

**Chem 572 Course, Summer 2006**

THINGS TO BRING WITH YOU TO “Weird Science”



TAKE AIM!

1. A favorite demonstration, lab and/or a presentation of a classroom teaching tip you would like to share with the other participants—plan for about 10 to 12 minutes. Please bring 40 copies of your presentation with you. The write-up should include:

- A. Title.
- B. Name, address, and email of presenter in case people have questions.
- C. Object or purpose of demonstration and where it fits.
- D. Chemicals Needed.

This section should contain the names and formulas of the compounds, the concentrations of any solutions, and directions for preparing sufficient solution for the demonstration.

Example: 6% Hydrogen peroxide: Dilute 100 ml of 30% H<sub>2</sub>O<sub>2</sub> to 500 mL with distilled water.

- E. Apparatus needed.

List all apparatus required for the demonstration.

Include numbers of items and sizes needed.

Example:       2 500-ml Erlenmeyer flasks  
                  2 Rubber stoppers to fit 500-mL Erlenmeyer flasks

- F. Safety Precautions.

List safety hazards associated with chemicals or equipment used. See Flinn Cat.

- G. Disposal.

List method of safe disposal for materials or mixtures.

- H. Procedure.

Give the clear stepwise procedure for the demonstration. Include diagrams of the set-up when necessary.

- I. Discussion.

Tell the chemistry and principles involved in the demonstration of the procedure, which may illustrate other aspects, or applications of the demonstration.

- J. References.

List references you actually used or the book you obtained the demo. If you got the idea from another person, workshop, etc. give credit if possible.

***All demos must be cleared with the staff before being presented.***

**IF POSSIBLE, BRING YOUR OWN EQUIPMENT AND MATERIALS FOR THE PRESENTATION.**

2. Safety goggles and a lab coat or apron.

3. A graphing calculator

4. Two bottles to silver and copper plate

5. Any videos, CD's, CD-ROM's, DVD's, web-sites or teaching software you find useful and that others may be interested in viewing or trying out. During the week you can share these materials with others and explain why you like them.

6. Any good ideas to share! Bring a short teaching tip to share between demos while someone else is setting up.