

UMR'S "BRIDGING THE GAP"
(formerly "2+2 IN THE LABORATORY")

Girl Scout Workshop

February 24, 2001

9:00 a.m. – 3:00 p.m.

Sponsored by the Helix Club (student chapter of a national society), W.T. Schrenk Society (Chemistry and Chemical Engineering students), C.L. Dake Geological Society (geology students), Kappa Mu Epsilon (national math honor society) and the Society for Women Engineers (student chapter of a national society)

Our workshops will stress hands-on experience in scientific methods. The scouts will learn to observe and collect data, to use basic techniques from chemistry and biology, to solve problems and to observe and analyze results. Application to everyday life as well as to careers in science and technology will be emphasized.

Fantastic Fireflies: Helix will present a demonstration about how fireflies make light. Scouts will conduct experiments to observe the chemical reactions used by fireflies and bacteria that make their own light.

Paper Dragons: KME will teach scouts about origami, the ancient art of paper folding. Scouts will learn the mathematics behind this beautiful art form and make their own origami creations.

Rainbow in a Jar: Scouts will learn about the chemistry of color from the Schrenk Society. Scouts will observe various colorful chemicals and perform chemical reactions that can make the colors change.

Rocks of the Ages: The Dake Society will lead the scouts on a search for fascinating minerals. Teams of scouts will race to find special rocks in the McNutt mineral museum that are known to be the source of important minerals.

It's Eggciting: SWE will use eggs to teach the scouts about pressure, buoyancy, volume, inertia, calculating averages and even a little biology.