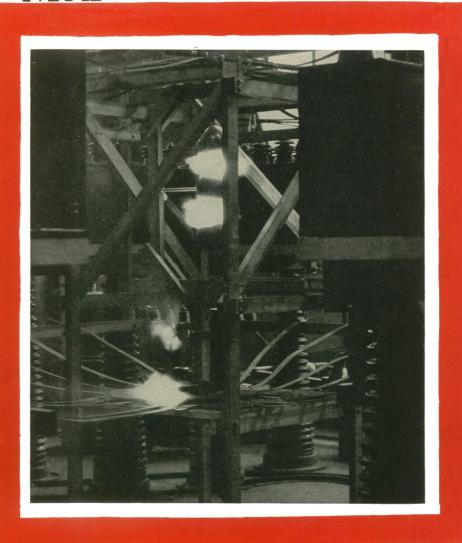
SCIENCE NEWS LETTER

THE WEEKLY SUMMARY OF CURRENT SCIENCE •





JULY 21, 1934



Rival of Lightning

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SCIENCE SERVICE PUBLICATION

SCIENCE NEWS LETTER



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DO YOU KNOW?

Great coal seams occur within a hundred miles of the South Pole.

The Great Lakes region is known to weather men as one of the stormiest lands in the world.

A new fumigant is being successfully used to fight the "bookworm" that eats up books and bindings.

Canada is trying to create a market for her wheat surplus by using grain alcohol as motor car fuel.

China has begun to adopt American methods of soil survey, and is taking an inventory of her soil fertility resources.

Grasshopper poisoning, if properly conducted, will do little or no injury to birds, says the Bureau of Biological Sur-

Sales of Japanese silks in the United States have become reduced to a point where the Japanese silk industry is endangered.

A telescope now being constructed for Padua Observatory will be the largest in Italy.

Modern doctors have never agreed in identifying the cause of the poet Milton's blindness.

In 1868, the death rate for New York City's slum areas was six times what it is today.

Snakes, as a whole, are beneficial to mankind in that they destroy myriads of insects and rodents.

The usual interval between a lightning flash and the rumble of thunder is 50 to 75 seconds.

WITH THE SCIENCES THIS WEEK

How far away can the stratosphere balloon be observed with an $8\frac{1}{2}$ inch telescope? p. 40.

Archaeology

Why is the Columbia River Valley of particular interest to archaeologists? p. 39.

Where did Encke's comet get its name? p. 46. Comets—Charles P. Olivier—Williams and Wilkins, 1930, \$3.50.

BIOLOGY

Where is the wapiti to be found? p. 47.

Where do plants grow most actively? p. 47.

DENDROLOGY

How is Dutch Elm disease spread? p. 38. Insects and Diseases of Ornamental Trees and Shrubs—E. P. Felt and W. H. Rankin—Macmillan, 1932, \$5.

ENGINEERING

How can rushing water harm the power plants at great dams? p. 45.

How can the photoelectric cell be used to measure smoothness? p. 36.

ENTOMOLOGY

Where do the chinch-bugs winter? p. 35.

GENERAL SCIENCE

What royal personage is an archaeologist? p. 38.

GEOLOGY

What are batholiths? p. 46.

ICHTHYOLOGY
What stimulates a fish to change his color?

MARINE ENGINEERING
What use does the penguin make of his wings in swimming? p. 37.

In what animal was the tularemia germ first found? p. 42. Tularemia—Walter M. Simpson—Hoeber, 1929, \$5.

METALLURGY

Why is nickel of great importance in wartime p. 41.

Will less than normal rainfall during the remainder of July ruin the corn crop? p. 40.

METEOROLOGY—RADIO

How long does it take to radio a weather map? p. 40.

NUTRITION
What effect does deficiency of zinc have on mice? p. 41.

How much current passes in the ordinary natural lightning stroke? p. 37.

PHYSICS-RADIO

What are the Kennelly-Heaviside layers? p. 36.

Physiology

What effect has high-frequency radio current on the brain? p. 35.

Where does the newly found antihemorrhagic vitamin occur? p. 41. The Vitamins—H. C. Sherman and S. L. Smith—Chemical Cat. Co., 2nd ed., 1931, \$6.

PUBLIC HEALTH

What caused an abrupt rise in deaths from pneumonia? p. 41.
What is the advice of physicians regarding travel to California? p. 45.
Why does prosperity favor the increase of smallpox? p. 39.

Radio

How can announcements at the end of radio programs be cut out? p. 38.

ZOOLOGY What is the age record for a tortoise? p. 39.

These curiosity-arousing questions show at a glance the wide field of scientific activity from which this week's news comes. Book references in italic type are not sources of information for the article, but the references for further reading. Books cited can be supplied by Book Department, Science News Letter, at publishers' prices, prepaid in the United States.