

**AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR-CONDITIONING  
ENGINEERS, INC.  
1791 Tullie Circle, N.E./Atlanta, GA 30329  
404-636-8400**

**TC/TG/MTG/TRG MINUTES COVER SHEET**

(Minutes of all Meetings are to be distributed to all persons listed below within 60 days following the meeting.)

TC/TG/MTG/TRG No. 5.5 DATE 6/28/2016

TC/TG/MTG/TRG TITLE Air to Air Energy Recovery  
DATE OF MEETING 6/28/2016 LOCATION St. Louis, Missouri

MEMBERS PRESENT	YEAR APPTD	MEMBERS PRESENT	YEAR APPTD	MEMBERS ABSENT
Paul L Pieper, Eng, PE VM Chair	2014	X	2014	Peter K Grinbergs VM Non Quorum
Matthew Friedlander VM Vice Chair	2013	X	2012	Bede Wellford VM Non Quorum
Dr. Gursaran D Mathur, PE Dr. Prakash R Dhamshala VM Handbook Co-Chairs	2014	X	2014	Helen Davis VM Secretary
Mr Ronnie R Moffitt, PE NV Program Chair	2013	X		
John T Dieckmann NV Research Chair	2014	X		
Xuan Le VM Webmaster	2015	X		
Drake Erbe, VM	2012	X		
Tom Rice VM	2014	X		

**DISTRIBUTION**

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

TAC Section Head:	Mr Kenneth C Peet kcpeet1@gmail.com
TAC Chair:	Dr Thomas M Lawrence lawrence@engr.uga.edu
All Committee Liaisons As Shown On TC/TG/MTG/TRG Rosters:	Cameron R Labunski PE, cameronl@tgce.com James A Arnold, PE, jim@haslettmechanical.com Patrick C Marks, PE patrick.c.marks@jci.com David A John, PE, davidjohntarpon@gmail.com Dr Arsen K Melikov, PhD, akm@byg.dtu.dk Mr Michael R Vaughn MORTS@ashrae.net
Manager Of Standards Manager Of Research & Technical Services	Stephanie Reiniche Mike Vaughn
TC 5.5 Membership	<a href="mailto:TC0505@ashrae.net">TC0505@ashrae.net</a>

Paul Pieper called the meeting to order at 3:36 pm

Introductions

(5) YEA in attendance

6/7 members in attendance

Approve Orlando minutes

Marc moves (HPT)

GD seconds

Votes 5/0/0 (Chair not voting)

### **Paul – Chair report**

MTG

- ISTG
- OBB
- ARC (proposed not active)

Website is updated

Alias has been created for Chair/Secretary so there is an ASHRAE e-mail

Basecamp is available for projects for collaboration (Research, ASHRAE 84 for ie)

Peer review of papers/seminars are open for Vegas

PDC looking for ASHRAE Learning courses

Employee letters thanking for participation

### **GD/Pricash – Handbook Report**

- Chapter is completed
- Start reviewing for Las Vegas

### **John – Research**

- DOAS design guide
  - o Contractor meeting in June
  - o All major chapters are drafted
  - o Peer review and looking to provide to ASHRAE in December
  - o Likely after January meeting before publish, but expected before June
  - o Call for peer reviewers of the draft
- RTAR 1799
  - o Scalability of test results study
  - o Conditionally approved by RAC
  - o Expecting conditions any day
  - o Looking for co-funding (samples of components)
  - o Volunteers? Matthew, Mikelann and Marc (Innergytech)
- TRP - Improved submodels of energy heat exchanges for energy models
  - o Meeting with TC 4.7 inclined to be cooperative, but hasn't set to cosponsor
- RTAR 1780 – Roland is creation
  - o TC 9.10 Regarding contamination air transfer
  - o 3 members of the TC – Tom, Marc and Matt

- Matt, Tom, Alefecto

### **Section head**

- Asked about having a seminar/forum and turned in August 8
- If disapproved within 2 weeks – you can have seminar during TC time period
- Space allocation and time is lacking compared to the submissions volume versus those accepted
- TC seminar procedures are being developed to where CEC can be included and all seminar benefits

### **Ronnie – Programs**

1 – Dilution is the solution ERV vs IAQP

2 – Cutting edge technologies (Membranes) – well attended ~100 people

- Conference paper for evap cooling in Vegas

### **Las Vegas**

- Commercial/Industrial track – looking for submissions
  - Paint booths, Lab, Pharma (Tom Rice)
  - Going Big – Scalability (Ronnie Moffit)
  - Adam chair
- Piscapo motions to co-sponsor 8.12
- Marcus seconds
- Energy Recovery Dehumidification in surgery suites
- Approved – 5/0/0 chair doesn't vote

### **Longbeach**

- Residential energy recovery (possible Paper/seminar) – Paper due August 29
  - Marc charing
  - Matthew maybe find or dPoint
- Frosting limits on cross flow heat exchangers

### **Website**

- Xuan Le has it updated
- He is not available
- Wants to roll off

### **Membership**

- 7 voting members
- Kept smaller numbers to maintain quorum
- Looking for additional voting members (email Paul or give business card)
- Next roster update for June 2016

### **Liason Reports**

- No ALI at summer
- Spring ALI was well received
- Controls aspect plans for future ALI

### **90.1**

- Focused on closing out 2016 edition

- Addendum P in 62.1 occupied standby 6.2.7.1.2
- European and US standards are getting closer intertwined
- Addendum DN was not included in 2016
  - if you have series energy recovery, you don't need heat recovery
  - missing definitions
  - Focus was heating energy recovery originally
  - look to put together a working group to draft definitions of series heat exchangers
    - volunteers for 90.1 working group (Marcus, Ronnie, Mark, Tom, Alaih)
- TC 5.5 voiced willingness to help however we can
- Drake advised that all ERUs in buildings shows that all have significant building energy savings

### **62.1**

- Matt Friedlander moves Tom to be Liason
- GD seconds
- 4/0/0 secretary abstains chair no votes

### **SPC 84**

- Constituted to work on next update
  - o Update to Mandatory standards language
  - o Develop test for alternating mass exchangers
- Aiming for 2018 publication

### **CONTINUATION OF EXISTING BUSINESS**

- Alliance to save energy initiative
- Delivered May 2016
- Drake and Dick are chairing
  - o COVERS:
    - Guideline V
    - Energy Recovery
    - Hybrid Systems
- "Greater than the sum of its parts"
- [www.ase.org](http://www.ase.org)
- Summary report (20 pages of findings)
- 100 page report of all efforts
- ERU/Economizer is a focus
- 20 slides Drake could present next meeting
- Raises awareness of systems and subsystems to account for additional savings

Adjourned at 5:26