

**Chem 155 Homework #8** Due at the start of class on Mon. Feb 28

Reading: Chapter 16

**Chapter 15 Problems:**

15.38

15.44

15.46

15.54

15.55

15.60

15.62

15.74

15.86 a)

15.93

**Chapter 16 Problems:**

16.2

16.4

16.6

**Additional Problems:**

- 1) Use the radial probability distribution to calculate the most probable distance of finding an electron from the nucleus of a hydrogen atom. Compare with the Bohr model of the atom.
- 2) Find an image of a *single molecule* taken with a Scanning Tunneling Microscope that was published in a scientific journal. Print it out the figure, cite the reference.