

**AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR-CONDITIONING
ENGINEERS, INC.
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TC/TG/MTG/TRG MINUTES COVER SHEET

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

TC/TG/MTG/TRG No. TC. 8.9 DATE February 10, 2015

TC/TG/MTG/TRG TITLE Residential Refrigerators and Food Freezers
DATE OF MEETING January 26, 2015 LOCATION Chicago, IL

MEMBERS PRESENT	YEAR APPTD	MEMBERS ABSENT	YEAR APPTD	EX-OFFICIO MEMBERS AND ADDITIONAL ATTENDANCE
John Dieckmann	2014	Patti Conlan	2012	George Yaeger
Detlef Westphalen	2014	Ed Vineyard	2014	Troy Watson
Amy Shifflett	2014			Jiazhen Ling
Reinhard Radermacher	2013			Wylie Wong
Michael Pate	2014			Pradeep Bansal
John Sabelli	2014			Stephen Duda
				David Yashar

DISTRIBUTION

<i>All Members of TC/TG/MTG/TRG plus the following:</i>	
TAC Section Head:	Stephen Duda
TAC Chair:	Eric Adams
All Committee Liaisons As Shown On TC/TG/MTG/TRG Rosters:	
Research liaison	David Yashar
Manager Of Standards	Stephanie Reiniche
Manager Of Research & Technical Services	Mike Vaughn

ASHRAE TC 8.9 Residential Refrigerators and Food Freezers
Minutes of Meeting held Monday January 26, 2015 in Chicago, IL

1. Welcome and Introductions

The meeting convened at 2:15 p.m. Six of the current voting members were present (Dieckmann, Westphalen, Shifflett, Pate, Radermacher and Sabelli). All of those present introduced themselves.

2. Chairman's Report

The Chairman, Michael Pate, passed out copies of "Announcements and Reminders for TC/TG/TRG & MTG Chairs", which he received at the Chairman's Breakfast. A few highlights from these announcements:

- The roster can now be updated all through the year instead of once a year.
- Dates for submissions of papers and programs will be discussed in the Program Subcommittee report.
- The code of ethics was reviewed.
- ASHRAE is asking all members to update their bios.
- ASHRAE also reminded all TC's to keep their website up to date.

3. Minutes

The minutes for the Seattle meeting were approved by all 6 voting members, pending the following changes.

- Detlef Westphalen and John Sabelli did not attend the Seattle meeting and should not be noted in attendance.
- There was no handbook subcommittee report given at the last meeting.

4. Membership Roster and Officers effective July 2, 2014

Voting members

Member	Year term ends
Detlef Westphalen	2015
Amy Shifflett	2016
Patti Conlan	2016
Reinhard Radermacher	2017
John Sabelli	2018
Michael Pate	2016
Ed Vineyard (non-quorum voting)	2018
John Dieckmann	2016

Committee Officers

Chair	Michael Pate
Vice-chair	Detlef Westphalen
Secretary	Amy Shifflett
Program Subcommittee Chair	Michael Pate
Handbook Subcommittee Chair	Detlef Westphalen
Research Subcommittee Chair	John Dieckmann

Standards Subcommittee Chair
Webmaster

David Yashar
John Dieckmann

5. Program Subcommittee Report

Michael Pate delivered the Program Subcommittee report. He spoke at a seminar session in Chicago with the theme of alternate refrigerants for residential refrigerators and freezers. His topic was R-1234yf and the effects on capillary tubes, heat exchangers, and compressors. In addition, GE and DuPont also presented at the seminar session on R-600a in small refrigerators and R-1234yf as a drop in for R-134a respectively. It was very well attended.

It's not too late to submit a seminar for summer ASHRAE in Atlanta, but the committee has no ideas at this time. It is possible the TC will be summoned to sponsor a conference paper session. Abstracts are due March 23 and final papers are due July 6 for Orlando.

Michael is going to look into whether we can attach to a paper session in Atlanta.

Detlef is going to send a usage paper on refrigerators around to see if it is a topic we can turn into a conference paper.

6. Research Liaison Report

David Yashar reported that there are no research projects on the docket for TC 8.9 right now. The funding situation for research looks good right now. David went through an overview of the research project process, beginning with the RTAR (short document to propose the work to be done), followed by a work statement (outline everything that will be done as part of the project), ending with the bid process. There is a deadline of May 1 for RTAR's.

7. Section Head Report

Stephen Duda is section head of TAC and reported that he is responsible for section 8, which is equipment based. He said we are currently updating the roster for Orlando, so changes needed to be turned in following the Chicago meeting. Steve went over the requirements for a TC to win an award. The TC must have quorum, have an up to date website, have the meeting minutes issued within 60 days of the meeting, and have the chairs attend their respective chairs' meetings.

8. Research Subcommittee Report

David Yashar's report is found under the Research Liaison section.

John Dieckmann has not developed any RTAR's based on feedback during the Seattle meeting.

Some potential ideas that were discussed included:

- Refrigerator performance at off-design conditions (such as garage, etc.)-how much energy does it use? Can the money wasted be quantified?
- Variable speed compressors-standard for defining their performance

Michael volunteered to do an RTAR for the idea on refrigerator performance at off-design conditions. Detlef will try to write an RTAR for the variable speed compressor idea.

Standards for refrigerators was brought up again, but the TC will hold off on writing up an RTAR.

9. Handbook Subcommittee Report

Detlef Westphalen reported that the Committee's Handbook Chapter was published in the 2014 ASHRAE Handbook-Refrigeration. It was suggested that our next efforts to update the chapter include linear compressors and alternative refrigerants and that we appeal to the manufacturers to make the chapter more relevant for them. Detlef suggested we begin our revision efforts for the chapter in January 2016.

10. Standards Subcommittee Report

TC is not responsible for any standards.

11. Web Site Review

John Dieckmann, the TC 8.9 Webmaster, reported on the TC 8.9 website. John will be making a few needed updates to the website.

12. New Business

A developing economies ad-hoc committee has been formed. They will be going around to talk about HFC phaseout and intend to liaison with TCs.

13. Next Meeting

The next meeting of TC 8.9 was set for Monday, June 29, from 2:15 – 4:15 p.m. in Atlanta, GA. Please view the ASHRAE schedule for the room assignment.

14. Adjournment

Amy Shifflett moved to adjourn the meeting. Detlef Westphalen seconded. Motion passes 6-0 and the meeting was adjourned at 4:10pm.

Submitted By: Amy Shifflett