PROCEEDINGS

One Hundred First Annual Meeting

of the

AMERICAN
WOOD-PRESERVERS' ASSOCIATION

Royal Sonesta Hotel
New Orleans, Louisiana
May 15-17, 2005

VOLUME 101

AMERICAN WOOD-PRESERVERS' ASSOCIATION
P.O. BOX 361784   BIRMINGHAM, ALABAMA 35236-1784   USA
Wood Solution Titrations

Tore Fossum
Mettler Toledo, Inc.

Abstract
Treating solutions and wood extracts were analyzed with a DL-Wood titrator with a DS500 Surfactant electrode to establish the precision and accuracy ofquat determinations in aqueous treating solutions, in alcoholic check samples, and in wood extract samples. Diagrams show the precision of long series of samples, and of series switching from aqueous to non-aqueous systems and back.

Efficacy of Borax–Copper Treatments Against Formosan Subterranean Termites in Hawaii

Bessie Woodward, Stan Lebow, Douglas Crawford
USDA Forest Products Laboratory

Bill Abbott
Pole Maintenance Company

Abstract
Southern pine and Douglas-fir specimens were treated with borax–copper (BC) or DOT solutions and exposed at a Formosan subterranean termite (FST) exposure site in Hilo, Hawaii. After 24 months BC treatments provided good protection of Southern Pine, but protection of Douglas-fir was variable because of uneven preservative distribution. Ratings for BC-treated Southern Pine were slightly better than for DOT treated Southern Pine at equivalent B2O3 retentions. The results indicate that borax-based treatments can protect against FST in wood species that allow uniform distribution of preservative.

Biocide Treatments for Engineered Composite Panels

J. W. Kirkpatrick
Weyerhaeuser Wood-Based Composites Center

H. M. Barnes
Mississippi State University
Forest Products Laboratory

Abstract
This study was designed to investigate the effect of biocide addition on the properties of randomly oriented wood strandboard. Included in the study were new generation preservative systems including copper naphthenate, betaine, and copper betaine added to a southern pine furnish containing no more than 4% low and medium density hardwoods. Study variables included treatment level, mode of biocide addition (flake pretreatment, spray incorporation), and biocide form (powdered, liquid). Comparison was with untreated panels and panels treated with the industry standard, zinc borate. Bending and dimensional properties were evaluated in this preliminary study. Results are discussed in terms of biocide and treatment mode. Few deleterious effects were found for boards treated with the copper compounds or betaine when compared to those for zinc borate treatments.

92