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| **ASHRAE TC 1.3, Heat Transfer and Fluid Flow** 2020 Winter Conference, Orlando, Florida | _Pic1 |

**TC Committee Meeting:**

Tuesday, February 04, 2020 @ 1:00 PM – 3:30 PM. Venue: Hilton Orlando, L, Lake Down B

**TC 1.3/8.5 Research Review & Handbook Meeting:**

Sunday, February 04, 2020 @ 3:00 PM – 7:00 PM. Venue: Hilton Orlando, LL, Orange A

**TC 1.3 Scope**

TC 1.3 is concerned with the fundamental principles of the transport of energy, mass, and momentum, especially the study of and application to, physical processes in air conditioning, refrigeration, heating and related areas of environmental engineering.

**Agenda**

1. Call to Order
2. Introduction of members and guests
3. Establish quorum requirements (Evraam Gorgy)
4. ASHRAE Code of Ethics Commitment (Evraam Gorgy)

*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://www.ashrae.org/about-ashrae/ashrae-code-of-ethics)*.)*

1. Review of Agenda (Evraam Gorgy)
2. Review/Approve minutes from Atlanta meeting (Michael Wilson)
3. Section Head Comments (Jennifer Leach)
4. Liaison Comments
5. Membership Subcommittee (Achim Gotterbarm)
6. Handbook Subcommittee (Guru Ravi)
7. Program Subcommittee (Melanie Derby)
8. Status of other current/proposed programs
9. Webmaster (Ahmed Elatar)
10. MTG Liaison: Low GWP Refrigerants (Omar Abdelaziz -Liaison, Satheesh Kulankara –Alt#1, Evraam Gorgy–Alt#2)
11. Research (Joe Huber)
    1. Updates from the Society research meeting
    2. 1683-WS: “Experimental Evaluation of 2-Phase Pressure Drop and Flow Pattern in U-Bends with Ammonia”
    3. RP-1800: “Spray Evap. on Enhanced Tube bundles with low GWP Pure ref. and ref./miscible oil mixtures”
    4. Pending research topics and future research plans
12. Chair Comments (Evraam Gorgy)
13. New Business
14. Next meeting: Tuesday, June 30, 2020 @ 1:00-3:30PM in Austin, TX.
15. Adjourn

**VOTING MEMBERS AS OF 7/1/19 ROLLING ON 7/1/19**

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| Evraam Gorgy (Chair) | Kashif Nawaz (Vice Chair) ‘20 | Michael Wilson (Secretary) ‘21 | Satheesh Kulankara ‘21 | Melanie Derby ‘21 |
| **Xiaofei Wang ‘23** | Vikrant Aute ‘21 | Zahid Ayub ‘21 | Stanislav Perencevic (NQ) ‘22 | Andreas Knoepfler (NQ) ‘22 |
| Stefan Elbel ‘22 | Joe Huber ‘22 | Brian Fronke ‘22 |  |  |