

**DRAFT MINUTES**  
ASHRAE TC 5.7 EVAPORATIVE COOLING  
MONDAY, JANUARY 20, 2014, 4:15 PM  
SHERATON NEW YORK TIMES SQUARE– CONFERENCE ROOM C – NEW YORK, NY

**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 (Corresponding member)  
James Martin – Munters (Visitor)  
Tom Cook – IE Technologies (Visitor)  
Ken Peet – TAC Section Head (Visitor)  
Annette Dwyer – Munters (Corresponding member)  
Michael Sherber-7AC Technologies (Voting member)  
Andy Cochrane – Industrial Air (Voting member)  
Leon Shapiro – Green Building Group (Corresponding member)  
David Baird – Dristeem Corp. (Visitor)  
Nicholas Lea – Nortec Humidity US (Visitor)  
William Truong – Nortec Humidity (Visitor)  
Sukru Erisgen – Dristeem (Visitor)  
Samil Popli – Univ. of Maryland, CP (Corresponding member)  
Michael McDonald – Chem-Aqua Inc (Visitor)  
Andy Lowienstein – AILR (Visitor)  
Richard L. Rosner – NSEA (Corresponding member)  
Donald W. Kane – NSEA (Visitor)  
Abdullah Alabdulkarem – UMD (Visitor)  
Chris Li – PG&E (Visitor)  
Nick Des Champs – EForay LLC (Voting member)  
G.D. Mathur – Calsonic (Voting member)  
Peter Vandermeulen – 7AC Tech (Visitor)  
Mark Modera – UC Davis (Visitor)

The minutes of the Denver 2013 ASHRAE Annual meeting were approved as submitted. The vote was 4 in favor, 0 opposed.

From the Section 5 breakfast, Nick discussed the following items:

1. Volunteers from the TC's will be needed for the Multi-disciplinary Task Group (MTG).
2. Nick emphasized the need for members to update bio in the ASHRAE website.
3. G.D. Mathur received the George B. Hightower Technical Achievement Award.
4. Ken Peet from the TAC section was in attendance and discussed why section 5 was having trouble getting their programs approved.
5. T.C.5.7 was asked to complete an Activity Form to keep track of program, research and other technical activities.
6. Need for additional voting members for T.C.5.7 was discussed.

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

G. D. discussed Chapter 52 of the 2011 HVAC Applications Handbook. Chapter 52 is up for review this year, with comments due back by November and a final ASHRAE deadline of April 2014.

Sheldon will be 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 suggests we consider Papers in the future.

## **SEATTLE ANNUAL CONFERENCE 2014**

Leon discussed future seminars. Seminar Abstracts for the Seattle 2014 ASHRAE Annual Meeting need to be submitted by February 13, 2014.

Title of the Seminar sponsored by T.C.5.7 will be:

**INCREASE IAQ, DECREASE ENERGY CONSUMPTION WITH HEAT RECOVERY AND EVAPORATIVE COOLING**

T.C.5.7 seminar for Seattle 2014 will be under the Track - **INDOOR ENVIRONMENT-**

## **HEALTH, COMFORT & PRODUCTIVITY.**

The presenters at the Seattle 2014 seminar will be

Mike Scofield - A SEATTLE HEAT PIPE ECONOMIZER FOR IMPROVED IAQ

Elia Sterling - BUOYANCY AND VIABILITY OF PATHOGENS IN DRY AIR

Vijayanand Periannan - IMPROVING IAQ WITH RIGID MEDIA DIRECT EVAPORATIVE COOLING SYSTEMS WHILE REDUCING ENERGY CONSUMPTION.

## **CHICAGO WINTER CONFERENCE 2015**

The abstracts for Chicago 2015 Winter conference paper is March 24.

Leon emphasized the need to circulate the abstracts within the committee members before submission to get better feedback and improve the probability of getting approved.

Other ideas for future seminars were: "Data Center heat rejection with Evaporative Cooling" and "Salt water use for Evaporative Coolers".

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

Nick appointed Andy Cochran as the new chair for Research.

- Humidification benefits from direct evaporative cooling was discussed. Mike Scofield suggested RTAR on buoyancy of pathogens in low Relative Humidity in space. "T.C.4.10 : Indoor Air Quality Modeling" possibly interested in co-sponsoring.
- "T.C.5.11: Humidifying Equipment" is working on an RTAR for establishing a lower limit for humidity levels in the standard.
- RTAR in Salt Water Usage for Evaporative Cooling was suggested. Munters will be a potential sponsor for the testing.

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

### **Discussion on T.C.9.6 standard**

Mike Scofield brought to everyone's attention the new T.C. 9.6 standard that bars the use of Direct Evaporative Coolers in Healthcare facilities.

T.C.5.7 to appeal and ask for justification for the language in the new standard.

Mike Scofield volunteered to contact T.C.9.6 on this issue.

**Standard 188**

New ASHRAE “Standard 188 : Prevention of Legionellosis Associated with Building Water Systems” was discussed.

**6. MEMBERSHIP:**

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

Annette will setup a new Dropbox for the members to review the upcoming ASHRAE Handbook chapter.

Nick indicated the need for additional voting members for T.C.5.7

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

**OLD BUSINESS:** NONE

**NEW BUSINESS:**

Nick DesChamps asked for volunteers for the Multi-Disciplinary Task Group (MTG)

Nick emphasized the need to update the member bio in the ASHRAE website.

Nick DesChamps adjourned the meeting at 6.00 PM.