

Many hibernate; and there are all degrees of hibernation. Some, like ground squirrels and frogs, pass into a "death-seeming swoon," from which it is extremely difficult to arouse them without warming them up to springtime temperature. Others, like bears and some species of squirrels, sleep deeply or lightly, as particular environmental conditions dictate. Some bears go into their dens in autumn and are not seen again until spring. Others emerge during thaws and forage for a little extra food to supplement their stored fat. In the South, of course, bears do not hibernate at all.

Many animals, like hawks and owls, chickadees and nuthatches, the fox, wolf and weasel tribes, rabbits and quite a number of rodents, are able to find enough food to keep their life-fires going full blast all winter, especially since the majority of them are able to make or find warm shelter of some kind.

Science News Letter, November 14, 1953

An inch-square bar of a new titanium alloy containing aluminum and tin can withstand a pulling force of 110,000 pounds.

Hydrogen peroxide seems to wear out, though kept in a tightly closed bottle, because its extra oxygen atom is easily detached, producing oxygen and water.



**SELLS 20 ARTICLES AFTER ENROLLING FOR N.I.A.—AT 70!**  
"I am 70 years of age and have had over 40 years in the U. S. Army. I wanted to write and decided to try the N.I.A. Since enrolling, more than twenty articles have been accepted by the El Paso Herald Post. I find writing thrilling."—M. A. Palen, Lt. Col., 2901 N. Piedras St., El Paso, Texas.

## To People who want to write but can't get started

**DO YOU** have that constant urge to write but fear that a beginner hasn't a chance? Here is what the former editor of Liberty said:—"There is more room for newcomers in writing than ever before. Some of the greatest of writing men and women have passed from the scene. Who will take their places? Fame, riches and the happiness of achievement await the new men and women of power."

### A Chance to Test Yourself—FREE

The Newspaper Institute of America offers a FREE Writing Aptitude Test. Its object is to discover more men and women who can add to their income by fiction and article writing. The Writing Aptitude Test is a simple but expert analysis of your latent ability, your powers of imagination, logic, etc. Those who pass this test are qualified to take the famous N. I. A. course based on the practical New York Copy Desk Method which teaches you to write by writing. You work at home, in leisure time, constantly guided by experienced writers. Soon you acquire the coveted "professional" touch. Then you are ready to market your stories, articles and news items.

### Mail the Coupon Now

Taking the FREE Writing Aptitude Test requires but a few minutes and costs nothing. So mail the coupon now. Take the first step towards the most enjoyable and profitable occupation—writing for publication! Newspaper Institute of America, One Park Ave., New York 16, N. Y. (Founded 1925)

(Licensed by State of N. Y.)

**FREE** Newspaper Institute of America  
One Park Avenue, New York 16, N. Y.

Send me, without cost or obligation, your Writing Aptitude Test and further information about writing for profit as promised in Science News Letter, November 14.

Miss \_\_\_\_\_  
Mrs. \_\_\_\_\_  
Mr. \_\_\_\_\_  
Address \_\_\_\_\_

City \_\_\_\_\_ Zone \_\_\_\_\_ State \_\_\_\_\_  
(All correspondence confidential. No salesman will call on you.) 117-T-783  
 Check if Veteran.

Copyright 1953 Newspaper Institute of America

### ORNITHOLOGY

## New Birds Discovered In Arabian Sultanate

► A NEW babbler, lark and warbler were discovered by an expedition of the Academy of Natural Sciences of Philadelphia to the Arabian Sultanate of Muscat and Oman.

William K. Carpenter headed the expedition to the independent Arab state which covers an 800-mile strip of coastline fronting on the Gulf of Oman and the Arabian Sea.

The new lark was named *Ammomanes deserti taimuri*, Muscat Desert Lark, in honor of Sultan Said bin Taimur of Muscat and Oman. Carpenter's Streaked Wren Warbler, *Prinia gracilis carpenteri*, was named for Mr. Carpenter. *Turdoides squamiceps muscatensis*, Muscat Brown Babbler, was the third subspecies discovered.

The lark is an exceptionally dull-colored, grayish race of desert larks. The Muscat Babbler has a shorter bill, wing and tail than its closest relatives and is less brownish in color. The new warbler has fine markings and is somewhat larger than similar birds found in India.

Complete descriptions of the new subspecies have been published by the Academy of Natural Sciences.

Science News Letter, November 14, 1953

## LINGUAPHONE for LANGUAGES

World's Standard Conversational Method



French • Spanish • Italian  
German • Russian • Japanese  
Norwegian • Portuguese

any of 29 languages available

Language Teacher for 30 Years Praises Linguaphone "Of all methods I know, the Linguaphone Course best fulfills the requirements of real everyday speech."—Dr. Venzlaff.

No Textbook Can Teach You to Speak

With LINGUAPHONE World's Standard Conversational Method, you bring a foreign land right into your own home—you LISTEN and LEARN another language in the same easy, natural way you learned English long before you went to school. It's like living in another land.

### LEARN AT HOME

AT HOME you hear native men and women speak about every day matters. You listen—you understand—YOU SPEAK correctly, easily, naturally. You read and write. You can learn in 20 minutes a day.

Used internationally by scientists, schools, colleges, governments, Armed Services and business firms for personnel training. Over a million home-study students.

Stop Wishing. Start Talking. Save Time. Work. Money. WRITE TODAY for fascinating FREE book, "Passport to a New World of Opportunity." Mail coupon now. Linguaphone Institute, 3111 Mezz., Rockefeller Plaza, N. Y. 20.



LINGUAPHONE INSTITUTE  
3111 Mezz., Rockefeller Plaza,  
N. Y. 20, N. Y.

Send me your FREE book.

LANGUAGE INTERESTED \_\_\_\_\_  
NAME \_\_\_\_\_  
ADDRESS \_\_\_\_\_  
CITY \_\_\_\_\_ ZONE \_\_\_\_\_ STATE \_\_\_\_\_

# Questions

**DENTISTRY**—What is effect of adding antibiotics to tooth fillings? p. 312.

□ □ □

**GENERAL SCIENCE**—How does the defense effort curtail other research? p. 313.

□ □ □

**INVENTION**—How many patent copies are requested per day, on the average, at the Patent Office? p. 308.

□ □ □

**METEOROLOGY**—What are the advantages of numerical forecasting over present methods? p. 309.

□ □ □

**PHYSICS**—Why is the "swindletron" so named? p. 310.

□ □ □

Photographs: Cover, Fremont Davis; p. 307, United Press Photo; p. 309, Argonne National Laboratory; p. 314, Department of Defense; p. 315, North American Aviation, Inc.; p. 320, Minneapolis-Honeywell Regulator Co.

# UNITRON

### GIFTS for the AMATEUR SCIENTIST

UNITRON Refractors are the most wanted telescopes in America today! Unexcelled for combined astronomical and terrestrial use. Write for free educational literature on how to select a telescope and illustrating all UNITRON Models. Learn why astronomy is today's fastest growing hobby!



### ALTAZIMUTH REFRACTORS

COMPLETE with mounting and slow motion controls, tripod, view finder, erecting prism system (2.4" and 3" models), star diagonal, sunglass, wooden cabinets, etc.

1.6" MODEL: with eyepieces for 78X, 56X, 39X ..... only \$75  
2.4" MODEL: with eyepieces for 100X, 50X, 35X ..... only \$125  
3" MODEL: with eyepieces for 171X, 133X, 96X, 67X, 45X ..... only \$265  
Additional eyepieces available for all models.

### OTHER UNITRON REFRACTORS

4 INCH PHOTO-EQUATORIAL ..... \$890  
4 INCH EQUATORIAL ..... 785  
4 INCH ALTAZIMUTH ..... 465  
3 INCH PHOTO-EQUATORIAL ..... 550  
3 INCH EQUATORIAL ..... 435  
2.4 INCH EQUATORIAL ..... 225  
Time payment plan available.

ALL INSTRUMENTS FULLY GUARANTEED  
Send check or m.o. or 25% deposit with balance C.O.D. Write for illustrated literature: Dept. L-118.

United Scientific Co.

204-206 MILK STREET, BOSTON 9, MASS.