

15¢

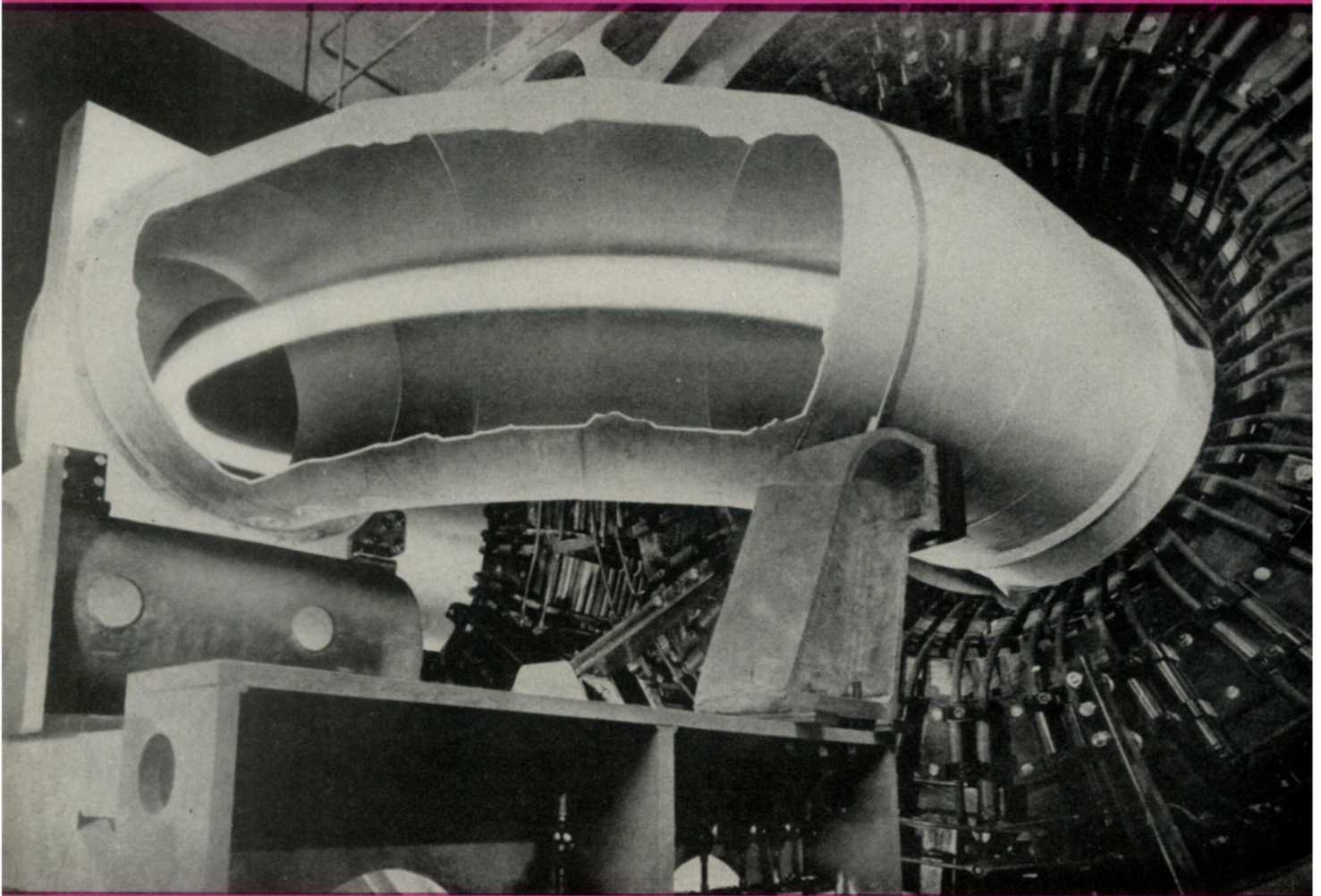
\$5.50 A YEAR

February 1, 1958

VOL. 73 NO. 5 PAGES 65-80

# SCIENCE NEWS LETTER

THE WEEKLY SUMMARY OF CURRENT SCIENCE



From A to ZETA

See Page 67

A SCIENCE SERVICE PUBLICATION

**Just Imported:**

# World's Smallest Adding Machine

**Fits in Your Pocket! Saves You Time, Money and Mistakes! Perfect for Salesmen, Students, Housewives, Business Men, Storekeepers, Etc. Adds and Subtracts Up to 1,000,000 in Seconds!**

**IT NEVER MAKES A MISTAKE  
WHAT IT WILL DO FOR YOU:**

- BALANCES CHECK BOOK
- CHECKS SCORES
- KEEPS YOU ON BUDGET
- TOTALS CAR MILEAGE
- CHECKS GROCERY TAPES
- DOES 1001 OTHER ADDING AND SUBTRACTING CHORES—EACH IN SECONDS!
- DOES HOME WORK
- TOTALS SALES SLIPS

FROM WEST BERLIN, GERMANY, COMES NEWS OF AN AMAZING time saving, work saving, money saving invention. The world's smallest, precision made adding machine that adds up to 1,000,000 . . . subtracts to 1,000,000 . . . does it in seconds . . . AND NEVER MAKES A MISTAKE!

A beautifully made machine that saves you endless hours of mental work every year . . . saves you time . . . cuts out costly mistakes . . . lets you check bills, catch errors, add up your budget, keep score and perform 1,001 other

adding and subtracting chores . . . all in a matter of seconds and without a single mental effort on your part!

### A German Invention

The secret is a scientific principle acknowledged to be perfect by experts throughout the world. Developed by German scientists who named it ADDIATOR, this wonder-working precision adding machine is now being used all over Europe. Shell Oil, Dunlop Rubber, American Express and other companies as well as millions of people like you in 51 countries use and rave over ADDIATOR.

From all over come reports of nerve-racking additions of long columns becoming easy as a game . . . of the speed . . . the sureness . . . the simplicity of this miracle machine! Think what this means to you. Now at last you can check everything you buy . . . every bill . . . every statement . . . and never lose a penny because of mistakes. You can add up your budget . . . check your children's school work . . . add up checks . . . inventories . . . records car mileage . . . expenses . . . keep track of what you spend each day . . . yes, do 1,001 everyday adding and subtracting jobs.



Here's a money saving use for amazing ADDIATOR, the world's smallest adding machine. Add up your Super-Market items as fast as you take them off the shelves. Know how much you're spending as you go along! SAVE by knowing when to stop spending. Stay within your budget! And eliminate costly mistakes at the check-out counter by knowing the total in advance . . . before the clerk has punched a single figure!

**ADDIATOR is sent to you complete with FREE CARRYING CASE with Full Money Back Guarantee.**

**3 1/2 MILLION IN USE, SAVING TIME, WORK AND MONEY**

Used by **United States Army, Nine European Governments, Giant Firms Throughout the World!**

**Marvel of Design Never Needs Repairs**

Not a toy—not a gadget. Amazing ADDIATOR and all its moving parts are constructed entirely of aluminum or brass. It lasts a lifetime. Best of all, even a child can add or subtract up to 1,000,000 without a mistake.

**ADDIATOR is in Short Supply!**

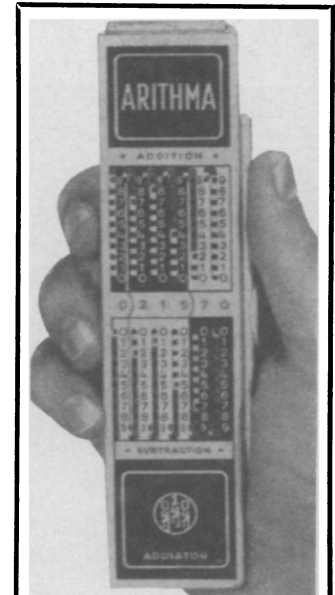
All that amazing new ADDIATOR costs is \$3.98. That's because it is made in West Germany. Yet it is just as accurate as costly office adding machines. But because the supplies available in this country are very limited, Only if you act at once can we guarantee to fill your order. This free trial offer will not be repeated in this magazine this year.

### FREE TRIAL OFFER

No longer do you have to be a slave to figures. Avoid the costly mistakes everyone makes of being too lazy to check bills and statements. Try amazing ADDIATOR for one week free.

See how beautifully constructed it is . . . how easy to read the numbers . . . how smooth and silent the operation.

See for yourself how ADDIATOR adds up your bills in seconds . . . totals your grocery bills like lightning . . . checks your bank



**ADDIATOR Is Super Accurate—Super Fast!**

Add or subtract the longest columns without effort. Addiator checks bank statements in seconds . . . checks bills . . . budgets . . . does homework. NO MORE MISTAKES. Keeps a running total, automatically!

statement in nothing flat . . . figures up your mileage . . . does 1,001 adding or subtracting jobs for you and NEVER MAKES A MISTAKE.

Use it to check bridge, canasta and other scores. Let your children check their homework in seconds. Put ADDIATOR to every test. If you don't agree it will save you endless time, effort and money, you have used it entirely free. It won't cost you a penny.

**3 1/2 Million Amazing ADDIATORS Now in Use Throughout the World. Be the First in Your Area to Own One**

### MAIL FREE TRIAL COUPON TODAY

HARRISON HOME PRODUCTS CORP., Dept. 2-SNL  
8 Kingsland Avenue, Harrison, New Jersey

Please send my ADDIATOR with free carrying case as checked below for one full week's NO RISK TRIAL. IF ADDIATOR does not do all my adding and subtracting for me in seconds . . . without ever making a mistake . . . if it doesn't save me time, effort and money . . . then you will refund my money immediately including postage.

- I enclose \$3.98 with full money back guarantee. Send ADDIATOR postpaid. I save all C.O.D. charges.
- Send ADDIATOR C.O.D. I will pay postman \$3.98 plus C.O.D. postage. Same money back guarantee.

NAME .....

ADDRESS .....

CITY ..... ZONE ..... STATE .....

SAVE! Order one ADDIATOR for yourself, another for a gift. TWO ADDIATORS sent for \$6.98. You save \$1.00.



# Questions

**BIOLOGY**—What characteristic does a marine fungus share with bacteria, algae and animals? p. 78.

**MEDICINE**—How can skin grafts be used to predict the characteristics of the animals' offspring? p. 71.

What group of chemicals does the new tuberculosis drug belong to? p. 72.

**PHYSICS**—How long were British scientists able to keep the hot plasma isolated from the container walls of ZETA? p. 67.

Photographs: Cover, British Information Services, Inc.; p. 67, American Cyanamid Company, Lederle Laboratories Division; p. 74, George Washington University; p. 80, Eastman Chemical Products, Inc.

## Do You Know?

*Hemiplegia* is the medical term for the partial paralysis that may occur as a result of a cerebral vascular accident, commonly called a "stroke."

By using the rate of decay of radioactive potassium, the *age* of bedrock under New York City has been established at 380,000,000 years.

More than 1,250 *caves* are known in western Virginia; of these more than 300 occur in Montgomery County.

*Sea anemones* are static animals that live by entrapping other organisms with the stinging tentacles.

One *farm worker* feeds about 18 people with 1,600 pounds of food a year per person.

## MICRO-ADS

Equipment, supplies and services of special interest to scientists, science teachers and students, science-minded laymen and hobbyists.

25¢ per word, payable in advance. Closing date 3 weeks prior to publication (Saturday).

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### PRINTING

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### BOOKS AND MAGAZINES

OUT GEMS, MAKE JEWELRY—FOR PROFIT or fun. 100 page magazine tells how; where to get supplies. Sample 25¢ or request free literature. Lapidary Journal, Del Mar 1, Calif.

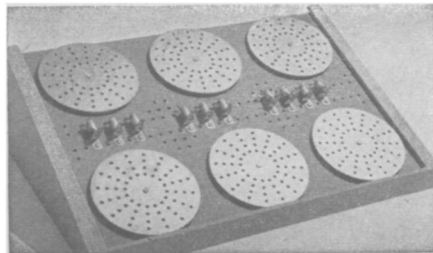
### VITAMINS

VITAMINS—SAVE 45%. ALL FORMULAS. Buy Direct. Free Catalog. Mention product now using for free sample. Vitaspec, Box 4435N, Philadelphia 40, Pa.

### OPTICAL EQUIPMENT

SEE THE WONDERS OF OUTER SPACE through Skyscope, a reflecting telescope. Free information with photos of parts. Skyscope Inc., Box 53, Brooklyn 28, N.Y.

## WHICH GROUP ARE YOU IN?



GENIAC® in Assembly Rack

- ENGINEER OR RESEARCH WORKER** who wants to learn more about the application of computers to his problems.
- 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.
- INVETERATE GADGETEER**
- 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 100 PAGE TEXT** gives an overview of the whole computer field.

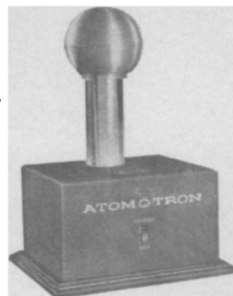
**THE KIT OF MATERIALS** contains over 400 parts, switches, all wire and tools necessary for building and designing over 50 different computing game playing, problem solving circuits. **YOU** benefit from the experience of thousands of users incorporated in the latest revised manual.

**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**

## ATOMOTRON

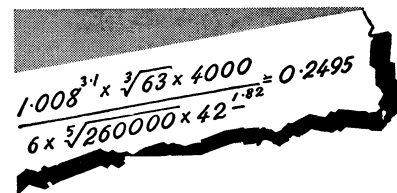
- **MINIATURE ATOM SMASHER**
- **PRODUCES 75,000 VOLTS**
- **ABSOLUTELY SAFE**



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 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 individual who owns one. In kit form or assembled.

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## A 66-inch Slide-rule for your pocket



Slide Rule Open

The GENIAC® Calculator carries 66-inch spiral scales yet measures only ten inches fully extended and six inches when closed. Four to five figure accuracy can be relied on. It is indispensable to the scientist, research worker and student. Administrative staff and business men will find it of tremendous value for a host of estimating and checking calculations.

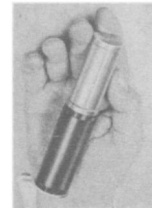
The GENIAC® Slide Rule solves multiplication, division, percentage calculation and gives 5 place logarithms.

You may use it for 30 days and if you are not satisfied repack and mail it back.

### What our users say:

"It does all you claim—four or five figure accuracy without eyestrain or magnifiers. Half an hour's study is ample for its use." A. E. B. . . .

"I use the GENIAC Calculator for all my slide rule work and need the extra digit which normal slide rules cannot give. I had to get one of my customers a GENIAC Slide Rule last month, after using mine in his office." E. & G. H. Textile Manufacturers.



Slide Rule Closed

Send for yours now—Only \$19.95 postpaid. Use coupon below to order.

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 \$19.95 (East of Miss.).....\$20.95 (West of Miss.).....\$21.95 (Outside the U.S.)

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