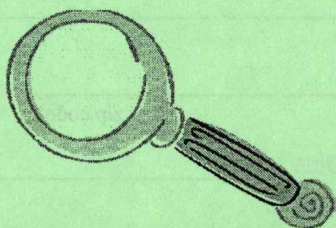


What is WISL?

The Wisconsin Initiative for Science Literacy (WISL) has two goals: to promote literacy in science, mathematics, and technology among the general public; and to attract future generations of researchers, educators, and entrepreneurs to scientific fields. Our offerings include not only locally known programs such as "Science is Fun" and "Science on the Radio," but also science outreach to urban families (Science in the City), outreach to science teachers (Conversations in Science), and collaborative programs with the sciences, arts and humanities.

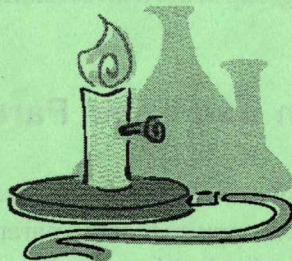
For more information,
visit our "Science is Fun" website at
www.scifun.org



**Watch for announcements
of future
"Science Saturday"
sessions!!**

A UW-Madison Program

"Science Saturdays: Energy Matters" is sponsored by the University of Wisconsin-Madison through the Wisconsin Initiative for Science Literacy. Presenters are Prof. Bassam Z. Shakhshiri and Dr. Rod Schreiner of the Chemistry Department (known for their "Science is Fun" programs) and by Prof. Peter Timbie of the Physics Department.



A Little Background

Energy Matters

Session One: Electrical Energy

Energy makes everything happen. Build a battery to convert chemical energy to electrical energy. Use electrical energy to cause a variety of changes, and then build a motor to convert electrical energy to motion.

Session Two: The Sky at Many Wavelengths

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

Session Three: 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 everyday. You'll make some of these polymers, and see how different they can be.

Science Saturdays

ENERGY MATTERS



For middle school students
and their parents

Three Saturdays

February 22, March 1, and March 8
9:00 a.m. to 12:00 noon
at
University of Wisconsin-Madison

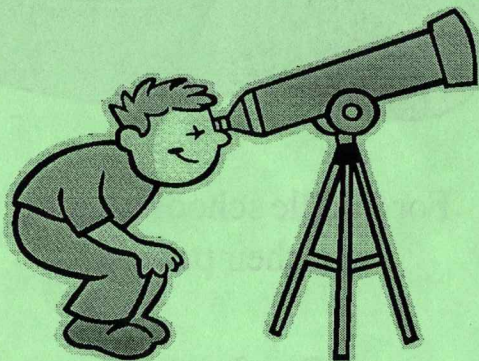
www.scifun.org

Are you Ready for Fun?

Are you in grades six to eight — or the parent of a student in those grades — and are the two of you ready for three Saturdays of fun? Are you ready to build your own scientific apparatus and use it to investigate the world around you and look deep into the universe? Then you need *Science Saturday: Energy Matters!*

Build and Experiment

Each Saturday students and parents work together on a different and challenging science project. For example, you will build a telescope like Galileo used to discover the moons of Jupiter. You'll make your own battery and use it to run a motor that you build. You'll make your own plastics and investigate their properties.



During the three Saturday sessions, you will conduct and observe fun experiments in university laboratories. You will also receive instructions for performing additional experiments at home, which you can tell about at the next session.

Learn New Skills

As you record your observations, you will also learn how to draw to scale and how to make your own special observation tools such as hand-made magnifiers. You will be doing real science—raising questions, making observations, and conducting experiments to find answers. You will be responsible for keeping good records in your own personal notebook so that you can share all your exciting findings with the group at the next session.

For Children *and* Their Parents

This program is for one child and one parent together. In fact, we *require* that the parent (or grandparent or guardian) make a firm commitment to attend *all three sessions* and fully participate in the hands-on activities. Parents will be paired with their children in small teams aided by staff. Child and parent will get more out of the session because the other is present.

Cost

Cost for child and parent together is \$30. This covers all materials and a snack at each session.

Questions?

Contact us at
Wisconsin Initiative for Science Literacy
Department of Chemistry
1101 University Ave.
Madison, WI 53706
(608) 263-2424

Application

Parents should complete the form below and also write a brief statement about what your child and you hope to gain from the Saturday Sessions. **We must receive your application by February 14.** You will be notified of selection during the week of February 17. If selected, you will be asked to send your \$30 check and will receive directions to the program site.

Registration Application

Child's name (please print):

(first)

(last)

Child's age: _____ years Child's grade: _____

Name of school: _____

Name of participating parent or guardian:

(first)

(last)

Address:

(street)

(city)

(zip code)

Phone number: _____

Parent's signature: _____

Clip and mail with your letter **by February 14** to:
Wisconsin Initiative for Science Literacy,
Department of Chemistry, 1101 University Ave.,
Madison, WI 53706-1396.