

DRAFT MINUTES
ASHRAE TC 5.7 EVAPORATIVE COOLING
MONDAY, JANUARY 26, 2015, 4:15 PM
PALMER HOUSE HILTON HOTEL– LASELLE 2– CHICAGO, IL

1. PRELIMINARIES: NICK DESCHAMPS, CHAIR:

Nick DesChamps called the meeting to order at 4:15 PM with self-introductions. The following were in attendance:

Mike Scofield – CMSI (Voting Member)
Vijayanand Periannan – CMSI (Voting member)
James Martin – Munters (Corresponding member)
Tony Costa – Costa Engineers (Corresponding member)
Ken Wood – Carel USA (Visitor)
Daryl Stauffer– Carel USA (Visitor)
Michael McDonald – Chem-Aqua Inc (Visitor)
Leon Shapiro – Evoqua (Voting member)
Steve Slayzak – Coolerado (Corresponding member)
Andy Cochrane – Industrial Air (Voting member)
Annette Dwyer – Munters (Corresponding member)
Michael Sherber-PPL Savage Alert (Voting member)
Nick Des Champs – EForay LLC (Voting member)
Sukru Erisgen – Dristeem (Corresponding member)
G.D. Mathur – Calsonic (Voting member)
Jay Madden – SCE (Visitor)
Melanie Derby – KSU (Visitor)
Peter Vanderweiler – 7ACTech (Visitor)
Ryan Johnston – Dialmfg (Visitor)
Hofu Wu – CPP (Visitor)
Dan Weimar – Chem-Aqua Inc (Visitor)

The minutes of the SEATTLE 2014 ASHRAE Annual meeting were approved as submitted. The vote was 8 in favor, 0 opposed.

Nick updated everyone on the CEC meeting.

- Nick informed the members that T.C.5.7 won the most outstanding Technical Committee Award.
- Nick mentioned that there is a new program in works where a TC can host seminar presentations during the meeting. The presentation can be advertised in the TC website and also will be published in the ASHRAE meeting book. This program will give a second chance for presentation a seminar paper after it has been rejected by CEC.

2. HANDBOOK: G.D. MATHUR, CHAIR

G. D. Mathur discussed Chapter 41 of the 2016 HVAC Systems and Equipment Handbook. Chapter 41 is complete for submission. G.D. Mathur requested members to review and provide feedback on the chapter before submission.

3. PROGRAMS: LEON SHAPIRO, CHAIR:

Leon discussed the differences between a Seminar and a Conference Paper Session. Seminars are less likely to get accepted, with around a 50% acceptance rate. CEC is pushing for more Conference Paper Sessions.

Leon reiterated the need to circulate abstracts to members for review before submission.

Leon indicated that Chicago 2015 tracks were more suitable for Evaporative Cooling than Atlanta 2015 tracks. Relevance to the track is very critical in a program getting selected.

Leon will send the Tracks for the next 3 conferences to the TC members.

Leon asked members to send ideas on Tracks that might be a good fit for Evaporative cooling technology.

Leon will be the Tech Chair for Las Vegas ASHRAE 2017 Winter conference. One of the tracks will be "Energy and Water Nexus" which may suit well for conference papers/seminars from T.C.5.7.

ATLANTA ANNUAL CONFERENCE 2015

Members discussed putting together a conference paper session. Conference Paper Abstracts for the Atlanta 2015 ASHRAE Annual Meeting need to be submitted by September 22, 2014.

T.C.5.7 conference paper program for Atlanta 2015 will be under the Track – **SYSTEMS AND EQUIPMENT**.

The presenters at the Atlanta 2015 conference paper will be

Mike Scofield/Vijay Periannan – **A VAV System Heat Recovery Economizer to Furnish Free Humidification and Exceed Standard 62.1 Ventilation Requirements in Winter.**

4. RESEARCH: ANDY COCHRANE, CHAIR:

Andy updated the members on the Research Sub-Committee Chair's Breakfast

- Currently there are 59 active research projects

- There are no projects "on hold" due to funding at this time
- TC5.7 will attempt to resubmit "Reduction of Energy Consumption in Low-rise Residential Space Conditioning by Retrofitting Evaporative Condenser"
- Our Section 5 research liaison has just been replaced.
- Our next deadline to submit RTARs is March 15th

The Process	Ownership
Research topic selection	TC
RTAR Development	TC
RTAR Evaluations	RAC
WS (Work Statement) Development	TC
WS Evaluations	RAC
Proposal Evaluations	PES

When the research gets further along, we can check status through the Project Monitoring Sub-Committee.

Following RTARs were discussed

- RTAR in Salt Water Usage for Evaporative Cooling was suggested. Munters will be a potential sponsor for the testing. Nick DesChamps and Mike Scofield will work on this RTAR
- Mike Scofield suggested a possible RTAR to confirm the relationship between room RH above 40 % and below 60 % and the infection rate from flu airborne virus in winter. A "before and after" test of a cold climate Office Building or Classroom that would establish the correlation between room RH and airborne infection rates in winter.
- Tony Costa proposed an RTAR for a method of rating Direct Evaporative Coolers.

5. STANDARDS: PAT GRAEF CHAIR:

Pat Graef informed members that the altitude correction for the Direct Evaporative Cooling performance was not accurate and will be corrected.

6. MEMBERSHIP:

Annette confirmed that the Roster and Agenda were updated at the website.

Nick updated the roster.

- Vijayanand Periannan will step down as a Voting Member. Annette Dwyer will fill that position as a Voting Member.
- Leon Shapiro will step down as the Program Chair. Steven Slayzak will be the new Program Chair for T.C.5.7.

Nick indicated that individuals interested in becoming new members should register through

the ASHRAE website.

7. SSPC 90.1 Liaison: Leon Shapiro, SSPC 90.4 Liaison: Nick Des Champs

OLD BUSINESS: NONE

NEW BUSINESS:

Nick DesChamps discussed about having subcommittee meetings through a webinar and avoid the need for another room.

Nick suggested an “Applications Handbook” to educate everyone about the various methods of applying evaporative cooling including Indirect and direct Evaporative cooling. TC 5.7 will be contacting ASHRAE publications to get some directions on this.

Nick DesChamps adjourned the meeting at 6.00 PM.