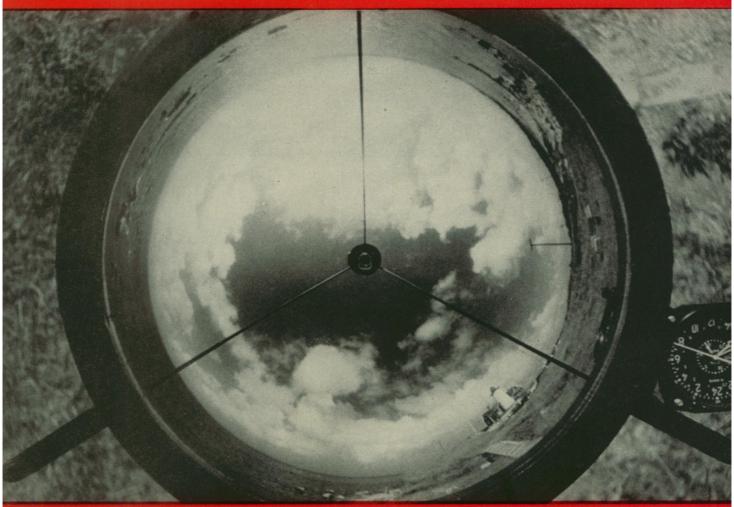
SCIENCE NEWS LETTER

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THE WEEKLY SUMMARY OF CURRENT SCIENCE

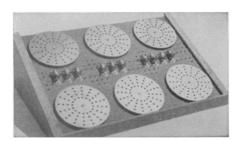


Whole Sky Mirrored

See Page 46

A SCIENCE SERVICE PUBLICATION

Why have hundreds of schools bought GENIAC, The Electric Brain Construction Kit?



This is the control panel of GENIAC set up to solve a problem in symbolic logic analysis.

We think it's because GENIAC is the only kit and text combination that presents the basic ideas of cybernetics, boolean algebra, symbolic logic and computer circuitry so simply that a twelve year old can construct what will still fascinate advanced students.

The partial list of our institutional purchasers below indicates a cross section of our customers. GENIAC is not only an excellent classroom demonstrator but it provides hours of fun abuilding. As such it makes a perfect present for the science minded teen-ager. As a father-son project it can't be beaten.

GENIAC is sold to all customers on a one week return guarantee. You may actually use it in that time, returning it as is if you decide not to keep it.

Order yours now only \$19.95

Some of the 33 GENIACS you can build from the completely detailed instruction manual are: LOGIC MACHINES: Comparing; Reasoning; Syllogism Machine; Intelligence Tester. GAME PLAYING MACHINES: Tic-Tac-Toe; Nim (Think you can beat the machine?).

ARITHMETICAL MACHINES (Binary and Decimal): Adder; Subtractor; Multiplier; Divider; Arithmetical Carrying.

CODE MACHINES: Secret Coder; Secret Decoder; Combination Locks.

SIMPLE MACHINES: Burglar Alarm; Automatic Oil Furnace Circuit.

PUZZLE SOLVERS: The Space Ship Airlock; The Fox, the Hen, the Hired Man and the Corn; The Uranium Shipment and the Space Pirates.

ACTUARIAL: Douglas MacDonald's Will.

GENIAC parts are specially manufactured to high tolerance; they include a special six deck switch of unique design and over 400 components plus a book "GENIACS SIMPLE ELECTRICAL BRAIN MACHINES AND HOW TO MAKE THEM." GENIAC is a remarkable buy for

only \$19.95

Kit and instructions are returnable for full refund in seven days. This is a perfect father and son project; your whole family and your friends will enjoy the finished machines. You can design new computers from the adaptable parts.

MAIL THIS COUPON
SCIENCE KITS, Dept. SL-17-C, Oliver Garfield Co., 126 Lexington Ave., New York 3, N. Y. Please send me:
1 GENIAC Electric Brain Construction Kit and Manual.
\$20.95 (Elsewhere in United States)
\$21.95 (Outside the United States)
\$19.95 (East of Mississippi)
Returnable in seven days for full refund if not satisfied. I enclose \$in full payment.

My name and address are attached.

SOME FIRMS AND INSTITUTIONS THAT HAVE ORDERED GENIAC:

Allis-Chalmers
Remington-Rand
International Business Machines
Wheeldex Mfg. Co.
Manuel Missionary College
Walter V. Clarke Associates
Barnard College
Westinghouse Electric
Phillips Laboratories
General Insurance Co. of America
Lafayette Radio
Rohr Aircraft Co.
Southwest Missouri State College
Fibreglas Corp.
Stamford Research Institute
The Hecht Co.
American Management Assoc.
De Pauw University Hydro Electric Tower
Adams State Teachers College
Abercrombie and Fitch
Kleinschmidt Laboratories
Kansas State Teachers College
Albert Einstein Medical College
Naval Research Laboratories
Board of Education, Tecumsah, Nebraska
Marshfield Public Schools
Los Angeles Public Schools
Los Angeles Public Schools
Jefferson Union High School
Oklahoma A&M
Kansas City University
Duke University
Coral Gables Senior High School
Courtland Jr. High School
Bell Telephone Laboratories
Lovell Public Schools
Clearwater High School
St. John's Seminary
Orange County Community College
Norningside College
University of Ottawa
. . . an hundreds of other individuals
and institutions

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.

About 400,000 boys and girls in junior and senior secondary schools participate in 16,000 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 high school education.

There are each March or April, science fairs organized through encouragement and distribution of "know-how" by Science Service. Science fairs are being held in 1957 in about 160 areas in the nation. Some 200,000 youth annually show their science and technology exhibits and projects. As top awards, contestants in these local fairs are sent to the National Science Fair, conducted by Science Service in a different city each May. Approximately 300 students will attend the Eighth National Science Fair in Los Angeles, May 9-11, 1957.

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 are taking leadership in the movement, cooperating with Science Service.

The annual Science Talent Search for the Westinghouse Science Scholarships, conducted by Science Service, the 16th 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 260 honorable mentions chosen each year show that they fulfill magnificently their expectations, more that 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.