The combined Southern California Plumbing and Mechanical Chapters of IAPMO met on Tuesday, August 16, 2011 with 14 members, and guests present. Shane Peters Chapter Chairman called the meeting to order. Ira Schumer of H.C. Fletcher Co. led the salute to the flag. This was followed by the self-introduction of members and guest.

Ed Saltzberg, Chapter Secretary, read the minutes of the July 19, 2011 meeting. The minutes were approved as read.

Jerry Plank, Chapter Treasurer reported that we have $1802.35 prior to today's meeting.

**New and Old Business**

1. Ed Saltzberg said that CAL OSHA was trying to assess damages against the Plumbing Contractor on the San Diego Hilton “gas odor fade” explosion case. I told the contractor to ask the judge “how can a contractor protect his workers from something that he doesn’t know exists”. If the gas company had told the public that “gas odor fade"
occurs, then the contractor could have and should have used a methane detector.

2. Trini Mendoza of Ventura Co. reported that the Channel Islands Chapter meeting would be dark in September and December.

3. Mario Orlando of Thermofit Industries spoke about ways of increasing our chapter attendance.

4. A Rep of Eemax, Inc. asked if the cities were requiring a temperature control valve ahead of public lavs. All said that they were.

5. Shane Peters announced that Eemax would be our guest speaker at the September meeting. Shane also announced what speakers would be up-coming at our future chapter meetings.

**Technical Program**

Shane introduced Mr. Marty Hayes with Sustainable Building Products LLC representing Aquatherm piping systems. Marty explained that Aquatherm pipe is randomly reinforced poly propylene pipe which has been in use since 1973. It has been used in all over the world but has only recently been brought to the U.S. He said that the pipe is made in Germany and is not ARA listed. Aquatherm is chemically inert to most elements, will not leach any chemicals and is 100% nontoxic.

Marty explained that Aquatherm has both long and short strands for stability and reduces expansion to 2.2"/100'/100° F rise which is much
less than other plastics and similar to cooper. Marty said Aquatherm is not subject to corrosion, erosion, & will not support legionella or mic. Marty showed samples of the 4 types of Aquatherm. Green for potable water up to 180°F. swimming pools, chemicals and food processing. Blue climatherm for space heating to 220°F, chilled water, irrigation and compressed air. This can come with a Oxygen barrier. Lilac for piping septic systems and recycled and reclaimed water. Red for fire sprinkler systems and is UL rated.

Marty said that Aquatherm can be air tested because it will not shatter. The pipe will only crack & the pipe will withstand 1500# pressure prior to burst. 1/2” – 4” pipe is socket fusion joints & 6”-12” pipe is butt fusion. Marty passed out samples of various joints. When asked about the slight ridge at the joint Marty said that with the flow rating of Cv=200 the pressure loss is negligible & the turbulence at the turn is less than with a conventional fittings.

Marty said that Aquatherm provides a 10 year warrantee on piping and coverage for personal injury and property damage. Marty explained that the pipe has an R value of 1.2 so less insulation thickness is required. Marty stated some of the other benefits of Aquatherm are 1/5 the weight of steel pipe; ½ the weight of cooper; dissipates water hammer; & will not crack if frozen. Marty said Green pipe is 15%-30% less than copper and blue pipe has even greater savings and the piping has adaptors to other types of piping materials. Also, the price of the product is stable and not subject as much to the price of oil or commodity prices.

Marty said that Aquatherm comes in 13’ or 20’ lengths. The piping has a flame spread of 25 but only a smoke rating of 50 when enclosed with
their special pipe wrap. Also their piping can come with a special UV wrapping. Marty then demonstrated the making of socket fusion joints and tee joints. Marty showed that the pipe is slightly larger than the fitting so you can't have a dry joint.

After all the questions concerning the products were answered and people made some pipe joints, that concluded our technical presentation.

The $10.00 door prize was won by Rick Linder of Ricks Plumbing. Ed Waas of Spears Mfg. won a plumbing code. Bob Baily won a bottle of wine donated by Ed Waas, and Eemax won a Mech code. With that we concluded our meeting.

The chapter wishes to thank Marty Hayes of Aquatherm for his very informative and timely presentation.

Respectively submitted
Edward Saltzberg

Chapter Secretary.