

Biologist Top Winner

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crosses that clearly indicated direct or indirect contact with Christian influence, an idea contrary to the accepted history of the area.

Widely interested in activities both in and outside of Theodore Roosevelt High School where he is now a senior, Kevin hopes to continue his education at McGill University with plans of teaching paleontology.

The attractive, blonde, female member of the scholarship quintette, Linda Powers, gives every indication of achieving her dream of earning a doctorate in photochemistry, after undergraduate work at Duke University, and then teaching and doing research at a university. In addition to her exacting work demonstrating and amending a tentative theory of color change in organic chemicals, she has designed and built rockets, testing for best fuel concentration (the most successful went 250 feet up, landed 500 yards away); has built a lens and scope to experiment with light; has studied the environment and metabolism of seahorses; and has built a laboratory in the family basement, utilizing the vacuum cleaner as a ventilating device.

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MICRO ADS

FRESNEL ZONE PLATES bend light like lenses, but by diffraction. 2-element set, many project ideas, \$2. Metrics Laboratories, 1845 North Howe St., Chicago, Ill. 60614

PERSONALS

FORMOSAN BUTTERFLY, moth, beetle, dragonfly, cicada for sale. NOVELTY, Box 860, Taipei, Formosa.

She is a senior at Woodrow Wilson High School.

Larry E. Morse, 18, of Dayton, Ohio, was given a \$250 Westinghouse Science Award and named first alternate to the \$3,000 scholarship, and Mary Lou Silkworth, 18, of Amityville, N.Y., was designated second alternate and presented with a \$250 award.

In addition, nine girls and 24 boys received the \$250 Westinghouse Science Award in recognition of their top level ability and promise as creative scientists of the future.

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Dr. Meyers

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learn the news the whole town was talking about already.

But these are rather trivial matters to be speaking of when in the last 25 years all science and the world itself has changed so much. I have tried over the last few days to pick out only one great change which impresses me most of all and is most pertinent to the concept of the Science Talent Search. I have decided that it is the marked difference in general public attitude toward science education at the secondary school level.

When I was in high school we were not expected and not particularly encouraged to have an interest in theoretical science. If by some chance such an interest happened to exist it was taken about as seriously as Buck Rogers on the radio. Perhaps it was not as bad as all that. SCIENCE SERVICE had already been in existence for twenty years. There were science fairs in New York, science clubs existed here and there and in a few schools science was emphasized and well taught. Always then were the individual dedicated teachers like the high school chemistry teacher Dr. Seaborg credits with his own interest in his field, and like the biology teacher who convinced me to take the Science Talent Search examination. But these were the exceptions.

By and large I think it would be fair to say that science was segregated in the universities and left pretty much to the professions. There was very little we could do in high school beyond taking the three standard courses in elementary physics, biology and chemistry. If we wanted to do some outside reading we could go to the library and find books on history, literature and the arts, but except in the largest schools the science shelf was likely to be limited to a few handbooks on nature study. I saw few science books before I got to college and these few had to be obtained by mail through inter-library loans or were college texts loaned to me by my teacher.

It has been much easier for the Silver Anniversary group. Your projects show that you have had encouragement, help, materials and equipment to work with that would have been unheard of in 1942. In addition, about half of you have already had experi-

ence with science beyond the high school level, in summer institutes, college courses or scientific summer jobs. Such opportunities were rare indeed for us.

In the TV forum which some of you taped a point was brought up about the necessity and at the same time the difficulty of educating the general public in scientific matters. This is not an easy problem, but I think that the very fact that such a program can be broadcast—that there is enough public interest to make a forum on scientific matters possible is a tremendous step in the right direction. There are many people still who are not quite sure what you are talking about but they at least give you a measure of serious interest and respect that would have been unusual in 1942.

In a few minutes now we will know who gets the top awards. But, however that turns out, you are all already the winners of something more valuable than the largest scholarships. Doors have already been opened to you which we would hardly have dared approach 25 years ago. And while you are winners, you are all also in a sense contributors to what you have won.

By your very presence here, and by exhibiting and explaining your projects, you have once more brought to the attention of the public the importance and the possibilities of science at the secondary school level. In 1942 when the telegram about my scholarship was read and passed around by the local people who would be voting in the next school board election something was started which you are continuing today in ever increasing measure.

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MEDICINE

Brain Cancer Treated By Pocket-size Pump

➤ A 16-YEAR-OLD girl with brain cancer who was formerly unable to get out of bed is up and about, leading an almost normal life as a result of drugs constantly dripping into her bloodstream from a pocket-size pump.

Doctors at the Lahey Clinic, Boston, have treated the girl since 1964, following up a technique that has been successful with liver cancer patients. Dr. Elton Watkins Jr. in 1959 designed a portable pump for ambulatory liver cancer patients, who could carry it in a coat pocket. It was wound daily like a watch and carried a five-day supply of drugs in a disposable, replaceable bag.

Brain tumors are being treated very much as the liver cancers were. The pump drips the anticancer drug into either the carotid artery in the neck or the vertebral artery serving the cancerous area of the brain.

The American Cancer Society reported the research on brain cancer by Drs. Robert D. Sullivan and Wladyslaw Z. Zurek, with Dr. Watkins, all of the Lahey Clinic Foundation.

• Science News, 89:190 March 19, 1966