

TC/TG/TRG NO.: **TC 1.12**
TC/TG/TRG TITLE: **Moisture Management in Buildings**
DATE OF MEETING: **June 24, 2023, 1pm to 3pm**
LOCATION: **JW Marriott Tampa, Manatee (4) + Virtual**

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TC 1.12 Moisture Management in Buildings
June 24, 2023, 1pm to 3pm
Tampa Summer Meeting – DRAFT Minutes

1. Call to order – Florian Antretter

The Chair called the meeting to order and read the TC 1.12 title and scope statement.

2. Self-introduction of members and guests

Those present in person and virtually introduced themselves.

3. Roll call – Diana Fisler

Seven of eleven voting members present; quorum established (one voting member joined after roll call). Discussed changes to voting members by Winter 2024 and the addition of new corresponding members.

4. Review Agenda

Agenda was reviewed. No additions were made. Dave Finley motions to approve, Diana Fisler seconds. Agenda approved.

5. Approval of minutes from Winter 2023 meeting

Erika Bonfanti motions to approve, Dave Finley seconds. Six votes, one abstention. Draft minutes will be posted to Basecamp and approved minutes will be posted to the ASHRAE website.

6. Chairman's report – Florian Antretter

- a. Jason Atkisson will be the new Section Head, Corey Metzger is rolling off.
- b. New activity form for completion after meetings.
- c. Corey to look into integration of moisture-related concerns from our TC into other TC research and publications.
- d. Corey to look into receiving draft updates prior to TC meetings.
- e. Date for next Handbook revision submission to be reviewed. Fundamentals update deadline is March 1, 2024; chapter due date is July 31, 2024.

7. Research – Wahid Maref

- a. Discussed next steps for identified TC 1.12 research topics.
 - i. Risk Assessment Practitioner's Guide to Whole Building Moisture and Hygrothermal Analysis was approved, helmed by Emishaw Iffa and co-sponsored by TC 4.4.
 - ii. Peter Luttik is seeking assistance and sponsorship from TC 1.10 for RTAR: *Possible Energy Savings from Demand Control Ventilation* in combination with TC 8.10, including developing a list of literature references. Information to be posted on Basecamp.
 - iii. Attendees were encouraged to propose RTAR or research ideas at any time; possible topics can be uploaded to Basecamp for further discussion.

8. Handbook – Simon Pallin

- a. Revisions to Fundamentals (Chapter 36) deadline is March 1, 2024. Reach out to Simon or Erika to be added to the contributor group.
- b. Discussed considering impact of these chapters on end-users, including educational content for students. Sam Taylor notes to start Basecamp discussion on educational users and their content (University of Minnesota, Penn State, etc.).

9. Program – David Finley

- a. TC 1.12 sponsored Seminar 12: *Occupant Comfort and Thermal Comfort*.

- b. Other programs of interest: Seminar 2: *Predicting the Next 10 Years of the Built Environment in Hot and Humid Climates: The Opportunity to Do Now, and Finally Learn from the Past*; Seminar 3: *The Present and Future of Net Zero Buildings in the Southeast: An In-Depth Analysis of Their Decarbonization Efforts and Performance*; *Windows and Fenestration and Energy / Energy Storage*; Seminar 42: *Can Mass Timber Construction be an Alternative for a Low Carbon Future Construction?*; Seminar 55: *Effective Ventilation: Pathway to Improved IAQ, Occupant Health and Decarbonization*
- c. Discussed proposed presentations and deadlines for Winter 2024 and in the future based on identified research topics.
 - i. Andre Desjarlais proposed a presentation with TC4.4 on hygrothermal properties of bio-based materials with Mehdi Ghobadi and Wahid Maref as speakers. Title: *Emerging Building Envelope Materials: High-performance, Low-embodied Carbon Materials for Decarbonization*.
 - 1. Dave Finley motions to co-sponsor, Erika Bonfanti seconds. No oppositions, no abstentions. Motion passes.
 - ii. Carl Grimes chair of *Occupant Comfort and Moisture Comfort*; seeking co-sponsorship from TC 8.10 and SGCP 10.
 - 1. Dave Finley motions to sponsor, Wahid Maref seconds. No oppositions, no abstentions. Motion passes.
 - iii. Don Snell chair of *Planned and Unplanned Pathways in Buildings and Influence on Ventilation IAQ and Air Delivery*.
 - 1. Dave Finley motions to sponsor, Erika Bonfanti seconds. No oppositions, no abstentions. Motion passes.
 - iv. For Indianapolis:
 - 1. Combine RP-1844 research with other cold-climate-focused topics.
 - 2. Building Retrofit Electrification, Diana Fisler sponsor with Peter Luttik, Tugba Turnaoglu.
 - v. Future: *Moisture Management with Portable Equipment/Evaporative Cooling; Fundamentals and Applications; HVAC/R; Electrification: Possibilities and Pitfalls; AI in Built Environment; Life-cycle Assessment; Legislation Standards, Codes, and Guidelines (IRA); Rebates for Building Owners*.
 - vi. Abstracts and proposals for seminars due August 2, 2023; conference paper abstracts due June 28, 2023.
- d. Discussed groups with which we'd like to coordinate more and open discussions with to ensure moisture concerns are represented: ASHRAE 189, 90.1.

10. Standards and Guidelines – Don Snell

- a. New ASHRAE position document proposed on health and wellness in the built environment. Contact Carl Grimes for input through SGCP 10 and the Environmental Health Committee. Timeline is one year.
- b. Standard 241P *Control of Infectious Aerosols* approved this morning. TC 1.12 would like the opportunity to review prior to incorporation into ANSI standard.
- c. Update on review of ISO 22185-2 draft comment phase is complete. Awaiting input on timeline for Part 3.
- d. Discussed content that is not currently reflected in Standards that would be beneficial.
 - i. Quality control guideline for moisture management during construction; Theresa Weston notes we could incorporate information into Guideline 46P and retitle or redefine scope.
 - ii. Section Head to provide further information on standards committee involvement. 241P was hand-picked.
- e. Sam Glass discusses Standard 160 committee approval of updates and clarifications to reporting section and addition of reference to ASTM E3854. There is ongoing discussion on sections for rain penetration, freeze/thaw evaluation criteria, corrosion evaluation criteria, and material sensitivity and moisture tolerances (including structural effects and mold).

11. Old Business

- a. Revisions to membership, including voting members, are pending.

12. New Business

- a. Florian Antretter rolling off as Chair, Carl Grimes assuming position.
- b. Andre Desjarlais to suggest volunteer to take over as Membership Chair as Diana Fisler assumes Secretary position.

13. Adjourn

- a. Wahid Maref moves to adjourn, Dave Finley seconds.

Next planned meeting: 2024 ASHRAE Winter Conference – Chicago, IL, January 20-24, 2024.

These draft minutes have not been approved and are not the official, approved record until approved by this committee.

DRAFT