

SOUTHERN OREGON CHAPTER AIA
Regular Monthly Meeting
June 19, 2013

The meeting was called to order at 12:00 pm in the Medford City Hall, third floor. Attending were Members: Gene Abell, Gary Caperna, Gary Collins, Jac Nickels, Bruce Richey, Jim Roemer, Robert Seibert, Stuart F. Smith, Doug Snider, Beverly Thruston, David Thruston, Brian Westerhout and Associate Members David Evans and Joseph Sis.

Prior to the program the upcoming State Board meeting and "Listening Session" was discussed.

PROGRAM: Electrochromic Glazing Control of Solar Energy

Presented by

1. Power of Glass without energy penalty
65% of building energy use is lighting, heating and cooling
Problems: Heat Gain
Glare
Energy Use

Conventional Solutions: Static Glass
Interior Blinds
Exterior Shades

2. Dynamic Glazing Options
SPD - Suspended Particle Device, 110 v operation
LCD - Liquid Crystal Device, 110 v operation
Photochromic - UV light is absorbed in material, results in tinting
Thermochromic - Heat is absorbed by material, results in tinting, passive system w/no electricity
Electrochromic - Thin film technology that tints on demand, 4 VDS low voltage
Controllable
Drives occupant comfort
Maintains view
Durable
Energy efficient

Described how electrochromic glazing option functions.

Impact on Performance

Energy & Human Factors Evaluation
20% cooling reduction
60% lighting reduction
30% reduction in peak demand
Can go as low as 2% visible light transmission

Sustainability & Human Factors
Control glare and light mix
Zoning
Automatic controls

Gave examples of tinting applications.

Questions and answers followed the presentation.

The meeting was adjourned at 1:10 pm.

Submitted by Bruce Richey, AIA, Chapter Secretary.