The combined Southern California Plumbing and Mechanical Chapters of IAPMO met on Tuesday, November 20, 2007, with 19 members and guest present. Roscoe King, Chapter Chairman, called the meeting to order. Bill Nunes of Costa Mesa led the salute to the flag. This was followed by the self-introduction of attendees.

Ed Saltzberg, Chapter Secretary, read the Minutes of October 16, 2007 meeting. The Minutes were approved as corrected.

Jerry Plank, Chapter Treasurer, reported that we have $315.51 in the Treasury prior to today’s lunch and a deficit of $241.00 for Chapter pins.

**Announcements**
1. Bob Bailey of UPPA of Long Beach reported they will meet on December 8th with Table Top Program and election of officers. Bob also mentioned that the January meeting will be on the 1st Saturday instead of the 2nd Saturday due to a conflict with Roscoe’s all-day seminar.
2. Roscoe selected Trini Mendoza of County of Ventura and Bill Nunes of Costa Mesa as Nominating Committee for officers next year. Roscoe also stated that we will be dark next month with no meeting in December.
3. There was a discussion of CSST gas piping color change, code clarity and watts 210 approval.

**Technical Program**
Roscoe introduced our speaker for the day, Pennie L. Feehan, Regional Manager with the Copper Development Association (CDA). Pennie presented a Power Point presentation on “Do it Copper, Do it Proper.” She spoke about CDA, that it has three divisions and plumbing is one of them, and CDA has 60 member companies. She said that CDA will provide a free Forensic Report on any failure of copper pipe installation. Pennie showed the various types of copper failures and their relative frequency. It showed that installation and design is the greatest problem and unreamed tubing is the biggest single problem.

Pennie then discussed and showed the various modes of copper failures. These were:
1. Erosion/Corrosion: including lack of reaming and insertion and protrusion
2. Excessive velocity: Pennie said that velocities should be kept below 5-8 feet per second for cold water piping, 4-5 f/s for hot water piping below 140ºF, and less than 4 f/s for hot water 140ºF or greater.
3. Well water
4. Flux corrosion: Wrong flux, too much flux, and not water flushable flux

Pennie then discussed and showed alternate joining methods and benefits of each:
1. Flared joints
2. Mechanical formed tees: Branch dimpled
3. Press connections: check with manufacturers for pressure and temperature limitations
4. Push fit: Ratings per manufacturer listings.
5. Rolled groove

Pennie said that pipes should be marked to show how far they are to be inserted.

**Old & New Business**

1. Larry Soskin indicated that we are losing money on every lunch. Therefore he proposed to raise the charge per lunch to $20.0 from our current $15.00. The motion passed.

At the conclusion of the New Business, a bottle of wine and gift card, donated by Ed Waas of Spears Manufacturing Co., was given out. The lucky winner was Ben Ellingson of Costa Mesa. The $10.00 door prize was won by Bob Payne of Keyline Sales. Bob donated the money back to the chapter. Other winners of prizes were Wes Cruz of Vernon, Trini Mendoza of Ventura County, Henry Martinez of Costa Mesa, Jerry Plank of Simi Valley, Jim Fry of Los Angeles County Retired, and Larry Soskin of Ace Duraflo. Bob Bailey of UPPA of Long Beach won a 2007 Code book and Roy Calzada of State of California won a flash drive donated by Pennie Feehan of CDA.

With that, the meeting concluded. We wish to thank Pennie Feehan of Copper Development Association for an interesting and informative program.

Respectfully submitted,

Edward Saltzberg
Chapter Secretary