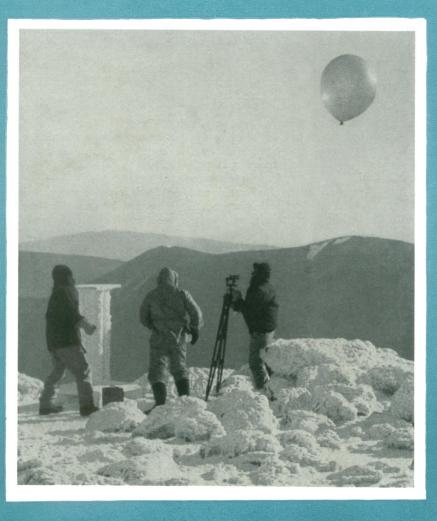
SCIENCE NEWS LETTER

THE WEEKLY SUMMARY OF CURRENT SCIENCE .





MARCH 3, 1934



Off to Measure Stratosphere Winds
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SCIENCE SERVICE PUBLICATION

SCIENCE NEWS LETTER



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Edited by WATSON DAVIS

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DO YOU KNOW?

Sirup from Jerusalem artichokes may become a commercial article of diet.

There is a thousand times more silver than gold in solution in the oceans of the world.

Portable X-ray equipment is found useful in detecting the cause of lameness in valuable horses.

A Roman burying ground has been explored in France, near Blois, and more than 500 tombs opened.

No scientist has ever found a way of seeing through the clouds that always hide the planet Venus from the

In a cemetery in France of the fourth century A.D., workmen found a stone sarcophagus containing a lead coffin, empty except for bottles of ancient 'make-up.'

Among the volcanic rocks in Hawaii National Park are rocks that float on water, rocks that can be heated and held in one's hand without injury, some that look like human hair, and some like wool fiber.

Less than two pounds of radium are available for use in the world today.

A 21-mile scenic highway is being built to the Norris Dam, near Knoxville, Tenn.

An adult Sierra Nevada shrew with a full stomach weighs scarcely one ounce.

A meter which measures the ultraviolet output of sunlamps has been developed.

An earthquake which shook Syrian Antioch in 115 A.D. is said to have caused the deaths of 250,000 people.

Sound motion pictures have just been introduced into Ethiopia, the first being shown before the Emperor and his

The Field Museum in Chicago has specimens of meteorites from more than two-thirds of all the meteorite falls known to science.

Statisticians figure that if a road is shortened by one mile, and about 500 vehicles a day use the route, the saving to these motorists is \$12,500 a year.

WITH THE SCIENCES THIS WEEK

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Will fliers ever be able to see through fog?
p. 143.

Archaeology
How many babies died at Un Shagi? p. 144.

ASTRONOMY
What does "by jiminy" mean? p. 138. Field
Book of the Skies—W. T. Olcott and E. W.
Putnam—Putnam, 1929, \$3.50.

ASTROPHYSICS How many atoms are there in the sun? p.

What new Government aid is promised research? p. 134.

CHEMISTRY Can good wine be made from oranges? p. 136. What is radionitrogen? p. 133.

ECONOMIC ZOOLOGY How much money is invested in American fur farming? p. 135. Economic Mammalogy—Iunius Henderson and Elbert L. Craig—Thomas, 1932, \$4.50.

ENTOMOLOGY

Why will 1934 be a bad grasshopper year?
p. 143. Fundamentals of Insect Life—C. L.
Metcalf and W. P. Flint—McGraw-Hill, 1932,
\$4.

GEOLOGY
How big is the new Yellowstone hot pool?
p. 134.

GENERAL SCIENCE
Does science make or ruin jobs? p. 131.

HISTORY OF SCIENCE
What did Columbus look like? p. 134.

MEDICINE

Could a knife-wound in your head make you lame? p. 133.

METEOROLOGY What is abnormal about this winter's cold waves? p. 140. Why the Weather—Charles Brooks—Harcourt Brace, 1924, \$4.

Are cosmic rays charged particles? p. 143. Will the exact birthplace of a positron-electron pair ever be known? p. 134.

PHYSICS—OPTICS How is artificial "visual persistence" accomplished? p. 140.

PHYSIOLOGY—PHYSICS Is heavy water good to drink? p. 136.

PSYCHOLOGY Are prematurely born babies handicapped mentally? p. 136.
How should children be guided in choosing occupations? p. 132.
What harm is done by "forcing" a child's education? p. 131.

SURGERY How thick is the cerebral cortex? p. 132.

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.

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BELIEVED HIM TO BE NIMROD The first archaeologist to find the site of Nineveh describes the discovery of a gigantic statue in the temple gateway. (Layard, "Nineveh," SNL No. 529).

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Mendeleeff Moissan Ostwald Paracelsus Priestley Priestley Ramsay Scheele Smithson Stromeyer Theophrastus Vauquelin Wöhler Wöhler De Vries Galton Morgan	Periodic Table of Elements Predicting Undiscovered Elements551, Artificial Diamonds Chemical Energy Zinc and Quicksilver Fixed Air (Carbon Dioxide) Discovery of Nitrogen Rare Gases of Atmosphere Phlogiston Theory Mineral Analysis Discovery of Cadmium Mercury Discovery of Glucinum or Beryllium Synthesis of Urea Discovery of Aluminium GENETICS Mutation Natural Inheritance Theory of the Gene Chromosomes in Heredity GEOGRAPHY	380 552 384 577 512 350 592 486 469 448 512 512 512 503 340 518 358 443 358	Dulong & Petit Eastman Einstein Faraday Foucault Fourier Franklin Gilbert Helmholtz Henry J. Herschel Wm. Herschel Hettz Humboldt Kelvin (Thomson) Lorentz Maxwell Michelson Millikan Moseley	Specific Heat/Atomic Weight Early Steps in Photography Electrodynamics of Charged Bodies (Relativity) Induction Coil Velocity of Light Analytic Theory of Heat Leyden Jar Magnetic Dipping Needle Harmony in Music Induction of Electric Current Early Steps in Photography. Heat of the Spectrum Electric Waves Unity of the Universe Carnot Cycle Relativity Heat is Motion (Maxwell's "Demon"). Interference Charge on Electron Atomic Numbers White Light	522 572 512 533 543 545 535 445 535 438 535 438 535 438 535 438 535 438 535 438 535 438 535 545 545 545 545 545 545 545 545 545
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Mendeleeff Moissan Ostwald Paracelsus Priestley Priestley Ramsay Scheele Smithson Stromeyer Theophrastus Vauquelin Wöhler Wöhler De Vries Galton Morgan Weismann Andree "Challenger" Exped. Columbus Humboldt	Periodic Table of Elements Predicting Undiscovered Elements	380 552 384 577 512 350 592 486 469 448 512 512 512 513 340 518 338 443 358 443 359 440 440 440 440 440 440 440 44	Dulong & Petit Eastman Einstein Faraday Foucault Fourier Franklin Gilbert Helmholtz Henry J. Herschel Hertz Humboldt Kelvin (Thomson) Lorentz Maxwell Michelson Millikan Moseley Newton Nicol Oersted Preece, Fleming and de Forest Prout	Specific Heat/Atomic Weight Early Steps in Photography Electrodynamics of Charged Bodies (Relativity) Induction Coil Velocity of Light Analytic Theory of Heat Leyden Jar Magnetic Dipping Needle Harmony in Music Induction of Electric Current Early Steps in Photography Heat of the Spectrum Electric Waves Unity of the Universe Carnot Cycle Relativity Heat is Motion (Maxwell's "Demon") Interference Charge on Electron Atomic Numbers White Light Nicol Prism Magnetism From the Electric Current "Edison Effect" and Electric Tube. Prout's Hypothesis	527 538 549 535 549 535 549 5435 5436 5436 5436 5436 5436 5436 5436
Mendeleeff Moissan Ostwald Paracelsus Priestley Priestley Ramsay Scheele Smithson Stromeyer Theophrastus Vauquelin Wöhler De Vries Galton Morgan Weismann Andree "Challenger" Exped.	Periodic Table of Elements Predicting Undiscovered Elements. 551, Artificial Diamonds Chemical Energy Zinc and Quicksilver Fixed Air (Carbon Dioxide) Discovery of Nitrogen Rare Gases of Atmosphere Phlogiston Theory Mineral Analysis Discovery of Cadmium Mercury Discovery of Glucinum or Beryllium Synthesis of Urea Discovery of Aluminium GENETICS Mutation Natural Inheritance Theory of the Gene Chromosomes in Heredity GEOGRAPHY Balloon Flight Basins of the Atlantic Discovery of America Cataracts of the Orinoco	380 552 384 577 512 350 592 486 469 448 512 512 512 513 340 518 338 443 358 443 359 440 440 440 440 440 440 440 44	Dulong & Petit Eastman Einstein Faraday Foucault Fourier Franklin Gilbert Helmholtz Henry J. Herschel Wm. Herschel Hertz Humboldt Kelvin (Thomson) Lorentz Maxwell Michelson Millikan Moseley Newton Nicol Oersted Precce, Fleming and de Forest Prout Torricelli Van't Hoff	Specific Heat/Atomic Weight Early Steps in Photography Electrodynamics of Charged Bodies (Relativity) Induction Coil Velocity of Light Analytic Theory of Heat Leyden Jar Magnetic Dipping Needle Harmony in Music Induction of Electric Current Early Steps in Photography Heat of the Spectrum Electric Waves Unity of the Universe Carnot Cycle Relativity Heat is Motion (Maxwell's "Demon") Interference Charge on Electron Atomic Numbers White Light Nicol Prism Magnetism From the Electric Current "Edison Effect" and Electric Tube. Prout's Hynothesis	527 538 549 535 549 535 549 5435 5436 5436 5436 5436 5436 5436 5436