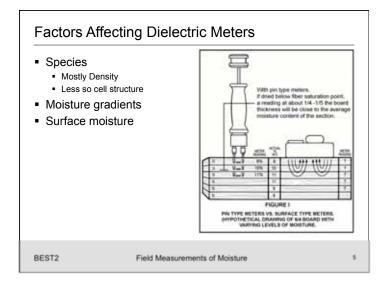
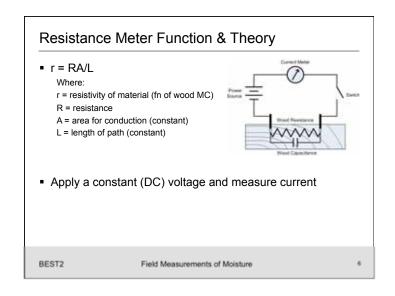
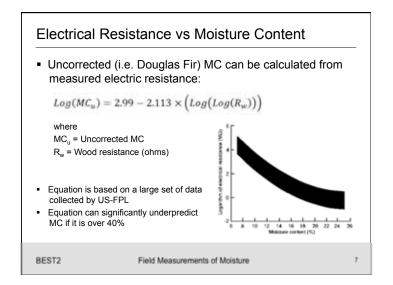
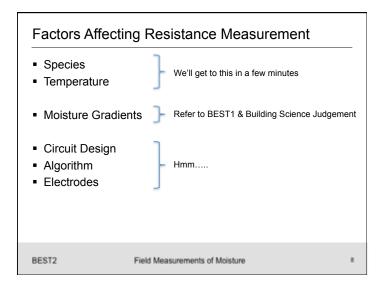


2

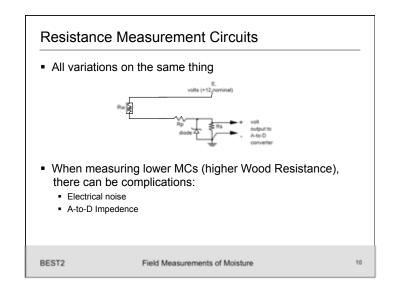


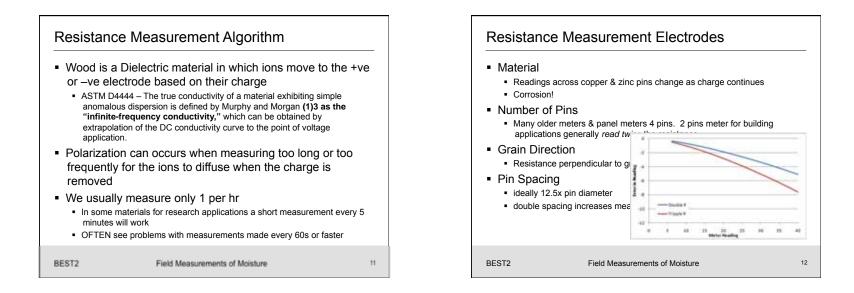


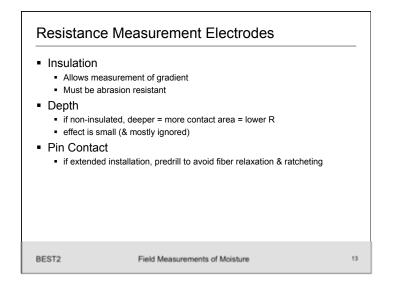


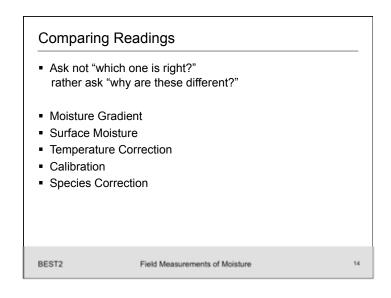


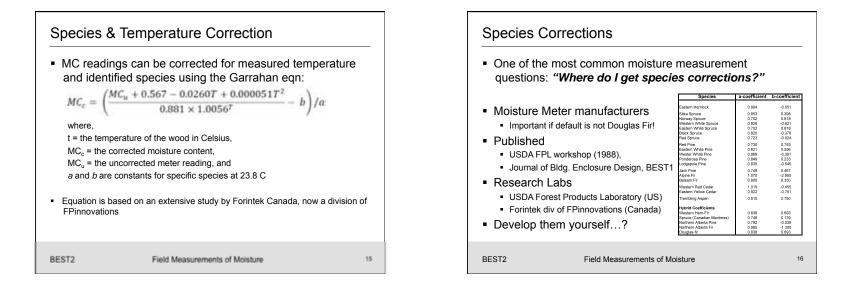


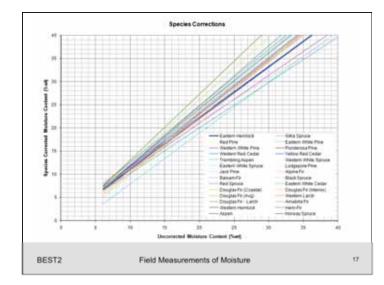


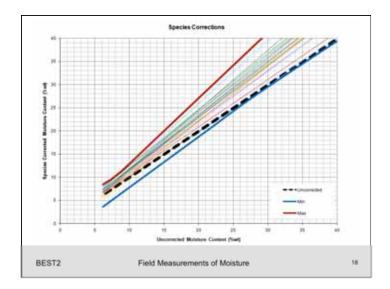


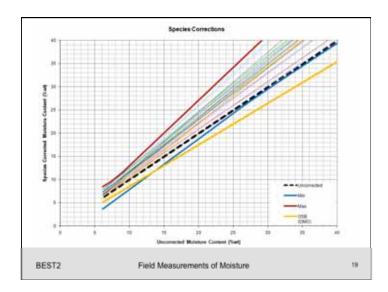


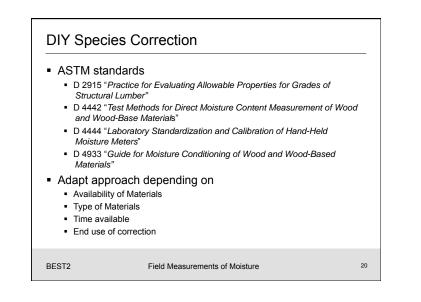


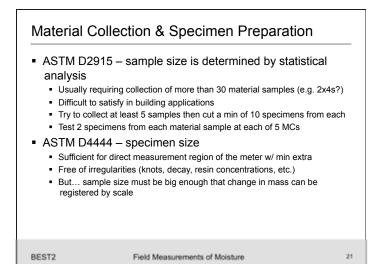


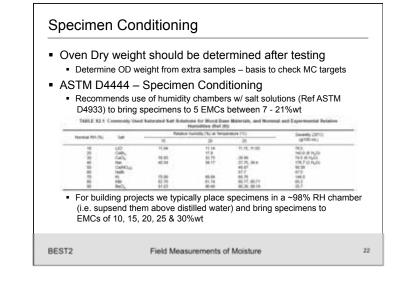


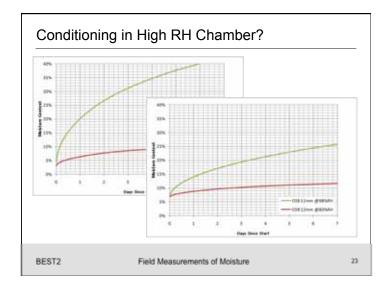


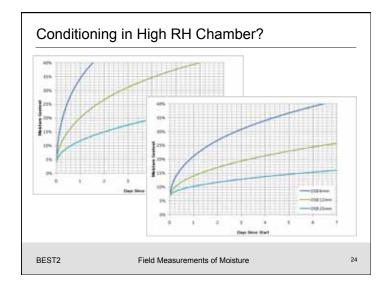




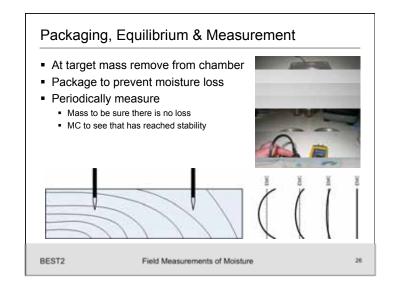


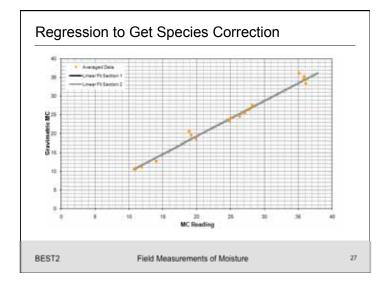


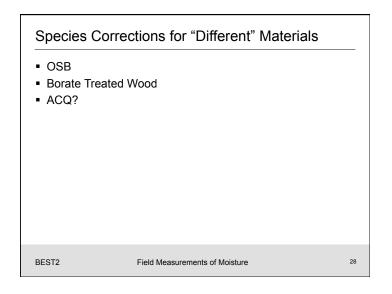


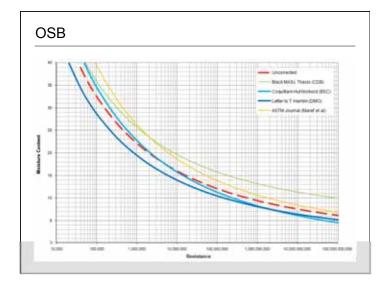


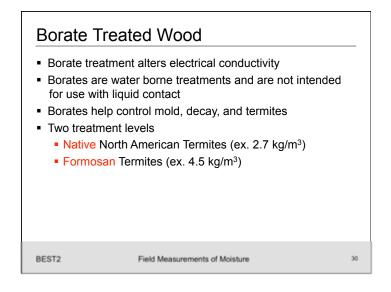


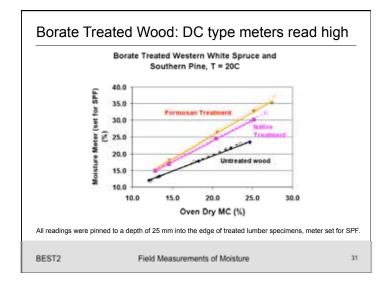


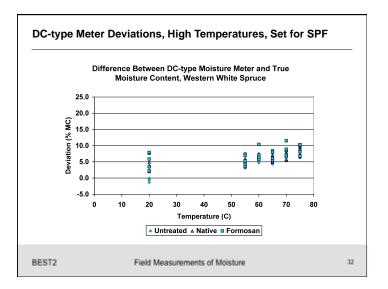


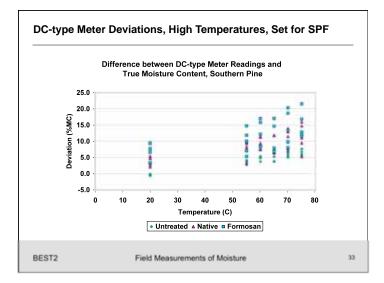






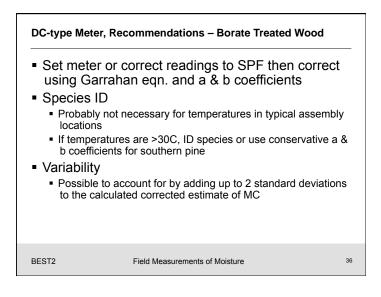


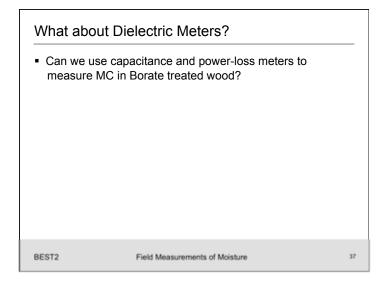


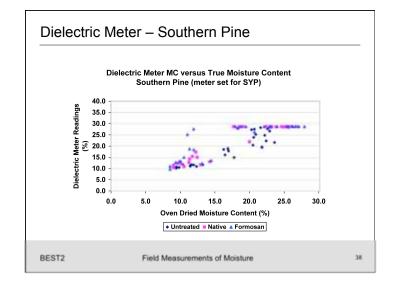


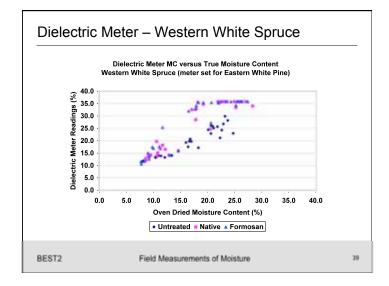
| Wider range of me Deviations can be large regular with high term | asurement was possible | |
|---|--|----|
| Similar enough at roo | spruce & southern pine be combined? om temperature , these two species appear to be different | |
| coefficients for the | nalysis was done to provide "a" and "b" Garrahan Eq. For both conventional or high temperatures. | |
| BEST2 F | ield Measurements of Moisture | 34 |

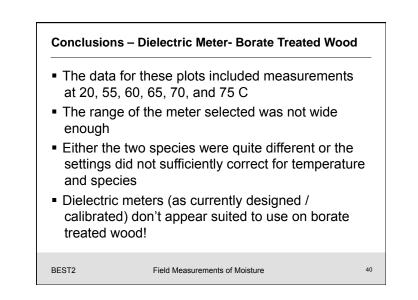
| Treatment | Temperature Species* Range | | Coefficients for Garrahan Equation | | Test Stdev | Test Max Deviation |
|-----------|-------------------------------|------|------------------------------------|--------|------------|-----------------------|
| | | °C | а | b | % MC | %MC |
| None | WWS and SP | < 30 | 0.961 | 0.621 | 0.3 | 0.5 |
| | wws | >30 | 0.974 | 0.863 | 0.3 | 0.4 |
| | SP | >30 | 0.903 | 1.410 | 0.3 | 0.5 |
| Native | WWS and SP | < 30 | 1.179 | 0.404 | 0.6 | 1.2 |
| | wws | >30 | 0.930 | 1.731 | 0.5 | 0.6 |
| | SP | >30 | 1.055 | 2.050 | 1.4 | 2.2 |
| Formosan | WWS and SP | < 30 | 1.338 | -1.597 | 0.7 | 1.1 |
| | wws | >30 | 1.008 | 1.166 | 0.4 | 0.6 |
| | SP | >30 | 1.228 P (Southern Pine) | 0.848 | 0.4 | 0.5 |

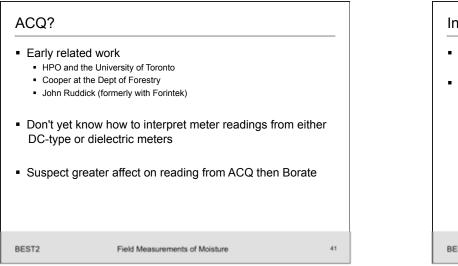


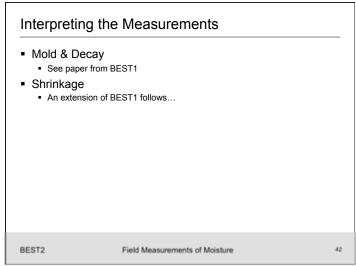


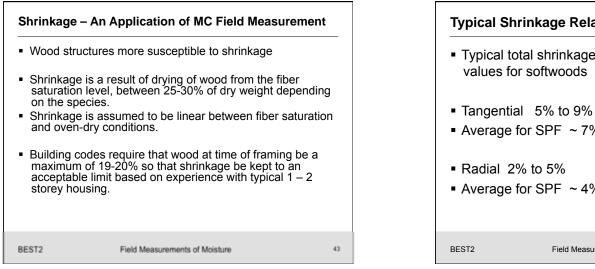


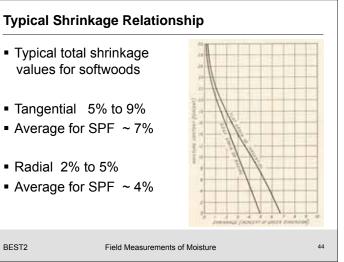


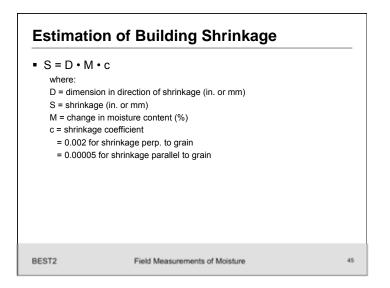


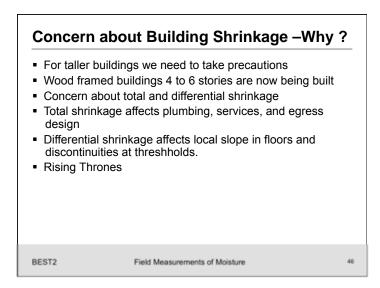


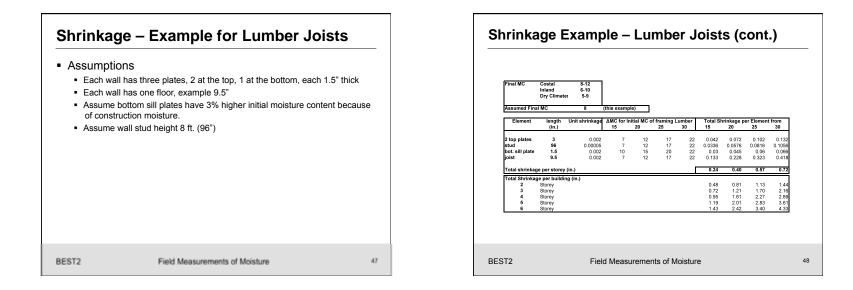






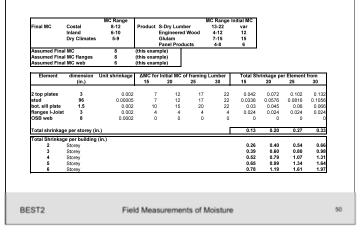






| • E • E • A • A | Imptions ach wall has three plates, 2 at the top, 1 at the bottom, each 1.5" thick ach wall has one floor joist, example 11" deep ach I=joist has 2 flanges, 1.5" thick. ssume bottom sill plates have 3% higher initial moisture content becau i construction moisture. ssume wall stud height 8 ft. (96") ssume initial and final MC conditions in example | se |
|--------------------------|---|----|
| BEST2 | Field Measurements of Moisture | 49 |

Shrinkage Example – Wood I-Joists (cont.)



Differential Shrinkage Platform construction. Desire to keep each floor level and flat. Differential shrinkage between the interior core and the enclosure to be avoided. Choice of materials. Don't mix steel columns in the interior with wood load bearing walls on perimeter. Minimize overall shrinkage by staging critical systems that would be affected with an eye out for moisture in the wood framing.

