Date: 04Apr2017.
Location: Santa Ana Elks Lodge, 212 S. Elk Lane, Santa Ana, California.
Called to order by Henry Martinez at 12:00 p.m.

Self introductions were performed by new or long-absent attendees.

Approval of March Minutes postponed.

**Treasurers Report**
The Treasurer's report was given by Henry Martinez.

**Membership Comm. Report**
The Membership Committee report was given by Tom Griffith: 111 active members, of which 49 are inspector members and 47 are associate members.

**Old Business**
None addressed.

**New Business**
Mostafa Kashe with the County of Los Angeles spoke about pertinent, upcoming ICC training on 01 May. The topics will be: *Marijuana Facilities and the Building Code*, and *Alternative Design and its Application to Shipping Containers*. The location is the County of Los Angeles, Department of Public Works office in Alhambra.

Tom Griffith announced that 1) the Division will be buying a lapel microphone and a remote microphone for placement in the audience, and 2) efforts are being made to revive the Los Angeles County Division. He then asked the group for opinions on occasionally conducting our meetings out in the Inland Empire. (Discussion and comments were generally favorable to the idea.)

**Code Questions**
Mostafa Kashe with County of L. A. asked for opinions from the group as to what they would do if they found open, unattended, energized electrical equipment upon arrival for a requested
inspection. Scott with the City of Santa said that the policy there is for the inspector to remain at the site until the situation was made safe. Other comments suggested that the inspector must do something to make sure something was done to remove the hazard.

**Contractor Time**
None taken.

**Consultant Time**
None taken.

**Utility Time**
None taken.

**Testing Lab Time**
Rich Berman mentioned that UL continues to see issues with counterfeit labels or misapplied labels; particularly with signs and luminaires, especially with LED luminaires. He added that many LEDs are not Class II (Class II takes away the electrocution hazard but not the fire hazard). Henry Martinez asked: are sign companies who apply their own labels audited by UL? Rich explained the certification process and stated that UL labels are to be applied at the factory rather than in the field. Rich cautioned that there is a bit of a black market for labels out there.

Scott Davis brought up the issue of non-listed kits to changeout a panelboard bus. Keith Johnson and Steve Schinko with Eaton mentioned that they have retro-fit kits for loadcenters and panelboards, and that panelboards are an assembly of three separately-listed items: the cabinet, the interior and the trim. Rich Berman stated that a particular manufacturer of UL-listed products may also manufacture non-listed products without putting their authority to apply UL labels in any kind of jeopardy. Steve Schinko opined that the kit and cover are likely to have been classified for installation in/on an enclosure of certain minimum dimensions.

**Inspector Time**
Henry Martinez described an installation of a PV system utilizing two inverters with two back-fed breakers at the service. Scott Davis responded that the Code allows this but that SCE does not.

**Manufacturer Time**
None taken.
To begin with, Scott revisited the issue of roof-top raceways, which was discussed at last month's meeting. Scott went on to cover the following items in Chapter 4.

400.4 Types (Flexible Cords and Cables) "...permission of the AHJ." rather than "... subject of special investigation."
400.5(A) Ampacity Tables for Flexible Cords and Cables.
400.6 Markings (Flexible Cords and Cables) ...maximum operating temperature.
400.7(A)(11) Uses Permitted (Flexible Cords ad Cables) ....inlet....listed assembly...

404.2(C) Grounded Conductor at Switch Locations. Neutral required at switch. New exceptions.
404.8(C) Multi-pole Snap Switches. These are no longer permitted to be fed from more than a single circuit, unless it is listed and marked as a 1-circuit or 3-circuit switch.

406.3(E) and Figure 406.3(E) Controlled Receptacle Marking. (In 2017 NEC, the word "controlled" must be on the receptacles.)
406.4(D) Replacement Receptacles.
(2017 NEC removes requirement for disposal GFCI to be readily accessible.)
406.5(E) Receptacles in Countertops and Similar Work Surfaces.
406.5(F) Receptacles in Seating Areas and Other Similar Surfaces.
406.9(B)(1) 15- and 20-Ampere Receptacles in a Wet Location. Extra duty covers....
(2017 NEC 406.9(B)(1) allows absence of Extra Duty label for listed products identified as weatherproof assemblies that do not have that type of hood.)
406.12 Tamper-Resistant Receptacles. Some exceptions are gone. Some are added.
406.15 Dimmer Controlled Receptacles. (This section is removed in its entirety in the 2017 NEC.)

Article 408 and 408.1 Switchboards, Switchgear and Panelboards. Now "Switchgear" is used throughout the Code.
408.4(B) Field Identification - Source Supply. Equipment with more than one source must be so labeled.
408.55 Wire-Bending Space within an Enclosure Containing a Panelboard. 408.55 is broken into three subsections: (A) Top and Bottom Wire-Bending Space; (B) Side Wire-Bending Space; and (C) Back Wire-Bending Space.

409.20 Conductor- Minimum Size and Ampacity (Industrial Control Panels). All heating loads are now included.

410.6 Listing Required (Luminaires) Retrofit kits must be listed. (Rich Berman with UL commented that utility companies are offering rebates for LED retrofitting, but are not requiring evidence that permits have been issued before the rebate is paid.)

410.10(F) Luminaires Installed in or Under Roof Decking. Luminaires must now be installed at least 1.5" below metal-roof decking. Just as boxes, cables, raceways, and other electrical components are already required to be installed.

410.130(G))1) Disconnecting Means (Electric-Discharge Lighting Systems) Exception #3 has been deleted.

422.5 GFCI Protection. (Appliances) GFCI devices must be in readily accessible locations. (2017 has lists of types of appliances to which this applies.)

422.23 Tire Inflation and Automotive Vacuum Machines. (Appliances) Requires GFCI protection.

422.49 High-Pressure Spray Washers. All single-phase equipment rated 250 V or less and three-phase equipment, rated 120/208 V and 60 Amps or less must have integral GFCI protection.

422.51 Vending Machines. GFCI is also required for hard-wired vending machines, not just cord-connected.

Adjourned by Henry at 2:07 p.m.

Minutes respectfully submitted by Dan Vaughan.