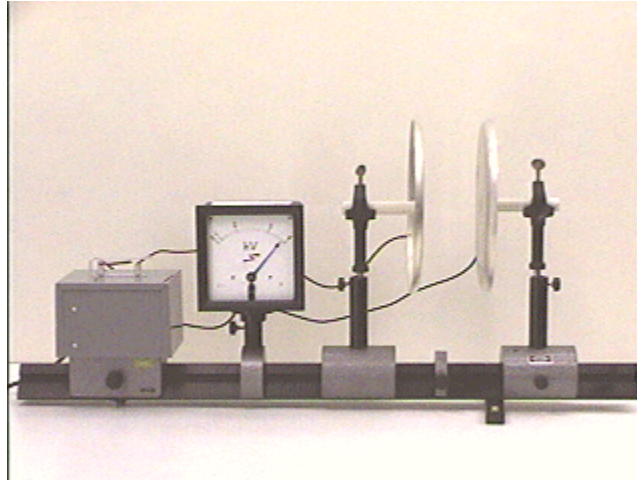


## Question #125

The photograph below shows two charged metal pizza pans that have been charged with equal and opposite charges and act as a parallel plate capacitor. The electrostatic voltmeter measures the voltage across the plates.



Suppose that the plates are charged, and the voltmeter reads some voltage " $V_0$ ." When the plates are moved apart, what, if anything will happen to the voltage?

When the plates are pulled apart, the voltage will:

- (a) become greater than  $V_0$ .
- (b) become less than  $V_0$ .
- (c) remain the same.

Click here for [Answer #125](#) after October 21, 2002.

---

[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](#).