1056-Z1-1195 **Joshua Cooper**, **John Lenz**, **Timothy LeSaulnier**, **Paul Wenger***
(pwenger2@illinois.edu) and **Douglas B. West**. *Uniquely H-Saturated Graphs.*

Given two graphs G and H, we say that G is *H-saturated* if G does not contain H as a subgraph, but the addition of any edge to G completes a copy of H. Furthermore, G is *uniquely H-saturated* if G does not contain H and the addition of any edge completes exactly one copy of H. We determine all uniquely H-saturated graphs when H is a path and when H is a cycle with at most four vertices. In each such case, there are only finitely many uniquely H-saturated graphs. (Received September 21, 2009)