

**ASHRAE MTG - ACR  
Winter Web Meeting  
Monday, April 16<sup>th</sup>, 2018  
Meeting Minutes**

**AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR-CONDITIONING  
ENGINEERS, INC.  
1791 TULLIE CIRCLE, N.E./ATLANTA, GA 30329  
404-636-8400**

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

TC/TG/TRG No	MTG -ACR	DATE	April 16 <sup>th</sup> , 2018
TC/TG/TRG TITLE	Multidisciplinary task group on air changes rates		
DATE OF MEETING	April 16 <sup>th</sup> , 2018	LOCATION	Web Meeting

<b>Members Present</b>		<b>Members Absent</b>		<b>Additional attendance</b>
Kishor Khankari	Chair	Michael Baucom	TC-9.2	Cliff Cooper
Roland Charneux	Vice-	Gaylon Richardson	TC-2.2	Travis English
Bob Burkhead	TC-2.4	Gordon Sharp	I2SL	Joe Zulovich
Phil Naughton	TC-9.11	Thomas Smith	AIHA	Michael Corbat
Roger Lautz	TC-9.6	Michael Locke	SSPC 170	Mr. Amber
Jim Coogan	TC-9.10			
Ken Mead	NIOSH			
Henry Hays	TC-2.2			

**DISTRIBUTION**

<b>All Members of TC/TG/TRG plus the following:</b>	
TAC Section Head	
TAC Chair	
All Committee Liaisons As Shown On TC/TG/TRG Rosters	
Standards liaison : Manager of Research & Technical Services	
Research liaison	

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**1. Call to order 14:00 (East) and Introduction**

Kishor Khankari called the meeting to order and established a quorum with 8 voting members on 12 voting members.

Kishor reminds every attendee to adhere to the ASHRAE code of ethics.

**2. Approval of the Agenda**

The agenda is approved.

**3. Approval of Minutes**

A motion to approve the January 4<sup>th</sup>, 2018 minutes, proposed by Ken Mead, seconded by Michael Meteyer (8-0-0-CNV) with a correction: Ken Mead was present on January 4<sup>th</sup>, 2018 meeting.

**4. Change in the roster**

The roster has been updated.

**5. Work Statement**

WS 1833-Literature Review for Evidence of the Basis for Specified Air Change Rates (ACR) for Cleanrooms, Laboratory animal facilities, and health care facilities with medium to high ACR. Submitted to RAC for approval.

**6. ASHRAE Annual Meeting Houston Program**

- 6.1. Forum on Generation rate is not accepted – Resubmit for Winter meeting.
- 6.2. Seminar 13: High CO<sub>2</sub> and Other Contaminant Levels in Schools.
- 6.3. Workshop 7: Achieving Acceptability and Minimizing Adverse Health Effects through Ventilation: What You Thought You Knew.
- 6.4. Seminar 34: Industrial HVCA 101: Erich Binder.
- 6.5. Conference Paper Session 14: Analysis of Spread Index: A Measure of Laboratory Ventilation Effectiveness-Khankari.

**7. Winter Meeting Forum Update on Ventilation Effectiveness**

The List of collected comments is reviewed.

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## **8. Generation Rates Update**

- ✓ Sterile compounding.
- ✓ Why no ISO certification for O.R.
- ✓ Kishor article in ASHRAE Journal (O.R.).
- ✓ Clean air in the center of the room.

## **9. New Research Projects Topics**

### 9.1. General ideas

- ✓ Approximate test for effectiveness (Ball Park);
- ✓ Continuous filter efficiency test;
- ✓ Transient vs steady state;
- ✓ Point source contamination;
- ✓ Distributed contamination;
- ✓ Thermally induced contamination;
- ✓ Generation rate in O.R.
- ✓ Drug contamination;
- ✓ Compounding safety could be applied elsewhere;
- ✓ Epidemiology space;
- ✓ In-situ performance standard for rooms;
- ✓ Sterile zone around the O.R. table;
- ✓ Analogy with ISO-14698 on Bio-contamination to assess contamination risks;
- ✓ Labs contaminants emission.

### 9.2. Follow-up with TC

- ✓ RC/JC/HH/JZ will follow-up with TC-9.10;
- ✓ RL/KM/Kevin/MM will follow-up with TC-9.06;
- ✓ PN/WS will follow-up with TC-9.11

### 9.3. Develop research topics.

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**10. Next Meeting**

The next meeting will be in July.

**11. Meeting adjourn at 16h00.**