

**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**

(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 January 28th, 2013

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

DATE OF MEETING January 28th, 2013 LOCATION Dallas

MEMBERS PRESENT	YEAR Appointed	MEMBERS ABSENT	YEAR Appointed	EX-OFFICIO MEMBERS AND ADDITIONAL ATTENDANCE
Wayne Borrowman (M)	2009	Jim Shepherd (CM)	1990	Fet Yang - guest
John Scott (M)	2010	Al Podhorodeski (CM)	2004	John Davis - guest
Donald Siller (M)	2007	Ron Strong (CM)	2004	Dan Dettmers - guest
Don Blacklock (M)	2010	Roberto Sunye (CM)	2004	Brian Blahey - guest
Paul Kozlov (M)	2012	Robert Burdick (M)	2007	
Reinhold Kittler (M)	2009	William McCartney (CM)	2002	
		Mark MacCracken (M)	2007	
		Jon Edmonds (M)	2010	
		Ronald Vogl (CM)	2008	
		Greg Scrivener (CM)	2012	
		John Sluga (M)	2012	
		Bill Wladyka (M)	2011	

DISTRIBUTION

All Members of TC/TG/TRG plus the following:

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

2013 ASHRAE Winter Conference –Dallas, TX
TC 10.2 Automatic Ice Plants / Skating Rinks
Monday Jan 28, 2013 4:15 to 6:30pm

ITEM NO.	ITEMS	ACTION	REQ'D BY
.1	Call to Order: By Wayne Borrowman 4:15pm		
	Preliminaries:		
.2	a. Self introduction to members and guests. b. Attendance sheet circulated. c. Quorum established - Roster shows 6 voting members, 6 present. Eric Adams: e-meetings are trialed for some TCs and will be more common in near future.	Don Blacklock All	
	Approval of Agenda:		
.3	a. Listing and corrections to voting members.	Bill Wladyka	Jan.232012
	Approval of Previous Minutes		
.4	Approval of San Antonio MoM a. Paul K motioned to accept the minutes from the Montreal meeting. John Scott seconded the motion. b. A vote was held with 6 for/ 0 no/0 abstain/ 1 absent. c. Minutes accepted. d. Paul K is to circulate MoM within a few weeks from today		
	LIAISON REPORTS		
.5	Chairman's Report		
	a. Wayne attended the Chairs' Breakfast. Change of name, changes to fees for speakers, standards are loaded on www, research / TCs / forms / rosters		
.6	Handbook Subcommittee		
	a. Chair John Scott; members-Wayne Borrowman; Bill Wladyka b. John Scott noted that the Chapters 43 and 44 are provided for review and comments / voting needs to be wrapped up in March. Deadline is in June.	John Scott	March 10/2013
	c. John Scott will request Reinhold to coordinate with TC9.8 with cross reference between chapters. d. Outstanding items on chapters: X_i and X_a coefficients, 6.6 to 6.1 in the humidity formula e. Wayne was to find interested candidates amongst automatic ice making equipment OEMs, to join 10.2 f. Letter Ballot in early March for SI conversions		
7	Standards Subcommittee		

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	<p>An update on Std 15. R717 and secondary refrigeration are proposed for elimination from this Std, but was unlikely to be satisfied. Also commercial indirect systems and industrial ammonia systems are under IA-2, not Std 15. A new editorial sub-committee and 2L refrigerants topics. Now UL is needed for equipment</p>		
	<p>TC10.1. Wayne B to approach Refrig Committee to request their representative to attend TC 10.1 and 10.2</p>		
.8	<p>Research Subcommittee</p>		
	<p>a. Discussion with Mike Vaughn on RTAR available, John Scott proposed to prepare an RTAR Development and Validation of Space Conditioning, the Method of Load Calcs. Needs to be done by March'13.</p> <p>b. Topic to explore: ice sheet is segregated from HVAC systems whilst connecting the controls and design foundation there would bring the sought results on energy efficiency and reduction of the radiant loads on the ice making equipment at the cost of the increased HVAC load. Previous research project showed the improvement between 25% to 38%. There is an active program on optimum RH / DB conditioning (which one?), ice temperature controlled by the application (curling vs NHL).</p> <p>c. Pradip suggested to prepare RTAR on arena space load started by Reinhold. PK, JS, wb are to assist. Seek comments in Feb. Once prepared will have to be forwarded for submission to TC 10.8, 4.1, 4.7 for further input, comments and review. Consider consulting TC on Large Bld HVAC</p>	?	March 21/2013
.9	<p>Programs Subcommittee</p>		
	<p>a. Prepare a Seminar for NY. 3 speakers / chair, co-sponsor on RH control and de-humidification in Ice Rink application. Good Eng'g Practice for Ice-Air interactions (sublimation, condensation etc) and optimized HVAC – refrigeration system. Input are sought for NY in Jan'14</p>		
10	<p>Membership Subcommittee</p>		
	<p>a. Wayne Borrowman has submitted the roster.</p> <p>b. Bill Wladyka has rolled back in. John S. moved in as voting (?) Paul K is to move from corresp to voting to prepare to roll in as a Chair in NY in Jan'14, Reinhold's was uncertain about Denver Greg Scrivener and Dave M both roll in as voting members, Don and Bill will stay as voting members.</p> <p>c. 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> <p>d. John Scott will remain as member and Handbook subcommittee chair</p> <p>e. Wayne Borrowman is moving from Chair's role to corresponding member in June'13 or June'14</p> <p>f. John Davis and Dan Dettmers moving in as corresponding members</p> <p>g. Brian Blahey is to join as a corresponding (non-quorum) member</p> <p>h. Don S, Reinhold and Wayne Borrowman are all stepping down to corresponding members</p> <p>i. Dave Malinaskas stepped from corresponding to voting</p> <p>j. Greg stepped up from corresponding to voting. Also becomes a vice-chair</p>	Paul Kozlov	Feb 2013

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NEW BUSINESS

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|-----|---|------------------|-----------|
| .12 | Webpage needs to be hosted by ASHRAE | Paul Kozlov | June 2013 |
| .13 | Mike Vaughn is to e-mail Paul the information required to access the website. | Don
Blacklock | Feb 2013 |

Motion to Adjourn

John Scott motioned to adjourn at 6:10
 Second Wayne Borrowman
 Approved

Next meeting is to be held in Denver at the Summer Conference in 2013. Monday, June 24, 2013

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