

## ASHRAE TC 5.10 Meeting Minutes

June 20, 1999

Room 605, Washington State Convention Center, Seattle, WA

Rick Bagwell called the meeting to order at 4:25 pm. The meeting was started late due the overlap with SPC-154P. Minutes of the January 1999 meeting in Chicago were approved by voice vote (moved by Dixon, second by Claar).

### **Membership Subcommittee Report**

The roll-over roster for 1999-2000 was distributed by ASHRAE Headquarters in April. There are several changes that have occurred since it was published as well as some errors. Rick Bagwell asked all voting members to review the current roster for accuracy regarding year of appointment for voting status. Rick stated his voting status was not correct and that since Derek Schrock has joined Halton Company, Rick will step down as a voting member and Derek will be a voting member and TC 5.10 Secretary after the end of this meeting. In addition, Kevin Knappmiller was mistakenly dropped from the voting roster; he will continue to be a voting member.

John Clark stated that TC 5.10's roll-over roster for next year will be developed between now and next meeting (February, 2000). Anyone who desires to serve as voting member and is willing to make the time commitment, please contact John. Society policy prefers to have a balanced representation for voting members among practicing engineers, vendors, and end-users, although there are no set requirements for TCs.

### **Handbook Subcommittee Report:**

Vern Smith reported that additional work on a few of the sections has been completed, including a review of the figures in the chapter. Michael Ratcliff has been appointed as the 2003 Handbook liaison. In addition, David Underwood has been appointed as a special liaison to work with us on developing interactive features for the Kitchen Ventilation chapter. Our chapter will be one of the first ones to be

### **Research Subcommittee Report:**

Charlie Claar reported that 1151-WS, "Develop a Draft Method of Test for Determining Grease Removal Efficiencies" was approved by RAC at this meeting. Our number 2 priority, 1152-WS, "Assessment of Replacement Make-up Air Options for Commercial Kitchen Exhaust Hoods", was returned due to format issues. Professor Tom Kuehn presented a status report regarding progress on 1033-RP, "Effects of Air Velocity on Grease Deposition in Exhaust Ductwork." The Research Subcommittee revised the long term research priority list. The top four of the following list were recommended for development of full work statements.

1. IAQ in Commercial Kitchens (Bagwell)
2. Develop MOT to Determine Whether a Type 1 Hood is Required (Fisher)
3. Cooking Line Diversity Effects (Multiple Appliances Under One Hood) (Horton)
4. Effluent Characterization Solid Fuel Cooking Processes (Claar)
5. Particulate and Odor Control Tech Assessment (Carter)
6. Variable Flow And Savings Potential In CKV Exhaust Systems (Spata)
7. Assessment of applying CFD software to CKV Design & Applications (Spata)

8. Underfired Broiler Emissions Characterization (Gerstler)
9. Assessment of Roof Exhaust discharge on Surrounding Environment (Clark)
10. Field Test for CKV Performance (Brown)
11. Affect of CKV Variables on Kitchen IAQ (Breitenfeldt)

The first four topics were approved for the long range research plan (moved by Fisher, second by Dixon, unanimous).

One page summaries are needed by Aug 1<sup>st</sup>, followed by full work statements before Sep 15<sup>th</sup>. Full work statements that are ready by September 1<sup>st</sup> will be letter balloted by e-mail.

### **Program Subcommittee Report:**

Don Fisher reported that TC 5.10 has two papers from University of Minnesota's research under 745-RP ( Identification And Characterization Of Effluents From Various Cooking Appliances And Processes As Related To Optimum Design Of Kitchen Ventilation Systems) that will be presented in the Tuesday poster session. Preprints are available.

1. Comparison of Emissions from Selected Commercial Kitchen Appliances and Food Products (4285)
2. Measurements of the Effluent from Hamburger Cooked on a Gas Under-Fired Broiler (4303)

We have a seminar scheduled for Monday titled "Commercial Kitchen Ventilation Applications: Issues and Solutions".

Deadlines for upcoming meetings are:

1. Aug 6, 1999 – Packages due for Dallas
2. January 24, 2000 – Packages due for Minneapolis

### **Dallas:**

The symposium previously scheduled is off since not enough papers are ready.

Seminar #1: "Kitchen Ventilation Insights" (Chair: Fisher) Three potential presentations, including Jim Otenbaker: internal discharge experiences; Rich Swierczyna: thermal plume generator; and Scott Jasper (topic to be decided).

Seminar #2: "Introduction to Kitchen Ventilation Standard 154." (Chair: Rousseau) Abstracts must be sent to Chris by the end of July. Presenters will be likely be Rich Swierczyna, Gary Elovitz, and Don Fisher.

Forum: "Is there a need for an ASHRAE Standard Method of Test for Commercial Kitchen Hoods that would define IMC Chapter 5 - 507.15? " (Chair: Knappmiller) This topic involves commissioning, air balance, and satisfying local code officials.

### **Minneapolis**

Seminar: " How to Implement Variable Speed Ventilation Systems for Commercial Kitchen Exhaust " --

(Chair: Knappmiller) Possible presenters include: Spata, Melink, Tom Johnson, Gerstler, Smith.

Symposium: "Innovation in Kitchen Ventilation Design, Part 2.". (Chair Bagwell) Rick will need papers by November in order to have them reviewed in time for January deadline. If papers are not ready, the symposium will be delayed until the Atlanta meeting.

### **SPC 154P**

Chris Rousseau reported that the committee decided not to go to ballot. A number of new issues were raised. Chris will coordinate having people work on comments ahead of the next meeting. He asked Vern Smith to look into posting a working draft on the TC 5.10 website so that the review of comments can be expedited.

### **Liaison Reports from other TC and SPC committees**

Dave Wolbrink reported that SP 62.2 reversed itself regarding release of the current draft of revised standard for public review.

### **New Business**

Steve Brown submitted a policy proposal about coordinating our terminology with other industry organizations. It will be considered in detail at our next meeting.

Charlie Claar gave an overview of his activities regarding efforts to improve the language in the kitchen ventilation sections of the International Mechanical Code (IMC). In particular, code officials and end users were questioning parts of Section 5.07. The IMC Secretariat (BOCA staff) invited Claar to form an ad hoc group of experts to proposals for revised code sections. Meetings were held in October and November to develop several proposals. There is significant overlap between members of the ad hoc group and those who participate in TC 5.10 activities and SPC 154P. Consequently, the proposals were influenced by the previous discussions at TC 5.10 and SPC 154P. The IMC panel reviewed the proposals in March and unfortunately the more significant proposals were not accepted, but the vote split was very close. It is likely that with a few changes, the proposals will be accepted at the next panel review meeting.

Doug Horton, who participated in the ad hoc group, noted that proposal review process for the IMC is important as well as content. There were 150 proposals to be reviewed in one day. The ad hoc group accounted for 19 of them, the last of which was reviewed at 8:30 pm. Each proponent has only two minutes per proposal to speak to the panel. It is a very difficult format for major change proposals.

The next IMC meeting will be held in St. Louis during the week of Sep 13<sup>th</sup>, but schedule can be changed at the last minute. All three model code organizations that make up the ICC will meet to consider changes to code.

The meeting was adjourned at 5:50 pm until the Dallas Winter Meeting (moved by Brown, second by Fisher, unanimous).