

ASHRAE TC 9.2  
Industrial Air Conditioning  
Virtual Winter Meeting APPROVED Minutes – Chicago.IL  
Tuesday 1/26/2020  
1:00 – 3:30 P.M. EST

1. Call to Order: 1:02 PM EST
2. ASHRAE Code of Ethics Commitment – “In this and all other ASHRAE meetings, we will act with honesty, fairness, courtesy, competence, inclusiveness and respect for others, which exemplify our core values of excellence, commitment integrity, collaboration, volunteerism and diversity, 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>
3. Meeting Minutes – Kevin Marple will have a conflict as TC Secretary following W21 Meeting.
4. Self-Introduction of Members and Guests
5. Quorum Status Determination of Meeting Quorum: Quorum achieved. 9 voting members present – 1 absent.
  - a. Voting members  
June 2022 Erich Binder – Chair (P)  
June 2021 Bill Lampkin (P)/ John McKernan (P)/ Mike Baucom (P)  
June 2022/ Duncan Phyfe (P) / Joel Foster / Ravi Ganta (P)  
June 2023 / Deep Ghosh (P)/ Matt Kampen (P)/ John McKernan (P)
  - b. Members Rolling Off in June Bill Lampkin / John McKernan / Mike Baucom
  - c. Members Rolling On in July 3 Required.
6. Additions and Changes to Agenda - None
7. Approval of Minutes from Summer Meeting: Approved 7-0-0-2 CNV
8. Ventilation 2021 - Industrial HVAC Conference Toronto, Canada – Doug Cochrane  

Doug (chair) reported on the Ventilation 2021. Call for programs will be out in early February. Eric Ostberg volunteered to work on a presentation. Other members will have programs to submit based on ASHRAE ETF Ad hoc committee work for industrial ventilation. Erich is encouraging participation and programs.
9. ACGIH Update – Frank Mortl  
ACGIH actively involved in Ventilation 2021
  - a. ‘Southeast Regional Research Symposium’ on Feb 17-18, 2021  
Frank shared a presentation (attached) on the SRRS conference. A conference of interest to the industrial professionals.

- b. Other updates: TLV book published and out. FIV and practical application course a flag ship program – four courses offered this year. Different levels of program available – Basic and Advanced.

10. TC 9 Report Section Head – Brad Cochran

New Section 9 Head. TAC reviewing summer Annual Meeting (i.e. in person or virtual). TAC encouraging TC virtual meetings in between Winter and Annual meetings for reviewing potential presentations and sub-committee meetings. Coordinate the virtual meetings outside of the A&W with TAC and ASHRAE Staff.

11. Membership Report Voting Member Status, Roster Update & New Members

Erich reviewed the TC Roster and encouraged everyone to update their Bio information on the ASHRAE website ([www.ashrae.org](http://www.ashrae.org)) Erich also asked for CM and PCM members interested in moving to Member.

Bill Kumpf expressed concern about the confidentiality of the roster information.

- a. Upgrade provisional members to member after 2 years)
- b. Update new voting Members 4 year terms (8 or 12 voting members)
- c. YEA Members
- d. Membership Chair
- e. New Member involvement.

12. Chapter Technology Transfer Committee (CTTC) Liaison – Erich Binder

DL program still very active – virtually – it is very popular due to the current pandemic.

13. Handbook Subcommittee Report – Evan Reese

Evan Reese is new Handbook subcommittee Chair. Evan will need our support. Evan is also a YEA member. Evan asked past authors for support to review existing chapter updates. Also need volunteers for potential new chapters.

Erich presented a list of potential new chapters. See attached list. We will need reviewers for all chapters.

Handbook Subcommittee meeting to be scheduled in the next couple of weeks. Everyone will be invited.

Bill Kumpf suggested we inquire about adding new chapters to the handbooks. Make sure that is acceptable with ASHRAE.

14. Research – **Alois Malik is Research chair for 8.10 – Need a New Chair**

15. Program Report: Future Programs and Program Plan- Joel Foster

- a. ASHRAE is planning for face-to-face meeting in Phoenix AZ, June 26-30, 2021. Seminar and Forum proposals for Phoenix are due by Monday, February 8, 2021.

No programs planned. Will check in with Joel.

16. Update on all Standards – Deep Ghosh

Standards Update:

IEEE 1635/ASHRAE Guideline 21, 'Guide for the Ventilation and Thermal Management of Batteries for Stationary Applications' is currently being revised to add information on facility design with Li-Ion Batteries. This guide was originally issued in 2012 and later updated in 2018. The update with the Li-ion battery information is expected to be released in 2022. But prior to the release, the revision to the document will be balloted by IEEE, and anyone who wants to be included in the ballot pool should submit his contact to the TC Chair. More information for the ballot process will be provided during the summer TC meeting. The document is being review for possibly a standard.

17. Nuclear Sub Committee -John MacMurray

No subcommittee meeting scheduled for this meeting – Deep reported. Deep solicited nuclear chapter updates sent to him for information.

Nuclear handbook updated and sent to ASHRAE for publication – pending ASHRAE staff action. To be published this year.

18. Webmaster – Mike Baucom – No Report

19. Journal/Insights Liaison – Norm Maxwell

No report. Opportunity to submit Industrial Ventilation articles.

20. Old Business:

- a. STD 62.1 Liaison – no report
- b. STD 90.1 Liaison – Mike Baucom – no report
- c. TG 2 HVAC Liaison – now TC 2.10. No liaison
- d. ASHRAE MTG-ACR Update – Erich attended a meeting. This group is focused on the ETF work.
- e. ASHRAE UNEP MTG-RAC – Erich (Chair) – developing training for HVAC technicians. Refrigerant training for servicing HVAC equipment – Residential/Commercial/Industrial. Erich to update TC9.2. June 2021 completion date.
- f. Hazardous Spaces Guide – Erich – Guide has been submitted to Pub Ed but this publication is on hold for now.
- g. Industrial HVAC Guide for Oil & Gas Facilities – This might be a handbook chapter.
- h. Toxic Shelter Guidance – need to work on this guide.
- i. IEEE /ASHRAE Guideline 21 Vs Std
  - i. Standard Development – can be codified.
  - ii. IEEE 484 Std
  - iii. Lithium Ion Batteries
- j. Electrical Equipment Heat Rejection Guide – Research done on electrical equipment. Deep discussed heat gain on electrical equipment. Papers generated on research results. Information given to ASHRAE as a possible guide. No movement so far. Deep will follow up on the information submitted as a possible guide. Potential energy efficiency

advantages to be had by this work. Potential research opportunity to do a document find and organize/review/update this information for publication. TC4.1 may be a possible co-sponsor of this work.

- k. Research Projects – No report.

## 21. New Business

- a. TC 9.2 Power Point – Erich gave a presentation in Region 14 as a DL (See attached document).
- b. ASHRAE Epidemic Task Force ETF – Duncan reported. Highlighted the work the Ad hoc is doing. CFD modeling is a program in the Chicago conference. Coordinated effort with ACGIH.
  - i. White Paper – John McKernan reported on white paper. ACGIH white paper was co-authored by John. Putting together a joint document with ASHRAE. See attached draft document. John explained the process of putting this together for the TC to review and approve. Deep will provide documentation/testing/research for possible incorporation.
  - ii. Presentation – Completion in mid-February
  - iii. DL's / Conferences
- c. Basecamp Training – Training available.
- d. TC9.2 Evaluation Form
- e. TC9.2 Activity Form

22. Adjourned: 2:56 PM EST Announcement of Next Meeting – pending face-to-face or virtual.

Respectfully submitted

Kevin Marple  
TC9.2 Secretary  
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Shaping Tomorrow's  
Built Environment Today