

## 5.8.2: Lecture Demonstrations

## "Spectrum Glasses"

Observe aquarium lights (long, thin, vertically mounted tungsten bulbs) and similar shaped socket mounted fluorescent lamps through "Rainbow Glasses" or "Spectrum Glasses" to see the difference between *continuous* and *line spectra*. Typical "Spectrum Tubes" available from scientific suppliers, and a variety of colored lamps may also be used.

Sources: American Paper Optics, Inc. Bartlett, TN 901.381.1515; 800.767.8427; www.holidayspecs.com

Rainbow Symphony, Inc.,6860 Canby Ave. Suite 120 • Reseda · CA · 91335; (818) 708-8400 (818) 708-8400 • (818) 708-8470 (818) 708-8470 Fax

Rainbow Fireworks Glasses [www.rainbowsymphony.com]

## **Light Energy**

Show that atoms are the transducers of energy from all forms to light energy;

- 1. heat energy in, light out: Flame Tests
- 2. UV in, light out: phosphorescence
- 3. chemical energy in, light out: chemiluminescence (glow sticks, luminol, etc.)
- 4. electrical energy in: neon signs, lights (as above)

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