



**ASHRAE TC 9.2**  
**Industrial Air Conditioning**  
**Annual Meeting Agenda – Atlanta, GA**  
**Omni-Hotel, South Tower, Meeting Rm Pine**  
**Tuesday 1/15/19**  
**1:00 – 3:30 P.M.**

**1:00 - 3:30 P.M. Kevin Marple chaired the meeting**

**1. Call to Order and Opening Remarks - Jensen**

- “Commitment to the ASHRAE Code of Ethics – 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>

**2. Self-Introduction of Members and Guests – All**

See sign in sheet for attendees.

Remote participants:

Anthony Arens, Bill Kumpf, Caterina Clark, Joel Foster, Ken Goodman, Mak Kampen, Les Pereria, Erik Ostberg, Harvey Schowe

**3. Quorum Status** Determination of Meeting Quorum – Marple/Phyfe

Yes we have quorum: 28 people in attendance. (9 Members)

- 19 – local / 9 - online / **28 - Total**
  - Guests: 7
  - Non-Voting members: 11
- Voting members present at the meeting: 9
  - *Local*: Erich Binder, Mike Connor, Kevin Marple, Duncan Phyfe, Deep Ghosh, Ravi Ganta, Bill Lampkin, Norm Maxwell
  - *Online*: Joel Foster

**4. Approval of Minutes from Chicago Minutes – Marple/Phyfe**

No Amendments or Corrections to the Chicago Minutes

**Motion:** Kevin Marple / to accept the minutes as presented

**Second:** Duncan Phyfe

**Vote:** Unanimous (No abstentions) / **Motion Passed**

## 5. Chair Report Section Chair Meeting Update – Marple

- See attached report for details
- High lights are:
  - TAC leading charge to re-organize committees
    - Morning meeting/seminars & Afternoon TC meetings
    - Combine down to 30-40 TC from 120 TCs
      - Focus work through the year via phone/web

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### *Open floor conversation “TC RE-ORGANIZATION”*

- Norm “Long member (1970)”
  - History of expansion of TC 9.2
  - “clean rooms” for example – great expansion and how to combine back?
  - Learning through TC meeting
    - Felt comfortable & educated through the process
    - Face-to-face meetings are invaluable
- Bill A (80s)
  - 9.2 Air Conditioning – 11 chapters
    - Absorbing TC 5.8 – 3 additional chapters
  - Full TC likely not to be full TC meeting together anymore
    - Each individual TC would meeting through year
    - Main meeting would be sub-chairs meeting w/chair person
    - Company is not going to send to ASHRAE because of workload through year
- Ravi (90’s)
  - TC 9.2 unique TC
    - Membership is contributing through ASHRAE
    - TC 9.2 handbook chapters are mostly maintenance
  - Echo’d information shared by others
- Deep
  - What is the expected timeline?
  - Kevin take feedback
- Bill Lampkin
  - Impact on companies
    - Increase from 5 people to 25 in current trip, concern on cost to company
    - Combining into 30 – will likely reduce # of people supporting ASHRAE

- Bill (Phone)
    - Concern of committee size and effectiveness
    - Company willingness to send volunteers to work with ASHRAE
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## **6. Membership Report Voting Member Status, Roster Update & New Members - Marple**

- Call for members to join/upgrade

## **7. Chapter Technology Transfer Committee (CTTC) Liaison:**

- No one from CTTC was in attendance and no Report

## **8. Handbook Subcommittee Report**

- No report

## **9. Research - Ken Mead**

- No report

### TC 9.9, RTAR proposing – Roger Smith Chair sub-committee

- Cold shipment of product
  - Land ship to data center
  - Unconditioned trucking
  - Major problems with equipment
- Looking to understand packaging & uncrate
  - Acclimatization of equipment prior to installation
- Looking for TC to co-sponsor
  - TC 9.2 currently identified
    - Comment: industry focused and should be involved w/sponsor & donation
      - Industry responds typically @ RFP level
  - TC 9.2 willing to co-sponsor

## **11. Program Report: Future Programs and Program Plan – Bill Lampkin**

- See attached program subcommittee notes
- KC – Tracks:
  1. System & Equipment in the Built Environment
  2. Fundamentals & Applications
  3. Optimization in HVAC&R
  4. Commissioning New & Existing Buildings
  5. Occupant Health & Safety
  6. Modeling Throughout the Building Life Cycle

- 7. Professional Development
- 8. Research Summit
- 9. (Mini-Track) Radiant Heating & Co.
- ORL
  - 1. HVAC&R Fundamentals & Applications
  - 2. System & Equipment
  - 3. Refrigeration & Refrigerants
  - 4. Cutting Edge Applications
  - 5. High Efficiency Design & Operations
  - 6. Big Data & Smart Controls
  - Targeted topics:
    - Workshop (codes/standard) – Battery Ventilation
    - Ventilation “Hazardous Space”
      - Update on working guideline
      - Marketing in KC
- Doug: TC 2.10, resiliency
  - Planning program in ORL
  - Likely, would welcome the support from another TC
  - Erik/Eric & Mak: Oil & Gas for cold climate
    - ORL support TC 2.10 w/resiliency
- Doug Z: paint spray

## **12. Update on all Standards – Deep Ghosh**

- STD SPC 128 Method of Rating Portable Air Conditioners
  - RELEASED for publication
- IEEE 1635, joint venture Guideline 21, Battery Ventilation
  - Revised 2012 version, RELEASED – 2018 publication
  - ORL – programs...

## **13. Hazardous Spaces**

- Hazardous Spaces Guide is in final draft – Kevin will follow up w/Mike
  - Eric O & Mak:
    - Mike is incorporating comments from Eric/Mike
  - Harvey: providing comment to Mike
  - Many working w/Mike offline

## **14. Nuke Sub:**

- Updating references
- Working to remove duplicated data
- KC approval promised

- Mid-May to TC 9.2 for review
- See attached minutes

#### **14. STD 62.1 Liaison**

- Duncan Phyfe is liaison- no report

#### **15. STD 90.1 Liaison**

- Liaison-position is open -no report

#### **16. TG 2 HVAC Liaison**

- Doug Abramson is liaison
- TG 2 is now TC 2.10, relinecy
  - First official meeting this conference
  - Working to ID TC they need to overlap with
  - Looking to add chapter to handbook for 2 total
  - 5 voting members from TG that rolled over
    - Looking to get up to 8 members

#### **TAC – report**

- Limit size-space for TC
  - Get volunteers to tech programs
  - \$\$ associated with cost
    - ASHRAE looking to streamline
    - Includes but not limited to booking rooms and time
  - Looking for feedback

#### **17. Webmaster**

- Mike Baucom is updated
- Web Sites <http://tc0902.ashraetcs.org/index.php>

#### **18. Journal/Insights Liaison**

- Norm Maxwell is liaison no report.

#### **19.ASHRAE Learning Institute (ALI)**

- Norm Maxwell is liaison no report.
- Discussion of pulling package together
  - Industrial HVAC
  - Nuclear

## **20 Old Business:**

- Close committee looking at TC scope
  - No comments/concerns expressed by TC members
- Industrial HVAC Conference – Erich Binder
  - Toronto based conference
    - Every 3 years
    - Rotation international & north america
  - Update on thinking/goals
  - Possible ALI coursework
    - Need to be aware of duplication
  - Conference to be taken over by ASHRAE
    - Summer meeting vs. other time
  - Publication: ASHRAE journal for industrial HVAC or book

## **21. New Business –**

- Industry Guide & Conference (ASHRAE's work)
  - CEC "Topical Conference" – ASHRAE would sponsor
    - Preliminary stages and details to identified
  - Starting point for industry guide
  - CEC "problem" at present no chair for event/guide – working to identify
- Design guide for Oil & Gas Facilities
  - Make subset to industrial conference: closely linked Oil & Gas, Hazardous & Industrial
- Members Council Referral
  - Came through India: inquiry about textiles handbook
  - Houston meeting provided response
    - Response didn't make it back through MC
- TC4.3 RTAR on 3D Printers - looking for interested supporters

## **22.Adjourn Announcement of Next Meeting**

- Next meeting June 25,2019 @ ASHRAE Summer Conference, Kansas City

**Motion to Adjourn:** Norm Maxwell moved. 3:10 pm

Respectfully submitted

Duncan Phyfe

Secretary

April 3, 2019

**Attachments:**

- TC 9.2 Agenda for Atlanta
- TC 9.2 Approved Meeting Minutes from 2018 Annual Meeting Agenda - Houston, TX
- TC 9.2 Sign-In
- TC 9.2 Program Sub-Committee Report / Program
- TC 9.2 Nuclear Subcommittee January 2018 Approved Meeting Minutes
- 2019 TAC Section Head Breakfast Handout