Classroom Demonstrations

3 of 8 participants in this group do demos regularlybut most see some value in doing this

- Rob Britton Simon Fraser U
 Manzar Saberi G MacEwan
- Ashley Causton U Calgary
- Dennis Hall U Alberta
- Fraser Hof U Victoria

- Stephen Twa NAIT
- John Vederas U Alberta
- Andrew Wee U Regina

Classroom Demonstrations

- Pros Grab attention, more immediate than video
 - Stimulate interest in subject
 - Raise energy level in class
 - Adaptable to different lecture styles & sizes

Cons

- Take class time, preparation time
- Relevance to subject matter can be problematic
- Safety & liability, facility & ventilation limitations
- May often require assistant

Classroom Demonstrations - Scope

Reactions: fires & explosions, colour changes etc.

Models & samples that are shown & distributed

Classroom performance systems (CPS) or I-Click

Other audiovisual: movies & 3D projection

Sources for Classroom Reactions

- B. Z. Shakhashiri Chemical Demonstrations Volumes 1-4
 Univ. Wisconsin Press
- Journal of Chemical Education & ACS Chem Ed Conf http://jchemed.chem.wisc.edu
- David Brooks Univ. Nebraska Lincoln
 http://chemmovies.unl.edu/chemistry/beckerdemos/bd000.htm
- Colleagues

A Few Examples

Isopropyl alcohol & candle

Burning book

Samples to smell & examine, steroid pheromone

Vodka oxidation, nylon rope, enantiomer models

Reactions: Key Considerations

Safety & practicality at site

Practice beforehand at least twice

Get assistant if possible

Write and record your version & results

Classroom Performance Systems (CPS)

- Clicker system allows anonymous response to question
- Response can also be recorded, graded or rewarded
- Provides rapid feedback to both student and instructor

Do I as a student understand?

What proportion of class understands?

- RF (Radio) can handle ca 600 per second
- Easy to setup, modest cost: \$ 20 \$ 40 each to purchase