

**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 8.6 DATE 1/31/11

TC/TG/TRG TITLE Cooling Towers and Evaporative Condensers

DATE OF MEETING 1/31/11 LOCATION N221

MEMBERS PRESENT	YEAR APPTD	MEMBERS ABSENT	YEAR APPTD	EX-OFFICIO MEMBERS AND ADDITIONAL ATTENDANCE
Paul Lindahl	2008			Russ Lindemann
Jon Cohen	2007			Branko Korenic
Ron Wood	2008			Brian Dobbs
Mike Beda	2010			Amir Jonkar
Steve Kline	2010			Daryn Cline
Scot Mayes	2009			Allyn Troisi
Mark Huber	2010			Judith Jennings
				Philip Yu
				Philip Holander
				Frank Morrison + 3 others

DISTRIBUTION

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

TAC Section Head: William McQuade	
TAC Chair: Donald Brundage	
All Committee Liaisons As Shown On TC/TG/TRG Rosters:	
Manager Of Standards Manager Of Research & Technical Services	Claire Ramspeck Mike Vaughn

1. Preliminaries
 - a. Call to order 2:20
 - b. Introduction of members and guests
 - c. Attendance list
 - i. Please make sure that everyone signs the attendance sheet
 - ii. 7 voting members present, quorum achieved
 - d. Additions to agenda
 - i. None
 - ii. Motion to approve Beda, second Cohen
 1. Carries unanimously
2. Approval of Minutes
 - a. Albuquerque minutes posted on web site
 - b. Comments on the minutes from Albuquerque
 - c. Motion to approve Beda, second Wood
 - i. Approved unanimously
3. Review of Section 8 breakfast
 - a. Asking for draft minutes to be posted on website by April 1.
 - b. Push for people to attend training sessions for subcommittee chairs.
 - c. Introduced a new step for a draft roster by section head to fix roster errors prior to the summer conference.
 - d. PowerPoint for the Chair Training is available online.
 - e. There are conference paper and transaction paper sessions.
 - f. There is a training session for program chairs tomorrow at 11:15
 - g. There is a pitch to use Google Groups for TC's
 - h. There is a help wanted section on the community page of the website if there are committee needs, to solicit assistance from people with expertise.
 - i. Montreal conference in June, the Theme is Net Zero Energy. See www.ashrae.org/montreal. There is a similar site for Chicago www.ashrae.org/chicago. See the web sites for deadlines. The next meeting is San Antonio in June of 2012 and they are going to drop themes for the conferences.
 - j. Time was spent regarding disseminating information for the next meeting in Canada. Passports are needed for entry and return.
 - k. Websites should be kept current and list positions within the TC.
 - l. TC's can request new guidelines or standards, but need at least 4 members.
 - m. There have been issues with reaffirmation of standards, especially with regard to communication.
 - n. We are lucky to have Bill McQuade as section head and he has assisted the committee with roster issues in the past.
 - o. Two new tracks will be implemented for future meetings that are more general
 - p. Gary Phetteplace was the Hightower award winner.
4. ASHRAE Liaison Reports
 - a. Bill McQuade stopped in and asked for any issues. None mentioned.

5. Membership
 - a. Cohen, Lindahl and Sanderson will roll off at this meeting.
 - b. LeClaire is coming on as VM. Patton will be asked to roll on as VM.
 - c. If you want to become a voting member of the group, please talk to Chair Lindahl, but changes must be in tomorrow
 - d. Ron Wood will become chair, Jon Cohen as Vice Chair and Steve Kline to become secretary.
 - e. Webmaster has resigned. Philip Yu to become new webmaster.
 - f. Scott Mayes to become program chair.
 - g. Other chairs to remain the same.
 - h. Three people can on as provisional members this year. Participation is necessary to become CM. PCM roll off after two years.
6. Handbook (Lindemann)
 - a. Brief meeting this morning
 - b. Comments have been compiled and sent out to the subcommittee. If others want a copy, he will send them out for review.
 - c. Trying to get comments compiled by mid March so they can be sent out for review and vote can be taken by Montreal at the latest.
 - d. Working with 8.4 and 8.5 on the condenser chapter.
7. Standards (Huber)
 - a. SPC 64 met in Albuquerque and voted to go to public review
 - b. No comments received
 - c. On its way to publication
 - d. Meeting following this meeting to shore up some items.
 - e. Attended project committee chairs breakfast
 - i. Looking to adopt more international standards and market ASHRAE standards internationally
 - ii. Looking to adopt ISO guidelines
 - iii. Interesting facts regarding ASHRAE standards and guidelines
8. Research (Huber)
 - a. Met this morning
 - b. 1 RTAR being drafted on energy and water conservation on a regional scale
 - i. RTAR is skinny on details
 - ii. Liaison was there to give us some guidelines and assistance in moving it forward
 - iii. Discussed holding a forum on the topic. Previous attempt not approved. Will try again for Montreal.
 - iv. There is information on water needed for energy production. There is a wide variation between energy generation types. We are planning to look at various regions or climate zones like 90.1.
 - c. Barry Fields has submitted an RTAT to 3.6 "Evaluation of the Ability of Cooling Tower Drift Eliminators to Remove Legionella from Effluent Air Streams"
 - i. Motion to co-Sponsor Cohen, second Beda

- ii. Approved 6-0, chair abstained
 - d. Attended research subcommittee breakfast
 - i. Research committee awards grants each year. 22 were awarded this year out of 66 applications.
 - ii. New investigator award. \$50,000 for new researchers.
 - iii. Homer Adams award for former grad students who worked on ASHRAE projects
 - iv. \$1.3 million available for 2011-2012
 - v. 18 current to go out for bid this spring.
 - vi. Looking to form multidisciplinary task groups for projects that are in multiple TC areas. This will prevent multiple TC's to have to vote on the project making the process more simplified.
 - e. RTAR "Impact of Supply Water Filtration on Building Water Systems" by Tim Keane in 3.6. He needs some assistance to make the RTAR more broad in scope. Mayes may be able to assist with the wording of the RTAR.
- 9. Programs (Shapiro absent, Mayes standing in)
 - a. Seminar 33 tomorrow morning at 8 in Pavilion 4 on filtration.
 - b. Seminar 10 on Boiler Water treatment from 3.6 was well attended.
 - c. Proposed forum on Water and Energy conservation for Las Vegas was rejected title "Water/Energy Nexus: How to study the interrelationship of water and energy consumption"
 - d. Forum in Montreal proposed "Development of an RTAR to determine Design Criteria for Optimizing Water and Energy Conservation".
 - i. Motion by Mayes, second Cohen
 - ii. Approved 6-0, chair abstained
- 10. TC 3.6 (Yu)
 - a. Discussion of programs for next meeting
 - i. Conference paper session for Chicago with water/energy balance theme, title to be determined. Support of 8.6 to co-sponsor the conference paper session.
 - 1. Motion by Cohen, Mayes second
 - 2. Approved 6-0. Chair abstained
 - b. No update on handbook
 - c. 1 RTAR being submitted (see above)
- 11. TC 2.8 (LeClaire)
 - a. Third edition of Green Guide has been published.
 - b. AHSRAE wants the fourth edition for 2013
 - c. Internal concerns on how the guide was edited. Wants a professional editor to be hired, but that was rejected.
 - d. Looking to add carbon footprint to 4th edition. Want to keep cognizant TC's involved.
- 12. STD 90.1 (Lindahl)
 - a. Workshop in Ca regarding Title 24.

- i. Taylor engineering made a proposal for title 24 to put in requirements for cooling tower approach and minimum gpm vs horsepower.
- ii. Subcommittee in 8.6 on standards and codes met regarding title 24 issues. Came together and crafted a letter and the resultant letter has been passed out. This letter was from the subcommittee only at this point.
 - 1. Motion for TC to endorse the response by full committee by Beda, second Mayes
 - 2. Approved 6-0, chair abstained
- b. In 90.1, proponents of air cooled chillers are pushing to add costs of water consumption to the comparison of air and water cooled chillers. Lindahl has distributed his synopsis of the discussions in 90.1.
 - i. As efficiencies are published, there is no way to compare them. They are not even using equivalent rating systems.
 - ii. We need a common ground for comparison and make the duty points more comparable.
 - iii. Other issues are listed.
 - 1. Motion to endorse subcommittee to take a more aggressive stance to influence 90.1 regarding the listed issues, especially water consumption by air-cooled units.
 - 2. Motion by Beda, second by Mayes
 - 3. Approved 6-0, chair abstained

13. Web Site

- a. Addressed in membership.

14. Old Business

- a. None

15. New Business

- a. None

16. Adjourn 4:11