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Thought-provoking hands-on activities for college, high-school, and middle-school students and their families.

**Saturday, April 9, 2005**

**1:00 to 3:30 pm**

## REGISTRATION FORM

Please select up to three of the following free sessions in which you would like to participate. Indicate your first, second, and third choices by putting 1, 2, or 3 in the blanks. You will receive details about the sessions after your form has been processed. Space in these free sessions is limited, so send your registration form soon.

\_\_\_\_\_ **It's Alive!**

Microbes are everywhere – from mountaintops to deep sea vents to toilet seats. Learn more about the complex world of “simple” life by adopting your own microbe and investigating what makes it special.

\_\_\_\_\_ **The Amazing Right and Left Handed Worlds of Chemistry**

Molecules can be right-handed or left-handed. Like your hands (and feet) right-handed and left-handed molecules are the same ... but different. You will investigate your body's amazing ability to detect the differences between right handed and left-handed molecules.

\_\_\_\_\_ **The Periodic Table of Life**

The food you eat contains the chemicals you need to live. You need only tiny amounts of some of these, such as iron, and more of others, such as proteins. You will extract some of these from common foods like milk and cereal.

\_\_\_\_\_ **A Window on the Nanoscopic World**

The scanning electron microscope allows us to examine objects that are far too tiny to see with unaided eyes. With it, you will look very closely at everyday objects in a new way. You will see the structure of human hair and look at the bacteria that probably lives on your shoes.

\_\_\_\_\_ **Exploring Polymers**

The world is full of polymers, both natural and artificial. Wood, muscle, and fur are all polymers, and so are the plastics we use every day. You'll make some polymers for yourself and see how very different they can be.

\_\_\_\_\_ **Chemistry around the House**

Everything around us is made of chemicals, so our homes are filled with a great variety of chemicals. We use many of these chemicals every day, but we don't often see some of their more unusual properties. Here, you'll investigate some of the colorful properties of common household chemicals.

\_\_\_\_\_ **Energy Makes It All Happen**

Electrical energy is a very useful form of energy, because it easily converts to other forms, like heat, light, and motion. In this session, you'll build your own battery and use it to make light. You'll also build a motor to convert electrical energy into motion.

\_\_\_\_\_ **The Sky at Many Wavelengths**

Most light from nearby and distant objects is invisible. You will assemble and use an astronomical spectroscope, and you'll look for visible and invisible light in the world around us.

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Name(s): \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Telephone: \_\_\_\_\_

Email: \_\_\_\_\_

**Please return completed form by April 1 to:**

Women of Science  
Wisconsin Initiative for Science Literacy  
Department of Chemistry  
University of Wisconsin-Madison  
1101 University Ave  
Madison, WI 53706-1332

For more information, call Sue at 608-263-2424.