## Due April 15, 1999

- 1. 17.12 (problem, Atkins)
- 2. 17.21 (Additional problems, Atkins)
- 3. Which molecule do you expect to have the lowest IP? The highest? ethylene, butadiene, allyl radical.
- 4. Sketch the proton NMR spectrum of dimethyl ether. State any assumptions that you made.
- 5. Predict the appearance of the ESR spectrum of the allyl radical.