

**DRAFT MINUTES**  
ASHRAE TC 5.7 EVAPORATIVE COOLING  
MONDAY, JUNE 30, 2014, 4:15 PM  
SHERATON SEATTLE HOTEL– ROOM 620, WSSC – SEATTLE, WA

**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 – CMS (Voting Member)  
Vijayanand Periannan – Munters (Voting member)  
Ken Wood – Carel USA (Visitor)  
Jason Woods – Carel USA (Visitor)  
Eric Kozubal – Carel USA (Corresponding member)  
Daryl Stauffer– Carel USA (Visitor)  
Sahil Popli – Univ. of Maryland, CP (Visitor)  
William Truong – Nortec Humidity (Visitor)  
Michael McDonald – Chem-Aqua Inc (Visitor)  
Leon Shapiro – Green Building Group (Voting member)  
Steve Slayzak – Coolerado (Visitor)  
Andy Cochrane – Industrial Air (Voting member)  
Annette Dwyer – Munters (Corresponding member)  
Michael Sherber-7AC Technologies (Voting member)  
Nick Des Champs – EForay LLC (Voting member)  
Jonathan Woolley – UC Davis (Visitor)  
Sherry Hu – PG&E (Visitor)  
David Baird – Dristeem Corp. (Visitor)  
Nicholas Lea – Nortec Humidity US (Corresponding member)  
Sukru Erisgen – Dristeem (Corresponding member)  
G.D. Mathur – Calsonic (Voting member)  
Mark Modera – UC Davis (Visitor)

The minutes of the NYC 2014 ASHRAE Winter meeting were approved as submitted. The vote was 6 in favor, 0 opposed.

**2. HANDBOOK: G.D. MATHUR, CHAIR**

G. D. Mathur discussed Chapter 52 of the 2015 HVAC Applications Handbook. Chapter 52 is complete for submission. G.D. Mathur indicated a few minor items needed to be addressed before submission.

Sheldon is the liaison for the Chapter 52 of the 2015 Handbook.

Annette will be liaison for the Chapter 41 of the 2016 Handbook. Deadline is April 2015.

### **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.

Conference Paper Sessions consist of 8 pages, a single blind review, 2 reviewers, 2 weeks to make changes, a document that can be sold at the conference bookstore or archived and sold later. Leon emphasized that we consider Conference Papers in the future for higher success rate of getting accepted.

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.

TCs can submit tracks for future conferences 2 years prior. Technical chair for CEC selects the tracks.

### **CHICAGO WINTER CONFERENCE 2015**

The abstracts for Chicago 2015 Winter seminars is **August 01**.

T.C.5.7 will partner with T.C.9.9 in submitting a seminar session.

T.C.5.7 seminar for Chicago 2015 will be under the Track – **LARGE BUILDINGS-MISSION CRITICAL FACILITIES AND APPLICATIONS**.

The presenters at the Chicago 2015 seminar will be

- Nick Deschamps – Fluid cooler technology for Data Centre cooling
- Keith Dunnavant- Indirect Evaporative cooling for Data Centre Cooling
- Mark Modera – Sub Wetbulb cooling test data
- Steve Slayzak - TBD

Leon also proposed a **workshop** on “Salt water use for Evaporative Coolers”.

### **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 – Air-to-Air winter heat recovery and humidification

G.D. Mathur - TBD

Nick Deschamps - Fluid cooler technology for Data Centre cooling

#### **4. RESEARCH: ANDY COCHRIN, CHAIR:**

Andy mentioned there are 63 active RTARs. \$10 million funding is readily available for RTARs.

Next deadline for RTAR is August 15, 2014.

Andy mentioned that RTARs should align with **ASHRAE 2010-2015 Research Strategic Plan**. More information can be found in the “Research” section of ASHRAE website.

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
- PG&E representative was in the audience and indicated they would like to develop a software model that simulates the Indirect/Direct evaporative cooling systems. Jonathan Woolley with WCEC will work with PG&E on an RTAR for this model development.

#### **5. STANDARDS: PAT GRAEF CHAIR:**

No Report

#### **6. MEMBERSHIP:**

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

Annette indicated the availability of all four(4) handbooks online for new members.

New glossary for Handbook is available.

Nick indicated that individuals interested in becoming new members should register through the ASHRAE website.

Nick checked the updated the voting member list.

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

**OLD BUSINESS:** NONE

### **NEW BUSINESS:**

Nick DesChamps proposed changing the name of the committee to make it more relevant to the TC activities and gain more public attention. Members discussed the misconception public has towards Evaporative cooling, often associating with the “Swamp” coolers.

Mike Scofield pointed out “R-718: Water Based Cooling Systems” as a possible name.

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.