

**Draft Minutes for Technical Committee 10.5**  
**2016 ASHRAE Annual Meeting, Orlando**  
**Tuesday, January 26 - 3:30 to 6:00 PM**

**1. Call to Order**

**2. Establish Quorum (7 total incl VNQ, 5 required as minimum)**

a) Voting members

Smith, Eric	Chair
Fisher, Alan	Vice Chair
Greg Scrivener	Secretary
Young, Jim	Member
Borrowman, Wayne	Handbook Subcommittee Chair
Scott, Doug	Research Subcommittee Chair
Love, Richard (VNQ)	Program Subcommittee Chair
Eric Ramon	Member

b) Other positions (CM)

**3. Greet Guests/Visitors** – Alan extends a greeting to all our guests.

<b>Name</b>	<b>Affiliation</b>	<b>Member<sup>1</sup></b>
Alan Fisher	Pacific Gas & Electric	VM
Benjamin Skelton	Cyclone Energy Group	CM
Dan Dettmers	University of Wisconsin	VM
Patti Conlan	Arkema Inc	Guest
Daryl Stauffer	Johnson Controls	Guest
Dave Rule	IIAR	Guest
Don Fenton	Kansas State University	CM
Doug Scott	Vacom	VM
Scott Mitchell	SCE	CM
Jim Tauby	ASHRAE TAC	Guest
Greg Scrivener	Cold Dynamics	VM
Jim Caylor	Caylor Engineering	CM
Apichit Lumbertpongpa	ITC Company LTD	CM

Wayne Borrowman	Cimco Refrigeration	VM
John Gallaher	Hill Phoenix	Guest
Ray Cole	Axiom Engineers	Guest
Richard Love	Massey University	VNQ
Evan Lizardos	Lizardos Engineering	CM
Cathy Chappel	TRC Energy Service	CM

<sup>1</sup> Voting Member (VM), Corresponding Member (CM), (VNQ)  
Voting Non-Quorum

**4. Call to order 3:39 pm**

**5. Approval of Minutes from 2015 Annual Meeting, Atlanta**

Motion to approve: Greg Scrivener motioned, Doug Scott 2<sup>nd</sup> the motion.  
Minutes unanimously approved.

**6. Announcements/Additions to the Agenda**

None mentioned

**7. Reports & Discussions**

a) Reports from Liaisons

i. Refrigeration Committee – Dave Rule

Lots of discussion on program ideas. One presentation was submitted for St. Louis. Three were submitted for Las Vegas. One on magnetic refrigeration, others on some issues relating to developing countries.

Updating the ammonia PD. Committee has been formed.  
Encouraged to send any comments to Dave.

ii. Research project 1634 – Doug Scott

Doug Scott reported on 1634 guide for refrigerated facilities and systems. There is a no cost extension request. Should be completed by the end of August.

iii. Handbook Liaison – (Don Fenton)

Don Fenton reported that we have a lot of Chapters and the deadlines are coming up faster than we want to admit. He wants to get moving and approve some for handbook publication. We might not get every chapter reviewed but things are looking good.

Evans Lizardos reported the he has been working on the beverage chapter and hasn't had a lot of luck recently getting any reviewers.

Wayne is going to check with Don Blacklock and society that what records there are of who has previously reviewed and who has been asked etc.

There was discussion that we want to develop a resource that we continuously maintain.

Don Fenton reported that we are missing beverage, dairy, and candy/chocolate and he's still waiting on a couple others

Don is going to send the chapters to Wayne so we can distribute them and discuss and hopefully vote in St Louis on the ones that are done.

iv. Global Cold Chain Alliance – Benny Skelton

Talking to LEED there are some issues remaining with ventilation and interpretations of Standard 15.

An email from Ron Vallort was distributed and is included as an attachment to the minutes.

v. Section 10 Head – Jim Tauby

Jim discussed that in Las Vegas there is no refrigeration track. He encourages us to submit programs for the track in St Louis. The deadline for seminar application is February 8<sup>th</sup>.

vi. MTG: Alternative Low GWP Refrigerants - Doug Scott

Doug Scott will attend the next MTG meeting. The meeting will provide an update on the testing of alternative Hydrofluoroolefin (HFO) and HFO blend refrigerants.

vii. Refrigeration Commissioning Guide- (none)

viii. Chair report on Section 10 Breakfast Meeting

Greg Scrivener and Wayne Borrowman reported the main information obtained at the chair's breakfast meeting. ASHRAE is prioritizing research related to the residential sector, CEC is looking for track suggestions. Dates and tracks for upcoming programs were discussed.

ix. Programs – Richard Love

Wants to do a presentation in Las Vegas about the new sustainability guides.

Will check with Dan but will certainly put together a conference paper for Las Vegas.

x. Research – Doug Scott's update

Work Statement 1434 – Doug handed out a revised work statement. The committee reviewed. TC 10.8 is the sponsor, TC 10.5 is a co-sponsoring TC but we may have to put to a letter ballot as they want to finish by May.

TC 10.7 Was thinking of doing a similar project on smaller facilities. John Gallaher reported that he told them this project was quite a bit different but there was discussion of possibly using similar instrumentation so that there was a cost savings. We will wait for the finalized work statement from 10.8

Air circulation efficacy – discussed having a forum to see if there was a need for this research. Doug will continue working on RTAR and Richard will submit a forum application. Lots of discussion and

b) Handbook – Wayne Borrowman/Don Fenton

i. See above

ii. J Caylor talked about consumer goods forum possibly a good place for making contacts

c) Update on website

The new websites are up and running and look much better.

d) Membership Updates – Jim Young

TC 10.5 2016 Winter Meeting – Orlando  
January 26, 2016

No report.

- 8. Next meeting in St. Louis, June 2016**
- 9. Adjournment (5:30 PM)**