

Question #166

A wineglass and an olive, shown in the three photographs below, will be used in this question of the week. The question is how to get the olive into the wineglass without touching the olive.



Three possibilities are shown in the three photographs. Perhaps you should position the wineglass as shown in the photograph at the left and use anti-gravitational levitation to lift the olive into the glass. On the other hand, perhaps you should position the wineglass as shown in the center photograph and use Bernoulli's principle to move the olive into the wineglass. A third possibility, shown in the photograph at the right, is to position the wineglass as shown and use centrifugal force to pull the olive into the wineglass. Or perhaps there is another better way.

The way to get the olive into the wineglass without touching it is to use:

- (a) levitation.
- (b) Bernoulli's principle.
- (c) centrifugal force.
- (d) other.

Click here for [Answer #166](#) after December 1, 2003.

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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](#).