

Question #172

The photograph below shows two bottles, one containing blue water, joined together at their necks so that water can flow between them. The question this week is to determine the fastest way to get the water from one bottle into the other.



There are three possibilities that I would like to put forward. First, just turn the bottles upside down and let the water flow. Second, turn the bottles at an angle so that water can flow from one to the other but the top of the passage between the bottles will be air flowing in the opposite direction. Third might be some other complicated mechanism using Bernoulli's principle or centrifugal force.

The quickest way to make the water flow between the bottles is to:

- (a) flip them by 180° .
- (b) rotate them by more than 90° but less than 180° .
- (c) other.

Click here for [Answer #172](#) after January 26, 2004.

[Question of the Week](#)

[Outreach Index Page](#)

[Lecture-Demonstration Home Page](#)



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](#).