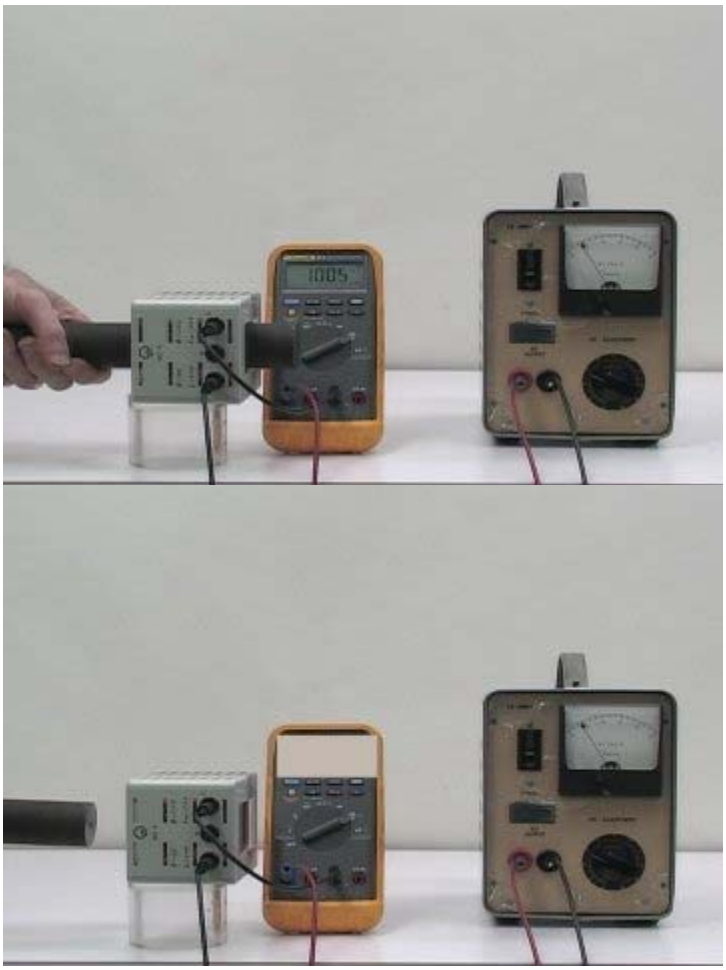
Question #282

This is a follow-up question to Question #281

Dan is holding the large iron core that is positioned in a 500-turn coil. The DC current in the coil is displayed by the digital ammemeter, as seen.



Dan will now quickly remove the core from the coil, as seen in the photograph at the right. What does the current in the coil do when Dan removes the core?

The current in the coil will:

- (a) go up and stay up.
- (b) go up and then return to its original value.
- (c) remain the same.
- (d) go down and then return to its original value.
- (e) go down and stay down.

Click here for Answer #282 after April 16, 2007.

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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.