Meeting: 998, Houston, Texas, SS 1A, Special Session on Graph Theory and Combinatorics

998-05-406 **Ermelinda DeLaVina*** (delavinae@uhd.edu). *Applications of the Conjecture-Making Program Graffiti.pc.*

Graffiti.pc is a graph theoretical conjecture making program whose creation was inspired by the well known program of Siemion Fajtlowicz, Graffiti. In addition to a general description of the principles of the program, two applications are presented. First, we discuss Graffiti.pc's conjectured relations on the bipartite number, forest number and path number (which are maximum orders of specific induced substructures of a graph) in terms of other graph invariants. Second, we note past, present and future undergraduate research applications. (Received March 02, 2004)