Dear Carol P. Harden,

Congratulations on a successful submission of your abstract to the 2007 Annual Meeting, San Francisco, California. Your Program Identification Number (PIN) is: 00125297. Your abstract details are as follows:

**Title:** NSF GK-12 Research Collaboration Between University of Tennessee and Carpenters Middle School in Blount County, Tennessee

**Keywords:** education-graduate, education-K-12, environmental history

**Type:** Illustrated Paper

**Abstract:** Two University of Tennessee graduate NSF GK-12 fellows have collaborated with two Carpenters Middle School teachers during the 2005-2006 year, with middle school students participating in ongoing research projects led by the graduate fellows and science teachers. This poster highlights four research projects developed and conducted with middle school students. First, Carpenters Middle School students are inventorying herbaceous biodiversity within the campus wetland and natural area, collecting, identifying, and preserving specimens for inclusion within a school herbarium. This project has introduced the students to plant identification and herbarium collection skills and has resulted in a herbarium at the school. Second, students have been analyzing the radial growth of trees to document forest stand age and recruitment patterns, and to quantify the disturbance regime of Ijams Nature Reserve. Students are also comparing radial growth changes with temperature and precipitation records for the area over the past century. Third, we have begun an erosion study at several locations on the school property. Students use erosion pins to observe and quantify erosion-caused changes in the landscape, and they develop hypotheses about differences in erosion rates between the testing locations. Fourth, students are conducting water quality research using field test kits on samples collected from a local stream. Students test the water samples and maintain data in an ongoing spreadsheet. The projects have introduced students to basic lab equipment and practices and to procedures for acquiring and maintaining data sets for future analysis.

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**Topics:** Environment
Geography Education
Global Change

**A/V Equipment:** LCD Projector

If you have checked optional items that require a fee, you will be sent an invoice. All items must be paid in full prior to the meeting.

I understand what equipment is provided in each paper session room and that I am responsible for bringing any equipment that I need and that is not provided, such as my laptop or a laser pointer.

**Notes:** I understand that there will be a 4’x8’ posterboard for me to use, but that there will be no other audio visual equipment available.

You are responsible for the content of your abstract, title and authors, please review your abstract and make necessary edits. You may return to the submission console to edit your abstract and/or submit as session if you wish.

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