

Nancy McCoy

SEMINAR: "TITLE 24 – ONCE AGAIN! TIME FOR AN UPDATE"



On behalf of Northern California Chapter, Patricia Brown thanked the event host: "Artistic Tile & Stone" for hosting OctoberFest with wonderful food and drinks! Our heartfelt thanks to them for their continued partnership and support.

Lilley Yee announced that we're all excited about our first Chapter Design Competition. The winners will be announced at the "Premier Gala Awards Ceremony" on January 22nd, 2009, location TBD. All competition entries will be on display at the Holiday Party on December 12th 2008.

Patricia awarded the "2008 Local Chapter Growth Award" to Toni Dewaal for her excellent service in the past two years as VP-Technology & Communications. All her time and efforts are greatly valued.

Artistic Tile & Stone owner Cynthia Campanile thanked everyone for coming. She thanked her staff for all their efforts in arranging the evening together.

Nancy McCoy, Principal/Owner of "McCoy Lighting Design" kept the audience thoroughly engaged while delivering her seminar, in which she converted the highly technical subject of Title 24 into layman's language.



Patricia with Cynthia and Tony Campanile



Toni Dewaal with her award (Patricia in the back)



Artistic Tile & Stone Staff

Seminar Recap: "Title 24 – Once Again! Time For An Update"

Nancy says, ***"Lighting can make or break your space...its your signature on projects!"***

*Incandescent lamps are like the "Hummer"... not very efficient,
Halogens are comparable to the "SUVs", and,
Fluorescents are like the "Prius!!"*

Since CA Energy Commission is constantly updating documents to save energy, the new documents effective April 2009 are as follows...

**CALIFORNIA TITLE 24 RESIDENTIAL LIGHTING STANDARDS 2008
- DOCUMENT HIGHLIGHTS -**

EFFECTIVE April, 2009

1. **Definition of High Efficiency Lighting: (efficiency = lumen output divided by wattage)**
 - Lamps less than 5 watts – minimum 30 lumens per watt
 - Lamps 5 to 15 watts – minimum 40 lumens per watt
 - Lamps 15 to 40 watts – minimum 50 lumens per watt
 - Lamps over 40 watts – minimum 60 lumens per watt
 - LEDs are rated by system watts - including the lamp, transformer, power supply and fan.
2. LEDs must be certified to the California Energy Commission to be classified as high efficiency.
3. LED trims must be hardwired directly to the luminaire housing and cannot be a screw-base socket.
4. Recessed luminaires installed in insulated ceilings must be approved for zero-clearance insulation cover and must be certified air-tight. Exhaust fan housings are not required to be airtight.
5. All exhaust fans must be switched separately from the lighting system OR if it is a fan/light combination, the light shall be turned on and off manually while the fan continues to operate.
6. Kitchens - at least 50% of installed wattage must be high efficiency. Lighting in areas adjacent to the kitchen (i.e. nook) is considered kitchen lighting if on the same switch as the kitchen lighting. High efficiency lighting must be switched separately from low efficiency lighting. There are no longer constraints on where the separate switches are located.
 - a. Blank electrical boxes in the kitchen shall be calculated at 180 watts of low efficiency lighting.
 - b. Lighting installed inside the cabinet for the purposes of lighting the inside of the cabinet is NOT included in the 50% lighting wattage calculations. Shall use no more than 20 watts per linear foot of illuminated cabinet.
 - c. Bonus wattage allowed under certain conditions:
 1. 50 watts per dwelling units equal or less than 2500sf.
 2. 100 watts per dwelling units equal or greater than 2500sf.
 3. All lighting in garages, laundry, and closets greater than 70sf must be high efficiency AND controlled by a vacancy sensor.
7. For compact fluorescent fixtures with 26, 32 or 42 watt ratings, the installed wattage shall be the highest rating or a average of the lamp/ballast combination: 26 watt lamp = 33.33 installed watts, 32 watt lamp = 33.33 installed watts, 42 watts = 42 installed watts.
8. Vacancy sensors must provide the occupant the option of turning the lights off manually upon leaving the room.
9. All bathroom hard-wired lighting must be high efficiency or controlled by a manual-on motion sensor that can turn off manually or turn off automatically when no one is present. A 30 second grace period can allow the automatic turn on of the vacancy sensor after it has turned off.
10. Outdoor lighting attached to the building must be high efficiency or controlled by a motion sensor, photo control, astronomical time clock or energy management controls system without bypass switches.
11. Low efficiency outdoor and landscape lighting may have temporary override switch which bypasses the motion sensing function for up to six hours provided that the override switch automatically reactivates the motion sensor.

LED Downlight LR6:

Some of the Compatible 6" can manufacturers:

- Capri
- Halo
- Juno
- Lightolier
- Lithonia
- Liton
- Progress
- Seagull

When designing with LEDs don't forget to save room for the transformer for the whole run. Electricians often forget to program the occupancy sensors, and lights go off every 30 sec.! So, it is important to mention in specs. that the "electrician needs to program the sensors".

Nancy says, "When I go through a tunnel with High Pressure Sodium lights, I make a random guess at what the color of the car next to me would be...and when I'm out, I say...Oops, missed that one!!"

Color Temperature plays an important role in lamp selections. Educate the homeowners that all lamps need to be of the same Color Temperature, or else it starts to become a hodgepodge of colors! Lamps with Color Temperatures between 2700K- 4000K are fairly acceptable in kitchens. Also pay attention to the Color Rendering Index. 80 CRI and above lamps are considered good, and make most of the colors look natural.

Become fluent in fluorescents!!

To purchase the So-Sonoma T24 Color Solutions Light Kit for Designers go to: <http://www.so-sonoma.com/index.html>



easily portable



5 lamp compartments



desktop set-up for viewing



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