

QUARTERLY PROGRESS REPORT
October 1, 2005 to December 31, 2005

PROJECT TITLE: Arsenic-Specific Stain for Identifying 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., P.E.

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

COMPLETION DATE: February 28, 2006

RCRA Sponsored Project

Title: Management and Disposal Options for CCA-Treated Wood Waste
(July 1, 2003 to June 30, 2003)

Project Administration

1. The final report for this project has been drafted. The title of the report is, "Management and Disposal Options for CCA-Treated Wood Waste." This report will be revised in the near future and will include information obtained from the FCES conference held February 2004.

"YEAR 8" Research

Title: Environmental Impacts of CCA Contaminated Mulch
(July 1, 2003 to May 15, 2005)

Research Activities

1. The final report has been completed and has been posted at <http://www.ccaresearch.org/publications.htm>. More specifically the main text is available at http://www.ccaresearch.org/final_mulch_text_m23.pdf and the appendices are available at http://www.ccaresearch.org/final_mulch_appendix_m23.pdf

"YEAR 9" Research

Title: Arsenic-Specific Stain for Identifying CCA-Treated Wood
(July 1, 2004 to October 31, 2005)

Project Administration

1. The main contract for this project was executed during the last reporting period. A subcontract was drafted between U.Miami and U.Florida. There were problems with the subcontract and the Center is currently working on reducing the amount of the contact by the subcontract amount (\$10,000). These funds will then be provided to Dr. Townsend of U.Florida.
2. A patent has been filed by the University of Miami as a result of this project. The patent focuses on the formulation and procedures associated with the arsenic-specific stain developed through this research.
3. The draft of the final report has been posted at <http://www.ccaresearch.org/publications.htm>. More specifically the main text is available at http://www.ccaresearch.org/Text_stain.pdf and the appendices are available at http://www.ccaresearch.org/Appendices_Stain.pdf

Information Dissemination

1. The web site: www.ccaresearch.org continues to be updated.
2. Helena Solo-Gabriele provided a presentation before the National Meeting of the Soil and Mulch Council held in Washington D.C. The title of her presentation was, "Recycling Potential of Wood Waste."
3. Tim Townsend and Helena Solo-Gabriele participated in the FDEP sponsored Joint CCA TAG Meeting and 62-701 Rule Workshop which was held in Orlando on November 17, 2005.
4. Helena Solo-Gabriele implemented a high school outreach activity focusing on treated wood on October 21, 2005. The 1 and ½ hour activity included a presentation focusing on treated wood, a video, and a hands-on activity using the PAN indicator stain. The high school activity was hosted by Ms. Lisette Icaza a science teacher at Miami Springs High School. The activity was presented before Mrs. Icaza's AP Biology, regular Biology, and an anatomy classes.

COURTESY REPORT For Complimentary Studies

Project Administration

1. Tim Townsend and Helena Solo-Gabriele continue to work on an edited book titled, "Environmental Impacts of Preservative-Treated Wood." All of the chapters have been drafted and sent to CRC Press for page formatting.
2. Helena Solo-Gabriele and Tim Townsend continue to work on the project funded by the Town of Medley and the FDEP Innovative Recycling Grants Program. The title of the proposal is, "Augmented Sorting of Recovered Wood Waste Using Stain and X-ray Technologies." The final report for this project is currently being written.
3. Helena Solo-Gabriele and Martin Grosell of the University of Miami Marine School and Yong Cai of Florida International University are collaborating on a project focusing on toxicity testing of leachate from wood treated with chromated copper arsenate (CCA). This project will evaluate the effects of salinity on the toxicity of CCA-treated wood to a fish species.