1047-51-287 **Thomas F. Banchoff\*** (`tfb@cs.brown.edu`), Department of Mathematics, 151 Thayer St, Providence, RI 2912, and **Michael Schwarz**. *Interactive Geometry Illustrations for Teaching, Research, and Publication.* Preliminary report.

This report highlights collaborative modification of our demonstration software for producing quality illustrations, both static and dynamic. Static examples include illustrations for all the 3-D topics in Marvin Greenberg's book, "Euclidean and Non-Euclidean Geometry" and the multivariable calculus text by Jon Rogawski at UCLA. Examples of dynamic illustrations include multivariable calculus worksheets (with Michael May), applets for differential geometry and physics (with Steve Lovett) and "Interactive Geometry and Critical Points" in the Electronic Journal of Mathematics and Technology. (Received January 30, 2009)