1017-52-107   **Gordon I Williams*** (`gwilliams@ursinus.edu`), P.O. Box 1000, 601 Main St., Collegeville, PA 19426-1000, and **Michael Hartley**, PA. *Abstract Archimedean Polyhedra - Preliminary Report.* Preliminary report.

Any polytope may be represented as a quotient of a regular abstract polytope P by a subgroup of the automorphism group of P. While the existence of such representations is reasonably well known, what such representations have to tell us about particular classes of polytopes is not well understood. In the current work, we are constructing such representations for the familiar Archimedean polyhedra. This talk will present preliminary results of this investigation and discuss some of the interesting questions they suggest about this type of representation of uniform and other non-regular polytopes.

This is joint work with Michael Hartley of the School of CS & IT, University of Nottingham (Malaysia Campus) (Received February 16, 2006)