Chemical Vapor Deposition Required Data

Due one week after experiment (individually to section TA, "representative example" for inter-group exchange). Include as a heading: your name, assigned group number, names of group members, and dates experiment was performed

Provide statistical analyses when appropriate (e.g. 95% confidence interval, standard deviation, error bars, etc.). Briefly justify your chosen method of analysis for each application.

- 1. Tabulate rate, temperatures, flow rates, time, number of cycles
- 2. Plot natural log of reaction rate versus 1/[chiller (substrate) temperature]
- 3. Plot natural log of reaction rate versus 1/[filament temperature] for provided data
- 4. **Determine** effects of adjusted variables
- 5. **Calculate** the apparent activation energies for polymerization reaction and compare to literature values.