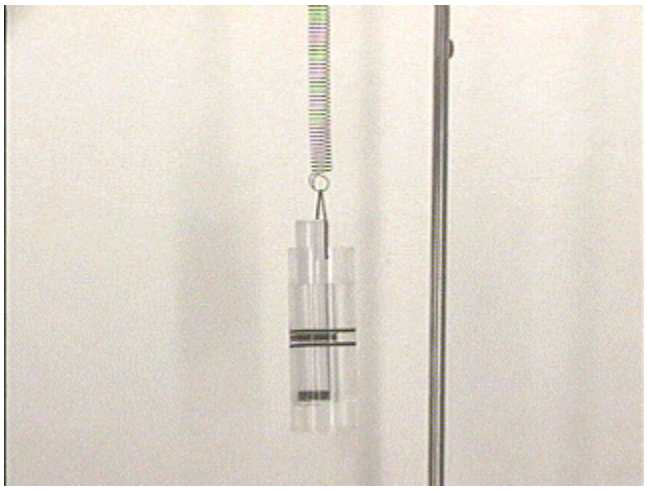
Answer #70

The answer is (c): the floater will remain in the same position with respect to the water bath as the motion quickly stops, as can be seen in an mpeg video by clicking your mouse on the photograph below.



This happens for the same reason that the floater remains at the same position in the water bath as the water container oscillates. Even when the motion is stopped short the ratio of weight density between the water bath and the floater remains constant!

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For questions and comments regarding the *Question of the Week* contact
Dr. Richard E. Berg by e-mail or using phone number or regular mail address
given on the Lecture-Demonstration Home Page.