



"Bridging the Gap" at UMR



Girl Scout Workshops

9:00 a.m. - 3:00 p.m.

April 17, 2004

Sponsored by the Helix Club (student chapter of a national biology society), W.T. Schrenk Society (Chemistry and Chemical Engineering students), Kappa Mu Epsilon (national math honor society), the Mathematics Association of America, SCRUBS (Pre-Medicine Club) and the Society of Physics Students.

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. Applications to everyday life as well as to careers in science and technology will be emphasized.

Genetics: Helix will introduce scouts to the science of heredity. Scouts will learn how genes on our chromosomes determine our physical characteristics.

Smelly Science: Schrenk Society will introduce scouts to the chemistry of odors. Scouts will use their senses to learn about the chemical properties everyday items.

Electricity and Light: Physics students will show the scouts how to generate electricity and light. As a special treat, scouts will learn a very COOL way to make ice cream.

Tanagrams: Kappa Mu Epsilon will help scouts use their knowledge of math to learn how to make tanagrams and to use them to create fascinating shapes.

Dragon Fractals! The Math Association of America students will introduce the scouts to the fascinating world of fractals. They will discuss what fractals are, as well as how they are made. The scouts will then have an opportunity to color their own fractals.

Vital Signs: Scouts will learn how to read their vital signs such as blood pressure and heart rate with the help of UMR Pre-Medicine students.

For more information please contact Jessica Wilson (Workshop Coordinator, Helix Club) at (573) 341-4831 or Dr. Dave Westenberg (573) 341-4798 (Advisor for Helix and SCRUBS).