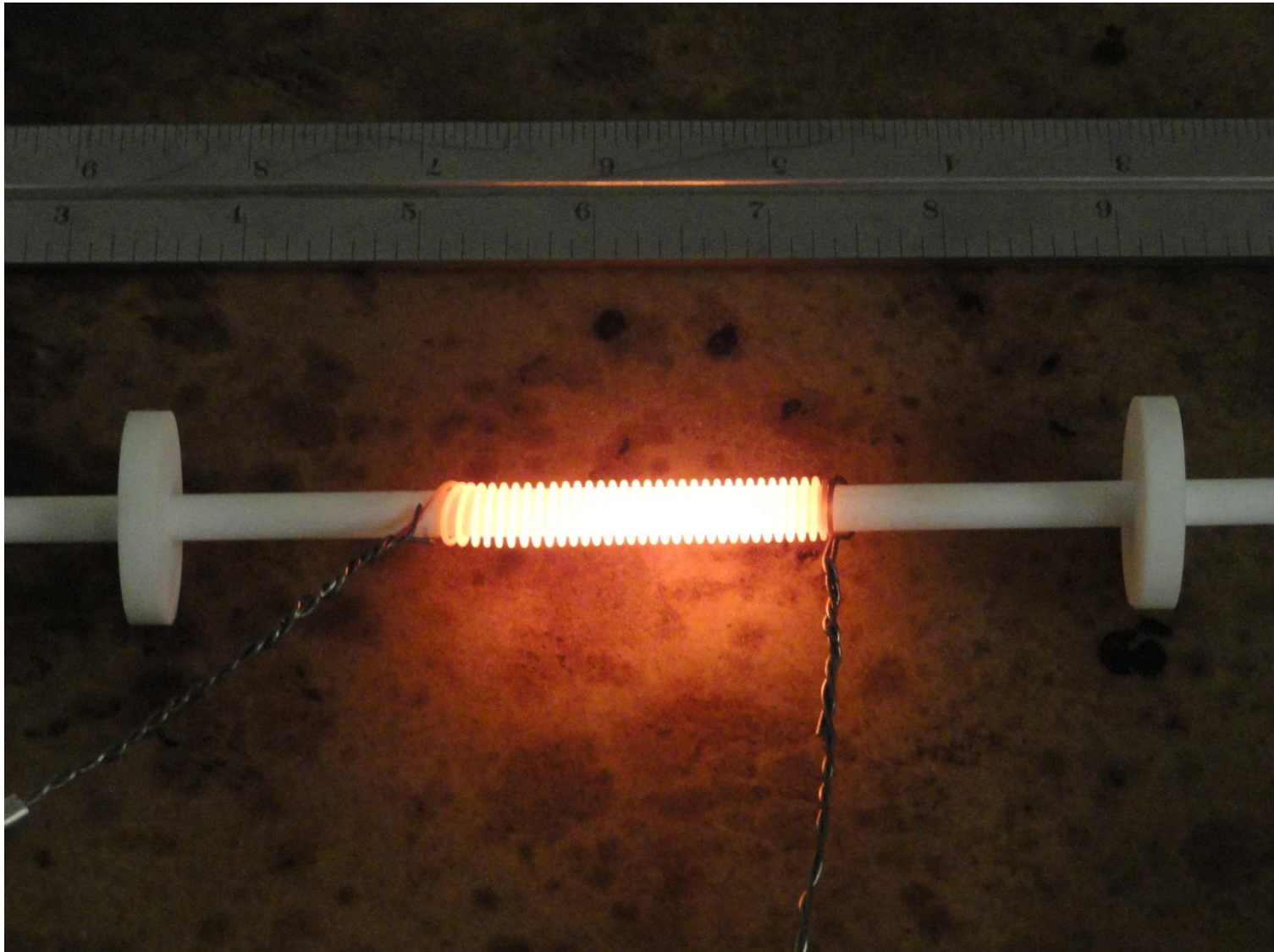
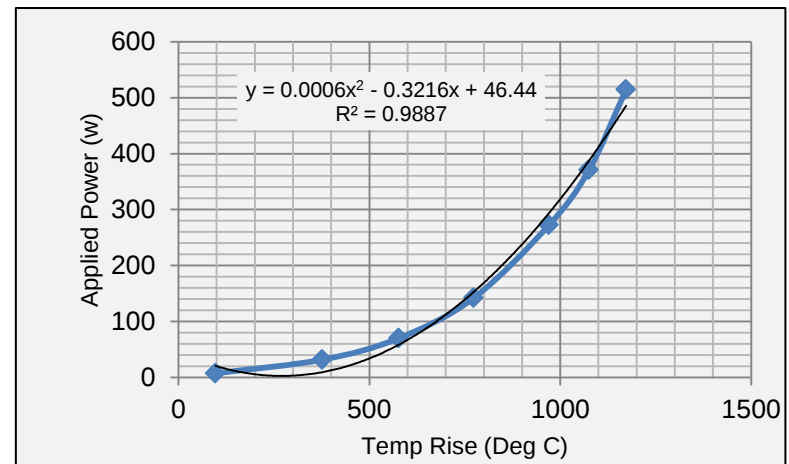
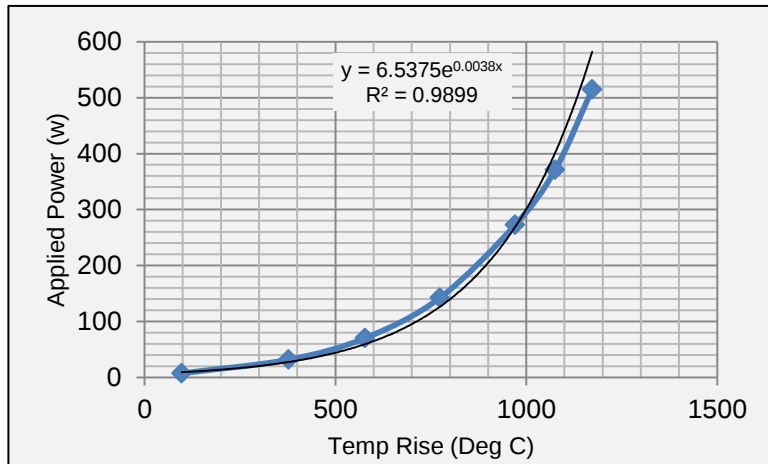


Kanthal Heating Element on Alumina Tube



Power vs. Temp Rise Raw Data for Previous Configuration

Temp	Vhtr	Ihtr	Phtr	Temp rise
119.5	4.99	1.5	7.485	96.8
399.3	9.54	3.34	31.8636	376.6
599.4	14.19	4.94	70.0986	576.7
795.9	19.87	7.15	142.0705	773.2
993.1	27.51	9.9	272.349	970.4
1098	32.09	11.55	370.6395	1075.3
1195	37.56	13.69	514.1964	1172.3



- One would expect a 2nd degree polynomial fit to be the best match, but temperature dependent convection effects come into play
- In a linearized airflow calorimeter, power vs. temp rise is almost a perfect linear fit (see next foil)

Calorimeter Calibration with Empty Cell

