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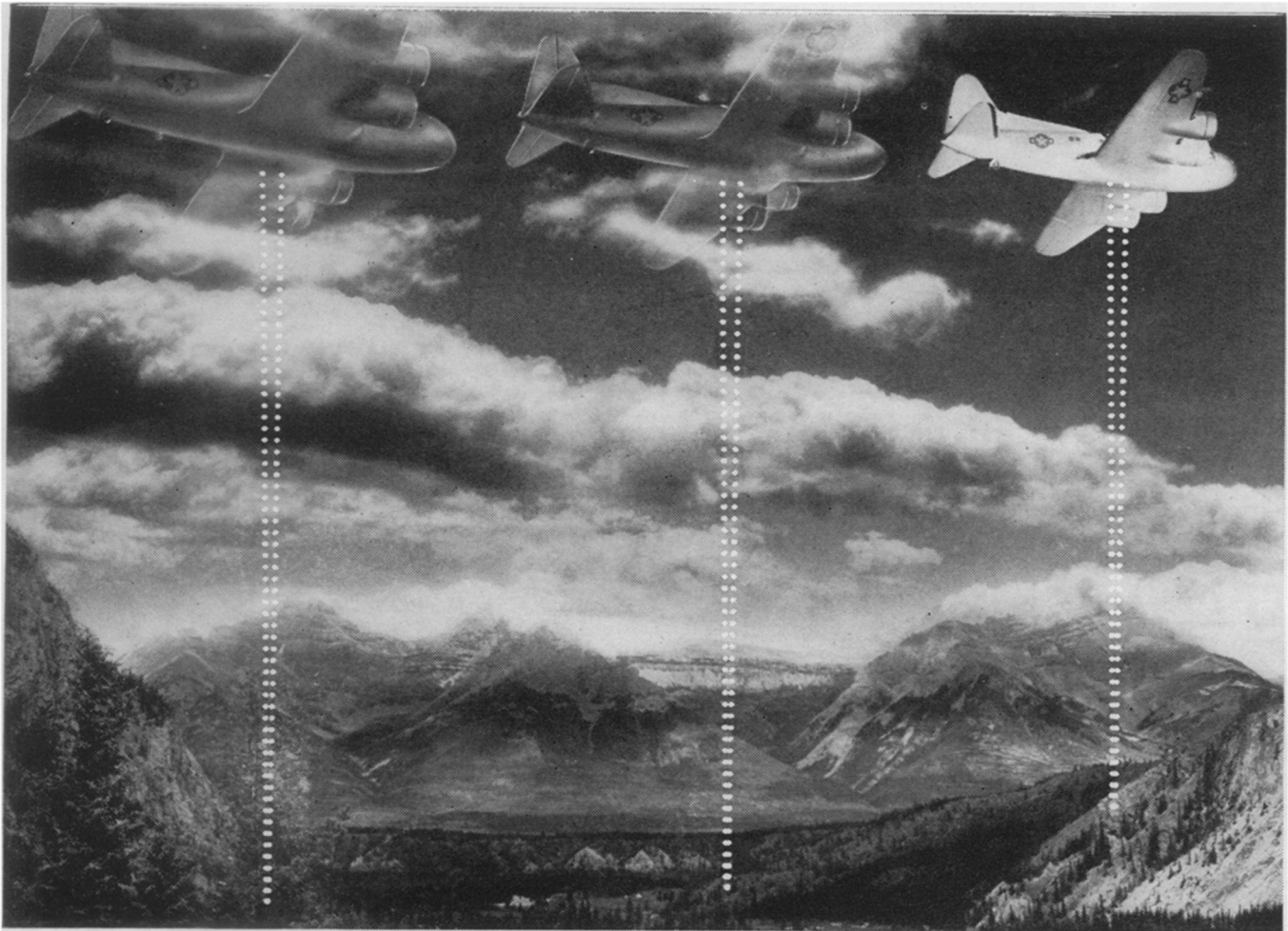
SCIENCE NEWS LETTER

THE WEEKLY SUMMARY OF CURRENT SCIENCE • SEPTEMBER 29, 1945



Fall Fruit
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A SCIENCE SERVICE PUBLICATION



The RCA Radio Altimeter assures that the last mountains have been passed before letting down to the airport in the valley below.

Measuring "every bump on the landscape" —at 20,000 Feet!

A radio altimeter—that indicates the exact height above land or sea—is another RCA contribution to aviation.

Old-style altimeters gave only the approximate height above sea level—did not warn of unexpected "off-course" mountains.

To perfect a better altimeter was one of science's most baffling problems. So RCA developed an instrument so accurate it "measures every bump on the landscape" from the highest possible altitudes... so sensitive it can measure the height of a house at 500 feet!

This altimeter—actually a form of radar—directs radio waves from the airplane to earth and back again... tells the pilot ex-

actly how far he is from the ground... warns of dangerously close clearance... "sees" through heaviest fog or snow.

All the radio altimeters used in Army, Navy and British aircraft were designed and first produced by RCA. This same pioneering research goes into *every* RCA product. So when you buy an RCA Victor radio, Victrola, television receiver, even a radio tube replacement, you enjoy a unique pride of ownership. For you know it is one of the finest instruments of its kind that science has yet achieved.

Radio Corporation of America, Radio City, New York 20. Listen to *The RCA Show, Sunday, 4:30 P. M., E. T., over NBC.*



The RCA radio altimeter will be a major contribution to the safety of post-war commercial flying. The section at the left sends the radio waves to earth and back again while the "box" at the right—timing these waves to the millionth of a second—tells the navigator the plane's exact height in feet.



RADIO CORPORATION of AMERICA

Have you a son or daughter interested in SCIENCE?

IF SO, ask your child to give this page to a science teacher, or scout master, or to any adult awake to the possibilities of developing young minds to scientific understanding. SCIENCE CLUBS OF AMERICA will help such a person organize a science club.

Young people use their spare time learning in these clubs, and have fun while learning. Read below the sort of intelligent fun science clubs provide; then see that this page is given to an interested person, so that he can send for the free, useful handbook giving information on how to organize a science club.

Andover, Massachusetts

PHILLIPS ACADEMY SCIENCE CLUB, *Elbert C. Weaver*, Sponsor. 15 members, boys. Each member has an interest of his own, such as: isolation of metallic beryllium, building a model dirigible, constructing an electric furnace, mathematical analysis of wave patterns, casting brass, preparation of explosives, making rain gauges, lens and mirror grinding, dismantling motors.

Lawrence, Kansas

JUNIOR ACADEMY CLUB, H. S., *Miss Edith Beach*, Sponsor. 11 boys, 3 girls. Their programs of demonstrations and reports on work in chemistry, testing cloth, dissection of animals, penicillin, plastics, sulfanilamide, dyes and quinoline, are open to the public. At one program each year the local Kiwanis Club awards cash prizes.

Deming, Washington

SCIENCE CLUB, Mt. Baker H. S., *Miss Dorothy Massie*, Sponsor. 63 boys, 14 girls. They have constructed for their science department the following equipment: a slide and film strip projector opaque projector, delineoscope, induction coil, incubator, dehydrator, electric furnace, micro projector, photo microscope, wind tunnel, radios, code oscillator. Club does photography for the school annual and electrical repair work; gives an assembly program, holds a community open house. Some members are lab assistants. Members like to construct lab equipment because it makes science more practical and saves money for more equipment.

Port Washington, New York

RETORT CLUB, H. S., *Edward Pickett*, Sponsor. 12 boys, 5 girls. Established 16 years. They concentrate entirely on chemistry and do experiments at every meeting. They make soil tests for residents of the community to help them get fullest yields from their gardens.

Rivers, Arizona

CANAL STUDENTS OF SCIENCE, Canal Elementary School, *Miss Alice J. Marshall*, Sponsor. 35 boys. During the summer months they collect and mount insect specimens common to the southwestern desert. During the winter they experiment in the field of elementary chemistry.

Rush City, Minnesota

FSA SCIENCE CLUB, H. S., *Walter E. Mielke*, Sponsor, 11 boys, 10 girls. They took over the "deteriorating" school museum, have cleaned, rearranged, renamed and

added to the collections. It is now open to students and public. Members visit places such as a cement plant, creamery, mill, an orchard to watch spraying. The Club holds a Fair featuring garden products and plant hobbies.

Boyertown, Pennsylvania

SCIENCE CLUB, H. S., *Miss Winifred Y. Moyer*, Sponsor. 20 boys. They study aviation history, make models, fly model planes, hold identification contests, display medals in a downtown store window. They built an airplane model embodying the ideas of all members.

Houston, Texas

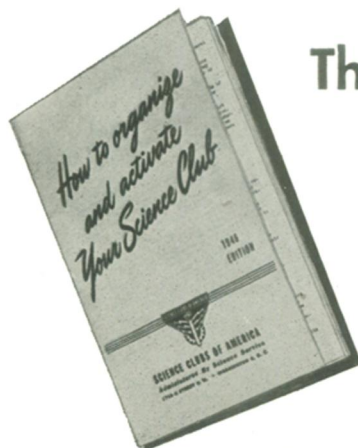
ALETHEIA CLUB, St. Agnes Academy, *Sister M. Stephana*, Sponsor. 34 girls. Because many want to be doctors, nurses or laboratory technicians, best-liked programs are on medicine, penicillin, plastic surgery, cinchona planting. They investigated the use of the Chinese tallow trees, growing well in the area, as a source of oil and soap. While this didn't prove practical on a commercial scale, they made candles from the oil, used the wood for printing blocks and the leaves for dye. The chemists they consulted while making their investigations became interested in the Club and have started them on new lines of study of other plants nearby.

Santa Maria, California

SCIENCE CLUB, H. S., *W. D. Steimle*, Sponsor. 6 girls, 12 boys. Favorite subjects: electricity, chemistry, radio, astronomy, meteorology, aeronautics. The group visited an air base meteorology station; a naval base to see dredging; a sugar refinery; and an oil well to observe drilling. The Club completed a six-inch reflecting telescope; is now constructing a seismograph. From their meteorology station they "predict" weather. Their president, who was awarded an honorable mention in the annual *Science Talent Search*, did important work in the solidification of mud.

Brooklyn, New York

SCIENCE WORKSHOP, Brooklyn H. S. of Automotive Trades, *Robert R. Peterson*, Sponsor. 10 boys. For the 3 years of its existence the Club has put on an auditorium science program each term. Members build model airplanes, repair electrical equipment for the school and for the homes. They make showcase exhibits and animate them. They put science puzzles in their showcases and offer prizes for the best solutions of them. They run the school's weather bureau and visual aid equipment. They take part in Parents' Night demonstrations. In their meetings they practice the demonstrations they give later before the school assembly.



This handbook tells how to start



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

Please send me free a copy of "How to Organize and Activate Your Science Club" and include further information about membership without charge in SCIENCE CLUBS OF AMERICA.

Name of Sponsor _____ Position _____

School or Organization _____

Street Address _____

City _____ Zone _____ State _____