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**J. Douglas Wright\*** (jdoug@math.drexel.edu). *Overhanging traveling gravity-capillary waves.*

We present a formulation of the governing equations for traveling gravity-capillary waves (in 2D) which allows for the possibility that the fluid interface is not a graph over the horizontal coordinate. In particular the formulation allows for solutions which “overhang.” We analyze the system using both local and global bifurcation methods. One consequence is that we can perturb the pure capillary overhanging waves of Crapper (which are, remarkably, given by an explicit formula) and show they persist if gravity is included. This work is joint with B. Akers, D. Ambrose, and W. Strauss. (Received September 22, 2015)