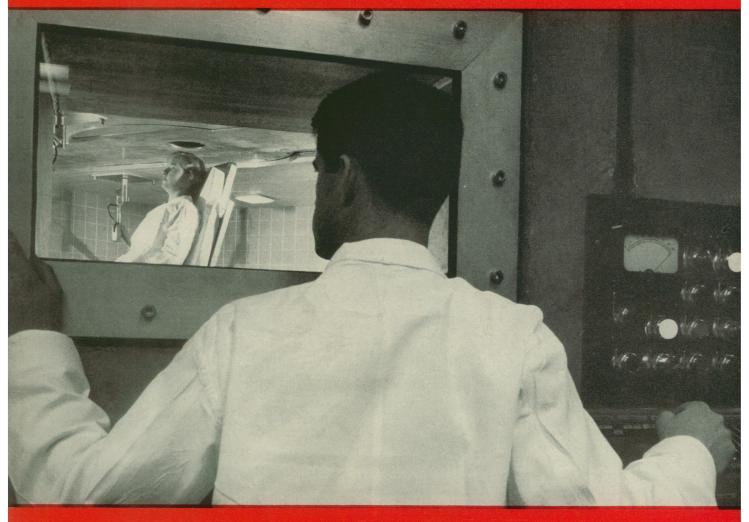
## SCIENCE NEWS LETTER

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THE WEEKLY SUMMARY OF CURRENT SCIENCE



MIT "Hot" Room

See page 99

A SCIENCE SERVICE PUBLICATION

# Encouraging Science Talent . . .



### THE NATIONAL SCIENCE YOUTH PROGRAM

The Science Service National Science Youth Program, dedicated to the development of science talent among youth, in operation since 1941, is effective, widespread and resultful in acquainting youth with science and technology.

Over 500,000 boys and girls in junior and senior secondary schools participate in over 20,000 science clubs affiliated, at no cost, with Science Clubs of America, sponsored by Science Service. With the basic material furnished, these groups conduct, inspire and encourage science experiment and experience predominantly through the six golden years of pre-college education.

There are each March or April, science fairs organized through encouragement and distribution of "know-how" by Science Service. Science fairs were held in 1958 in about 150 areas in the nation. Some 400,000 youths annually show their science and technology exhibits and projects in the fairs and in the preliminary fairs held in high schools. As top awards, contestants in local and regional fairs are sent to the National Science Fair, conducted by Science Service in a different city each May. More than 325 students will attend the 10th National Science Fair in Hartford, Connecticut, May 6, 7, 8, 9, 1959.

Science fairs are conducted by local organizations that enlist participation of school systems, colleges, industries, newspapers, service clubs, museums, etc. This is a "grass-roots" operation which reaches youth with directness. Good teachers espouse and encourage it. All the science factors in a community can cooperate. The hope

is that there will be a science fair available to every interested student. Now, well over a half of the nation is covered geographically. State academies of science and other science groups, including the National Science Foundation, are taking leadership in the movement, cooperating with Science Service.

The annual Science Talent Search for the Westinghouse Science Scholarships and Awards, conducted by Science Service, the 18th of which is now in progress, selects from all the high school seniors of continental United States, those whose scientific skill, talent and ability indicate a potential creative originality.

The Science Talent Search is the pioneering demonstration that successful scientists of the future can be spotted at the high school level. Studies of 40 winners and honorable mentions chosen each year show that they fulfill magnificently their expectations, more than half going on to doctoral degrees. Entrants in 32 states have the opportunity of further recognition in State Searches.

Experimental kits (THINGS of science, etc.), magazines (SCIENCE NEWS LETTER and CHEMISTRY), services to newspapers, radio programs, etc., are Science Service activities that support and implement the science youth program.

Additional participation in this national science youth program, at national and local levels, will augment the future supply of scientists and engineers.

### Books Worthwhile Reading

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### SCIENTIFIC INSTRUMENTS YOU CAN MAKE

How teen-age scientists have designed and built astronomical instruments, spectroscopes, Tesla coils, oscilloscopes, cloud chambers, atom counters, Van de Graaff generators, electronic computers, stroboscopes, and demonstrated ultrasonics, chromatography, photomicrography and mathematical constructions. Illustrations show the completed instruments. References guide the reader to research in the fields opened by use of these instruments. Fully indexed, cloth bound. Edited by Helen M. Davis.

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Their properties, sources, most important isotopes, characteristic compounds, places in the periodic table and histories of their discoveries, including announcements. Up-to-date, revision includes element 102. Fully indexed, paper bound. Invaluable for reference. By Helen M. Davis with revisions by Dr. Glenn T. Seaborg. Will be available for mailing October 1. Postpaid 10 copies for \$5.00. Each 55c

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Science Exhibits tells you how to select your material, how to plan its presentation, how to display, to label and to light it, how to describe the work you have done, how to tell about it so that those who think science is "too difficult" will understand and share your enthusiasm. Fully indexed, cloth bound. Edited by Helen M. Davis.

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### **EXPERIMENTING WITH CHEMISTRY**

For those who wish to start experiments in chemistry, this is a guide and laboratory manual which includes, as well, detailed explanations of reactions and processes for advanced students. More than 125 experiments. Special sections on sympathetic inks, spectacular reactions, spontaneous combustion, blow pipe analysis and metallurgy. By Burton L. Hawk. Fully indexed, clothbound.

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### THOUSANDS OF SCIENCE PROJECTS

Are you looking for something to do in science? Do you need inspiration for a science exhibit? Do you want a suggestion for a project report? Every student can find answers to these questions in this 48-page, illustrated booklet listing classified titles of exhibits shown at science fairs and/or produced as projects for the annual Science Talent Search.

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### HOW TO GET INTO SCIENCE AND ENGINEERING

A leaflet published by Science Service to inspire and inform students interested in scientific careers . . . tips for the high school student, necessary prerequisites, How to do a Science Project, career possibilities.

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### LAWS OF MATTER UP-TO-DATE

A new edition of the list of fundamental laws of physics which have been changed as the result of new discoveries of the atomic age. By Helen M. Davis.

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### PERIODIC TABLE OF ELEMENTS

Both the Mendeleyev and Bohr arrangements. An up-to-date chart of the chemical elements by groups and series with spaces for new elements through the hypothetical No. 118, which can be filled in as they are announced. By Helen M. Davis.

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