

**ASHRAE TC 10.7**  
**Commercial Food & Beverage Display & Storage Equipment**  
**2010 ASHRAE Annual Meeting**  
**Albuquerque, NM**  
**Monday, June 28, 2010, 2:15 - 4:15 pm**  
**Hyatt Regency, Sendero I Room**

**Draft Minutes**

**1. Welcome & Introductions**

- Scott Mitchell called the meeting to order at 2:15pm. Members and guests introduced themselves and a sign-up sheet was circulated (transcript attached at end of minutes)
- Dave Hinde volunteered to take minutes in Ward Wells' absence.

**2. Review Scope / MBO's**

- TC10.7 Scope:
  - TC 10.7 is concerned with the application of standard and special refrigeration equipment to commercial food and beverage cooling, displays, vended and non-vended types, and storage. This includes special features, cabinet construction and establishment of application criteria.
- TC10.7 MBO's (Objectives):
  - The pursuit of technological advancement of commercial food and beverage display and storage equipment
  - To provide engineering design and application knowledge and expertise to assure appropriate research is conducted to effectively support the Refrigeration Handbook chapters and standards for which we are responsible

**3. Review and Revise Agenda**

- No additions to the agenda were suggested.

**4. Recognition of Liaisons & Announcements:**

- Committee Liaisons:
  - Program Committee Liaison ..... Dennis Wessel
  - Research Committee Liaison ..... Roberto Aguilo
  - Handbook Committee Liaison ..... Allan Podhorodeski
  - Chapter Technology Transfer Committee Liaison ..... Scott Wayland
  - Standards Committee Liaison ..... Mike Beda (outgoing), Rick Hall (incoming)
    - o Rick Hall introduced himself as the incoming Liaison for the Standards Committee
  - Refrigeration Committee Liaison ..... Cynthia Gage
    - o During the Refrigeration Committee meeting on Sunday morning, the George Briley Award for best refrigeration- related article in the ASHRAE Journal was awarded to David Hinde, Shitong Zha, and Lin Lan for their article "CO2 Refrigeration Systems in North American Supermarkets"
- Announcements from Section 10 Breakfast meeting - see attached handout – "Announcements and Reminders for TC Chairs" for details on following topics:
  - TC "Help-Wanted" section to be added to ASHRAE Website
  - Option for TC Subcommittee Meetings via Conference Calls or Web Meetings
  - Update on development of Research Strategic Plan for 2010-2015
  - 2010-2011 Roster update process and process for adding provisional CMS
  - TC Chair Training Workshop reminder
  - Information forms on ASHRAE Website
  - Status on Tech. Council Steering Committees (BIM, AEDGs, Bldg. Performance Metrics)
  - Conferences and Exhibitions Committee proposed technical program changes
  - ASHRAE Google Groups tool
  - Upcoming Program Dates, Workshops, and Conferences
  - Thank-you letters to employers
  - Hightower Award nomination process and deadlines
  - Proposed Environmental Health and Green Buildings Position Document
- Upcoming Conferences (see Section 10 Breakfast notes for details):
  - 2010 Purdue Compressor Engineering, Refrigeration and Air Conditioning, and High Performance Building Conferences (July 12-15), preceded by a Supermarket Short Course (July 10-11) in Purdue, IN
  - IAQ 2010 in Kuala Lumpur, Malaysia, Nov. 10-12, 2010
  - IEA Heat Pump Conference in Tokyo, Japan May 16-19, 2011

#### 4. Membership:

##### ▪ Current TC Management Team

- Chair ..... Scott Mitchell (VM 6/11)
- Vice Chair ..... Robert Tanner (VM 6/12)
- Secretary ..... Ward Wells
- Research Subcommittee Chair ..... David Hinde
- Standards Subcommittee Chair ..... Van Baxter (VM 6/12)
- Program Subcommittee Chair..... Robert Tanner
- Handbook Subcommittee Chair..... Ramin Faramarzi
- Membership Subcommittee Chair..... John Gallaher
- Webmaster ..... Rob Uhl (VM 6/12)
- Additional Voting Members..... Sam Cantrell (6/13),Georgi Kazachki (6/13), Cynthia Gage (6/10), Neil Monson (6/10), and Bill Tritsis (6/10)
- International Voting Members ..... Per Lundqvist (6/10) and Pradeep Bansal (6/10)

- Quorum was established with 5 of the 10 voting members present.
- Bob Tanner announced he will be stepping down as Vice-Chair and Program Subcommittee Chair due to a change in work responsibilities
- Dean Swofford volunteered to take his place as Vice-Chair of the committee
- Cynthia Gage volunteered for the position of Program Subcommittee Chair
- Scott will do Emergency Roster Change to implement these changes for the next meeting.
- Voting members rolling off after this meeting:
  - Cynthia Gage, Neil Monson, Bill Tritsis, Per Lundqvist, Pradeep Bansal
- Voting members rolling on after this meeting:
  - Maryline Rassi
- Corresponding Members expressing the desire to become Voting Members included:
  - Massoud Ali, Massoud Neshan, Robert Sperl, Cesar Luis Lim (NQ), Pradeep Bansal (NQ)
- Guests requesting to become Corresponding Members included:
  - Kristina Kamensky, Sarah Widder, Jeff Halley, Bryan Becker, Christopher Rogers, Dan Manole
- Roster changes (other than emergency) will be done at 2011 Winter Meeting in Las Vegas, NV and will take effect after the 2011 Annual Meeting in Montreal, Quebec.

#### 5. Review Draft Minutes from the 2010 Winter Meeting in Orland (Scott Mitchell, for Ward Wells)

- Minutes for the Orlando meeting were distributed via email prior to this meeting.
- One minor change was noted correcting Massoud Neshan's company affiliation.
- A motion was made to accept the changes as amended.
- A Vote on the motion was approved unanimously (5-0-0-CV).
- A final version of the Orlando minutes will be forwarded with the draft minutes from the Albuquerque meeting as well as posted on the TC10.7 website.

#### 6. Subcommittee Reports:

##### A. Program Subcommittee (Bob Tanner, Chair)

- Albuquerque Programs:
  - Seminar 41 – “Natural Refrigerants: A Roadmap to Refrigeration of the Future” will be held Tuesday, June 29 from 11:00am-12:30pm in the Galisteo room
  - Seminar 53 – “Introducing the 2010 Refrigeration Handbook, Now with CO2!” will be held Wednesday, June 30 from 9:45-10:45am
- 2011 Winter Meeting – Las Vegas, NV
  - Theme is “Zero Energy Design”
  - Cynthia Gage brought up a request from the Refrigeration Committee that we co-sponsor a seminar on “Natural and Low-GWP Refrigerants” as an extension of the seminar presented at this meeting. A motion was by Cynthia to support the co-sponsorship and was seconded by Bob Tanner. A vote on the motion was approved unanimously (5-0-0-CV).
  - Priority #1: Seminar tentatively titled “Trends in Energy Efficiency in Supermarkets” with content from the Retailer Energy Alliance and the Commercial Building Partnership, chaired by Cynthia Gage – Speakers to include Michael Deru – NREL,

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- on modeling of demonstration projects, Ed Vineyard – ORNL, on refrigerants, Kristen Field on benchmarking work, and a possible end-user speaking on CO2 experiences. Speakers and Title to be refined by Cynthia Gage and Van Baxter.
  - Priority #2: Part 2 of above seminar, chaired by Van Baxter, with content on DOE rulings on beverage and vending equipment, and Charlie Hon – True, on potential use of hydrocarbons in self-contained equipment. Speakers and Title to be refined by Cynthia Gage and Van Baxter
  - A motion was made by Cynthia to approve the above program priorities for the Las Vegas meeting and was seconded by Bob Tanner. A Vote on the motion was approved unanimously (5-0-0-CV).
  - Program Submission Due Date for the Salt Lake City Meeting is August 6, 2010
- Other ideas for either 2011 Annual Meeting in Montreal, or 2012 Winter Meeting in Chicago:
  - Summary of work by SPC-147 on Refrigerant Leak Reduction – too soon for Las Vegas, would be good program for Chicago meeting with more end users present.
  - Summary of RP-1484 – “Energy and Performance of Secondary Coolant Low-Temperature Refrigeration Systems” – Technical Paper will be submitted, but probably too soon for Vegas – possibly for Montreal meeting
  - Possibilities for Net Zero Energy Supermarkets – SCE is working on related projects and could provide material for program in Chicago meeting.
- B. Research Subcommittee** (David Hinde, Chair)
  - Research Subcommittee Meeting held Sunday June 27, from 6-7:30pm with record attendance of approx. 20 people.
  - Dave reviewed notes from research subcommittee meeting – see attached Draft Minutes from Research Subcommittee Meeting for details on all research activities.
- C. Handbook Subcommittee** (Ramin Faramarzi, Chair)
  - Refrigeration Handbook Chapter 15 (was Ch. 46) – Retail Food Store Refrigeration and Equipment
  - Refrigeration Handbook Chapter 16 (was Ch. 47) – Food Service and General Commercial Refrigeration Equipment
  - Substantial revisions to Chapter 46 were submitted but did not make it into the 2010 handbook for unknown reason. According to Dan Dettmers, the revised chapter may be made available for free online or may be updated in the next electronic version.
- D. Standards Subcommittee** (Van Baxter, Chair)
  - TC10.7 is the Cognizant TC for the following standards:
    - Standard 72-2005, MOT Open and Closed Commercial Refrigerators and Freezers
    - Standard 29-2009, Methods of Testing Automatic Ice Makers
    - Standard 32.1-2004, MOT for Rating Vending Machines for Bottled, Canned and Other Sealed Beverages
    - Standard 32.2-2004, MOT for Rating Pre-Mix and Post-Mix Beverage Dispensing Equipment
  - Standard 32.2 requires vote for Reaffirmation, Revision, or Withdrawal.
    - Polling of interest to uses by Daryl Erbs hasn’t revealed much interest in revising the standards and recommends reaffirmation.
    - Van Baxter made a motion to Reaffirm this standard – motion was seconded by Pradeep Bansal. A vote on the motion to reaffirm passed unanimously (6-0-0-CV)
  - SPC-72 Meeting Report (Charlie Hon)
    - Work on revision continues – committee has decided to include open-front coolers with night curtains in the standard.
  - SPC-32.1 Meeting Report (Van Baxter)
    - The revisions have been completed and approved for publication – ASHRAE will be voting on release later in the week.
  - SPC-147 Meeting Report (Rob Uhl)
    - Draft has been completed and the committee has voted to send a draft out for first public review.

- Incoming Standards Committee Liaison Rick Hall introduced himself – he will be replacing Mike Beda at the close of this annual meeting.
- DOE Standards for Walk-In Coolers and Freezers
  - Aris Marantin reviewed DOE plans to present test standard for walk-ins which would include MOT for box envelop and the refrigeration system based on ARI-1250. DOE will develop this standard regardless of ASHRAE actions. If ASRHAE elects to develop MOT, this could become a DOE version on later update (DOE standards reviewed on 7 year cycle). Goal for DOE to complete draft by Fall 2010. Consensus of 10.7 was to see what DOE develops and determine if we need to take action at next meeting.
  - A motion was made by Bob Tanner to table this issue until Las Vegas meeting and was seconded by Van Baxter. A vote on the motion was approved unanimously (6-0-0-CV)

**E. Website** (Rob Uhl, Webmaster)

- Current TC10.7 Website Address: <http://www.irc.wisc.edu/ASHRAE-TC107/>
- The website will be moving this fall to the ASHRAE server
- Training sessions will be held to assist webmasters – we will have the ability to load presentations from meetings once the transition is complete.

**7. New Business**

- John McHugh – Southern California Edison – reviewed their plans for laboratory testing of walk-in coolers and freezer in support of the federal test standards under development. Testing will include a variety of parameters (head pressure controls, TXV's, VS fans and controls) and will use both tracer gas and DPIV testing to identify infiltration modes and impact of door openings, fast-acting doors, evap fan cycling, etc. Information will be sent out to TC10.7 members for review and comment and a request will be made for an agenda item for the Las Vegas meeting to review this topic.

**8. Adjournment**

- Meeting adjourned at 4:15pm

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**Attendees**

Mr Robert C Uhl	Safeway Inc
Mr Robert D Tanner	Hill Phoenix
Mr Van D Baxter, PE	Oak Ridge National Laboratory
Dr Cynthia L Gage	US Environmental Protection Agency
Mr Scott A Mitchell	Southern California Edison
Mr David K Hinde	Hill Phoenix
Mr Cesar Luis D L Lim	San Miguel Corporation
Mr Ramin T Faramarzi	Southern California Edison
Mr Masood M Ali	Kysor/Warren
Mr David B Cowen	Food Service Technology Center
Mr Daryl G Erbs	Manitowoc Foodservice Group
Mr Charles C Hon	True Manufacturing
Mr Aristotle P Marantan, PHD	Navigant Consulting Inc
Mr Massoud Neshan	
Miss Maryline Rassi	AHRI
Mr Carl C Roberts	Zero Zone Inc
Dr Sriram Somasundaram	Pacific Northwest National Laboratory
Mr Mark W Spatz	Honeywell
Mr Robert d Sperl	
Mr Dean Swofford	Hill Phoenix
Mr Samir R Traboulsi, PE	Thermotrade/Ranec
Travis Lumpkin	Kysor/Warren
Bryan Becker	UMKC
Rebecca Leggett	Navigant Consulting
Sarah Widder	PNNL
Bob Jones	Sporlan
Therese Stovall	ORNL
Ed Vineyard	ORNL
Brian Fricke	UMKC
Penny Cole	Univ of Colorado
Dave Godwin	US EPA
Cassie Cuaresma	Vacom Technologies
Jon McHugh	McHugh Energy
Christopher Rogers	PECI
Dan Manole	Hussmann