

**AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR-CONDITIONING  
ENGINEERS, INC.  
1791 Tullie Circle, N.E./Atlanta, GA 30329  
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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 July 14, 2015

TC/TG/MTG/TRG TITLE Residential Refrigerators and Food Freezers  
DATE OF MEETING June 29, 2015 LOCATION Atlanta, GA

MEMBERS PRESENT	YEAR APPTD	MEMBERS ABSENT	YEAR APPTD	EX-OFFICIO MEMBERS AND ADDITIONAL ATTENDANCE
John Dieckmann	2014	Patti Conlan	2012	Yi Qu
Detlef Westphalen	2014	John Sabelli	2014	Troy Watson
Amy Shifflett	2014			Robert Fisher
Reinhard Radermacher	2013			Ken Jang
Michael Pate	2014			David Yashar
Ed Vineyard	2014			Stephen Duda

**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 June 29, 2015 in Atlanta, GA**

### 1. Welcome and Introductions

The meeting convened at 2:21 p.m. Five of the current voting members and one non-quorum voting member were present (Dieckmann, Westphalen, Shifflett, Pate, Radermacher, and Vineyard). All of those present introduced themselves.

### 2. Minutes

The minutes for the Chicago meeting were reviewed. Dieckmann made a motion to approve. Pate seconded. The Chicago meeting minutes were approved by all 6 voting members.

### 3. 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:

- A reminder was issued to the TCs to make sure their rosters and websites are up to date.
- There is new software that will be launched soon to help TCs maintain their webpages. It is currently being beta tested by some TCs.
- ASHRAE members should get their bios up to date. A special emphasis is on professional affiliation (what you do for a living). It's not a mandatory field in the bio, but helps ensure diversity in TCs.
- If your bio is up to date, it is now automatic for ASHRAE to see if you qualify for a Distinguished Member promotion based on your service to ASHRAE. Michael is going to check to see if anyone in our TC qualifies for the promotion.

### 4. Membership Roster and Officers effective July 1, 2015

#### Voting members

<b>Member</b>	<b>Year term ends</b>
George Yaeger	2019
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	David Yashar

Webmaster

John Dieckmann

David Yashar has volunteered to become an active committee member again now that his term as Research Liaison has ended.

## 5. Section Head Report

Stephen Duda introduced himself as section 8 TAC head and announced that he is retiring as section head at the close of this meeting. The new section head is Dustin Meredith. He said we are operating under the old roster for this meeting and the new roster will take effect at the close of the meeting. Michael Pate asked for more info regarding how our non-quorum voting member benefits our TC. Steve said that a non-quorum voting member only counts towards quorum when they are present at the meeting. If they are not present, they do not hurt the quorum numbers. TCs can have 0, 1, or 2 non quorum voting members and this tends to benefit TCs that have members who are international or who are unable to make every ASHRAE meeting. A new website template is being developed that will be introduced in the fall. It will make website content much easier to edit. Steve reminded us about the electronic activity report, which is filled out by the chair after each meeting and is submitted by the next night. The e-mail address to send it to is [sh8@ashrae.net](mailto:sh8@ashrae.net). This is the section 8 head e-mail address. Steve will pick the winner of the Best Section 8 TC award before he departs. TCs must have on time minutes, agenda, up to date website, etc. to win the award. Steve said there is a big emphasis from ASHRAE on welcoming new people to TCs, as some have complained they don't feel welcome when they attend a TC. Michael said this hasn't been a problem for us. Steve said an e-mail will come out shortly offering to send a letter of thanks from the ASHRAE president to your employer thanking them for your ASHRAE participation. Steve said that if you are interested, you just fill out the info in the e-mail and a letter will be sent. Michael asked for clarification of the Distinguished Service Award. Steve said it is strictly points based and the computer will total your points in your bio if your bio is up to date. If you meet the criteria, you will get an e-mail. Steve warned that not all items you can get points for are in your bio, so it may be quicker to fill out the form. It's under Membership on the ASHRAE membership in the Honors and Awards category. Michael thanked Steve for his service to our committee.

## 6. Program Subcommittee Report

Michael Pate delivered the Program Subcommittee report. We would need intent in the next few weeks if we are going to be able to do a seminar session in Orlando. Reinhard and Michael will check if they have anything to do a seminar session on for Orlando or St. Louis. Ed Vineyard had an idea on recent developments in residential refrigerators and he will contact Michael and Reinhard to work on the idea. Detlef was going to retrace his steps on the paper on refrigerator usage. He did find the paper and sent it around to the TC after the meeting.

## 7. Research Liaison Report

David Yashar reported that he is liaison for two more days. Michael asked a question regarding RACs authority for approvals. Dave said that projects that are over \$100K in cost need additional approvals beyond RAC. RAC won't push a project on the next step if there are issues with it. RAC meets four times per year to approve RTARs. The next meeting is in October. There is a big change coming with the payment model for projects. It used to be quarterly. Funding will now be based on milestones instead. Work statements will now need to include tasks and milestones. This gives ASHRAE and TCs more control of a project. For our TC, we should assume this in effect now since we don't have any current RTARs. Chris Wilkins will take over for David. The e-mail address for Chris is [rl8@ashrae.net](mailto:rl8@ashrae.net). Michael thanked David for his service.

## 8. Research Subcommittee Report

John Dieckmann provided the report. In summary of the Research Chairs breakfast, ASHRAE's strategic plan is now a bigger focus on all things residential. This enhances our TC's opportunity for research money. Funding is not an obstacle right now.

At the last meeting, Michael volunteered to do an RTAR on refrigerator performance at off-design conditions. He did write up the RTAR and had a student of his do preliminary work and found that below 40F ambient conditions the energy

usage goes up, as well as over 90F. He is going to do a literature search to see where the knowledge gap is to see if we should pursue this.

We discussed the variable speed compressor idea and a way to express performance to designers. It was suggested by David that we reach out to TC 8.1 since they are the compressor TC.

Ken Jang is going to look into an RTAR with John on problems with refrigerator gaskets and why it is important.

New research was proposed to look at thermo-electric refrigerators. Some ideas to consider are the best applications for these, cost vs. efficiency, etc. Yi Qu had the idea and it was asked for her to write the info down, perhaps in RTAR format, so we can see what's necessary.

### **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. John was wondering if we can post presentations that our TC gives at ASHRAE and said he would look into it.

### **12. New Business**

No new business

### **13. Next Meeting**

The next meeting of TC 8.9 was set for Monday, January 25, from 2:15 – 4:15 p.m. in Orlando, FL. 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 4:15pm.

Submitted By: Amy Shifflett