



DEPARTMENT OF PHYSICS - UNIVERSITY OF ARKANSAS

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HIGH SCHOOL PHYSICS DAY

The University of Arkansas Physics Department will host its annual High School Physics Day on Saturday, March 31, 1990. Because of the great enthusiasm shown by the Society of Physics Students this year's program promises to be the as great as ever. The day's events are open to all high school classes in Arkansas. The members of S.P.S. invite students and teachers from your high school to participate. Note that a small registration fee is required, and that lunch will be provided by S.P.S., making the fee well worthwhile. Checks may be made payable to the Society of Physics Students.

We hope that this event will encourage the pursuit of physics as a career by providing an opportunity for detailed projects to be carried out in a light-hearted (and hopefully light-landing) manner. We also hope to give students and teachers from across the state an opportunity to get acquainted, better inform them about undergraduate physics at the U. of A. and make the learning of physics fun.

SCHEDULE OF EVENTS AND RULES

8:30 - 9:00	Registration. Fee: \$1.00 in advance, \$1.50 on April 22.
9:00 - 9:15	Introduction and welcome by Prof Art Hobson.
9:15 - 10:00	Archimedes' Boat
10:00 - 11:30	Demonstrations, Planetarium shows, tours of research labs.
11:30 - 12:30	Physics film. Lunch provided by SPS.
12:30 - 1:30	Paper Tower
1:30 - 2:30	Physics Demonstrations Contest
2:30 - 3:30	Egg Drop
3:30 - 4:30	Physics Study at U of A, Fayetteville
4:00 - 4:30	Awards ceremony

ARCHIMEDES' BOAT

A 6" by 6" sheet of heavy duty aluminum foil will be provided by SPS. With it you are to create a boat designed to hold a maximum number of pennies. The boat that holds the most pennies without sinking is the winner. NOTE: You must decide when to stop placing pennies!

PAPER TOWER

You are to construct a free-standing tower of maximum height using a single sheet of 8.5" by 11" photocopier paper and one 50 cm strip of cellophane tape. No other materials may be used. Materials and construction aids will be provided. The paper may be folded into any shape, and the tape may be used to fasten parts of the tower together, it may not be used to attach the tower to the floor or any other object. A tower shall be declared free-standing if it remains self-supporting for more than ten seconds. Height is determined by measuring the perpendicular distance from the highest point of the tower to the table.

Physics Demonstrations

Design a demonstration that illustrates physical concepts or phenomena and enter it to the contest. The design must not have been presented or judged previously. It will be judged for originality and fidelity to the physical principles that are being illustrated.

POSTER

Entries should be made at home. They should deal with any thing related to physics, astronomy or mathematics. The posters should be turned in at registration time. The poster will be judged according to content and artwork. Entries are limited to one poster per person.