

**Meeting:** 999, Nashville, Tennessee, SS 10A, Special Session on Geometry of Hyperbolic Manifolds

999-57-191            **Brent Everitt, John Ratcliffe** and **Steven Tschantz\*** (Steven.Tschantz@Vanderbilt.edu),  
Dept. of Math, Vanderbilt University, Nashville, TN 37240. *The Smallest Hyperbolic 6-Manifolds.*  
By gluing together copies of an all-right angled Coxeter polytope and taking the quotient by a free action, an open hyperbolic 6-manifold with Euler characteristic -1 is constructed. This gives an example of a complete hyperbolic 6-manifold of minimal volume. (Received August 23, 2004)