1096-VM-2386 **Benjamin H DeMeo*** (30howland@gmail.com), **Chaim Goodman-Strauss**, **Matthew Cole** and **Diana Davis**. *Computer Models of Negatively-Curved Surfaces.* Preliminary report.

Using only paper, scissors, and tape, it's easy to construct frameworks for objects that, in theory, should have constant negative curvature. On the other hand, Hilbert's theorem places heavy restrictions on such surfaces. In an attempt to see where Hilbert's theorem fails, we model the behavior of these paper-strip constructions computationally. Only basic familiarity with multivariable calculus is assumed. (Received September 17, 2013)