

**Physics 14                      Thermal Physics                      Spring 2005**

**Assignment #5                      -                      Due Tuesday 2/22/05**

**Problem sessions** : Sunday afternoon at 3:00PM in Science Center 113

**Lecture Notes** : Boccio --- pages 139-178

**Textbook readings** : Schroeder - chapter 5 pages 149-186

**Textbook problems** :

- 5.01 - all the thermodynamic quantities
- 5.13 - thermal expansion coefficient at  $T=0$
- 5.27 - graphite
- 5.32 - properties of ice
- 5.35 - vapor pressure equation
- 5.42 - relative humidity and the dew point
- 5.51 - reduced variables and the van der Waals gas
- 5.55 - van der Waals gas near the critical point

**Examination #1: Thermodynamics**

**CLOSED BOOK - Thermodynamics                      Room L32**

- Tuesday Evening                      2/22/05                      8:00-10:00PM
- OR
- Wednesday Evening                      2/23/05                      8:00-10:00PM

For those of you taking Physics 50 lab at the same times, you can take the exam on the day that you are not in Physics 50 lab.

If both time slots are not possible, we can make a special arrangement.