

## GENERAL SCIENCE

## Award Top Prizes At Fifth Science Fair

► THE FIVE first prizes in the Fifth National Science Fair were awarded to: Doris Jean Hermes, 18, Martinsville (Va.) High School; Philip Robert Lichtman, 17, Woodrow Wilson High School, Washington, D. C., and Samuel Theodore Scott Jr., 16, West End High School, Nashville, Tenn., who tied for first place in the physical group for the boys; Leigh Ferne Temme, 18, Lutheran High School, St. Louis, Mo., and James D. Gohman, 16, Teachers College High School, Cedar Falls, Iowa.

Each first prize consisted of \$125 in scientific equipment. The Fair was held May 13 to 15 at Purdue University, LaFayette, Ind., with 95 high school students competing for top honors.

Competition was so intense and close that 18 instead of the announced 12 awards were made. The second-place awards, each \$75 in scientific equipment and books of their own choosing, were taken by: Patricia Ruth Ludeman, 18, Chattanooga (Tenn.) High School; Sarah Patricia Bellamy, 16, Bakersfield (Calif.) High School; Martial Leon Thiebaut Jr., 17, Whittier (Calif.) High School; Donald Louis Crabtree Jr., 18, Richmond (Ind.) Senior High School; David Charles Waters, 17, Trenton (N. J.) Central High School; Patricia Ann Pascus, 16, Farmington High School, Unionville, Conn.; Carolyn Sue Evans, 18, Martinsville (Va.) High School, and Richard LeRoy Ware, 18, Richmond (Ind.) High School.

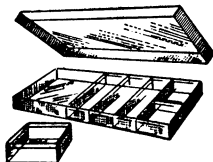
Third-place awards of \$50 in "wish-list" equipment went to: Sidney E. Lyons Jr., 16, Chattanooga (Tenn.) High School; David Irvin Gilbert, 17, George Washington High School, San Francisco, Calif.; Charles William Waldron, 18, Midland (Mich.) Senior High School; Rebecca Jane Hutto, 17, Tipton (Ind.) High School, and Alice Louise Shaffer, 17, Union-Endicott High School, Endicott, N. Y.

The National Science Fair is sponsored by Science Clubs of America, administered by SCIENCE SERVICE, with newspapers, universities, professional, technical and civic societies as co-sponsors.

Science News Letter, May 22, 1954

Several hundred persons are killed by lightning each year.

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### Wild Flowers

► THE BEAUTY of nature's wonderful wild flowers has been captured for nature lovers everywhere in one of the most superbly illustrated books ever printed.

"Wild Flowers of Western Pennsylvania and the Upper Ohio Basin" will probably rank with Audubon's magnificent books and paintings of birds as a scientific work of art.

The two-volume book is the result of years of work by two friends, Dr. Otto E. Jennings who wrote the text and the late Dr. Andrey Avinoff who painted the 200 delightful water colors. (See SNL, Dec. 13, 1953, p. 398.)

The volumes were made possible by three Pittsburgh institutions, the University of Pittsburgh, the Carnegie Institute and the Buhl Foundation. Though they are costly, the \$60 price for the set is still far less than the actual cost of printing, illustrating and binding.

The first volume contains scientific descriptions of 2,200 wild flower species by Dr. Jennings. He is the former head of the department of biological sciences at the University of Pittsburgh.

Dr. Avinoff's water color paintings of 200 of the flowers are in the second volume. Brief descriptions and comments on each flower illustrated were written by Dr. Jennings. The paintings were made from living flowers and seem to spring life-like from the pages of the book. Special care was taken in the printing to insure faithful reproduction of the original paintings.

Only 3,000 sets were printed. Many botanists and museum directors feel that the set will quickly become classic, and the flower illustrations will be framed as works of art.

Science News Letter, May 22, 1954

Nearly a million *ladybugs* have been flown from this country to Saudi Arabia to destroy plant lice there; the ladybugs were kept dormant in six one-gallon containers in cold storage.

## PSYCHIATRY

## Psychiatrist's Advice May Save Wives' Lives

► THIS MAY save the lives of a few wives.

Separation of husband and wife is advised when they cannot understand and remedy emotional conflicts that could result in one killing the other.

At the American Psychiatric Association meeting in St. Louis, Dr. Albert A. Kurland, director of medical research, Spring Grove State Hospital, Catonsville, Md., told of a survey over a 25-year period of mental patients committed for homicide, with the victims mostly wives.

From them and from husbands and wives who had survived homicidal assaults, he suggested danger signs in married life:

1. An increasing amount of the acting out of hostile impulses by words, the threatening use of weapons, and physical assaults.
2. Increasing alcoholism.
3. Emotional clashes due to expressions of jealousy, infidelity and persecution.
4. An increasing limitation and dissatisfaction with sexual expression in the marriage.
5. An increasing inability to discuss their emotional conflicts with each other.

When the wife tries to control the behavior of the husband, danger signs are:

1. When she resorts to blaming him when she herself attempts to remain blameless.
2. When she increasingly threatens her husband with disruption of the marriage.

Dr. Kurland advised his fellow psychiatrists to make very plain "the unconscious nature of their sado-masochistic relationship" when a homicide has been attempted. The doctor should not minimize the destructive forces in operation.

"If an effective communication dealing with their emotional conflicts cannot be established with them, separation should be recommended or the ultimate outcome may be catastrophic," Dr. Kurland stated.

Science News Letter, May 22, 1954



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