

Sintering Oven

MSE 360 - Fall 2009

Revised: 9/3/2009

- 1) Use one of two 1700°C Lindberg Furnaces
- 2) Lift door gently upwards
- 3) Rest samples on alumina brick located in furnace.
- 4) Close the oven door.
- 5) Turn the power on by flipping the black switch.
- 6) Program the oven using the **P** button and the up/down arrows:
 - a. P_{r1} is the heating ramp rate = 5°/min
 - b. P_{l1} is the hold temperature = 1320°C
 - c. P_{d1} is the hot dwell time = 0.5-3 hours
 - d. P_{r2} is the cooling rate = 5°/min
 - e. P_{l2} is the cold temperature = 70°C
 - f. P_{d2} is the cold dwell time = end (press down repeatedly until it reads 'end')
- 7) Start the program with the **Run/Hold** button