

ASHRAE TECHNICAL COMMITTEE MEETING TC-5.7 EVAPORATIVE COOLING

Date: Monday, January 30, 2017, 4:15 to 6:30 PM

Location: Caesars Palace Hotel, Las Vegas, Nevada. Tribute Room at Pool Level

Chairman: Andy Cochrane, PE

PRELIMINARIES:

The meeting was called to order by Andy at 4:30 PM with self-introductions. An attendance sign-in sheet was circulated and signed by those in attendance. A quorum of Voting Members was in attendance.

The minutes from the St. Louis Missouri ASHRAE TC- 5.7 meeting were read and approved by a unanimous vote of the voting members.

ATTENDANCE:

Andy Cochrane	Chair, Voting Member (VM)
Mike Scofield	Secretary, VM
Ben Beall	Visitor (V)
Jon Rickert	V
Tom Colvin	Corresponding Member (CM)
Andy Beall	V
William Truong	VM
Nathanael Wheeler	V
Carl Batchelor	V
John Aykroid	V
Manfred Gerber	V
Claude Dumas	V
Rudy Chou	V
Eric Kozubal	CM
Peter Luttk	CM
Ed Trudeau	V
Jason Woods	V
Steve Clark	V
Steve Slayzak	Program Chair, VM
G. D. Mathur	Handbook Chair, CM
Galen Gerig	V
Sukru Erisgen	VM
Richie Mittal	VM
Harris Sheiman	Handbook Liaison
David John	TC Research liaison
Ken Peet	TAC Liaison

TC SECTION 5 BREAKFAST MEETING NOTES:

Andy Cochrane reported on the TC Section 5 breakfast meeting as follows:

There was a TC 5 Chair's breakfast on Sunday morning at 6:30 AM to cover the following items.

1. ASHRAE members now have free access to ASHRAE's Science and Technology for the Built Environment (STBE) formally known as HVAC&R Research (1995-2014) through their existing ASHRAE.org account.
2. New Technology portal is now available.
3. A new restructured **TC Manual of Procedures (MOP)** will be issued after the Las Vegas Conference
4. Detailed instructions on how to import your TC roster information into MS-Outlook has been created and an email announcement will be issued to all TC Chairs, Vice Chairs and Secretaries soon.
5. CEC's Standing Request for future Society Meeting Program Track Suggestions. Submit track suggestions to ASHRAE Staff member Tony Giometti (Giometti@ashrae.org)
6. If anyone is interested in being a Technical Session Chair or Reviewer of session papers related to this TC's scope, I will submit a list of names. There is also a link on the ASHRAE Website to volunteer to be a paper reviewer.
7. There is now a TAC Presentation Template for TC members to use with their local ASHRAE Chapters.
8. Professional Development Committee (PDC) is seeking ideas for new ASHRAE Learning Institute courses.

HANDBOOK COMMITTEE: G. D. Mathur Chair

Both G.D. and Mr Harris Sheinman, Handbook Liaison discussed the 2019 Handbook that will have electronic access to weather tables. June of 2018 is the deadline for the Chapter 52 review and for additions and corrections to the 2019 Handbook. Also G.D. Mathur mentioned that it is not too early to start reviewing Chapter 41 in the 2020 Handbook.

RESEARCH COMMITTEE: Mark Miller Chair was not in attendance.

David John, Liaison for Research, said there is a new RTAR format and that cover letters are important to acceptance. Also the Work Statement for the RTAR must be more detailed in order to obtain bids for research work.

Andy mentioned that our committee has an RTAR under consideration for an ASHRAE Evaporative Cooling Design Guide. The work statement should outline areas that would be most helpful to the Design Consultant in the layout and specification of Indirect/Direct evaporative cooling systems. Energy savings, IAQ, water savings and humidification should all be addressed.

Andy also mentioned that our TC-5.7 committee has an evaporative cooling with sea water RTAR under consideration. This research should cover not only Cooling Towers and Evaporative Cooled Condensing systems but also adiabatic Direct Evaporative Cooling systems

such as the wetted media type and the high pressure atomization type of Cooling/Humidification systems.

PROGRAM COMMITTEE: Steve Slayzak Chair

Steve discussed the Sunday, January 29 Seminar 1 which TC-5.7 cosponsored with TC-5.11 Humidification. The program was entitled **Updating Scientific Evidence about the Effects of Low Humidity on People** and was well received by an audience estimated to number in the range of 200 people. The excellent panel included Melanie Derby PhD from Kansas State University, Dr. Stephanie Taylor MD, and Pawel Wargocki from the Technical University of Denmark.

Steve also discussed a seminar for Long Beach California next June to be entitled **Water, Water Everywhere but Not a Drop to Cool.**

Steve suggested a Seminar for Long Beach which would carry on the theme of the Importance on Indoor Humidity Control in Winter. Perhaps a seminar discussing the various types of Humidification systems available for HVAC Design of Air handling Units along with Control Strategies to minimize energy costs for humidification. Perhaps more scientific research on maintaining room RH between 40 to 60 % would be useful to the Design Consultant.

WEBSITE COMMITTEE: Annette Dwyer Chair was not in attendance.

Andy reported that Annette has updated our TC-5.7 website.

MEMBERSHIP COMMITTEE: Mike Scofield Chair

Andy reported that the voting members would remain the same for the Long Beach summer meeting next June. Mike reported that, due to travel plans, he would not be able to attend the ASHRAE summer meeting in Long Beach next June.

SSPC 90.1: Leon Shapiro Chair was not in attendance.

STANDARDS 143, 133, AND 212 COMMITTEE: Mark Modera Chair was not in attendance.

After a call for any New Business by Andy, the meeting was adjourned at 6:00 PM

Respectfully Submitted:

C. Mike Scofield
TC-5.7 Secretary