

GENERAL SCIENCE

Many Talented Finalists

► POETS, ATHLETES, dancers, politicians and musicians were among the nearly 400 young scientists at the National Science Fair-International at Seattle May 2-5.

Eileen Thompson, 16, winner from the Kent County Science Fair, Grand Rapids, Mich., with her project "Metabolic Rate in Mice," also won a first place in the high school division of a poetry contest held by the Grand Rapids Public Library with her poem "The Cross." Her subject was an old gilded cross on a church spire being desecrated by the weather and pigeons.

Many finalists have won awards in athletics. Some of the sports represented are not, however, of the usual sort. Stuart M. Kent, 17, Northern Connecticut Science Fair finalist who earned his berth at the national competition with his project "Nutrients and Stimulants," also has won awards in yacht racing. Jerry Jordan, 17, Trans-Pecos Science Fair winner from El Paso, Texas, has distinguished himself in training dogs, as well as in his study of the "Hydrodynamics of Hull Types."

Richard H. Onouye, 18, Hawaiian Science Fair winner from Pearl City, makes a hobby of Karate, a Japanese form of self-defense using swift chopping action of the bare hands.

J. Pat Banks, 17, Tulsa, Okla., Science Fair winner, has won sharpshooting awards as well as science fair awards with his study "Flux Densities in Conical Solenoids."

Four National Science Fair finalists are active political campaigners doing everything from applying bumper stickers and ringing doorbells to serving as state chairman of the high school group of a major political party. Donna Gene Hayes, 18, Greater Ohio Science Fair finalist from Toledo, combines political interest with her experimental study of nuclear structure. Edward Erwin, 18, Baylor University Science Fair winner from Corsicana, Texas, won his way to the national level with "Determination of Color Composition" while Bob Dunkin, 17, another Texan from Harlingen, won at the Rio Grande Valley Science Fair with his study of "Quality Control System for Reproduction of Negatives." Karl Miller, 16, Washington, D. C., Science Fair winner, conducted his experiments in "Electron Resonance in Crystals."

Randall Zisler, 15, Northern Virginia Science Fair winner from Arlington, who has an architectural project entitled "From the Drafting Board to the Finished Product," has won oratory awards. Published articles are among the accomplishments of another finalist from Central Valleys Science Fair, Fresno, Calif. Patricia Vickers, 17, has earned her science distinctions with a study of the early life of the Kettleman Hills.

Music and dancing awards are claimed by many of the Science Fair winners, but at least two of these are in areas out of the ordinary. Mieko Asada, 18, finalist from the Japan Student Science Awards and Science Fair, Tokyo, is an authority of exotic dance and of flora. Her science project

is a study of a small leafless orchid; she also is accomplished in Japanese dance.

The hula is a specialty of Lana Mei Yong, 18, Hawaiian Science Fair winner from Volcano, who also is accomplished in the control of fish parasites.

At least two girls participating in the international event have been homecoming queens at their high schools. They are Emily Knox, 17, Turner High School, Atlanta; and Sarah Oden, 17, Greenbrier High School, Ronceverte, W. Va.

Emily won at the Atlanta Science Congress No. 2, Atlanta, Ga., with her project "The Induction of Cancer by a Virus and the Transplantation of Tumorous Tissue," while Sarah's project on orchids and their response to red light won the honors for her at the Greater Greenbrier Valley Science Fair, Lewisburg, W. Va.

Janet Stauffer, 16, Kansas Wesleyan University Science Fair winner from New Cambria with "An Original Contribution to Kansas Archaeology" also has distinguished herself in 4-H work. She has won 4-H awards in home economics, health, leadership, community relations, recreation, food preparation and preservation. Janet was chosen as the teen-age speaker at the state Farm Bureau meeting, and holds a national championship in safety.

• Science News Letter, 81:287 May 5, 1962

Drying foods is one of man's oldest and most widely used methods of food preservation.

It is estimated that 50 new *minerals* are added each year to the current list of 1,200 to 1,500 distinctive minerals.

Less than two dozen vessels have carried out *oceanographic investigations* since 1873 on the Indian Ocean covering 28,000,000 square miles or 14% of the earth's surface.

Magnesium is the lightest of the commercial metals produced in large quantities at relatively low cost.

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 6, D. C.

BRIEF GRAMMAR OF INTERLINGUA IN THE International Language and list of words frequently used in seven languages. Free. Send stamped self-addressed envelope to: Interlingua, 1719 N Street, N.W., Washington 6, D. C.

GOVERNMENT SURPLUS RADIOS AIRCRAFT cameras, lenses, snooperscopes. 50 page illustrated catalog 10¢. Meshna, Malden 48, Mass.

INDEPENDENT THINKERS—INVESTIGATE Humanism the scientific personal philosophy! Ethical, humanitarian; nonpolitical, nonsupernatural. Free literature. American Humanist Association, Dept. SNL-1, Yellow Springs, Ohio.

SUNSHINE, ASIA'S ONLY YOUTH MONTHLY magazine in English gives insight to Indian education and schools. Science section. Send \$2 USA check for one year to Sunshine, Poona (1) India.

SCIENCE SPECIALS



SPACE TRAVEL PACKAGE

Exclusive! You'll thrill to sounds from Sputnik, Explorer, Echo—even the first astronaut—recorded and explained on this 7" 33rpm record. Includes 2 wall charts—planetary travel and orbital flight—and planetary information slide rule. **\$2.65 PPD.**



HUMAN ANATOMY FOLIO

Exclusive! 16 brilliant full color plates bound in 18" folio. Shows full skeleton, muscles, nerves and arteries. Has 17 overlays with removable detail of pregnant female. Indexed with 477 anatomical terms. Professional quality. **\$4.95 PPD.**



SPINTHARSCOPE

For viewing radioactive disintegration. Alpha particles emanating from embedded radium salts strike the phosphorescent screen and produce a succession of brilliant scintillations. You'll marvel at this nuclear display. **\$1.85 PPD.**



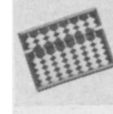
SPORTS ALTIMETER

Exclusive! Mount in your car or hang on belt while hiking or skiing. Registers to 10,000 ft. altitude in 100 ft. readings. Precision instrument with chrome fittings. Great for family trips. Please include 25¢ postage. **\$6.95**



STETHOSCOPE

Listen to your heart and breathing. Analyze unknown sounds in machines. Use as hearing aid in lab experiments with sound and vibration. Kids love them. Black plastic with chrome plated fittings. **\$2.65 PPD.**



ABACUS

An early forerunner of the modern digital computer. Accurate and fun to use. Can match the performance of a desk calculator. 8" hardwood frame, waxed hardwood beads and 32 page instruction book. 20¢ postage, please. **\$1.95**



30 POWER BEAUTY

Perfect telescope for student astronomers, camping trips or target work. 30mm coated achromatics, chrome plated tubes and tripod, fine pigskin case, erect image. Unbelievable quality for this price. Please include 50¢ postage. **\$6.95**

THE FREY SCIENTIFIC COMPANY

273 ORANGE ST., MANSFIELD 8, OHIO
SATISFACTION GUARANTEED SEND FOR FREE CATALOG



RADIOMETER

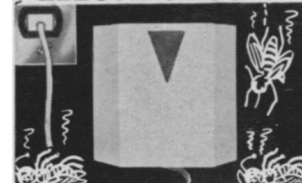
A Real Solar Motor

American made. Balanced four arm vane, in 3" diameter evacuated glass globe, turns upon exposure to light, any light, even a lighted match. Highly decorative, interesting, educational, instructive. A conversation piece. We guarantee yours to operate. **\$3.00 p.p. 2 for \$5.00 p.p.**

HARRY ROSS

Scientific & Lab Apparatus
61-L Reade St., N.Y. 7, N.Y.

ELECTRIC BUG KILLER \$2.95



One Unit Sufficient For An Average Size Home

KILLS Flying Moths • Flies • Mosquitoes • Silverfish • Gnats • Spiders • Wasps • Centipedes • Exposed Ants and Roaches. (Insect does not have to come in contact with unit)

Clean, unbreakable Electric Bug Killer controls, kills insects—actually fumigates 1500 cubic ft. area. Uses no more current than an electric clock. Guaranteed mechanically for 10 years. Multiple units also ideal for business & commercial use. With 10 Lindane Tablets. UL appr. cord & plug. Electric Bug Killer and 10 Tablets.....**\$2.95 ppd.**
2 Electric Bug Killers and 20 Tablets.....**\$5.50 ppd.**
40 Extra Lindane Tablets.....**\$1.00 ppd.**

Send check or M. O.—Satisfaction Guaranteed
SPENCER GIFTS CS-53 Spencer Bldg.
Atlantic City, N. J.