

Instrumental Analysis**Problem Set 5—due Wednesday, October 23, 2002 (note postponement)**

Lasers are nearly ubiquitous in chemical research today. Your task is to find a paper in the recent chemical literature involving lasers, and in no more than two word-processed pages, answer the following questions:

- (1) What was the scientific question being addressed?
- (2) What role did lasers play in the experiment, and why was a laser used instead of a conventional light source?
- (3) What were the key results and conclusions from the study?

You should turn in a copy of the article along with your summary.

You may make use of any chemistry journal or rigorous general-interest journal (such as *Science* or *Nature*). Particularly good sources of articles include the *Journal of the American Chemical Society*, the *Journal of Physical Chemistry (A and B)*, *Environmental Science and Technology*, and *Analytical Chemistry*. The College has web subscriptions to each of these American Chemistry Society journals.

Another twist: You will be writing not only for my consumption, but also for that of your classmates. I will make copies of each of your papers and distribute them to the rest of the class. In addition, part of your next test will include questions on these summaries. So please strive for lucid, insightful writing!

This problem set will count double towards your cumulative homework score.