

SUN ECLIPSE OBSERVATIONS ARE RELEASED

National Geographic Society-U. S. Navy Expedition Vanguard Returns From Mid-Pacific Isle.

LEADERS PLEASSED

Preliminary Scientific Results Successful, Report To Be Made Later After Data Study

Washington, D. C., July 9.—Huge streams of the sun's corona, reaching out as much as 5,000,000 miles from the sun, and great, flame-like tongues of superheated hydrogen gas extending 30,000 to 50,000 miles above the sun's surface were among the phenomena seen and photographed during the sun's eclipse of June 8 by the National Geographic Society-U. S. Navy Eclipse Expedition which observed it from Canton Island in the mid-Pacific.

These and other preliminary scientific results of the expedition were reported by Dr. Irvine C. Gardner of the National Bureau of Standards and John E. Williams of the U. S. Naval Observatory, first members of the party to return to Washington. They stated that the expedition's observations of the eclipse were highly successful, although the complete scientific results will not be known until after months of study of the hundreds of photographs, spectrographic records and other data that were obtained during the three and one-half minutes of darkness.

Leaders Pleased With Results

Dr. S. A. Mitchell, of the University of Virginia, scientific leader of the expedition, and Captain J. P. Hellweg, U. S. N., superintendent of the Naval Observatory, who was in charge of the Navy's participation, both have sent word to the National Geographic Society that they are greatly pleased with the success of the observations made and expect that the new data will prove to be an important addition to knowledge of the sun. Dr. Mitchell and Captain Hellweg will return to Washington in the next few weeks.

As in previous eclipses the astronomers again found evidence of

the presence of "coronium," a mysterious element in the sun's corona. Coronium is believed by many astronomers to be some element already known, but existing in the sun's corona in a chemical state not familiar to scientists on earth. The expedition has not yet had time to determine whether its records show existence of any elements on the sun not previously known.

Using a process new in eclipse work, the expedition successfully measured the percentage of the light of the sun's corona that is polarized, that is, reflected in such a way that it vibrates in one plane only. These records are expected to prove valuable in study of the composition of the corona, which at present is a scientific puzzle.

Corona Streamers Crisscrossed

The shape of the corona was nearly circular, which is usually the case when the number of sunspots is approaching a maximum, as at present. Photographs show that the streamers of the corona are crisscrossed in many directions, perhaps because the surface of the sun is now extremely turbulent. The total amount of light from the corona was measured and found to be about one-half that of the full moon.

A painting of the eclipse was made by Charles Bittinger, Washington artist. He noted the colors and general appearance of the eclipse during totality and is now adding the finishing touches to the picture.

Dr. Gardner, with the aid of an apparatus which equalized the amount of light reaching the plates from different parts of the corona, photographed both the long streamers of the corona and the prominences, or hydrogen flames extending up from the sun's surface, on the same plate with good definition. He also photographed the eclipse on color separation plates, which record the red, yellow and blue ranges of color separately. These pictures were made with special plates which carried their own filters, thus eliminating the loss of definition which usually arises when filters are used with lenses of extremely long focal length. Later these can be combined in such a way as to give an accurate photograph of the eclipse, with the aid of color plates as depicted in Mr. Bittinger's painting.

Useful Time Data Gathered

Mr. Williams and Captain Hellweg checked the times at which the eclipse began and ended and found that the Naval Observatory had predicted these within a few seconds of their actual occurrence. This check on eclipse timing will be extremely useful to the observatory in its calculations of the movements of the sun, moon and earth, which

are used in determining accurate time for everyday use.

Many photographs were obtained of the total eclipse with various lengths of exposure, and with several color filters, showing the corona and prominences in good detail, and motion pictures of the entire eclipse were taken.

Tests of radio reception during the eclipse indicated that apparently there was less fading of signals during the time that the sun was darkened by the moon than during daylight.

Members of the expedition were: Dr. S. A. Mitchell, director, University of Virginia Observatory, scientific leader; Captain J. P. Hellweg, superintendent, U. S. Naval Observatory, in charge of Navy's participation; Dr. Paul A. McNally, S. J., director Georgetown College Observatory; Dr. Irvine C. Gardner, National Bureau of Standards; Dr. F. K. Richtmyer, Cornell University; Dr. Theodore Dunham, Jr., Mount Wilson Observatory; Charles G. Thompson, president, Foundation for Astrophysical Research, New York; John E. Willis, U. S. Naval Observatory; Charles Bittinger, artist, Washington, D. C.; Richard H. Stewart, staff representative, National Geographic Society; Walter Brown, radio engineer, New York City; M. S. Adams, radio engineer, San Francisco; George Hicks, radio announcer, New York City, all of the National Broadcasting Company; Lieutenant T. B. Williamson, commander of the Avocet, the expedition's ship.

SO THEY SAY!

It was almost as unanimous as a Tammany meeting.

—Alfred E. Smith, after viewing Dublin, Ireland, political meeting.

Guarantee us peace. . . In Europe and Germany will find she has no more useful friend in the world than Britain.

—Arthur Guinness, British Chamber of Commerce official.

Had the United States joined the non-intervention committee. . . the balance would have been turned in favor of the real isolation of the Spanish war and by this time it probably would have been over.

—R. L. Buell, president, Foreign Policy association.

Ever since I got here, I've been looking for the fellow who called them lakes. To me they look more like seas.

—R. E. Frogerbrook, English sailing captain, visiting Great Lakes.

I am amazed at the anti-German feeling here, and I have told people privately that it might mean serious difficulty.

—Lady Nancy Astor, on visit to United States.

The Family Doctor

Normal Functioning of the Kidneys Vital to Good Health and Long Life

(NO. 261)

By DR. MORRIS FISHBEIN
Editor, Journal of the American Medical Association, and of Hygeia, the Health Magazine.

Most of the diseases of the kidney are insidious in their beginning. The inflammation which may eventually destroy life comes so gradually that the person affected may be unconscious of the fact that anything is wrong.

However, even in the very earliest stages, the disease may be detected by a simple examination of the urine that is part of every examination of any applicant for life insurance.

Diseases of the kidney rank high among the causes of death simply because we live longer now than human beings used to live. Therefore, our vital organs gradually break down under the duration and strain of living.

Among these organs the kidneys are of great importance. Fortunately we have two kidneys. One or even a portion of one may keep the human being alive for a considerable period of time.

An examination of students entering one of the great universities showed that 5 per cent of them already had signs in the urine of changes which indicated the beginning of disturbances of the kidney.

Chief among the signs of a beginning disturbance is the presence of protein substance called albumin. Sometimes there may be albumin in the urine without any definite inflammation in the kidney. However, it is not well to gamble on the fact that the presence of albumin is just a matter of chance.

It is much better to have an immediate examination as to the nature of the change that has taken place, if any. This will lead to a decision as to what can be done.

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Your body is a closely linked system of organs and tissues. The heart, the circulation of the blood and the kidneys constitute a system known as the cardiovascular renal system.

The normal functioning of this system is absolutely vital to good health. A disturbance of any one part is likely to be reflected in the other two parts. If the heart is weak, the circulation of the blood will be poor and the activity of the kidneys may be insufficient.

If the kidneys fail to eliminate waste products satisfactorily, these collect in the body and have a most unfavorable action on the circulation of the blood and on the heart.

Be certain that the kidneys are functioning satisfactorily. The certainty is most significant for your health and for the length of your life.

1913 MODEL HITS 45
Cleveland, July 9.—W. M. Cessna drove here from Cadiz, Ohio, in a 1913 automobile and averaged 45 miles an hour. Operated by Cessna's father as a funeral car, it was the first closed "horseless" in Cadiz.

PINEAPPLE-BANANA
CAKE SPECIAL.

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and long cool
drinks.

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or two on the famous Bedford
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the finest in Pennsylvania.
Greens fee \$1.50 per day.

**Bedford Springs
Hotel**
BEDFORD, PA.
L. A. Seaman, Mgr.

Retires After 44 Years In Western Md. Service

Keyser, W. Va., July 9.—After serving the Western Maryland Railway Company for 44 years, A. J. Boor has been retired from the service. Mr. Boor has been agent in Keyser for the Western Maryland for 34 years having come here from Elk Garden. He began his work with the old West Virginia Central and Pittsburgh Railroad Company, February 24, 1893 at Junior, W. Va. During all his years with the railroad as telegraph operator and agent, he was never laid off or furloughed and had given continuous service. He was second on the list of old employees.

Mr. Boor, who resides on North Main street with his wife, has served Keyser as conciliator.

Teed Tea Sweets

Soak cube sugar in orange or lemon juice to be served with teed tea.

Vanderlip at Remedy

Frank A. Vanderlip, of New York City, who died Tuesday, is remembered as one of the promoters of the old Hampshire Southern Railroad now owned and operated by the B. & O. He spent some time here while this road was being built. Vanderlip, one of the busiest fruit loading centers in this vicinity, is named for him.

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57 Baltimore St.

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CHERRY-PEACH SUNDAE

Serve this tempting dessert tonight. Take half a cup of chopped cherries, add three quarters of a cup of chopped peaches, and sweeten if necessary. Then fill sherbet glasses with Hoffman's Sealtest Fresh Peach Ice Cream and top with cherry-peach mixture. Garnish with whipped cream if desired. Insist upon Hoffman's Sealtest Fresh Peach. It contains only ripe, luscious peaches, rich cream and pure sugar, blended and frozen into a delicious treat.



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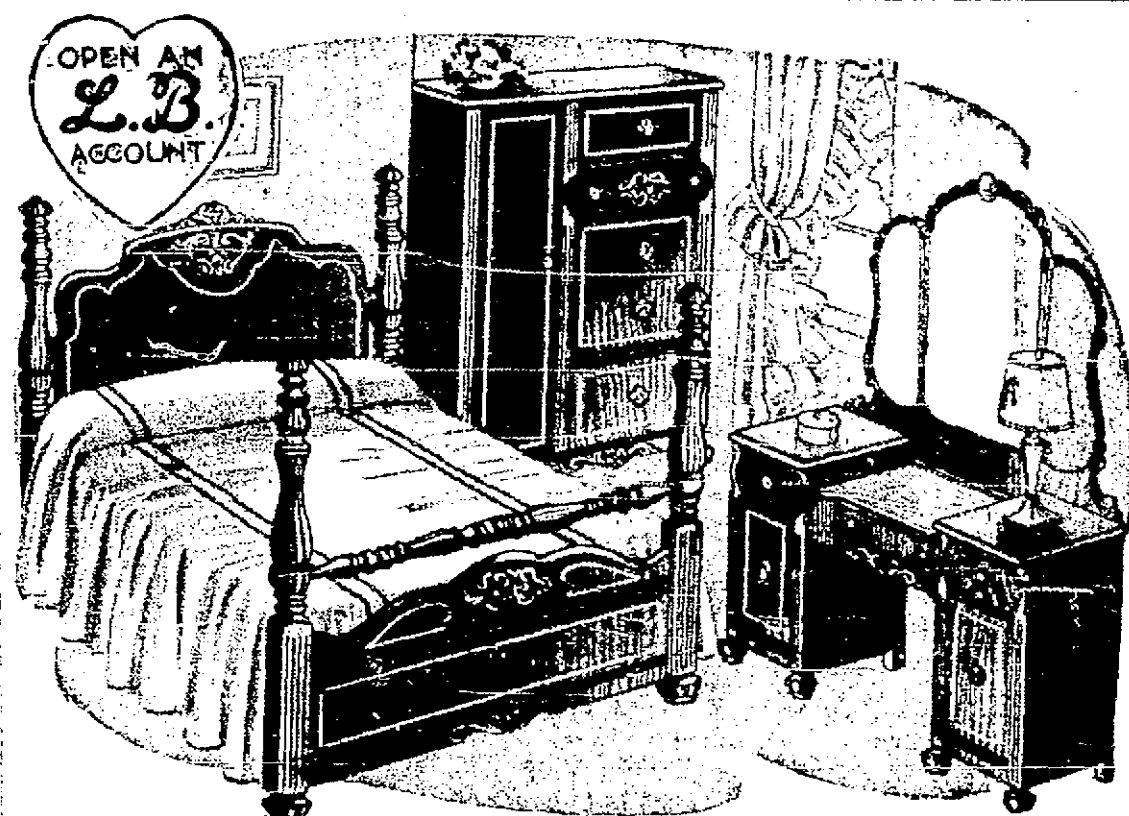
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