From Tom O’Neil:

Archimedes Principle of Buoyancy states that an object submerged in a fluid is buoyed up by a force equal to the weight of the fluid displaced. A sphere of diameter 6 inches is made of a material of density 50 pounds per cubic foot. The sphere is lowered into a bath of oil which has density 54 pounds per cubic foot. Determine how deep the floating ball sits in the oil.

Solutions should be submitted to Morgan Sherman:

Dept. of Mathematics, Cal Poly
Email: sherman1 -AT- calpoly.edu
Office: bldg 25 room 310

before next Thursday. Those with correct and complete solutions will have their names listed on the puzzle’s web site (see below) as well as in next week’s email announcement. Anybody is welcome to make a submission.

http://www.calpoly.edu/˜sherman1/puzzleoftheweek