The combined Southern California Plumbing and Mechanical Chapter IAPMO met on Tuesday, July 15, 2008, with 30 members and guests present including three first-timers. Roscoe King, Chapter Chairman, called the meeting to order. Jim Fry of L.A. County led the salute to the flag. This was followed by the self-introduction of attendees.

Ed Saltzberg, Chapter Secretary, read the Minutes of the June 17, 2008 meeting. The Minutes were approved as read.

Jerry Plank, Chapter Treasurer, reported that we have $813.86 in the Treasury prior to today’s lunch.

**ANNOUNCEMENTS**

1. Bob Bailey of UPPA of Long Beach reported that they will hold their golf tournament on August 23, and everyone is invited. And their September 13 subject will be Green Plumbing.
2. Ed Saltzberg spoke about the ASPE-Trade show at Long Beach Convention Center in October. He passed free applications for entry, a $50.00 gift.
3. Trini Mendoza of County of Venture spoke about the Channel Island IAPMO meeting, and everyone is urged to attend.
4. David Gans of City of Oceanside spoke of the San Diego Chapter meeting on August 1st, with a speaker from IAPMO.
5. Roscoe King spoke about tank less water heater replacements and having to increase gas pipe sizing, manifold sizing and about fireplace increased gas load.

**Technical Presentation**

Our speaker for the day was Sushi Kamioka special project coordinator with Takagi tank less water heaters. Sushi presented a power point presentation of check points for tank less water heaters. He also covered the advantage and disadvantage of tank less water heaters. He told of the at least 15 seconds recovery time. He emphasized that the tank less
water heater must only be installed and serviced by a licensed Professional. Sushi stated that the name plate should not be removed or painted over. Sushi told of the efficiency of their tank less water heaters. The condensing is 93% Verses 80% for their regular. Sushi said that the minimum flow rate is 0.5 GPM and to see pressure loss table for sizing pumps. He said the unit requires a pressure relief valve. Sushi told that their warrantee is 5 years parts/ 10 years heat exchanger coil without recirculation, 3 years with recirculation and 3 years commercial. Sushi spoke about the water heater requiring water treatment. They do not recommend descaling of the heater annually and if failure of water heater is due to water damage there is no warranty. Sushi said that 20,000 Takagi water heaters were sold last year in the U.S. Sushi gave installation advice and required clearances. He said that attic installation was not recommended but if install in attic provide drain pan and make-up fresh and clean air. Sushi spoke about the venting which is in Cat. Ill stainless steel UL listed only. Heater can vent 25 feet with 5 elbows and can not combine with other vents. Sushi told that the condensing water heater has a built in neutralizer on the drain line. This neutralizer has to be changed out every 8-10 years. Sushi covered gas pipe sizing and pump layouts with aqua stat and a timer. He talked about heater sizing and temperature settings. Sushi spoke about solar water heating and said that there should be a temperature mixing valve before the tank less water heater. Peter Reifsnyder of Takagi passes out literature on Takagi Water Heaters and on venting & also showed samples of venting parts. After answering all the questions that concluded our technical presentation.

New & Old Business
1. Mario Orlando of Nibco presented new PEX manifolds now being made.
2. Ed Waas of Spears Manufacturing announced that Spears bought a pipe manufacturer so now Spears will be selling both pipe and fittings in PVC & CPVC.

The $15.00 door prize was won by Mario Orlando of Nibco who donated it back to the chapter. Ed Waas of Spears Manufacturing donated a fishing pole and cap. This was won by Dan Freelaux of L. A. County. Doug Atkinson of Manhattan Beach won a Code Book. David Gans of Oceanside won the History of IAPMO. Others won various IAPMO gifts. With that, the meeting concluded. We wish to thank both Peter Reifsnyder and Sushi Kamioka with Takagi tank less water heaters, for an interesting and informative program.

Respectfully submitted,
Ed Saltzberg
Chapter Secretary