# CHEM 423/424 Spring 2016 Laboratory Schedule

**Group Members**

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**Teaching Assistants**

- **Expt. 1** Enthalpies of combustion and formation of naphthalene
- **Expt. 2** Heat of vaporization of cyclohexane
- **Expt. 3** Stern-Volmer quenching kinetics by laser induced fluorescence
- **Expt. 4** Heat capacity ratios for gases
- **Expt. 5** Chemical equilibria in solution
- **Expt. 6** Kinetic salt effect in the reaction of persulfate ion with I-
- **Expt. 7** Molecular dipole moments in solution
- **Expt. 8** Electronic spectra of conjugated dyes
- **Expt. 9** Vibrational spectroscopy of CO and SO2
- **Expt. 10** Vibronic spectroscopy of Br2 and I2
- **Expt. 11** Computational chemistry
- **Expt. 12** Scanning tunneling microscopy

**NOTE:** Second assigned lab days for each experiment are "as needed". Standard reports due one week after experiment is actually finished.