

**ASHRAE MTG - ACR
Winter Web Meeting
Wednesday, January 4th 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	January 4 th , 2018
TC/TG/TRG TITLE	Multidisciplinary task group on air changes rates		
DATE OF MEETING	January 4th, 2018	LOCATION	Web Meeting

Members Present		Members Absent		Additional attendance	
Kishor Khankari	Chair	Bob Burkhead	TC-2.4	Cliff Cooper	
Roland Charneux	Vice-	Michael Baucom	TC-9.2	Travis English	
Joe Zulovich	TC-2.2	Phil Naughton	TC-9.11		
Gaylon Richardson	TC-5.3	Abdel Khader Darwich	SSPC-62.1		
Roger Lautz	TC-9.6				
Jim Coogan	TC-9.10				
Gordon Sharp	I2SL				
James Bennet	NIOSH				
Kevin Scarlett	SSPC-170				
Thomas Smith	AIHA				
Steve Taylor	TC-4.3				
Erich Binder	TC-5.8				

DISTRIBUTION

<i>All Members of TC/TG/TRG plus the following:</i>	
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 15:00 (East) and Introduction

Kishor Khankari called the meeting to order and established a quorum with 11 voting members on 16 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 August 23rd, 2017 minutes, proposed by Roger Lautz, seconded by Jim Coogan (10-0-0-CNV).

4. Work statement on literature review

4.1. Erich Binder mentioned that a document ATI-505 exists on natural ventilation for oil and gas industry.

4.2. Jim Coogan explained what do we expect from that research. Different organizations should be contacted, not only reading. No physical research involved.

4.3. Comments should come back for January 18th.

4.4. Submit comments before Chicago to committee and to Phil Naughton.

5. Contamination generation rates

5.1. Airborne contaminants and threshold limits exists in ASHRAE documents, NIOSH, etc.

5.2. ASHRAE 110 simulate contamination release rate.

5.3. Real generation rates release in labs are not really known.

5.4. Travis will prepare a document.

5.5. Tom Smith has a spreadsheet with different chemicals.

5.6. Tom will do a presentation at next meeting on an emission model.

6. Forum 1 in Chicago on ventilation effectiveness

6.1. Sunday January 21st, at 8h00, Travis, Roland and Joe Zulovich will be present.

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6.2. Chaired by Kishor.

7. Seminar 4 in Chicago

Seminar 4 in Chicago on labs modeling and testing Sunday January 21st at 9h45.

8. Ventilation effectiveness

In addition to Kishor's list: How do you know that your ventilation is right.

9. New Assignment

9.1. Suggestion of program for Houston

Joe Zulovich, "impact of different ACR on energy efficiency", find 2-3 presenters.

Kishor: Forum on "Contaminants generation rates".

9.2. An RTAR on "Ventilation effectiveness airflow pattern versus ACR".

9.3. Define better design rules instead of doing CFD every time. Develop high level guidance.

9.4. Gaylon comments:

Manufactures have tested their diffuser.

Real world can destroy airflow.

9.5. Kishor: How to enhance ventilation effectiveness?

9.6. Cliff: Impact of load conditions, isothermal vs lower or higher supply temperatures.

9.7. Cliff will prepare a presentation for Houston "Contaminants removal efficiency vs ventilation efficiency".

10. PowerPoint presentation on public technology

Tom Smith presented a Power Point on laboratory ventilation effectiveness.

11. New Business

No report.

12. Meeting adjourn at 17h00.