1014-76-1750   **Jeongwhan Choi*** (`jchoi@korea.ac.kr`), Department of Mathmatics, Korea University, Sungbukgu Anamdong 5-1, 136-701 Seoul, South Korea, and **W.S. Bae**, Dept. of Math., Korea University, sungbukgu Anamdong 5-1, 135-701 Seoul, South Korea. *Symmetric waves of a tow layer fluid over an obstruction.*

We study two dimensional capillary-gravity waves on the interface between two immiscible, inviscid and incompressible fluids of different densities bounded by two rigid boundaries with small compact support. A forced modified K-dV equation is derived as a model equation without assuming that the fluid is of constant depth at far upstream. Various new types of steady symmetric waves are obtained numerically. (Received September 29, 2005)