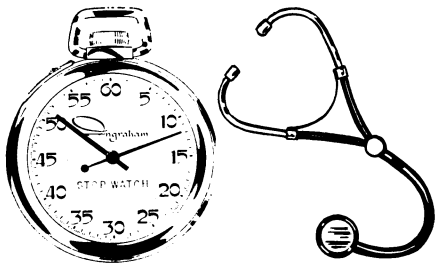


SCIENCE! FUN! MYSTERY!

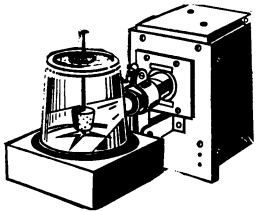


STOP WATCH
Time lab experiments, study periods, sports events, etc. Accurate—times up to 60 minutes—Dozens of uses. Perfect for track and field, swimming, etc. Time against world record holders.
No. 607 \$4.95

STETHOSCOPE
Real working stethoscope. Actually hear heartbeat. Amazing low price. Full 2 1/4" x 7 1/2".
No. 500 \$1.25

ATOMIC ENERGY LAB

Fascinating Atomic Cloud Chamber with Projector Illuminator. See vapor Trails of alpha and beta particles and cosmic rays. Complete with Spinhartroscope (shows exploding atoms). Electroscop (Measures background radiation and tests sample source) and safe radioactive materials. Full instructions cover use and theory.
No. 600 \$7.95



BUILD YOUR OWN POCKET WATCH

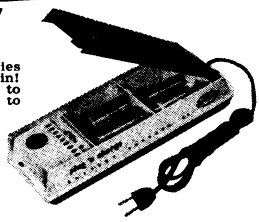
A sturdy, precision-made master engineered watch that really works. In lifetime plastic with two springs, it has 21 precision parts that snap in place. Keeps dependable time from 16-24 hours on a single winding. Winds and sets at the back. 14K applied gold dial. Complete with case. Use as pocket watch, fob, pendant. Full written guarantee.
No. 617B \$2.95



DINOSAUR BONE
A genuine bone fragment from Brontosaurus or similar dinosaur. These specimens are found in Colorado.
No. 102 \$7.75

HOME BATTERY CHARGER

Bring rundown batteries back to full life again! Recharge batteries up to 15 times. Saves you up to \$3.00 on every 15¢ battery. Recharge up to 4 batteries (radio, flashlight, small cell, etc.) for less than 1¢. Simply plug into AC outlet. Perfect for any battery operated toy or kit.
No. 601 \$5.95



FAKE PAINT BRUSH
Regulation 1 1/2 inch paint brush applies an imitation paint streak to any surface. Each streak is harmless, removable, and re-usable. A riot on "painting, wall, etc. Looks so real it'll frighten any victim."
No. 548 \$1.50



JOHN F. KENNEDY
Kit includes a remarkable likeness of our beloved President in his famous rocking chair, a replica of a White House fireplace with a full color decal of the PT-109 action party and a real cloth American Flag. In kit form.
No. 710 \$1.49

Please order by item #. Full Money Back Guarantee On All Merchandise. Send cash, check, or money order, or order COD (\$1 deposit) from:

ROYAL ADVERTISING CORPORATION
DEPT. 600 LYNBROOK, N.Y.

CONSERVATION

Floods With Us Always

► **MAN CAN MODERATE** the sudden flooding streams and rivers that bring destruction to cities and farms, but he cannot eliminate them.

"People should reject the idea that man can control nature, and realize that we must learn to get along with it," believes Dr. Raymond Mace, research scientist with the water resources division of the U.S. Geological Survey, Washington, D. C.

Floods are normal phenomena of nature, he said. No matter how much money is spent, no major flood will ever be completely controlled by man. All we can do is fight to hold down the floods, learn to live with them, and adjust by building our industrial centers, homes, cities and farms in areas where floods will not cause terrible damage.

Floods are caused by intense rainfall or by melting of accumulated snow. They occur most often in the spring, as the warming sun melts the winter snow, but they can also occur when storms hit in the summer, fall or winter. As billions and billions of waterdrops accumulate in the highlands, they run down the hills, ridges and mountains to form rivulets which grow into larger creeks, streams and rivers in a powerful rush to the sea. Too much water at one time, or too low a bank of the water course, causes the water to overflow its natural course and spill over the land. The amassed water can rush down the watercourse in a wave called a crest, such as the 27-foot crest that bore down on St. Paul as part of the record Mississippi flood waters, worst of the century.

Floods occur along practically every river in the world, and some occur a dozen or more times in a single year on the same river. Some floods cause no damage, but many leave millions of dollars worth of

ruin behind them, depending upon the concentration of civilization in their path.

Scientists, engineers and technicians can avoid much flood damage by many methods. For instance, in the highlands, water runoff can be reduced by contour plowing and terracing the land to hold the water. Grass, shrubs and forests can be planted so the roots will hold the rain water or melting snow. Storage ponds on farms and other property can be dug to collect and retain much water. Series of open-gate dams on many streams can be operated to hold back the water during flood season and let it flow at other times, while larger dams can hold back tremendous volumes of water. Channel cutoffs can be dug to divert the overflow, and along low-lying cities and plains, levees of sand, soil and other fill act as walls to keep the rolling waters in their course.

But the most effective measure to prevent flood damage is by zoning the flood plains, as the low flat areas of land bordering the rivers are called, believes Dr. Mace.

By mapping the topography of these flood areas and by making detailed studies of the geology and histories of former floods, geologists can tell exactly what parts of the land are apt to be flooded and how often. The U.S. Geological Survey has been concentrating on these studies within the last several years, he explained.

These potential flood areas are then zoned by the city, county or state to allow only certain construction or activity in certain areas. By this careful zoning, everyone can be informed of the risk or safety involved in flood areas, he said.

• Science News Letter, 87:270 April 24, 1965

METEOROLOGY

Reflected Solar Radiation Measured From Everest

► **THE SUN'S** reflected radiation at the highest point from which it has ever been measured by ground-based instruments—19,000 feet up Mt. Everest—was 60% of the incoming radiation, about as expected.

Reflected radiation measurements are important in long-range weather forecasts.

Temperatures taken in the high valley on Khumbu Glacier were warmer than expected, John J. Roche of Eppley Laboratory, Newport, R.I., reported to the American Meteorological Society meeting in New York City. He said the temperatures at night seldom went below zero and averaged 30 degrees Fahrenheit during the day.

Mr. Roche reported on the measurements made by Barry C. Bishop of the National Geographic Society, Washington, D.C., who was one of the men taking part in the first successful U.S. expedition to the summit of Mt. Everest in May, 1963. Drs. Anders K. Angstrom and Andrew J. Drummond, also of Eppley Laboratory, collaborated in the research.

• Science News Letter, 87:270 April 24, 1965

MICRO-ADS

Equipment, supplies and services of special interest to scientists, science teachers and students, science-minded laymen and hobbyists. 25¢ per word, payable in advance. Closing date 3 weeks prior to publication (Saturday).
SNL, 1719 N St., N.W., Washington, D.C. 20036

AMAZING INSECT-TRAPPING PLANTS LURE, catch, digest insects. Fascinating Venus's Flytraps, 6 quality large bulbs \$2.95, 12—\$4.95 ppd. Insect-Trapping Plant Set, 3 Flytrap Bulbs, 1 Miniature Huntsman's Horn, 1 Purpurea Pitcher, \$3.95. Illustrated brochure 10¢. Armstrong Associates Inc., Box 127-S, Basking Ridge, N. J.

BINDERS FOR SNL—BUFF-COLORED Buckram. Snap-in metal strips hold 52 copies. \$4.00 pp. Send order with remittance to Science News Letter, 1719 N Street, N.W., Washington, D. C. 20036.

BOOKS ON FERNS, LICHENS, MOSES. Free list. Lew's, 2510 Van Ness, San Francisco, Calif.

DO YOU THINK FOR YOURSELF ??? Humanism affirms the inherent dignity and worth of every human being, and believes that through human effort we can direct our own future. Free literature. American Humanist Association, Humanist House, Department S N L - 4, Yellow Springs, Ohio. 4 5 3 8 7.

SURPLUS OPTICS-ELECTRONICS CATALOG. 72 pages 20¢. Meshns, Nahant, Mass.