

QUARTERLY PROGRESS REPORT
July 1 to September 30, 2001

PROJECT TITLE: Fate of CCA-Treated Wood

PRINCIPAL INVESTIGATOR: Dr. Helena Solo-Gabriele, Ph.D., P.E.

AFFILIATION: University of Miami, Dept. of Civil, Arch., and Environ. Engrg.

ASSOCIATE INVESTIGATOR: Dr. Timothy Townsend, Ph.D.

AFFILIATION: University of Florida, Dept. of Environ. Engrg. Sci., Solid & Haz. Wst. Prog.

COMPLETION DATE: December 31, 2001

“YEAR 4” Research
Title: Fate of CCA-Treated Wood
(April 1, 2000 to December 31, 2001)

Project Administration

1. The end date for this project was extended to December 31, 2001.

Research Activities

Leaching of Alternative-Chemical Treated Wood

1. Leaching experiments have been completed. Pending items for this project include the boron analysis of appropriate leachate samples and the write-up of an “analysis” section which puts the results into a broader context with respect to environmental impacts.
2. The methods chapter for the final report has been written. Kristin Stook has provided an updated version of her thesis which documents the results of this project. Pending is the “write-up” of the results section for the final report.

Arsenic Speciation in Groundwater Near Landfills

1. Arsenic speciation of groundwater near landfills has been completed. Results indicate that a significant fraction of the arsenic in the sample is “non-labile” and therefore cannot be further speciated using traditional arsenic speciation techniques. If time permits, a sample may be analyzed using and HPLC-ICP-MS which will help in further speciating the non-labile phase.

Information Dissemination

1. A TAG meeting was held on Monday, July 9th, 2001 in Sarasota, Florida. The meeting was attended by 43 individuals. The minutes of the meeting as well as copies of the Powerpoint presentations have been posted on the web.
2. The manuscript titled, “Characteristics of CCA-Treated Wood Ash” has been accepted for publication within the *Journal of Hazardous Materials*.
3. Helena Solo-Gabriele provided a presentation titled, “Environmental Impacts of CCA-Treated Wood” before the FLERA (Florida Local Environmental Resource Agency) Conference held in Tampa, FL. The meeting was held on September 25th.
4. Helena Solo-Gabriele provided a presentation titled, “Public Health Aspects Associate with CCA-Treated Wood” during a seminar at the University of Miami School of Medicine. The seminar was held on September 5, 2001.

5. Helena Solo-Gabriele provided a presentation titled, "Strategies to Better Manage CCA-Treated Wood Upon Disposal" before the Florida Sunshine Chapter SWANA (Solid Waste Association of North America) Conference held in Ft. Lauderdale, FL. The meeting was held on August 2, 2001.
6. The web site, www.ccaresearch.org continues to be updated.

"YEAR 5" Research

Title: Treated Wood, Evaluating the Toxicity During Disposal
(January 1, 2000 to June 30, 2002)

Project Administration

1. The contract for this project has been executed between the FCSHWM and U.Miami. The subcontract between U.Miami and U.Florida (Townsend) has been executed and the purchase order number for the sub-contract has been issued by U.Miami.

Research Activities

1. All toxicity tests have been completed except for the yeast assay. The methods section has been drafted for the final report.
2. The lysimeters have been filled. Sample bottles, shipping boxes, and shipping labels have been provided to UF for shipping of the samples. Leachate should be generated shortly.
3. Leaching experiments (TCLP and SPLP) have been completed on unburned wood samples. These leachates have been analyzed for arsenic and chromium species.
4. pH stat tests have been conducted using new and weathered wood samples. These samples are currently being analyzed for arsenic species.

"YEAR 6" Research

Title: Environmental Impacts of CCA-Treated Wood
(September 1, 2001 to November 30, 2002)

Project Administration

1. The contract for this project is currently being reviewed by the University of Miami Office of Research.

Research Activities

1. Leaching experiments (TCLP and SPLP) have been completed on CCA-treated wood ash samples. These leachates have been analyzed for arsenic and chromium species.

COURTESY REPORT ON THE INNOVATIVE RECYCLING GRANT

Title: On-Line Sorting Technology for CCA-Treated Wood
(June 13, 2000 to October 12, 2001)

1. The report for this project has been finalized. A paper copy of this report will be sent to the FCSHWM office shortly. A digital copy in pdf format has been posted at the following web site: http://www.eng.miami.edu/~hmsolo/sarasota/index_sara.htm