

**AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR-CONDITIONING
ENGINEERS, INC.
1791 Tullie Circle, N.E./Atlanta, GA 30329
404-636-8400
TC/TG/TRG MINUTES COVER SHEET**

"These draft minutes have not been approved and are not the official, approved record until approved by this committee."

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

TC/TG/TRG NO TC 10.02 DATE June 24th, 2013

TC/TG/TRG TITLE Automatic Ice Making Plants and Skating Rinks

DATE OF MEETING June 24th, 2013 LOCATION Denver

MEMBERS PRESENT	YEAR Appointed	MEMBERS ABSENT	YEAR Appointed	EX-OFFICIO MEMBERS AND ADDITIONAL ATTENDANCE
Wayne Borrowman (M)	2009	Jim Shepherd (CM)	1990	Ken Cooper –Section Head
John Scot (M)	2010	Al Podhorodeski (CM)	2004	Pradeep Bansal - liaison
Donald Siller (M)	2007	Ron Strong (CM)	2004	Eric Adams - TAC
John Sluga (CM)	2012	Roberto Sunye (CM)	2004	
Paul Kozlov (M)	2012	Robert Burdick (M)	2007	
Greg Scrivener (CM) v	2009	William McCartney (CM)	2002	
John G Davis v	2012	Mark MacCracken (M)	2007	
Daniel Dettmers	2013	Jon Edmonds (M)	2010	
		Ronald Vogl (CM)	2008	
		Bill Wladyka (M)	2011	
		Reinhold Kittler (M)	2010	

DISTRIBUTION

<i>All Members of TC/TG/TRG plus the following:</i>	
TAC Section Head: SH10@ashrae.net	<u>Eric Adams</u>
TAC Chair: TACChair@ashrae.net	Brian Becker
All Committee Liaisons As Shown On TC/TG/TRG Rosters: PL10@ashrae.net RL10@ashrae.net hbr1@ashrae.net hbr6@ashrae.net CTTC10@ashrae.net SL10@ashrae.net PubChair@ashrae.net PDC@ashrae.net	Dennis Wessel – Program; Hugh Henderson – Research; William (Bill) McCartney – Handbook; Al Podhorodeski – 2010 Refrigeration. Handbook; Richard des Lauriers – CTTC; Michael Beda – Standards; Mark Fly – Special Publications; Kenneth Fulk - ALI/PDC

Manager Of Standards; MOS@ashrae.net	Claire Ramspeck
Manager Of Research & Technical Services; MORTS@ashrae.net	Mike Vaughn
Research Liaison	Pradeep Bansal

2014 ASHRAE Summer Conference –Denver, Colorado
TC 10.2 Automatic Ice Plants / Skating Rinks
Monday June 24, 2013 4:15 to 6:30pm

Notes:

- These are **draft** minutes that have not yet been approved and are not the official record of the meeting until approved by this committee
- Votes cast during this meeting are in the format #for-#against-#abstain-#absent”

ITEM NO.	ITEMS	ACTION	REQ'D BY
.1	Call to Order: By Wayne Borrowman 4:15pm		
	Preliminaries:		
.2	<ul style="list-style-type: none"> a. Self introduction to members and guests. b. Attendance sheet circulated. c. Quorum established - Roster shows 6 voting members, 4 present. <p>Eric Adams: presented Certificate of Appreciation to Wayne Borrowman, reminded about adherence to ASHRAE Code of Ethics. Formed paper review panel, names to be emailed to Eric Adams and Wayne Borrowman</p>	All	
	Approval of Agenda:		
.3	<ul style="list-style-type: none"> a. Listing and corrections to voting members. 		
	Approval of Previous Minutes		
.4	<p>Approval of Dallas MoM</p> <ul style="list-style-type: none"> a. MoM amended b. John Scot motioned to accept the minutes from Dallas meeting. Don Siller seconded the motion. c. Voting result: [4 / 0 / 0 / 2] for/ against / abstain/ absent. d. Minutes accepted. 		Paul Kozlov to distribute
	LIAISON REPORTS		
.5	<p>Chairman’s Report</p> <ul style="list-style-type: none"> a. Daniel attended the Chairs’ Breakfast and updated on news 		
.6	<p>Handbook Subcommittee</p> <ul style="list-style-type: none"> a. Chair John Scot; members-Wayne Borrowman; Bill Wladyka b. John Scot advised that the corrected Chapters 43 and 44 are submitted with no comments to-date. c. John Scott requested Reinhold to coordinate with TC10.8 with cross reference between chapters. 		
.8	Research Subcommittee		

ITEM NO.	ITEMS	ACTION	REQ'D BY
	<ul style="list-style-type: none"> a. Talk with Pradeep Bansal re the available RTAR. New simplified TAR submission form is easier. Research is important and encouraged b. Currently no RTAR submitted, John Scot presented RTAR in new format, the topic is Development and Validation of Space Conditioning, the Method of Load Calcs. Needs to be done by Aug'13 for submission in Sept'13. Variables (RH, DB Temp, Load Refrigeration and Load A/Conditioning) affect the integrated power consumption and quality of ice sheet. Don stressed the relevance to ASHRAE. John Scot mentioned that the consultants and engineers need the better defined load components. CFD and similar mechanisms of digitizing the load are required. Eg, data summary, regression analysis, formulating "what good shall look like" c. Pradeep Bansal suggested to prepare RTAR on arena space load started by Reinhold. WBorrowman, PKozlov, JScot are to assist. Tentatively teleconference to discuss the details and seek comments in Sept. Once prepared will have to be forwarded for submission to TC 10.8, for further input and co-sponsoring, comments and review. d. John Scot updated on results of the last Research project 1289 done in 2000: RH was omitted and not considered above 2" of the ice sheet, making the efficiency and the conditions similar to those of a coffin freezer in supermarket applications. The major load component was radiant. 		Sept 15/2013
.9	<p>Programs Subcommittee</p> <ul style="list-style-type: none"> a. Deadline for Seattle conference paper Sept 23rd b. Deadline for NY seminars Aug 13, although the topic is not going to be very popular then as at that location the show is mostly attracting different trades. However, it is bigger than in Seattle. c. Don proposed to combine Research SC meeting with Program meeting. Also proposed to prepare for NY. Done moved, John Scot seconded. d. Voting result: [4 / 0 / 0 / 2] for/ against / abstain/ absent. 		
10	<p>Membership Subcommittee</p> <ul style="list-style-type: none"> a. Wayne Borrowman has submitted the roster. b. Don provided the updated roster at this meeting and is in the process of rolling off expired members and adding new Corresponding members to member status. Ongoing 		
	<p>NEW BUSINESS</p>		
.12	Webpage needs to be hosted by ASHRAE	Paul Kozlov	Sept 2013
.13	Paul needs the information required to access the website.		
	<p>Motion to Adjourn</p> <p>John Scott motioned to adjourn at 6:10 Second Wayne Borrowman Approved</p>		

ITEM**NO.****ITEMS****ACTION****REQ'D BY**

**Next meeting is to be held in NYC at the Winter Conference in
2014. Monday, Jan 21, 2014**

These notes are considered to be an accurate account of the meeting. If any discrepancies or omissions are noted, please contact the undersigned or raise it at the meeting; otherwise these shall be deemed acceptable to all.

Secretary: Paul Kozlov