

**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 No. 8.5 DATE 06/24/2013

TC/TG/MTG/TRG TITLE Liquid-to-refrigerant heat exchangers
DATE OF MEETING 01/28/2013 LOCATION _____

MEMBERS PRESENT	YEAR APPTD	MEMBERS ABSENT	YEAR APPTD	EX-OFFICIO MEMBERS AND ADDITIONAL ATTENDANCE
Justin P. Kauffman	2009	Petur Thors	2001	Vikrant Aute
Kaushik Oza	1997	Samual Yana-Motta	2004	Kishan Padakannaya
Ebrahim S. Al-Hajri	2009			Manfred Knab
Omar A. Abdelaziz	2009			William Asher
Satyam Bendapudi	2011			Jason Schlup
Stanislav Perencevic	2009			Evraam Gorgy
Amir Jokar	2005			John Kennedy
Lorenzo Cremaschi	2009			Jeff Martin
James T. Schaefer Jr	2011			Jared Stearns
Benjamin E. Dingel	2001			Rikard Tieger
Steven J. Eckels	2003			Bjorn Felgenhauer
Kenneth Schultz	2003			Adam Rhoads
Sankaranarayanan Padmanabhan	2011			Dennis Nasuta
Joseph Huber	1996			Wu Xiao
				Pratik Deokar
				Andrea Bigi
				Chao Shen
				Jack Esformes
				Zahid Ayub
				Barbara Minor

DISTRIBUTION

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

TAC Section Head:	Stephen Duda
TAC Chair:	William McQuade
All Committee Liaisons As Shown On TC/TG/MTG/TRG Rosters:	Donald Brandt, Patrick Marks, David Yashar, Francis Mills, Rick Larson
Manager Of Standards Manager Of Research & Technical Services	Mike Vaughn



ASHRAE

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ASHRAE TC 8.5 – Heat Transfer Refrigerant Heat Exchangers Winter Meeting, 28 January 2013 (Dallas, TX)

Call to Order

TC Chair Kauffman called the meeting to order and read the TC 8.5 TPS.

Confirmation of Quorum

10 of 13 (incl. non-quorum) voting members were present; quorum was established.

Members present: J. Kauffman, K. Oza, O. Abdelaziz, S. Bendapudi, S. Perencevic, A. Jokar, L. Cremaschi, J. Schaefer, B. Dingel, S. Eckels

Members absent: E. Al-Hajri, P. Thors, S. Yana-Motta

Section Head Comments (S. Duda)

Duda relayed that the TAC had developed a slide-show for local chapters on what TC's are and what they do to give to local chapters, with room to add TC specific content. Details and additional information can be obtained by contacting sh8@ashrae.net. ASHRAE Members are also requested to update their bios with the primary and secondary categories of employer time, i.e. manufacturing, government, etc.

Approval of the Minutes from the previous meeting in San Antonio, TX

Minutes were circulated for review. Abdelaziz moved to approve the minutes as submitted. Bendapudi seconded. The motion passed by a vote of seven for, none opposed, 2 abstained (7-0-2). Motion carried.

Report from Membership sub-committee (K. Oza)

There are 13 voting members and 34 corresponding members on the roster. Chair agreed to confirm Dingel's term as voting member. Thors will be rolling-off as voting member on July 1, 2013. Knoepfler will roll in as voting member on July 1, 2013.

Report from Handbook Sub-Committee Chair (S. Padmanabhan)

There were no activities to report for this Meeting.

Report from Standards Sub-Committee Chair (J. Huber)

Standard 22: "Methods of Testing for Rating Water-Cooled Refrigerant Condensers" – Public review draft is expected to be voted on by the SC late April / early May.

Standard 181: "Methods of Testing for Rating Liquid to Liquid Heat Exchangers" is also being developed. Public review draft is expected at Denver meeting or shortly thereafter.

Report from Webmaster (J. Huber)

No new reports. Chair reminded members to provide content relevant to the TC that they'd like to see on the TC 8.5 website.

Report from MTG Liaison

B. Minor explored research projects relevant to 8.5 and reported that there was nothing particularly relevant in terms of opportunities at this time. The AHRI reports are available on AREP for new refrigerant-based chillers. February 8th, 2013 is the deadline for review comments from MTG for AIRAH's standard on low-GWP refrigerants. Kauffman agreed to circulate the document to the TC.

Report from Program Sub-Committee (O. Abdelaziz)

Session topic on recent advances in heat-transfer was re-submitted and not approved. The deadline for submitting seminar or forum requests for Denver is February 11th, 2013. Abstracts and/or titles are solicited for a session on "System test results with alternative refrigerants". Z. Ayub proposed that the Program SC chair poll the members on a monthly basis between Meetings for ideas for future meetings and research projects, and to include research tracks and topics to trigger ideas.

The deadline for submitting paper abstracts for the Winter 2014 Meeting in New York is March 15th, with papers due by early July.

Report from Research Sub-Committee (K. Schultz)

Research sub-committee breakfast notes were reported:

- Herman Bayles, Member since 1965, was recognized with a Service to ASHRAE Research Award.
- There are 62 active projects with >\$12M in funding:
 - o 8 have been completed; 10 new projects started;
 - o 6 TRP's have been out for bid since November;
 - o the RAC received 3-RTARs;
- 7 TRP's are ready for bid in spring; no work-statements have been created for them yet.
- The RAC is trying to reduce RTAR rejections by rolling out a new format
- 9 URP's have been submitted, 6 of which were rejected and 3 are under review
- Honors and Grants-in-aid
 - o 21 GIA's have been selected
 - o Ricardo de Silva from EPFL was awarded The Homer Adams Award
 - o Dr. Karava from Purdue was awarded the New Investigator Award
- The RAC strongly urges the submission of holistic research projects such as "sustainability" and are encouraging more to come through.
- PES Chair B. Dingel reported that TRP-1677 "Fouling on enhanced tubes" was sent out for bid; the PES met twice – once on phone on 1/24 and and at Dallas on 1/28. Four proposals were received; some questions have been raised on one of the proposals and will be submitted to the RAC liaison.
- Review of list of potential ideas for future projects:
 - o K. Schultz and A. Knoepfler to complete the RTAR on fouling in co-axials tube-in-tube heat exchangers;
 - o Other ideas: generalized heat transfer correlations for BPHE's, use of propane and CO2 in BPHE;
- TC8.2 is proposing an RTAR on the effects of oil-concentration in flooded coolers. TC8.5 will stand by and let it go through at this time. If turned down by the RAC, TC8.5 will support revision.

- K. Schultz solicited volunteers to step in as research sub-committee chair for the 2013-14 ASHRAE year.

Chairs comments:

J. Kauffman reported following highlights from the Chair's breakfast:

- nominations are sought for the Hightower Award;
- members are requested to update their profiles on the website, and
- members are reminded to review and adhere to the ASHRAE code of ethics.

New Business

None

Adjourn

B. Dingel moved to adjourn. S. Perencevic seconded. The motion passed by a vote of 10 for, none opposed, none abstained (10-0-0). Meeting adjourned.