1016-51-204Robert Huff\* (rohuff@indiana.edu), Indiana University, Department of Mathematics,<br/>Bloomington, IN 47405. Soap films spanning rectangular prisms. Preliminary report.

We consider soap films spanning rectangular prisms with regular n-gon bases. As the number of edges n varies, we will discover changes in the qualitative properties of the spanning soap films as well as a change in the number of spanning soap films whose existence we can prove. (Received February 13, 2006)