

ASHRAE Technical Committee 4.3: Ventilation Requirements & Infiltration

2019 Annual Meeting

DRAFT AGENDA

Monday January 14, 2018, 4:15 pm-6:30 pm

A301 (3), GWCC, Bldg A

1. COMMITTEE AND MEETING INFORMATION

Subcommittee Meetings:

Research: During Main Meeting

Program: During Main Meeting

Handbook: During Main Meeting

Scope: TC 4.3 is concerned with ventilation requirements and the analysis of infiltration, airflow around buildings, and exhaust re-entry, including their integration with indoor air quality and energy calculations for building and HVAC system design and operation.

TC Web Site: <https://tc0403.ashraetcs.org/>

2. CALL TO ORDER + ATTENDANCE

Voting Members					
	Name	Position	Company	Roll Off (June 30)	Present?
1	Martin Stangl	Chair	RWDI	2020	
2	Nathan Ho	Vice-chair	P2S Engineering	2020	
3	Jordan Clark	Secretary	Ohio State University	2021	
4	Steve Taylor	Research	Taylor Engineering	2021	
5	Ed Light	Member	Building Dynamics	2019	
6	Mini Malhotra	Program/Membership	Oak Ridge National Lab	2019	
7	Brian Rock	Handbook	University of Kansas	2022	
Non-Voting Officers					
	Steven Emmerich	Standards	NIST	-	
	Steve Duda	Honors	Ross & Baruzzini, Inc.	-	
	Xia Fang	Webmaster	McKinstry	-	

Quorum > 1/2 all VM, excluding NQM; super majority >= 2/3 VM present; simple majority > 1/2 VM present

3. APPROVE AGENDA

4. APPROVE MINUTES FROM PREVIOUS MEETING

5. ANNOUNCEMENTS (TC CHAIR)

- a. Commitment to the ASHRAE Code of Ethics – (TC Chair): In this and all other ASHRAE meetings, we will act with honesty, fairness, courtesy, competence, integrity and respect for others, and we shall avoid all real or perceived conflicts of interests. (See full Code of Ethics: <https://www.ashrae.org/about-ashrae/ashrae-code-of-ethics.>)”
- b. You can acquire a FREE badge at the ASHRAE Registration. This free badge will not gain access to the conference programs, but is a great way for people to identify themselves and improve their networking

6. LIAISON REPORTS

- a. Technical Activities Committee (TAC) (Dennis Wessel)
- b. Research (RAC) (Mike Pouchak)

- c. Standards ()
- d. Conferences and Expositions Committee (CEC)
- e. Handbook Committee (Harris Sheinman)
- f. Professional Development Committee (PDC) – (Donald Brandt)
- g. Special Publications (Francis Mills)
- h. Environmental Health Committee (Josephine Lau)

7. SUBCOMMITTEE REPORTS

a. Research (Steve Taylor)

- 1) Research Subcommittee Meeting Chair Report
- 2) Active Research Project Status

Name	Project	PMS	Status
RP-1747	Implementation of CO2-based Demand Controlled Ventilation for Multiple Zone HVAC Systems in Direct Digital Control Systems	Dennis Stanke (chair), John Murphy Raj Daswani Heejin Cho	
RP-1819	CO2 Demand Controlled Ventilation in Multiple Zone VAV Systems with Multiple Recirculation Paths	Steve Taylor /Josephine Lau	
WS-1823	Improved Exhaust-to-Intake Dilution (Concentration) Calculations	Steve Taylor Iain Walker Brian Rock	

- 3) Pending Research Project Status

Name	Project	Champion	Status
Work Statement (WS)			
WS-1730	Pressure Coefficients and Pressure Drop for Standard Venting Strategies and Components in Residential Attic Spaces	TC 4.4 Anthony Fontanini	
WS-1835	Characterizing the Performance of Entrained Flow Stack	TC9.10 Brad Cochrane	
Unsolicited Research Proposal (URP)			
URP-1853	Building on an Existing Residential Ventilation Project: Brushless Permanent Magnet (BPM) Motor Change-Outs, Pollutant Emissions Characterizations, and Testing Multi-zone Ventilation System effectiveness	TC4.3 Steve Taylor	
Research Topic Acceptance Request (RTAR)			
RTAR-1877	Outdoor ozone in naturally ventilated buildings	TC4.3 Jordan Clark	
RTAR-1878	Outdoor particulate matter penetration and indoor PM removal rates in naturally ventilated commercial buildings	TC4.3 Jordan Clark	
RTAR-	Low-cost indoor pollutant sensor performance metrics for data-driven control of ventilation in smart buildings	Jordan Clarke	
Multidisciplinary Task Group (MTG)			

Name	Project	Champion	Status
MTG	Idea of MTG around VOCs and VOC mixtures and what constitutes air quality.	Ed Light	
New Ideas			
New	Infiltration vs. Pressurization impact with ERVs	Lau will try to find masters student	
New	Cost effectiveness of sealing between floors in multistory buildings to reduce stack effect, requirements to reduce multi-family internal partition leakage	Marianne Tushi, Gren Yuill, from University of Toronto	
New	Cost effectiveness of code		
New	Electric Vehicle effects on outdoor air	Steve Taylor	
New	Understanding formaldehyde generation rates	Nathan Ho	
On Hold or Inactive			
Hold	Is CO2 a pollutant or an indicator?	Steve Taylor	

- 4) Regular deadlines: March 1 (for spring RAC meeting), May 15 (for June meeting), August 15 (for fall RAC meeting), December 15 (for January meeting)

b. Program (Mini Malhotra)

- 1) Evaluation of Houston Program
- 2) Atlanta Program
 - Seminar 19 - Not Too Little, Not Too Much, Just Right: Standard 62.1 Demand Controlled Ventilation and RP-1747 (Sunday, January 13, 2019: 1:30 PM-3:00 PM). Steve Taylor
- 3) Kansas City
 - Deadline for conference paper abstracts, technical papers, and paper session requests is **August 21, 2019**.
 - Tracks
- 4) New program ideas

City	Title	Type	Chair/Speakers
??	Controlling Pollutant Sources in Residential Buildings	Seminar 62.2 Co Sponsor	Steve Emmerich
??	Where has my air been?	Seminar	John C, Martin/Ron/?
??	62.2 update	Seminar	Iain Walker
??	Assessment of VOC mixtures	Workshop	Ed Light (with MTG)

c. Handbook (Brian Rock)

- 1) Chapter status

Volume	Chapter	Lead	Status
2019 Applications	Chapter 45 Building Air Intake and Exhaust Design	Jason Urso	
2021 Fundamentals	Chapter 16 Ventilation and Infiltration	Jordan Clark	

Volume	Chapter	Lead	Status
2021 Fundamentals	Chapter 24 Airflow Around Buildings	Ted Stathopoulos	

- 2) Access files, for revision, via <https://authoring.ashrae.org/> (Internet Explorer use req'd)
- 3) **Chapter reviews:** If you have colleagues who are practicing in or otherwise interested in any of our topics, please ask them to review our as-published chapters. They can submit their reviews via http://xp20.ashrae.org/secure/handbook/chapter_review/
- 4) The website for our revisers is <https://www.ashrae.org/technical-resources/ashrae-handbook/ashrae-handbook-central>

d. Standards (Steve Emmerich)

- 1) TC 4.3 Cognizant
 - 62.1 Ventilation for Acceptable Indoor Air Quality (Nathan Ho)
 - 62.2 Ventilation for Acceptable IAQ in Low-Rise Residential Buildings (Iain Walker)
- 2) Others Standards of Interest
 - 90.1 (Steve Emmerich)
 - 170-2013: TC 9.6: Ventilation of Healthcare Facilities (Rick Hermans/ Jordan Clark)

e. Honors (Steve Duda)

f. Webmaster (Xia Fang)

g. Membership (Mini Malhotra)

8. NEW BUSINESS

- a. MTG.OBD (occupant behaviors) (Mini Malhotra)
- b. Future Meetings
 - 1) June 22-26, 2019 – Kansas City, MO
 - 2) February 1-5, 2020 – Orlando, FL
 - 3) June 27-July 1, 2020 – Austin, TX

9. ADJOURN

- a. Time: