

**SOUTHERN OREGON CHAPTER AIA**  
**Regular Monthly Meeting**  
**December 17, 2008**

The meeting was called to order at 12:00 pm in the Adams Room of the Jackson County Library Medford branch. Regular members Gene Abell, Gary Collins, Steve Ennis, Brian Hawkins, Todd Jagels, Joanne Krippaehne, Jac Nickels, Bruce Richey, Robert Seibert, Stuart Smith, Doug Snider, and Dave Straus were present. Associate members Adam Miller and Jason Zook attended along with guest, Bruce Anderson.

The minutes of the meeting are as follows:

2009 Slate of Officers was presented:

Mark McKechnie – President

Stuart Smith – Vice-President/President-elect

Bruce Richey – Secretary

Treasurer – Bob Seibert

Delegates – Gene Abell & Bob Seibert

Richey noted the executive committee is working on a scholarship program for high school seniors in our Southern Oregon region. It was noted the chapter website update program will commence next month (hopefully).

Gene Abell announced that California will require continuing education in the area of accessibility for future license renewals.

**PROGRAM:           HIGH PERFORMANCE CONCRETE**  
presented by Richard Koon and Bill Lowe

An overview of concrete admixtures and conditions requiring admixtures was presented. Components making up the composition of concrete were described.

Moisture-related Flooring Failure Causes:

Fast track construction....concrete requires 40 days/inch of conc. Thickness for adequate drying time.

Inadequate vapor barrier/retarders

Moisture Released from Capillary Action can cause:

Excess moisture vapor emission

Slab Curl

Re-emulsified adhesive

Mold & bacteria growth

Surface dusting spider cracks

Installation delays

Vapor Barrier/Retarders

Barrier = 0.01 perms

Retarder = 0.03 perms

Should be placed directly under the slab.

Concrete Mix Design

.45 water/cement ratio is desirable

4" slump

Admixtures are acceptable

Curing

1 – 3 days wet curing with w.p. paper or plastic sheet cover.

Curing compounds must be mechanically removed.

Slab curl causes and remedies were described.

Described moisture testing standards  
ASTM D 4263-83 Material testing  
ASTM F 1869-03 Calcium Chloride testing  
ASTM F 2170-02 In-Situ Relative Humidity testing

Topical Systems were discussed:

Spray-applied, such as Crete Seal  
Epoxy – shot blasting required before application  
Penetrating - shot blasting required before application  
Moisture tolerant adhesives

Crystalline growth formulas can stop water penetration but not vapor emission.

It was noted that moisture related flooring failures cost approximately \$2.4 billion per year.

Questions and answers followed the presentation.

The meeting was adjourned at 1:30 pm.

Submitted by Bruce Richey, AIA, Chapter Secretary.