1035-Z1-1762   **Owen D Byer** and **Deirdre Longacher Smeltzer*** (`smeltzed@emu.edu`), 1200 Park Road, Harrisonburg, VA 22802. *Exploring Loci with Dynamic Geometry Software.*

Although the notion of a locus is familiar, it is not a prominent part of a typical geometry course. Constructing non-trivial loci by hand can be tedius. Making use of dynamic geometry software not only allows students to easily investigate the locus of a given property, but also often provides insight into how to proceed with proof. We will utilize Geometer's Sketchpad to illustrate several examples of the sometimes unexpected results. (Received September 20, 2007)