**Minutes**

**TC 5.3 Room Air Distribution**

**2021 Summer Meeting Agenda**

**9:00-11:30 AM CST, Wednesday June 23, 2021**

**Virtual Meeting**

1. Call to Order/Welcome C. Peters
2. Introductions/Attendance C. Peters
3. Verify Quorum J. Palma

|  |  |
| --- | --- |
| Member | Present? |
| Curtis Peters | x |
| Ryan Johnson | x |
| Bob Persechini | x |
| Arsen Melikov (NQ) |  |
| Brandon Bates | x |
| Fred Bauman |  |
| Gus Faris | x |
| Chris Lowell | x |
| Steve Purdie |  |
| Tom Rice  |   |
| Krishnan Viswanath | x  |
| Total | 7 |
| Quorum (Y/N) |  Y |

1. ASHRAE Code of Ethics Commitment C. Peters

*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*](https://na01.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.ashrae.org%2Fabout-ashrae%2Fashrae-code-of-ethics&data=02%7C01%7Crzimmerman%40titus-hvac.com%7C29a68366b3c54b28f31908d4a9c25ffc%7Ca1f1e2147ded45b681a19e8ae3459641%7C0%7C0%7C636320099683702358&sdata=GRBne1hrZ4LkZQzXH58OfhS9%2FJVLk6CYjqmIzon7HIE%3D&reserved=0)*.)*

1. Review of Agenda C. Peters
2. Announcements and Section 5 discussion C. Peters
	1. Kevin Marple (Section Head)
		1. Roster updates completed
		2. Activity form due asap
		3. Society/TAC
			1. Basecamp/Website – Guidance coming
				1. Basecamp – Internal communication within TC
				2. Website – Public announcements
			2. TAC
				1. Develop template for meeting agendas
				2. Basecamp site has leadership training videos (40+ hrs)
				3. asktac@ashrae.net – Intended for any member to ask questions of TAC (24 hour response time target)
				4. FG for TC Motions template
	2. Curtis
		1. TC re-orgs – ongoing as needed at the committee level
		2. Plan is for Vegas winter meeting to be face-to-face with hybrid option (subject to change)
		3. Website updated with awards from RP-1741
3. Membership Report J. Palma

|  |  |  |  |
| --- | --- | --- | --- |
| Member | Rolling Off? | Rolling On? | Roll Date |
| Ryan Johnson |   |   | 6/30/2024 |
| Krishnan Viswanath |   |   | 6/30/2024 |
| Gus Faris |  Roll Off |   | 6/30/2021 |
| Bob Persechini |   |   | 6/30/2023 |
| Brandon Bates |   |   | 6/30/2023 |
| Steven Purdie |  Roll Off |   | 6/30/2021 |
| Chris Lowell |   |   | 6/30/2022 |
| Curtis Peters |   |   | 6/30/2022 |
| Tom Rice  |  Roll Off |   | 6/30/2021 |
| Arsen Melikov (NQ) |  Roll Off |   | 6/30/2021 |
| Fred Bauman | Roll Off |   | 6/30/2021 |
| Frank Cuaderno |  | Roll On | 6/30/2021 |
| David Johnson |  | Roll On | 6/30/2021 |
| David John |  | Roll On | 6/30/2021 |
| TBD |  | Roll On | 6/30/2021 |

 J Palma – Need to request documentation from Fred on attendance archive

1. Research Subcommittee Report R. Johnson
2. RP-1819 - CO2 Demand Control Ventilation in Multiple Zone VAV Systems with Multiple Recirculation Paths
3. RTAR-1882 - Procedure for Estimating Occupied Space Sound Levels in the Application of UFAD Air Terminals and Air Outlets
4. New research:
	* ‘Definition’ of Ventilation Effectiveness - Duncan P / Shichao L
	* Role of air distribution on the efficacy of air cleaning strategies
		+ “How does the Room Airflow Pattern change efficacy of in-room UV? Does Ventilation Effectiveness directly correlate to efficacy of in-room UV?” - David John (Lead) / Ken L / Kishor K
	* 9.11 working on RTAR ventilation effectiveness in cleanrooms. May want to collaborate with TC 5.3.
	* Plan to schedule interim research subcommittee meeting. Must be ‘open’ meeting with 2-weeks notice.
5. Standards Subcommittee report R. Zimmerman
	1. Standard 70 MOT Diffusers (J. Palma)
		1. Met briefly due to technical issues. Setting up meeting next month to finalize draft for public review.
	2. Standard 79 MOT Fan Coils (B. Hagan)
		1. Byron not present for update
	3. Standard 113 MOT Room Air Diffusion (R. Johnson)
		1. Out for public review 6/18-8/2/21
	4. Standard 129 Air Change Effectiveness (D. John)
		1. Craig - SPC has been formed and is balanced. Mtg to be scheduled.
	5. Standard 130 MOT Terminal Units (R. Zimmerman)
	6. Standard 200 MOT Chilled Beams (M. Koupriyanov)

1. Handbook Subcommittee Report D. Johnson
	1. Never received 2021 Fundamentals draft but it was published
		1. Jose to research if it was published with changes
	2. Met for full day Monday
		1. Reviewed Applications chapter
		2. Must be complete by spring 2022
2. Programs Subcommittee Report B. Persechini
	1. No seminars
	2. Several ideas for Vegas
		1. Understanding Air Curtains and How they Can Effect Whole Building Energy Consumption
			1. Duncan – Air Curtain research completed that should be included.
			2. David confirmed this is part of the plan but discussion over ‘basics’ first then a second seminar on research.
		2. Chilled Beam and Sensible Cooling Options for Healthcare Environments
		3. Chilled Beam, Fan Coil and Sensible FPTU Applications for Commercial and Educational Facilities
		4. Standard 70 Update
		5. Textile Air Distribution Systems
		6. Review of Fan Coil Research Project 1741
		7. Reducing Risk of Transmission of the next Virus – Is all Air Distribution the same?
			1. Duncan – Displacement vs Mixing Ventilation seminar in this meeting (Seminar 41) that might align.
		8. Jose – Idea on seminar on all (3) standards being published (70, 113 & 130)
3. Webmaster Report C. Peters
4. Honors and Awards M. Hosni
5. Historian D. John
6. Liaison Reports C. Peters
	1. Standard 55 Thermal Comfort (M Koupriyanov)
		1. Equation updates
		2. Looking at merging PMV & SCT
	2. Standard 62.1 Ventilation (K. Shifflett)
		1. No update
	3. Standard 90.1 Energy (Need new liaison – volunteers?)
		1. No update
	4. Standard 170 Healthcare Facilities (J. Palma)
		1. No update
	5. Standard 215 Air Leakage (C Wray)
		1. Published in 2018
		2. Reaffirmation with no changes expected soon
	6. TC 2.6 Sound and Vibration (R. Zimmerman)
		1. No update
	7. TC 5.2 Duct Design (K. Gebke)
		1. Duct Systems design guide is available in the book store
		2. Potential research on duct mounted diffusers
	8. AHRI Terminal Units (Akshaya)
		1. Working group for 880 met earlier this year.
	9. AHRI Fan Coils (Sarp Hamamcioglu)
		1. No update
	10. AHRI Chilled Beams (Sarp Hamamcioglu)
		1. No update
	11. AHRI TCOS (R. Zimmerman/K. Peterman)
		1. 885 is active
			1. Adding fan coil units and WSHP’s
	12. GPC 36 High Performance Seq of Op for HVAC Sys (G. Faris)
		1. No update
	13. TC 9.6 (Jose P.)
		1. Infectious Disease - Focus on patient rooms and OR rooms
			1. Portable air cleaners
	14. MTG.ACR (Kishor)
		1. No update
	15. MTG.CEA (J. Megerson)
		1. No update
7. Other business C. Peters
	1. Motion to approve winter mtg minutes – R Johnson
		1. Second – Bob P
		2. Approved 7-0-0-4-CV
8. New business C. Peters
	1. Chris B - ETF documents on displacement in basecamp that seem biased against displacement
		1. Duncan P - 2 Science Application Committees formed
			1. Room Air Distribution
			2. Airflow Volumes/Rates Delivered into Spaces
		2. Discussion around formation of MTG
		3. Add Duncan as liaison to ETF for better communication
9. Adjournment C. Peters