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H. Reed Ogrosky* (hrogrosky@vcu.edu), 1015 Floyd Ave., P.O. Box 842014, Richmond, VA 23284-2014, and **Roberto Camassa** and **Jeffrey Olander**. *Modeling air-driven film flows inside a tube.*

The flow of a liquid film along a curved surface arises in both biological and engineering problems. Asymptotic models consisting of a single evolution equation are frequently used to describe such flows in idealized settings. In this talk, I will discuss a series of such models developed recently for the flow of a viscous film lining the inside of a tube. These models capture many features observed in experiments including the growth and saturation of free-surface waves, the onset of liquid plug formation, and the topology of streamlines within the film. (Received January 02, 2017)