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

# 1791 Tullie Circle, N.E./Atlanta, GA 30329

**404-636-8400**

# 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 January 30, 2017

TC/TG/MTG/TRG TITLE Residential Refrigerators and Food Freezers

DATE OF MEETING January 30, 2017 LOCATION Las Vegas, NV

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| MEMBERS  PRESENT | YEAR  APPTD | MEMBERS  ABSENT | YEAR  APPTD | EX-OFFICIO  MEMBERS AND  ADDITIONAL  ATTENDANCE |
| Reinhard Radermacher | 2013 | George Yaeger | 2015 | Dennis Nasota |
| Amy Shifflett | 2014 | Edward Vineyard | 2014 | Sage Tomlinson |
|  |  | Ken Jang | 2016 | Scott Young |
|  |  | John Sabelli | 2014 | John Dieckmann |
|  |  |  |  | Michael Pate |
|  |  |  |  | Detlef Westphalen |
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**DISTRIBUTION**

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| --- | --- |
| ***All Members of TC/TG/MTG/TRG plus the following:*** | |
| TAC Section Head: | SH8@ashrae.net |
| All Committee Liaisons As Shown On TC/TG/MTG/TRG Rosters:  Research liaison  HB liaison | Christopher Wilkins  Donald Fenton |
| Mike Vaughn,  Manager Of Research & Technical Services | MORTS@ashrae.net |

**ASHRAE TC 8.9 Residential Refrigerators and Food Freezers**

**Minutes of Meeting held Monday January 30, 2017 in Las Vegas, NV**

**1. Welcome and Introductions**

The meeting convened at 2:18 p.m. Two of the current voting members were present (Amy Shifflett and Reinhard Radermacher). All of those present introduced themselves.

**2. Minutes**

The minutes for the St. Louis meeting were reviewed. We did not have quorum so there was no motion to approve. Amy Shifflett will send out the minutes to voting members and will conduct a paper vote.

**3. Chairman’s Report**

Amy Shifflett gave the Chairman’s Report. The program statistics for the Las Vegas meeting show that quite a few programs and papers were approved as compared to what was submitted.

TC’s are now allowed to have a program in their TC meeting. There are also two new program types: panel discussion and debate.

Seminar, forum, and workshop proposals for the Long Beach meeting are due February 6, 2017. Conference papers for the 2018 Winter Meeting in Chicago are due July 7, 2017.

A member of TC 8.6, Paul Lindahl, won the Hightower Award.

RAC is prioritizing research topics related to the residential sector. This could be a good opportunity for our TC.

##### 4. Membership Roster and Officers effective July 1, 2016

**Voting members**

**Member** **Year term ends**

George Yaeger 2019

Amy Shifflett 2018

Ken Jang 2020

Reinhard Radermacher 2017

John Sabelli 2018

Ed Vineyard (non-quorum voting) 2018

**Committee Officers**

Chair Amy Shifflett

Vice-chair Detlef Westphalen

Secretary To be filled

Program Subcommittee Chair Michael Pate

Handbook Subcommittee Chair Detlef Westphalen

Research Subcommittee Chair John Dieckmann

Standards Subcommittee Chair David Yashar

Webmaster John Dieckmann

**5.** **Section Head Report**

Dustin Meredith came and asked if we had quorum. We did not.

**6. Program Subcommittee Report**

Michael Pate delivered the Program Subcommittee report. We are hoping to have a seminar at some point, but are waiting for other factors to fall into place. Deadline for Chicago seminars is July 7, where there will be a Refrigeration mini track at the conference center.

Potential topic- Past, Present, Future and Far Far Future of Refrigerators.

Before moving forward with this topic, members need to talk to different refrigerator manufacturers to receive feedback on the idea and how to move forward.

**7. Research Liaison Report**

No Report was given.

**8. Research Subcommittee Report**

John Dieckmann provided the report. The committee decided all research project ideas would be on hold at the subcommittee meeting held on Sunday. John talked about an idea for research that the subcommittee decided we were no longer going to pursue, the investigation of small thermoelectric refrigerators. Info on this has been published by another organization.

Several meetings ago George Yaeger proposed looking at the effect of dust on condenser coils and how that effects the load on a condenser. David Yashar thought it might have traction because there is a similar project with dirty condensers on air conditioning systems. The committee is doing a literature review to see what research has been done on the topic.

Michael re-proposed looking at the consequences of a refrigerator or freezer in a non-ambient environment- garages, basements, etc. Michael will do a literature search. Committee is looking into the possibility of submitting an RTAR/work statement

Potential other projects suggested include compiling data on the leading refrigerants tested under realistic conditions on several different refrigeration units. This idea could experience road blocks with the confidentiality that companies keep with the research they are currently performing. Michael volunteered to write an RTAR

**9. Handbook Liaison Report**

Our handbook liaison is Donald Fenton. The deadline for our handbook chapter is March 2nd . The handbook staff would like to see all of the tracked changes and have it sent to handbook staff and to the Handbook Liaison, Donald Fenton.

**10. Handbook Subcommittee Report**

Detlef Westphalen reported that there is a draft that has been sent to voting members and others. We discussed it in our subcommittee meeting on Sunday and agreed that overall the changes made to the chapter were agreeable. Michael agreed to work with his students on figures on refrigerator and freezer images as well as compressor labeling in the top part of figure 7. John volunteered to look at the foam insulation section including phase out dates and the future of foam insulation. Detlef volunteered to review and add any potential references. The handbook chapter is due March 2nd. Michael is exploring a technical addition for the conditions in refrigerators optimized for fruits and vegetables based on his published research.

**11. Standards Subcommittee Report**

TC is not responsible for any standards.

**12. Web Site Review**

John Dieckmann, the TC 8.9 Webmaster, reported on the TC 8.9 website. John has uploaded the minutes and agenda.

**13. New Business**

The new roster is due at the end of the Las Vegas meeting. Reinhard is rolling off as a voting member. Michael, John, and Detlef are all eligible to roll back on as voting members and have been added to the roster as voting members effective at the conclusion of the Long Beach meeting.

TC 8.9 needs a new secretary to replace Jeff Salisbury. Michael Pate volunteered to be secretary.

**13. Next Meeting**

The next meeting of TC 8.9 was set for Monday, June 26, 2017 from 2:15 – 4:15 p.m. in Long Beach, CA. Please view the ASHRAE schedule for the room assignment.

**14. Adjournment**

There was no motion to adjourn due to the lack of quorum. The meeting ended at 3:56pm.

Submitted By: Sage Tomlinson