1088-52-142Undine Leopold* (leopold.u@husky.neu.edu). Vertex-Transitive Polyhedra in
3-Space. Preliminary report.

In addition to regular and chiral polyhedra, which have been extensively studied, the vertex-transitive polyhedra (uniform in the combinatorial sense) of higher genus also present an attractive and worthwile challenge. While the definition is combinatorial, the question which I will address is that of realization in Euclidean 3-space as a symmetric, nonselfintersecting polyhedron in the more classical sense (with flat, non-selfintersecting faces). In this talk, I will present an overview of the topic as well as work in progress. (Received February 07, 2013)