

Eclipse Aug. 31 To See Scientists' Ninth Battle To Assay Coronium

By Howard W. Blakeslee
(Associated Press Science Editor)
NEW YORK (AP)—Two astronomers expect to be inside a telescope pointed at the total eclipse in New England August 31 and never see the eclipse at all.

They will work in darkness, within the 40 foot instrument of the University of Michigan at Freyburg, Maine. Their job is to change photographic plates several times during the 100 seconds of eclipse.

The pictures will be four and one-half inches in diameter, large scale photos of the corona, the white radiance streaming millions of miles outward from the edge of the dark moon.

These big photos will show also the "solar prominences," tongues of flame rising from the edge of the sun. Some of them are as high as the distance from the earth to the moon, nearly a quarter of a million miles.

The secret of "coronium," a substance in the sun's atmosphere which gives off a green color, will be sought with an interferometer operated by Heber D. Curtis, Ph. D., director of the Michigan expedition.

Once coronium was thought to be some chemical element unknown on earth. Now it is believed to be oxygen in highly electrified form. But identification is not certain.

The identification might lead to practical uses on earth. Dr. Curtis has tried eight times at previous eclipses to make an interferometer assay, each time with the co-operation of Dr. Wright of Swarthmore.

All eight attempts failed. This time Dr. Curtis has a bigger interferometer, said to be the largest ever used on an eclipse.

An interferometer splits a beam of light into two rays and reflects them so that they come back together again to fall on the same spot. At this spot details of the structure of light become visible to the eye. Thus the interferometer is a substitute for a microscope.

Motion pictures of the eclipse by a new method is another Michigan project at Freyburg. The old principle is employed of intermittent photos, speeded up the same as a flower's growth is shown in the movies.

The new feature is a set of gears capable of following automatically the path of the moon. The queen of night deceives the eye into an illusion that she travels a straight path of unchanging speed. Actually the path is erratic with speed increasing near the horizon.

The Michigan party will also take a "look" at the invisible infra-red rays coming from the sun's corona. Specially sensitized photographic plates will record the spectra of atoms beyond the last visible red light, atoms which give off heat but no light.

This expedition is one of nearly 30 from the United States, Canada, Europe and the Orient, all of which will set up instruments and keep a number of astronomers busy taking scientific snap shots of this eclipse.

Doubt Expressed As To Antiquity Of Oldway Man

LONDON, Aug. 4 (AP)—New doubts about the antiquity of the now famous Oldway skeleton of Tanganyika, Africa, found in rocks dating about a million years, has been raised at an international congress of scientists in session here.

One scientist declared some of the mineral material found in the ribs of the Oldway man had been analyzed in Germany. The analysis, he said, disclosed that the material was of late insertion in the pre-historic soil.

Other members of the congress criticized the early dating of the Oldway man and declared it must be considered disproved.

Health

CHRONIC URTICARIA

While chronic urticaria may be due to various causes, the outstanding provocative conditions are poisons gaining access into the body through the alimentary system and emotional causes.

When we speak of poisons gaining access into the body by the alimentary system, we mean poisons that are understood as having a unique meaning.

Such poisons are not what are rather loosely called ptomaines, nor are they gross poisons. They are poisons in the sense that the body has become sensitized to them and when these substances enter the body, the reaction takes the form of the clinical picture we recognize as urticaria.

Certain persons constitutionally are more liable than others to become sensitized to food substances and chemical derivatives from these substances. This tendency or susceptibility appears to be of a hereditary nature.

Thus it is not uncommon to find in the history of a family a number of cases of asthma, hay fever, certain types of eczema, and various other types of urticarial manifestations. Treatment in such cases usually is based on an attempt to discover what substances the individual is sensitive to, and the elimination of these substances, wherever possible, or, if this prove impossible, the desensitization of the patient.

The patient should make strenuous efforts to avoid constipation. All minor or physical derangements should be corrected.

Teeth, tonsils and sinuses should be examined for evidences of chronic infection. The dietary habits should be regular. One should avoid eating too much of any one food item.

It should be remembered that urticaria may be precipitated by an acute emotional upset. The patient should avoid nervous strain and should secure an adequate amount of sleep.

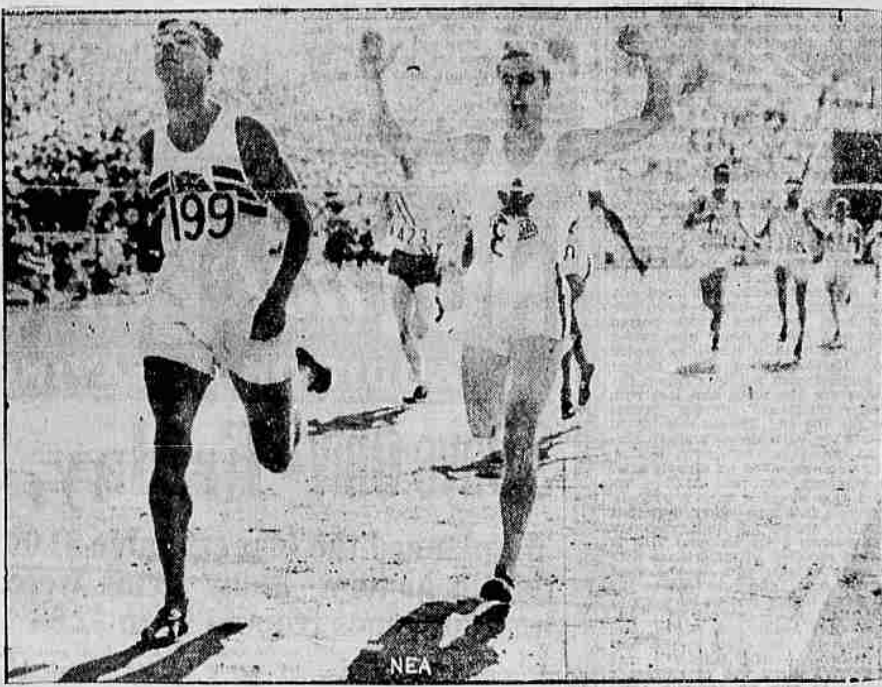
WHITE AND ORANGE DOTS ON BLACK CHIFFON DRESS
WASHINGTON (AP)—Mrs. Woodrow Wilson wore for a luncheon a dress of black chiffon with dots of white and orange. Her hat was of wide-brimmed black straw.

NEW OLYMPIC MARK SET



George Sailing, American hurdler, sets a new Olympic record and equals the world's record of 14.4 seconds in the second heat of the 110 meter hurdle semi-finals. Photo shows Sailing clearing the last hurdle, closely followed by his teammate, Percy Beard, who captured second place. Willi Welscher of Germany, finished third.

ANOTHER OLYMPIC RECORD FALLS



Finishing with a terrific sprint, Thomas Hampton of Great Britain set a new Olympic and world record of 1 minute 49.8 seconds to win the final of the 800 meter run. Photo shows Hampton crossing the finish line half a stride ahead of Alexander Wilson of Canada, who finished second. Philip Edwards of Canada was third and Eddie Genuing of the United States fourth.

Tecumseh Hero Legend

SAYS BELT STOPPED SHOT
WASHINGTON (AP)—A century-old Indian hero-legend about Tecumseh, famous leader of the war of 1812, still survives among the Ottawa

Indians of Michigan.

Tecumseh had a magic belt of buffalo hide which protected him from shot and shell, says the legend, discovered by Dr. Truman Michelson of the Smithsonian Institution.

tution.

After a day in battle, so the story goes, Tecumseh would unbuckle the belt and the bullets that had struck his body without harming him would rattle to the ground.

New Tax Money Is Received By U. S. Treasury

WASHINGTON, Aug. 4 (AP)—The effect of the new billion dollar tax bill was reflected for the first time Wednesday in the treasury statement for August 1 which showed miscellaneous internal revenue reported that day amounted to \$2,631,125 as compared with \$1,135,500 for the same period last year.

Miscellaneous internal revenue, under which the new taxes will be listed, declined steadily in July as compared with last year. This was brought about because the first payment of tax under the new revenue act, that for the last nine days of June, was not due to be paid over to collectors of internal revenue until the end of July.

While the amount for those nine days is not expected to be large it will bring a gradual increase in the government income and cut down the \$205,533 deficit which faced the treasury at the end of the first month of the 1933 (the present) fiscal year.

While the miscellaneous internal revenue showed an appreciable increase income taxes continued to decline, only \$627,769 being reported on August 1 as compared with \$996,454 the same day last year.

Customs duties also continued the downward trend, returning \$1,171,347 on the first day of the month as compared with \$1,683,959 on the same day a year ago.

BONUS FORCE MEMBER DIES OF PNEUMONIA

BALTIMORE, Aug. 4 (AP)—William Gunn, 40, a member of the bonus expeditionary force driven by federal troops from Washington last week, died in the marine hospital here Wednesday.

In seeking treatment on his arrival in Baltimore Saturday, he told phy-

sicians at the Mercy hospital, where he first went, he had been injured and gassed in the fighting at Washington.

He was found to be suffering from tuberculosis and was sent to the marine hospital. Dr. Richard H. Creel, medical officer in charge of the marine hospital, said today he had been unable to verify Gunn's statement that his ribs were fractured when struck by a brick.

Dr. Creel expressed the opinion Gunn died from natural causes. He said Gunn contracted pneumonia.

City Finally Selects Mayor

MERCED, Cal. (AP)—This city now has a mayor—John R. Corbett. But it took 166 ballots by the town council over a period of several months to reach an agreement.

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Mayonnaise Nalley's Salad Time Pint 17c

Tomatoes - String Beans 3 Cans 25c

Laundry Soap White 10 bars ... 27c

BUTTER 2 POUNDS 47c

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Beef Roasts Choice Steer, POUND 12 1/2c

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