

## 2009 WPCA - FirstEnergy Biomass Seminar

### WPCA Meeting: Hosted by FirstEnergy

**Thursday - December 3, 2009**

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|---------------|---|
| 7:30 - 8:15   | Registration  |
| 8:15 - 8:30   | <b>Welcome</b> by Doug Hartman, FE (WPCA VP) and Rich Staehle, WPCA Chairman  |
| 8:30 - 9:00   | <b>Biomass Logistics</b> by Dave Frederick, FE Fuels  |
| 9:00 - 10:00  | <b>Biomass Combustion Technology &amp; Boiler Efficiency Improvements</b> by Bill Stirgwolt, Babcock & Wilcox<br><i>(fuel characteristics, combustion, grate technology, BFB technology, co-firing)</i>   |
| 10:00 - 10:15 | Break   |
| 10:15 - 11:30 | <b>Biomass Handling (unloading, storage, reclaim, and conveying)</b> by Simon Shipp, Stock Equipment  |
| 11:30 - 12:15 | Lunch for all attendees   |
| 12:15 - 13:00 | <b>Impact of Biomass Combustion on the Backend</b> by John Knapik, GE Energy  |
| 13:00 - 14:00 | <b>Gas Flow / How to Improve It To Enhance ESP, Boiler, FGD, SCR, SNCR Performance</b><br>by Rob Mudry, Airflow Sciences  |
| 14:00 - 14:10 | Break   |
| 14:10 - 15:00 | <b>Control Equipment Efficiency Improvements &amp; Upgrades for Biomass</b><br>by Jesse Price, Southern Environmental Inc.  |
| 15:00 - 15:10 | Break   |
| 15:10 - 17:00 | <b>Biomass Panel: Primary Firing and Co-firing</b><br><i>Case Studies followed by discussion - Moderated by Alan Schempp, FE / Panelists: Nate White, Haldor Topsoe; Peter Struckmann, E.ON Engineering; Phil McKenzie, B&amp;W; Mark Ehrnschwender, Evonik</i> |
| 17:30         | <b>All attendees are invited to join the WPCA for dinner</b> <i>(please indicated if you plan to go to dinner when you register)</i>  |