Lecture 22

Pre-Lecture Preparation (due within the first 5 minutes of class):

- Read pages 915 – 918 in the textbook (Serway 9th edition) and do the following:
  1) Quick Quizzes: 30.5
  2) Book Objective Questions (p. 923): 1 and 12
  3) Book Problems (p. 925): 41

Goals for the Lecture:

1) Understand what the magnetic field looks like in and around a solenoid, including what makes an ideal solenoid
2) Be able to use Ampere's Law to calculate the magnetic field inside an ideal solenoid
3) Understand Guess's Law for Magnetism, that there are no magnetic monopoles (at least, none have been found in nature)

Post-Lecture Study Guide (I do not collect this):

Review the worksheets or other lecture material within 24 hours (preferably the same day as the lecture) to reinforce the ideas. Review the pre-lecture questions to make sure you understand them.

Do problems:

Ch 30: Conceptual Questions: 1

Ch 30: Objective Questions: 14 and 15

Ch 30: Problems: 43

Continue with the additional recommended study problems from chapter 30