

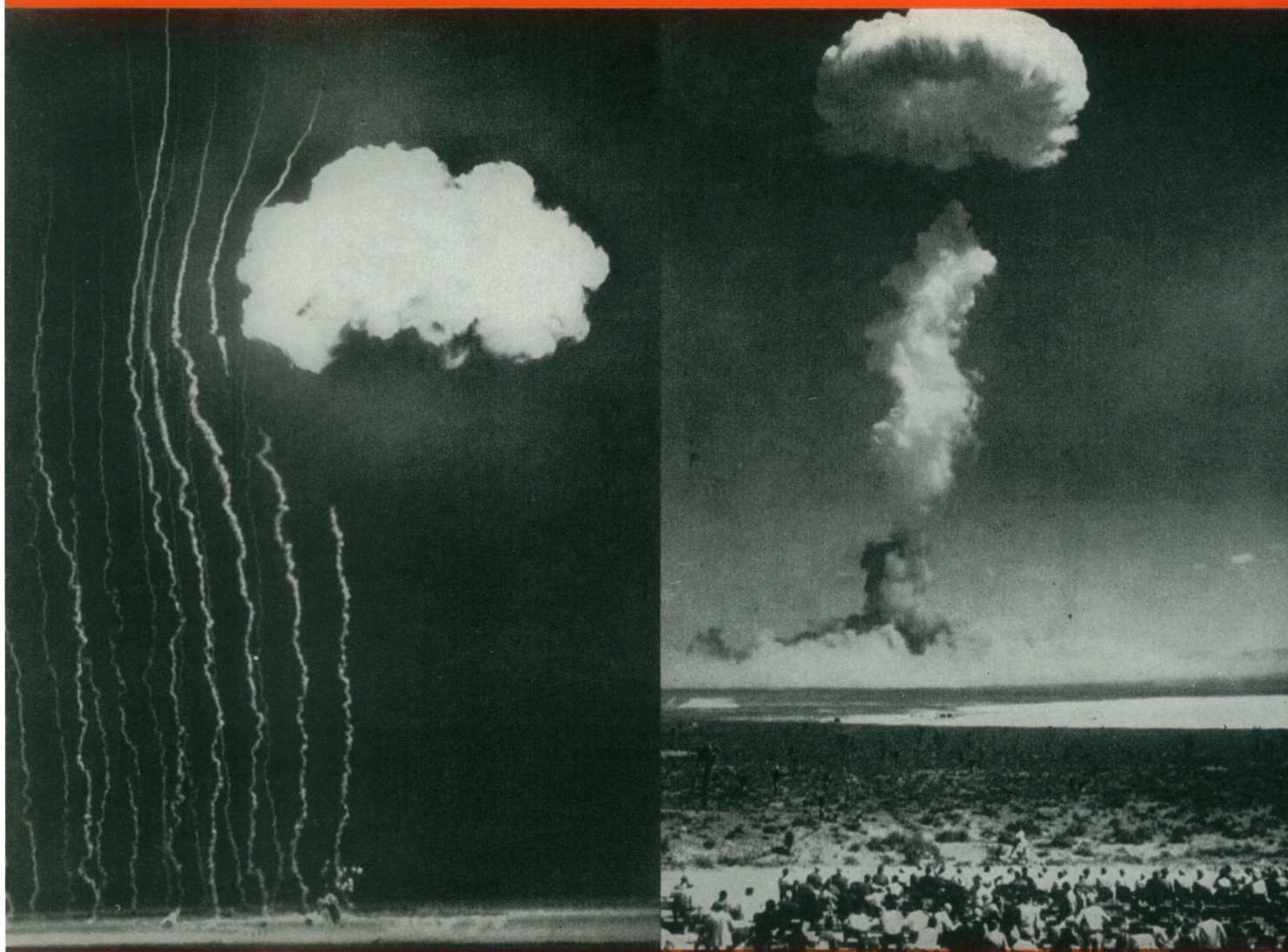
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MAY 3, 1952

SCIENCE NEWS LETTER

®

THE WEEKLY SUMMARY OF CURRENT SCIENCE



Operation Big Shot

See Page 275

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Thunder Hunters



Thunder hunting equipment on location near Madison, Florida. Loop antenna on truck picks up static. The engineer in top picture is watching the indication of a circuit which registers how often the static exceeds a given level.

Many new telephone circuits have two jobs to do—carrying your voice and transmitting signals to operate dial exchanges in distant towns. And an old-fashioned thunderstorm can interfere with both!

“Rolling static” comes from many storms over a wide area and can interfere with clear telephone talk. A nearby lightning flash makes “crack static” which, unchecked, plays hob with dial system signals.

So Bell Laboratories scientists go “Thunder Hunting” in the storm centers of the United States—“capturing” storms by tape recorders. Back in the Laboratories, they recreate the storms, pitting them against their new circuits. This method is more efficient and economical than completing a system and taking it to a storm country for a tryout. It demonstrates again how Bell Telephone Laboratories help keep costs down, while they make your telephone system better each year.

BELL TELEPHONE LABORATORIES



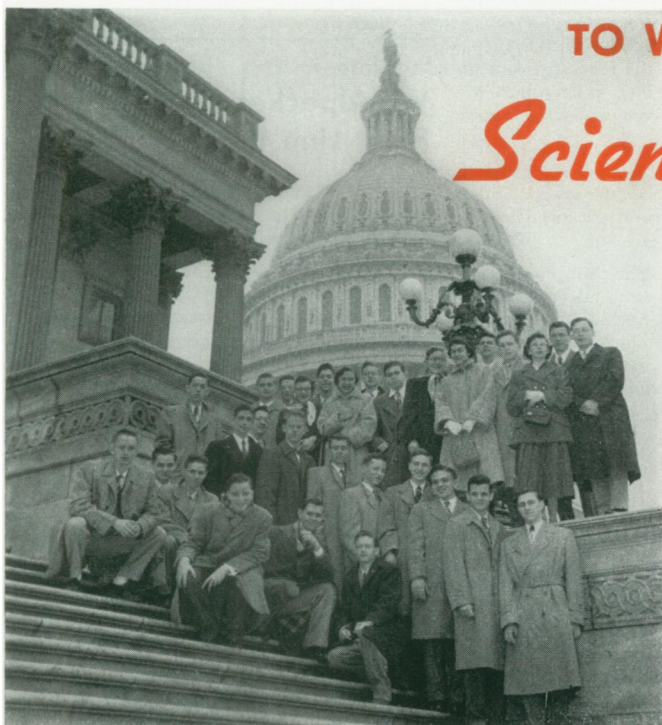
*Improving telephone service
for America provides careers
for creative men in scientific
and technical fields.*

SENIORS OF 1953

Start Now on YOUR SCIENTIFIC PROJECT

TO WIN in the *Twelfth* ANNUAL

Science Talent Search



Conducted by SCIENCE CLUBS OF AMERICA, a SCIENCE SERVICE activity and sponsored by the WESTINGHOUSE EDUCATIONAL FOUNDATION, an organization endowed by the WESTINGHOUSE ELECTRIC CORPORATION for the purpose of promoting education and science.

**You have a chance to share in
ELEVEN THOUSAND DOLLARS**

**in WESTINGHOUSE SCIENCE
SCHOLARSHIPS AND WIN
TRIPS TO WASHINGTON**

Start your project NOW

- 1** Pick a subject that you can investigate at first-hand, preferably one about which you can do more than just read. Typical projects of Science Talent Search winners have been in such fields as Aeronautics, Agriculture, Astronomy, Botany, Chemistry, Electronics, Geology, Mathematics, Meteorology, Medical Sciences, Nutrition, Photography, Physics, Psychology, Radio, and Zoology.
- 2** Whatever your project may be—read about it. Learn what has already been done. It is often desirable to repeat previous experiments, but it should be done deliberately and for a purpose.
- 3** Write what you did, not merely what you read. Tell it in simple language; follow it through step by step. Then tell what you observed as a result of your experiments, and what conclusions you draw from these observations.
- 4** Fancy writing has no place in science. There has been great writing in the sciences but it is the greatness of strength and simplicity.

WRITE A REPORT of about 1,000 words on the subject, "MY SCIENTIFIC PROJECT." Your report should tell what you are doing or plan to do in science in the way of experimentation or other research activity. It should be original and creative in character. Now, before the school year ends, is the time for high school seniors of 1953 to get started on science projects. With an early start you can plan a project, carry it through more carefully, write a better report on it. Next December take an examination which tests your ability rather than your fund of information. Supply your school with information about yourself to be sent in with your report and examination papers.

Do these three things and you may be among the forty boys and girls who will win all-expense trips to the Science Talent Institute and compete for scholarships for the continuation of your education. Of the forty, one will be selected as winner of the \$2,800 WESTINGHOUSE GRAND SCIENCE SCHOLARSHIP; another as winner of the \$2,000 WESTINGHOUSE GRAND SCIENCE SCHOLARSHIP; eight more of the forty boys and girls will be selected to receive WESTINGHOUSE SCHOLARSHIPS of \$400 each; and \$3,000 more in WESTINGHOUSE SCHOLARSHIPS will be awarded at the discretion of the judges. Every one of the forty boys and girls will, when in Washington, be awarded the GOLD EMBLEM OF SCIENCE CLUBS OF AMERICA.

SEE YOUR SCIENCE TEACHER

or write SCIENCE CLUBS OF AMERICA, 1719 N Street, N. W., Washington 6, D. C.