

First place winners will be guests at the Air Force Association's national convention and airpower panorama in Dallas, Texas, Sept. 24-28. They received models of the Thor rocket and the alternates were awarded models of a jet fighter.

The U. S. Army science awards winners were: William Albert Dunson, 16, a junior at Northside High School, Atlanta, Ga.; Alden H. A. Fairburn, 17, a senior at Lorain High School, Lorain, Ohio, and Paul Edward Webb Jr., 16, a junior at Hampton High School, Hampton, Va.

Their alternates were: Kenneth Merrill Hanson, 18, a senior at Rye Neck High School, Mamaroneck, N. Y.; Joie Pierce Jones, 17, a junior at Abilene High School, Abilene, Texas, and Robert LeRoy Sayre, 17, a senior at Vinson High School, Huntington, W. Va.

The Army will provide alternate trips to the Jet Propulsion Laboratories in California, the Army Ballistic Missile Agency in Huntsville, Ala., or to the laboratories of Walter Reed Hospital in Washington, D. C.

Many Messages Received

The National Science Fair finalists heard words of praise and encouragement from Government leaders and scientists.

President Eisenhower sent the following telegram:

"TO THE YOUNG SCIENTISTS AND THEIR TEACHERS ASSEMBLED AT THE NINTH NATIONAL SCIENCE FAIR, I SEND GREETINGS.

"THE ACTIVITIES OF THE SCIENCE CLUBS OF AMERICA CONTRIBUTE MUCH TOWARD THE QUALITY AND INTELLECTUAL VIGOR OF OUR YOUTH. THE MAINTENANCE OF OUR LEADERSHIP IN THIS CENTURY OF SCIENCE REQUIRES THE FULL

DISCIPLINE OF TRUTH, FREELY EXAMINED AND NOBLY APPLIED.

"IN THIS SPIRIT, IT IS A PLEASURE TO SEND BEST WISHES FOR A SPLENDID SCIENCE FAIR."

Matutaro Shoriki, State Minister and Director of the Japanese Board of Science and Technology, cabled the following from Tokyo:

"MANY THANKS FOR YOUR CORDIAL MESSAGE ON FIRST JAPANESE PARTICIPATION IN NINTH NATIONAL SCIENCE FAIR STOP DEEPLY SATISFIED WITH ACCOMPLISHMENTS OF YOUTHFUL JAPANESE PARTICIPANTS STOP EARNESTLY HOPE THIS WILL LEAD TO DEEPER UNDERSTANDING AND FRIENDSHIP BETWEEN YOUNG GENERATIONS OF TWO COUNTRIES."

The following are excerpts from messages and addresses:

The Honorable G. Mennen Williams, Governor of Michigan—"Every adult and student who has the opportunity of going through these exhibits will wish to be more like you.

"The National Science Fair demonstrates what can be done to develop and expand our American scientific resources without in any way imitating the Soviet Union."

The Honorable Marion B. Folsom, Secretary of Health, Education, and Welfare—"The leadership of those responsible for the National Science Fair deserves particular commendation in this year of renewed interest and concern for our country's efforts in the field of science. This Fair exemplifies the kind of creative thinking so important to the Nation today . . ."

Dr. Lawrence G. Derthick, U. S. Commissioner of Education—"It has been particularly encouraging to note recent figures which show a fairly substantial upward trend in the number of students preparing

to be science teachers. I am confident that your work here has contributed materially to this trend, and I wish you every success in this year's fair."

Dr. Ellsworth S. Obourn of the U. S. Office of Education—"Out of you, the young dreamers of today and your dreams, come the scientists, the poets, the artists, the musicians, and the engineers of tomorrow. You are the creative minds of the years ahead. Into your hands will fall the mantle that will contain the challenge to push back further the barriers of ignorance and to discover new truth. On you will rest the well-being of a world that today is fraught with terror and fear. Perhaps in no age has a generation of elders passed on to a new generation a future so crucial."

Dr. L. R. Hafstad, a vice-president of General Motors and in charge of the research staff—"This Science Fair stimulus, however, has another facet which should not be forgotten, something immediate and personal. It is the profound satisfaction of individual effort, of intellectual initiative. And with it, usually goes the sheer thrill of exploration. These Science Fair exhibits are evidence you as participants have experienced this special feeling of satisfaction, and I am sure that you have enjoyed it."

More than 30,000 persons saw the Ninth National Science Fair exhibits and reporters covering the event wired an estimated 40,000 words to their newspapers in addition to telephoned dispatches.

Science News Letter, May 24, 1958

GENERAL SERVICE

Science Winners Excel In Logical Thinking

► WINNERS of the Science Talent Search conducted by SCIENCE SERVICE are able to think more logically than college graduates, even those with advanced or professional degrees and those with formal training in logic.

This was reported to the Virginia Academy of Science meeting in Roanoke, Va., by Antonia Bell Morgan of Aptitude Associates, Merrifield, Va. Mrs. Morgan reported results of giving the Morgan Test of Logical Reasoning to the top 40 STS winners in the years 1957 and 1958. The mean score of the 80 high school seniors was 40.1.

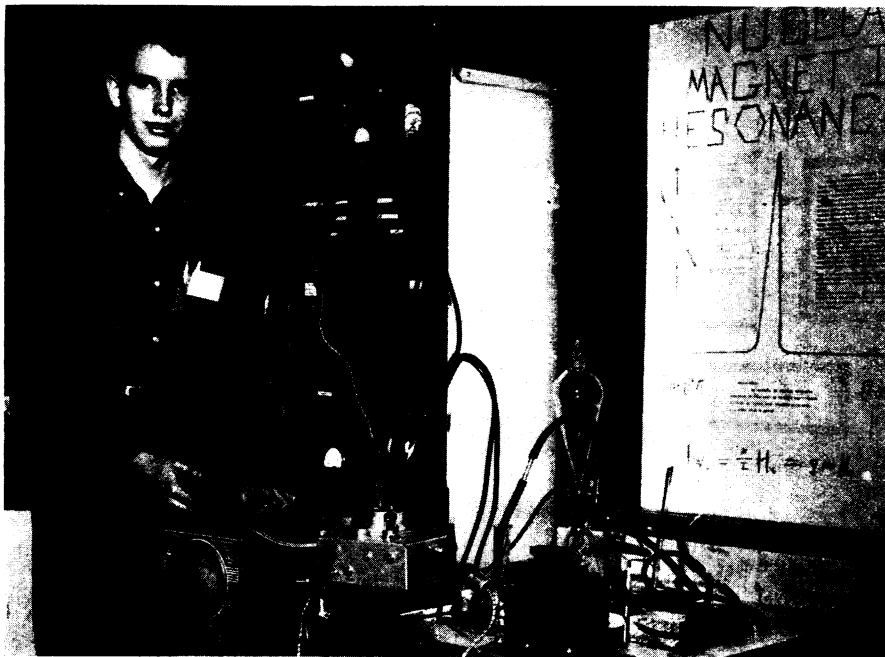
Tests of other high school seniors resulted in a mean score of only 16.5 for Swarthmore High School in Pennsylvania and only 7.7 for a high school in northern Virginia.

College graduates with a bachelor's degree had a mean score of 28.6. Those with a master's degree had a mean of 30.5. Those with a bachelor's degree or better, plus training in logic, made 29.6. Engineers with a bachelor's degree made 25.8; lawyers with a bachelor's degree, 27.3; and executive potential trainees, 35.4.

Only in the case of the executive potential trainees was the superiority of the Science Talent Search winners not sufficiently great to be statistically significant.

Science News Letter, May 24, 1958

A new eyeglass hearing aid operates on free power from ordinary sunlight.



VERNE DE HULCE—Learning about nuclear magnetic resonance using a spectroscope helped Verne to win top honors at the Fair.