani Danny Halel
				Stephen Spletzer Pat Gilbane
				Don Schuster Steve Kujak
				Dean Fromby Lathrin Juch

DISTRIBUTION

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

TAC Section Head:	Wayne Reedy
TAC Chair:	Eckhard Groll
TAC Vice-Chair:	Patricia Graef
All Committee Liaisons As Shown On TC/TG/TRG Rosters: Don Fenton - RAC Rich Evans - Handbook	Sam Cummings - Standards Kimball Ferguson - Special Pubs C Brian Wandling - Program Benjamin Crowley - CTTC
Manager Of Standards	Claire Ramspeck
Manager Of Research & Technical Services	Mike Vaughn
Admin Asst - Technical Services	Tara Thomas

Note: "These draft minutes have not been approved and are not the official, approved record until approved by this committee."

Call to Order

Ken Lilje, Chair, called the meeting to order at 2:15 pm on Monday, June. 25, 2007. The meeting was held in the Long Beach Convention Center in Room 204. After the introduction of members and guests, a quorum was confirmed with 7 members present (including chair) with 2 members absent.

MOTION #1 A motion was made by Jay Field and seconded by Scott Gustafson to approve the minutes from January 2007 meeting in Dallas.

The motion passed 7-0-0

Report on TC 3.0 Chair Breakfast Meeting

The Handbook Chapter is due in 2010, the Handbook Chapter is available on the ASHRAE website.

The CTTC has been around for 3 years, one of their responsibilities includes Distinguished Lecturers. They are looking for additional people, please contact the Chair.

ASHRAE Research has additional money available, please suggest ideas for research.

If you would like the President of ASHRAE is willing to send a Letter of Appreciation to your employer please advise the Chair.

Sub-Committee Reports

Program – Ken Lilje

Long Beach, CA

Seminar 44 Monday 11:00 am

History of System Chemistry

Chair – Ken Lilje - 2 Speakers Joe Karnaz and Ganesan (Sonny) Sundaresan

Seminars of Interest

CANCELLED

Seminar 53 Tuesday 9:40 am

Lubrication of Variable Speed Compressors

Chair: Curt Slayton

New York City, NY Winter 2008

MOTION #2 A motion was made by Sonny Sundaresan and 2nd by Ray Thomas to sponsor a Seminar

History of System Chemistry Part 2 Chair Joe Karnaz.

Potential speakers include Alice Reimer, Alan Cohen, and Tom Leck

Motion passed 7-0-0.

Paperwork needs to be complete by August 3, 2007

Salt Lake City, UT Summer 2008

MOTION #3 A MOTION was made Jay Field and 2nd by Ray Thomas to Sponsor a Transaction session in Salt Lake City entitled *Contaminants Control Results* Joe Karnaz – Chair Speakers include Rich Cavestri and Bob Kaufmann The technical research papers need to be submitted by September 28, 2007.

Motion Passed 7-0-0

Handbook – Bob Doerr

The Chairman advised that we need a Handbook Chairman. Sonny Sundaresan volunteered to serve as Handbook Subcommittee Chair.

Standards –Rob Yost

- **SPC 141P – “Method of Testing Fluorocarbon Refrigerants for Contaminants”**
 - This standard is on semi permanent hold.

MOTION #3 A motion was made by Jay Field and 2nd by Mildred Allison asking the Chair to draft a letter to Claire Ramspeck MOS and Eli Howard Standards Liaison on SPC 141P and that we drop it from the Agenda of TC 3.2.

- **SPC 175P – “Metal Pressure Vessel Method to Test Materials Used with Refrigeration Systems”**
 - Joe Karnaz – Chair. Committee members are Alan Cohen, Ken Lilje, Rosine Rohatgi and Chris Seeton. The committee meets at 4:15 pm following the TC meeting and is working on a draft of the procedure.
- **SPC 97 – “Sealed Glass Tube Method to Test the Chemical Stability of Materials for Use Within Refrigeration Systems”**
 - This standard was voted to be reaffirmed at the 2006 Winter meeting.

Research – Liz Dixon (Ken Lilje substituting)

Members include: Jay Field, Ken Lilje and Bob Doerr.

- Research Subcommittee met on Sunday afternoon to discuss current research projects and RTAR’s and future research needs, this meeting was in conjunction with TC’s 3.2, 3.3, and 3.4
- **RP 1249 – Determine the Mechanism for Copper Plating and Methods for its Elimination from HVAC Systems.** The contract was awarded to the University of Dayton. Project monitors: Bob Doerr, Ken Lilje and Jay Field provided an update. Experimental work is basically complete, a preliminary report has been submitted. The project monitoring subcommittee will continue their review. The Chair will send the final report to all voting members of the committee at which time a letter ballot will also be sent.
- **RTAR 1410 – Effects of System Materials Towards the Breakdown of POE Lubricants and HFC Refrigerants Part 2** – This RTAR was accepted! Work statements are needed. RTAR 1410’s committee includes: Bob Doerr, Jay Field, Joe Karnaz, and Steve Kujak - Chair. The committee will continue to prepare the work statement. Deadline for the WS to Research Committee is May 15th.
- **RTAR 1409 – Stability of Candidate Lubricants for CO₂ Refrigeration Systems** – This RTAR was accepted! Work statements are needed. RTAR 1409’s committee includes: Scott Gustafson, Chris Seeton, Dale Carr, Liz Dixon and Sonny Sundaresan. The committee will continue to prepare the work statement, Deadline for the WS to Research Committee is May 15th.
- TC 3.3 has an RTAR that is ready to be submitted to ASHRAE entitled *Effect of lubricant on the distribution of moisture between the vapor and liquid phases of refrigerants (Phase 1)*. TC 3.3 is asking this committee to cosponsor the RTAR.

MOTION #4 A Motion was made by Ray Thomas and 2nd by Mildred Allison to cosponsor the above RTAR.
MOTION PASSED 7-0-0

- Future Direction
 - Think about work on system materials needed for CO₂ and CO₂ lubricants.
 - Longer-term; lets consider how to evaluate new refrigerants.

Webmaster – Dave Vincent

- The website is up to date and will be on the ASHRAE server in the near future.

Membership – Ken Lilje

- Ken reviewed the new roster to take effect on July 1, 2007

Old Business

- In the meeting in Dallas, it was suggested by Chris Seeton that we pursue awards for those members who deserve them. Chris is willing to learn what awards are available and will make a presentation at New York City.

New Business

- A suggestion was made that ASHRAE do a dry run of all presentations to verify the function of all presentations. It was also suggested that the Program Liaison stay in the room during the presentations. The Chair will discuss the situation with ASHRAE staff.

Adjournment

- A motion was made by Sonny Sundaresan and 2nd by David Vincent to adjourn the meeting at 3:44pm.

Respectfully submitted,

Danny Halel
Secretary TC 3.2