

**ASHRAE TC 10.7
Commercial Food & Beverage Refrigeration Equipment
Minutes of 2016 Winter Meeting
Orlando, FL - January 25, 2016**

1. Welcome & Introductions

Chairman Charlie Hon welcomed the members and guests and called the meeting to order at 2:18 pm. Members and guests introduced themselves. The Agenda was distributed, and a sign-in sheet was circulated. Mr. Hon reminded everyone that the ASHRAE Code of Ethics must be adhered to by those doing ASHRAE business whether or not the participant is an ASHRAE Member. The Code of Ethics can be found at <https://www.ashrae.org/about-ashrae/ashrae-code-of-ethics>

2. Review and Revise Agenda

No changes were requested and the agenda was approved.

3. Determination of Quorum

Quorum was established with twelve (12) of thirteen (13) voting members present.

4. Scope / MBO's

For the benefit of guests, Hon read the TC's scope and objectives. He referred participants to the Agenda to find these items in detail.

5. Liaisons & Announcements

- Committee Liaisons were acknowledged and brief announcements were given.

CL- ref committee- sessions for refrigeration for ASHRAE learning institute. Training lectures for flammable refrigerants for developing countries. (Ad hoc committee) looking for lectures on these refrigerants.

6. Membership

Current Membership was reviewed as listed below:

2015-2016 membership table:

Voting Members	End Date	Leadership Team	
Timothy Anderson	6/30/2018	Chair:	Charles Hon
Pradeep Bansal	6/30/2019	Vice Chair:	Timothy Anderson
Patti Conlan	6/30/2019	Secretary:	Lauren Zelinski
David Demma	6/30/2016	Handbook Chair:	David Demma
Cynthia Gage	6/30/2016	Program Chair:	Caleb Nelson
Charles Hon	6/30/2016	Research Chair:	Shitong Zha
Cesar Lim (NQ)	6/30/2019	Standards Chair:	Van Baxter
Jon Murray	6/30/2018	Webmaster:	Kyle Larson
Caleb Nelson	6/30/2018	MTG.LowGWP Liaison:	Brian Fricke
Gustavo Pottker	6/30/2019		
Carl Roberts	6/30/2018		
Lauren Zelinski	6/30/2018		
Shitong Zha	6/30/2019		

The following members will be rolling off after this meeting and Chairman Hon thanked them for their contribution to the committee over the past few years. Cynthia Gage and Dave Demma.

At this time there are also three new additions to membership of 10.7. The following members agreed to serve starting after this meeting: Massoud Neshan, Daryl Erbs.

7. Review Draft Minutes from the 2015 Summer Meeting in Atlanta, GA

Minutes were reviewed and there was no discussion. Motion was made and duly seconded to approve the minutes. VOTE: 12-0-0-1

8. Subcommittee reports

A. Program Subcommittee (Caleb Nelson, Chair)

The following Programs were presented in Orlando:

Seminar 61: *Improving the Efficiency of Low GWP Commercial Refrigeration Systems*

Seminar 20: *Highlights from the 24IIR international Congress of Refrigeration*

Seminar 37: *Best Practices in Manufacturing, Field Installation and servicing Refrigeration and Air Conditioning Systems*

B. Research (Shitong Zha, Chair)

Project 1467 *Balancing Latent Heat Load between Display Cases & Store Comfort Cooling Tech* paper was submitted. TC 10.1 and 10.5 are interested in report.

- RTAR 1706 – *Minimum Refrigerant Charge Attainment for Commercial Refrigeration Systems* Asked TC 10.6 to review. Shitong to follow up with them. **(ACTION 1)**

- RTAR 1722 – *Optimizing Air Curtains for Refrigerated Display Cases with Glass Doors* Was returned. Can be resubmitted.

- WS 1615- *Fault Detection and Diagnostic Methods for Supermarkets*

Was accepted and Project was given to the University of Nebraska- this is now a Research project. Contact Yuebin Yu email: yuebin.yu@unl.edu PH: (402) 554-2082 for more information or to monitor the progress of this project

New Project Ideas:

Checked with TC 10.8 with WS refrigeration *facility doorway infiltration air energy reduction* should considering working with 10.8 on this. Shitong to forward to VMs to review and provide feedback to 10.8 **(ACTION 2)**

A new idea was proposed for *High glide refrigerants sizing in evaporative condensers*. Heatcraft will go to TC 8.4 for collaboration (**ACTION 3**)

New hot gas CO2 defrost control

Carl brought up since these systems are different from HFC

Defrost and coil coating technologies

Ramin and Daryl to submit RTAR. It was decided that a study of penalty of frost formation and defrost on refrigeration system would be beneficial to the industry as there is not much currently published on frost. Ramin volunteered to write an RTAR on this topic. (**ACTION 4**)

Ad-Hoc Group – *New technology assessment and application for energy efficiency in display cases* (J. Murray, C. Roberts, R. Faramarzi) Report will be given at St Louis TC 10.7 meeting (**ACTION 5**)

C. Handbook (Dave Demma, Chair)

Dave Demma stated that there was not much to report at this time. The next update is due in two years but it was suggested that the meetings begin shortly to update especially the cases and refrigerant information. Table in main chapter for compressors needs to be updated as it currently has old refrigerants. The Refrigeration Handbook was published in 2014.

D. Standards subcommittee (Van Baxter, Chair)

SPC 18- up for 5 year cycle review. TC needs to decide to revise, reaffirm or withdraw. References are currently out of date and need to be updated. Contains some non-code language that would need to be handled with a revision. Last revised in 2003

Motion made to reaffirm and committee voted.

VOTE: 11-0-0-1 CNV

Van will put form in for Reaffirmation (**ACTION 6**)

Jon will follow up with manufacturers to see if there is interest in revising this standard (**ACTION 7**)

- **SPC-29** (Daryl Erbs)

Erbs reported that ASHRAE 29-2015 was completed and published.

- **SPCs 32.1** (Scott Mitchell) **and 32.2** (Daryl Erbs)

32.1- minor cleanup and should be going out to vote and Public review before February.

32.2 has been meeting regularly and making progress. Should begin wrap up in St Louis.

- **SSPC-72** (Jon Murray)

Reviewing differences from DOE and updates the standard was published. Hoping to get wrapped up and voted out around St Louis.

SSPC 147

Van will provide update.

- **SPC-210** (Lauren Zelinski)

The revised title purpose and scope were approved.

ASTM attended to ask of ASHRAE would look into blast chillers during the Chicago meeting.

Charlie, Van and Scott drafted a TPS for the committees review. It was asked if anyone would be willing to chair or start this committee and Joe Sanders (Traulsen) would be willing to chair this committee. Van will submit paperwork to have this SPC formed (**ACTION 8**)

Motion for Joe Sanders to chair blast chiller

11-0-0-1 CNV

E. website (Kyle Larson, Webmaster)

Larson was not in attendance. Website platform has been updated and will take a little time to become fluid. Will have a new interface which should help with keeping those up to date that are not here at the meetings.

It was suggested that RTARs, updates and WS be included in submissions to the Webmaster.

Hon to follow up with Larson on continuing in the roll of webmaster (**ACTION 9**)

9. New Business

TAC-

Advances in refrigeration systems track in St Louis

Deadline February 8th for seminars

9. Adjournment

The meeting adjourned at 3:32 pm.

TC 10.7 ACTION ITEMS

Summer meeting 2014

ACTION #	Responsibility	Summary of Action	Status
1	Shitong	Follow up with TC 10.6 on RTAR 1706	
2	Shitong	Contact TC 10.8 <i>facility doorway infiltration air energy reduction</i>	
3	HeatCraft	Contact TC 10.4 for collaboration on <i>High glide refrigerants sizing in evaporative condensers</i>	

4	Ramin	Resubmit <i>Defrost and coil coating technologies</i>	
5	Ad- Hoc Group	Report in St Louis	
6	Van	Submit for Reaffirmation of Standard 18	
7	Jon	See if Manufacturer interest in revising Standard 18	
8	Van	Submit paperwork to have Blast Chiller SPC formed	
9	Charlie Hon	Follow up with Kyle on Webmaster position	
10			
11			