**Part C: Simulations**
**To get to the correct website, Google "Phet Physics Online" it will be the first link.**
**PART 1: JOHN TRAVOLTAGE!**

**C.1** What do the little negative signs represent?

**C.2** How do you get the little negative signs to fill up in Travolta's foot? What is the name of this process?

**C.3** Do electrons attract or repel each other? When Travolta fills with electrons, what do they want to do?

**C.4** What causes an electrostatic discharge (a shock)?

**C.5** How can you make Travolta fill up with electrons without incurring any electrostatic discharge?

**C.6** How can you make electrostatic discharge happen as soon as the electrons enter Travolta?

**PART 2: BALLOONS AND STATIC ELECTRICITY**

**C.7** What do the positive signs represent?

**C.8** What do the negative signs represent?

**C.9** Which of the two can move, negative or positive signs? Why?

**C.10** Rub the balloon against the sweater. What happens to electrons?

**C.11** What do we call this process after they balloon is rubbed against he sweater?

**C.12** The balloon plays the role of the
A) PVC pipe
B) rabbit fur

**C.13** The sweater plays the role of the:
A) PVC pipe
B) rabbit fur

**C.14** After the balloon rubs against the sweater, the balloon is ___negative/positive___. The sweater is ___negative/positive___. Because the charges are ___like/opposite___, the balloon and sweater ___attract/repel___.

**C.15** When the balloon is *charged* and goes near the wall, what happens to the electrons on the wall? Why?

**C.16** Is the balloon attracted or repelled from the wall? Why?

**C.17** What did we call the process that takes place in the wall?

**C.18** Switch to the mode with *two* balloons, and figure out a way to get them to repel *each other*. Explain here: