SCIENCE NEWS LETTER



F

THE WEEKLY SUMMARY OF CURRENT SCIENCE



Electricity From Heat

See Page 357

A SCIENCE SERVICE PUBLICATION

IS THERE A GIFTED CHILD IN YOUR HOUSE?

If there is, he or she is apt to be interested in many of the items on this page. But if you want even more information about interesting books, equipment, or toys suitable for gifted children be sure to get the Christmas Issue of the Gifted Child Magazine, the only publication in the United States devoted just to the special problems of tomorrow's leaders.

Each issue includes original reports, summaries of important research, reviews of books, and special articles for parents and teachers.

Join hundreds of new subscribers, including U. S. Department of Health, Education and Welfare, public and private schools throughout the United States. This bi-monthly is only per year

WATERPROOF STOP WATCHES



These beautiful German addition timers are waterproof, shockproof, and dust protected with unbreakable mainsprings. Measuring time in tenths of a second they are ideal for research, athletic events, or production timing. Extremely light weight they are accurate far beyond their cost giving the value of much more expensive instruments.

A limited quantity available at \$15.95

postpaid

ATOMOTRON

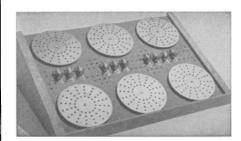
- MINIATURE ATOM **SMASHER**
- PRODUCES 75,000 **VOLTS**
- ABSOLUTELY SAFE



In no sense of the word a toy or gadget. The ATOMOTRON is a scientific instrument capable of producing 75,000 volts—makes sparks up to 2" long—yet it is absolutely safe because the current is infinitesimal. The science teacher—science lover—or hobbyist can perform experiments to astound students—friends—family. Makes smoke disappear—defy gravity—turns propellers at a distance—transforms atomic energy into light—makes artificial lightning—smashes atoms—demonstrates ionic space ship drive—and many other experiments. Constructed of the finest materials. Will do exactly—for instruction purposes—what generators that cost 3 to 10 times more will do. The perfect device to teach the secrets of atomic physics and electric— In no sense of the word a toy or gadget. The to 10 times more will do. The perfect device to teach the secrets of atomic physics and electricity. Will hold an audience spellbound as it performs trick after amazing trick. Includes an experiment kit and illustrated experiment manual. Manual explains the "how" and "why." You will invent many new experiments of your own. A fine research tool that will give years of beneficial service to the institution or indi-vidual who owns one. Available in kit form or

.....Net 14.95 AssembledNet 19.95

WHICH GROUP ARE YOU IN?



GENIAC® in Assembly Rack

ENGINEER	OR	RESE	ARCH	WORK	(ER
who wants	to le	arn mo	ore abo	out the	ap-
nlication of	com	nuters	to his	proble	me

☐ TEACHER in high school or college who needs laboratory or demonstration material on computers.

SCIENTIFIC AMATEUR who wants to learn about computers but doesn't know how to begin.

STUDENT impatient for teachers to begin.

FAMILY MAN who wants some fun with his kids.

THOUSANDS OF PEOPLE FROM THESE GROUPS HAVE BOUGHT AND ENJOYED GENIAC®, THE ELECTRIC BRAIN CONSTRUCTION KIT.

THE MANUALS are a survey of the applications of symbolic logic in reducing various problems to repetitive machine solution. We explain the theory and illustrate with complete wiring diagrams.

THE 200 PAGE TEXT gives an overview of the whole computer field.

THE KIT OF MATERIALS contains over 400 parts, switches, all wire and tools necessary for building and designing over 50 different computing game playing, problem solving circuits. YOU benefit from the experience of thousands of users incorporated in the latest revised

WE GUARANTEE ABSOLUTELY that unless you are completely satisfied with your GENIAC® kit, you may ship it back to us within 7 days and we will return your money.

SEND NOW! ONLY \$19.95 POSTPAID

HYPERSPEED READING

. . for me meant increasing my reading speed from 600 to 1800 words per minute, enough to finish a novel in half an hour, to triple the number of technical journals and reports I read. Much to my surprise my comprehension went up and studying became easier as I enjoyed reading more.

I went from normal reading speed to hyperspeed reading in thirty hours of intensive reading practice at a leading reading clinic, and immediately thought how wonderful it would be for people who don't have the time or opportunity to take such improvement work to do it at home, for several hours a day.

Ever since then I have gathered materials which are proven, widely used and time-tested in clinics, schools and reading centers but are adaptable to use by adults working at home without supervision. You will immediately increase your reading speed with them if your reading habits are correct but can be accelerated, with practice.

The kit includes a reading rate accelerator with cards, two books of practice materials with technical exercises that test reading speed and comprehension.

Price of kit including reading rate accelerator, basic manual, technical reading manual.

Kit R1 \$24.00 postpaid

WATCH THE SATELLITES GO BY

A clear, accurate, stable telescope for planets, stars or ground observation. Complete with Tripod and Case. 30x40



Complete \$19.95

Advanced Courses in Computer Operation

DIGITAL COMPUTER COURSE

Shows how to set up and build computers and experiment with pulses, gates, storage, add. subtract, multiply, design circuits. Manuals, wiring diagrams and texts provide a complete introduction to theory and practice.

\$28.00 Course C-1....

ANALOG COMPUTER COURSE

Lists sources of materials parts, theory and practical instructions, plus wiring diagrams and schematics for adding, multiplying, integrating and differentiating; gives practice in calculating scale factors, choice of time scales, machine equations and block diagrams. \$28.00

ELECTRONIC MEMORY COURSE

The course contains instructions for building relay memories, magnetic core memories and tube storage memories, with detailed descriptions of methods of storing information and automatically giving instructions to electronic devices. Suitable for all levels—particularly designed for people who have some knowledge of electronics. Including Texts:

Course C-3

\$28.00

Forty Courses Available in Scientific Subjects. Send for Free Catalog

Course C-2...

Minth NATIONAL SCIENCE FAIR

FLINT JUNIOR COLLEGE

FLINT, MICHIGAN

May 7, 8, 9, 10, 1958

You, young scientist in secondary school, are the hope of our country. The need for expertly trained scientists is paramount for, as other nations step up their scientific programs, we, too, must advance, must make strides that will forge the importance of our country far ahead. The President, the heads of the administration, ask your help.

Are you working on a project to be exhibited in a science fair affiliated with the national?

Last year over 250,000 boys and girls made exhibits that were shown in regional activities leading to the national event. From this number 231 were selected to be shown at the Eighth National Science Fair in Los Angeles.



a Scientific Exhibit

begins with an idea. To this add everything your ingenuity can visualize. Test new factors that will make for clarity, drama, instant eye-appeal, for each exhibit must meet scientist-judges without a word of explanation. Let the story your project tells be clear, concise, dynamic.

Multiple backing by outstanding organizations will spur you to success.

You will not be working alone. Colleges, universities, newspapers, scientific clubs will assist you every step of the way. Funds from both local and national groups will enable you to progress in your chosen field of science.



James Barclay Compton, winner of one of the top awards in the Eighth National Science Fair, Los Angeles, May 9-11, 1957

Awards

Each finalist attending the Ninth National Science Fair will be given a gold and silver medal inscribed with his name, school and date. The top twelve exhibits will be awarded scientific material and equipment ranging in value from \$50 to \$125. Twenty-five per cent of the remaining exhibits will be given \$25 each.

The Official Party

You, as a finalist, will be the star of the gathering. With you will be educators, newsmen and women, scientists. Much is being planned in your honor in Michigan Universities and in industrial plants. Many privileges will be extended to you. You will learn of the scientific work now in process that will have its effect on all of our lives.

Michigan — home of scientific and industrial achievement — welcomes you.

For entrance information of the nation-wide program write:

NATIONAL SCIENCE FAIR

SCIENCE CLUBS OF AMERICA

A SCIENCE SERVICE ACTIVITY

Washington 6, D. C.

1719 N Street, N. W.