SCIENCE NEWS LETTER



(I

THE WEEKLY SUMMARY OF CURRENT SCIENCE

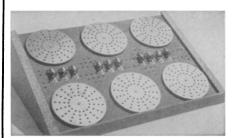


Hawks Poised

See Page 391

A SCIENCE SERVICE PUBLICATION

WHICH GROUP ARE YOU



GENIAC® in Assembly Rack

ENGINEER	OR	RESEA	RCH	WORKER
who wants				

- 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

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

Address....

WHY YOU WILL ENJOY GENIAC®

Specially designed materials, switches, manuals, wiring diagrams and texts plus our question answering service and study guide make up the complete course in computer fundamentals.

OLIVER GARFIELD CO., Dept. SL-67-D 126 Lexington Avenue, New York 16, N. Y.

Please send me postpaid			rain C	on-
I enclose \$19.95 (check or money Mississippi, \$21.95 outside of the Unit	order).	\$20.95	west	of
Name				

FREE



THE NEXT ISSUE of **SCIENCE NEWS LETTER** to one of your friends

SCIENCE NEWS LETTER 1719 N Street, N.W. Washington 6, D. C.

Please send the next issue of Science News Letter, FREE, as a sample, to:

_	
Name	
Āddress	
City	Zone
State	6.22

MICRO-ADS

Services and supplies of special interest to the professional and amateur scientist!

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

SNL 1719 N St., N.W., Washington 6, D. C.

OPTICAL EQUIPMENT

SPECIALISTS USED MICROSCOPES AND ACcessories. Prepared slides. Microscopy supplies. Biological kits. Scientific oddities. Meteorites, minerals, sea shells. Insects in alcohol. Telescopes. Our fully illustrated catalog free. Research Scientific Supplies. Inc., 126 West 23rd Street, New York 11, N.Y.

ANY BINOCULAR, TELESCOPE, REPAIRED \$7.50; complete overhaul, all makes, returned postpaid. Dealers wanted. Nye Optical, 2100 Cherry, Long Beach 6, Calif.

BOOKS AND MAGAZINES

NATIONAL GEOGRAPHIC MAGAZINES: 1888-1957, any issue. Send wants. Free price list, litera-ture. Periodical Service, Box 465—NL. Wilmington, Deluwire. ture. Per Delaware.

PUBLISHERS

BOOK MANUSCRIPTS INVITED—CO-OPERA-tive publishers since 1925; circular free. Meador Publishing Co., 324 Newbury St., Boston, Mass.

MISCELLANEOUS

RECORD COLLECTORS. FREE CATALOG wrought iron racks. Leslie Creations. Lafayette Hill 46, Penna.

46, Penna.

BINDERS FOR SNL—STURDY BUFFcolored buckram. Individual snap-in metal strips hold
full year's 52 copies. Only \$4.00 postpaid. Send
order with remittance to Science News Letter, 1719
N Street, N. W., Washington 6, D. C.

THINGS OF SCIENCE—ACTUAL SAMPLES
of interesting specimens, or new products, of scientific
research. Sent monthly to members at \$5.00 per
year. Send order and remittance to SCIENCE SERVICE, 1719 N Street, N. W., Washington 6, D. C.

ASTRONOMY—How did "planetary" nebulae get their name? p. 395.

CHEMISTRY—What precious metal is used in making high octane fuel from low-grade gas?

GEOPHYSICS—How does the moon camera help astronomers photograph the moon and the stars? p. 390.

PLANT PATHOLOGY—How are red blood cells used to test for plant virus? p. 392.

TECHNOLOGY—What device makes the sun-powered radio helmet useful when the sun is not shining? p. 387.

PHOTOGRAPHS: Cover, Raytheon Manufacturing Co.; p. 387, U. S. Army; p. 388, Gulf Research and Development Co.; p. 389, Perkin-Elmer Corporation; p. 390, Lick Observatory, Uni-versity of California; p. 400, Deckruss Enter-

Do You Know?

Indian medicine men are collaborating with the Public Health Service to promote acceptance of modern medicine among American Indians.

If the sidewinder snake does not reach shade or shelter in a matter of minutes, it may die because its body is incapable of adjusting to extreme heat.

A high-quality protein food produced locally in Mexico is a mixture of millet and peanut-oil cake, with fish flour added to make up for deficiency of lysine in the vegetable protein.

Gamma rays from radioactive cobalt are being used to detect and control the level of molten titanium in a new "cold hearth" arc furnace.

Distribution for human consumption of salt containing anti-malarial drugs has been suggested to control malaria.

HIGED ELECTRIC CENERATOR

OSLD LLLUINIO GENERATUR
Cost Over \$20.00 New; While They Last, \$3.95
Generates Up to
75 volts. Use to
generate elec-
tricity, ring
bells, light up
lights, as a medical
battery, deliver terrific
electric shock as joke,
many electrical experi-
ments, classroom uses, etc.
Cost over \$20 new. Used
but excellent operating con-
dition. Hand crank or gear
wheel drive. Made by lead-
ing electrical companies.
Each has 3 or 4 five-inch 1-lb. bar magnets (alone worth more than total cost), generating armature
wire leads, gear crank, ready for use. Originally used
in crank phones. Complete unit weighs over 5 lbs
in crank phones. Complete unit weighs over 5 ibs

New CATALOG of 3000 NOVELTIES



Tricks, jokes, funmakers, hobbies, magic, gadgets, sports, cameras, jewelry, auto & bike Items, science articles, office & house gadgets, books, seeds, games, music, etc. Catalog 10¢.

Johnson Smith Co., Dept. 554, Detroit 7, Mich.

LET'S BE HONEST ABOUT LANGUAGE RECORD COURSES - INCLUDING

Can you learn to speak French like a Parisian in a few hours of home study? Will a few revolutions of a record in your living room qualify you for a highpaying job in your dream country? Can a record get you invited to diplomatic receptions, or teach you more French than the elevator man on the Eiffel Tower knows?

You occasionally see claims like these. But such promises are misleading and overstated. They overestimate what language records can do. All record courses have limitations, including our own LISTEN AND LEARN, and it is best to admit these limitations honestly. We do not promise to remove your American accent; nor to give you the equivalent of several years of advanced college study in a few days. There is no substitute for conscientious study under a good college teacher. Nor do we offer you scientific German or French poetry or commercial Spanish—these really cannot be taught by records. But here is what we do offer you.

The only full course designed to teach you TRAVEL LANGUAGE!

If you want a refresher for polishing up for-It you want a refresher for polishing up forgotten languages, or if you want a really good pronunciation aid, or if you want IMME-DIATELY USEFUL LIVE LANGUAGE FOR TRAVEL OR EVERYDAY LIVING ABROAD, you will find LISTEN AND LEARN ideal for your purposes.

What LISTEN AND LEARN will do for you . . .

If you work for a reasonable length of time at LISTEN AND LEARN, your travel will become immeasurably broader and more pleasant, AND YOU WILL SAVE MONEY.

You will be able to leave the tourist tracks, and see those sights that you would otherwise miss—without being afraid of getting lost. You will be able to ride buses or streetcars, instead of expensive "hotel limousines." You will be able to make most of your wants known without interpreters. You will be able to route yourself by air, boat, or train; you will be able to make hotel reservations, shop for supplies or souvenirs, cash checks and change money, introduce yourself to people, inquire directions, send out laundry, see a doctor, have your car or camera repaired—and dozens of other necessary actions.

"I drove all through France, but for two weeks I lived on ham and eggs.

Don't let this happen to you because you cannot speak to a waiter or do not understand menus. With LISTEN AND LEARN you can go into any restaurant and order either foreign or American food, and give special instructions to the chef. You will be able to select foreign food by choice rather than by accident. No grammatical drills, no memorization of long lists of obsolete words—WE HAVE DONE THE WORK FOR YOU. Everything is avail-

able for you in a form that you can use immediately, without previous grammatical training.

UNBELIEVABLE VALUE! Only \$4.95 for 3 high-quality records!

LISTEN AND LEARN is not a cut-rate product. It is different: the only purposive, oriented course on the market. It is not a rehash of other sets. Our recording is high fidelity, equal to anything on the market costing up to \$6.00 per record. We use only native speakers who are professors at Columbia, N.Y.U., Queens College, and other major American universities.

WHAT YOU GET . . .

1½ hours of recording on each set; more than 800 foreign sentences, phrases. Each set contains 3 ten-inch 33 1/3 records, manual containing everything on the records, album.

Why LISTEN AND LEARN is better!

√ 128-page book contains everything on records, plus phonetic transcription readable at sight.

√ INDEXED. Only record set completely indexed! Everything available at a fingerflip!

√ Two-language recording. Both English and foreign language recorded, with a pause for you to repeat after the native speaker. Learn by unconscious assimilation.

V LIMITED OBJECTIVE. Realistically planned, so that you can stop anywhere, and still use everything you've learned.

√ UNIQUE MATERIAL. Scores of those modern words you use every day, yet never get into dictionaries: nylon, air-conditioned, etc.

"I had two years of French, but don't remember a word!"

LISTEN AND LEARN is a wonderful refresher. It is also invaluable for students, both beginning and advanced. It supplements any language book or course, and offers the real language that people really speak.

ENTHUSIASTICALLY ACCEPTED!

"Excellent . . . phrases are well-chosen . . . the spoken records impress me as being among the very best on the market," Prof. Mario Pei. Columbia U. "I have had experience with several other sets of language records which were

useful, but none of them equalled yours in sim-plicity, practical usefulness, and general satis-faction in use," Daniel Howard. Superintend-ent Emeritus, Bd. of Education, Windsor, Conn.

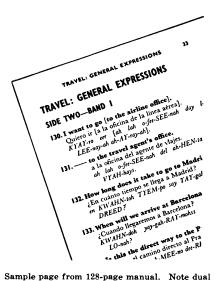
Best bon voyage gift you can give

"Inexpensive and well-done—an ideal present," TRAVEL EDITOR, Chicago Sunday Tribune. "More genuinely helpful than anything of its kind which I have previously encountered," SYDNEY CLARK, well-known author of "ALL THE BEST" travel books.

SEND NO MONEY! TRY IT FIRST!

Detach this coupon and send for your sets of LISTEN AND LEARN now, before the rush starts. YOU RISK NOTHING! Send no money. At the end of 30 days either send us \$4.95 per set plus 40¢ postage per set, or return the set and be under no further obligation to us. No questions asked.

Or, if you prefer, send your payment with your order, and Dover will pay postage. Here again you risk nothing: you are covered by our unconditional money-back guarantee: you can return the set within 10 days, and your money will be immediately refunded in full.



Sample page from 128-page manual. Note dual language recording, easily read phonetic transcription, index numbers.

AS	LISTEN AND LEARN
Learn Franch	French
Learn Learn	Spanish
Control of the second	German
	Italian
Each set: Three 10" 33 1/3 records	, book, album\$ 4 .95

Dept. 105, Dover Publications, Inc. 920 Broadway, N. Y. 10, N. Y.
Please send me the following sets of LISTEN AND LEARN:
LISTEN AND LEARN FRENCH \$4.95 LISTEN AND LEARN SPANISH \$4.95 LISTEN AND LEARN ITALIAN \$4.95 LISTEN AND LEARN GERMAN \$4.95
I understand that I may keep these sets for 30 days, at which time I shall either return them (and be under no further obligation)

or pay for them at a rate of \$4.95 per set. plus 40¢ postage per set.

Name	·····
Address	
City	Zone State

☐ Check here if payment accompanies order. In this case Dover pays postage. You are covered by our money-back guarantee.