

NEARING ECLIPSE CHANCE TO TEST EINSTEIN THEORY

September 21 Will Be Dark Day in Some Areas of the World.

(BY THE ASSOCIATED PRESS)
CHICAGO, Ill., Sept. 13.—The fact that you do not live on the east coast of Africa, Australia or on islands in the Southern Pacific Ocean relieves you of the unpleasantness of a dark day on September 21.
On that date, according to Prof. Edwin B. Frost of the University of Chicago and director of the Yerkes Observatory, a total solar eclipse will occur over that region. The moon, coming between the earth and the sun, will cast a shadow which will sweep over the southern sea from a point off the

eastern coast of Africa near the Equator, cross a few scattered islands and the continent of Australia and then out to the Southern Pacific Ocean, he said.
This trail of the shadow will be about 115 miles wide. The duration of totality at different points will vary from three to six minutes and Professor Frost declared to be an unusually long eclipse.
Expeditions from various astronomical institutions will be established at favorable points to study the eclipse. John Evershed, director of the observatory at Kodakal, India, will make his observations from the Maldives Islands. Astronomers from the Royal Observatory at Greenwich, England, have established a station on Christmas Island. A party from Batavia, Dutch Indies, also will be located at Christmas Island and will be joined by Dr. Freundlich from the Einstein laboratory at the Potsdam Observatory. Prof. W. W. Campbell with a party from the Lick Observatory will be stationed at Walla, Australia. Prof. Chant of the University Observatory at Toronto will be with this group.
The total eclipse of the sun always has been one of nature's most thrilling spectacles," said Professor Frost. "It gives a mo-

mentary glimpse of the mysterious veil surrounding the sun, called the corona, which is never visible at any other time.
"Gigantic rosy eruptions of flowing gas also may be seen along the rim of the eclipsed sun."
On September 10, 1923, he said, a total eclipse will touch the coast of the United States at Santa Barbara and near San Diego, Calif. The islands of the Pacific Coast, notably Santa Catalina, will be well situated for stations. The track of the shadow will sweep southeast across Mexico. Preparations for observing the eclipse already have been started by several American observatories.
After the one of 1923, the next total solar eclipse that can be observed under favorable conditions in United States will be on August 21, 2017.
Einstein Theory Comes Under Test Form.
New tests of the validity of Einstein's theory of relativity will be possible with the total solar eclipse on September 21, according to Professor Edwin B. Frost of the University of Chicago.
The theory requires, he said, that the rays of light from a distant star should be bent out of their straight path when they pass within the field of attraction of a great body like the sun. But stars whose light passes close to the rim of the blazing sun cannot be photographed except on these rare occasions when the moon obscures the sun.
The path of the sun, in its annual sweep around the sky, is dotted with many stars which would serve for the test, but only those can be used which nearly graze the sun at the moment of eclipse.
Accordingly, a photograph is made of these stars at a time of the year when the sun is in a different part of the sky. On such photographs, taken at night with the same instrument that is used at the eclipse, the distances between the critical stars are measured to the ten thousandth of an inch.
At the moment of the eclipse these stars will lie on opposite sides of the sun. Hence, when this photograph is measured, the distances between the corresponding stars should be slightly greater than on the plates taken some weeks before or after the eclipse, and which were not disturbed by the sun's presence, according to Professor Frost.
The observations by two English parties of the eclipse of May 29, 1919, in Brazil and in Liberia, in this way yielded results which have been regarded as giving the strongest physical confirmation of Einstein's theory, says Professor Frost.
Several parties of astronomers are locating stations in the path of the shadow and will make investigations along this line. It will

LATVIANS WORK TO MAKE WEALTH FOR NEW STATE

State Has Population Less Than Philadelphia, in Third Year.

RIGA, Latvia, Sept. 13.—It is three years since the Paris Peace conference brought its youngest child, the Latvian Republic into the world. Like most of its other progeny, Latvia is doing well, but is finding life a difficult and rigorous one. It knows it has a long and tortuous road to travel to gain its full stature of statehood and join the grown up members of the family of nations. The people have been immensely heartened by the United States' recent recognition of the Republic.
Latvia, which is about the size of West Virginia and has a smaller population than the city of Philadelphia, is handicapped by its terrible losses of life and property during the war and by lack of capital. On the other hand, like all new states, it is unfettered by precedent and by the claims of vested interests, and its human raw material is excellent. Long before the war the Latvians, who through centuries of history were successively under Swedes, Germans and Russians, had proved their efficiency as workers. Their chemical, textile and metallurgical industries and their Baltic trade were highly remunerative. They paid all their own governmental expenses and contributed a large annual surplus to the Russian treasury.
The manner in which the Latvian volunteer army composed of farmers and peasants and led by students of the Riga Polytechnic Schools, drove out first the Germans, then the Bolsheviks, and finally the Junker forces of Von der capital, and the other shows that the Latvians are also efficient as fighters. In this little state there is virtually no illiteracy, and all the people speak three languages—Latvian, Russian and German.
Is Reared on Black Shores of Baltic.
The Latvian Government is hard at work building Utopia on the bleak shores of the Baltic. One of its first measures was to found a university in its capital city of Riga, one of its latest has been to reform its currency and to stop the issue of paper money. The value of the Latvian ruble, as measured in dollars, is slowly creeping up. Exports and imports are now very nearly balanced. By

not be until some months after the eclipse that they shall know whether the measurements confirm the theory for this eclipse. Many astronomers predict the eclipse of 1923 will fail to confirm the results of that of 1919.
"We are establishing 'free' ports, cutting away 'vassal' duties, revising and reducing our tariffs. We have Russian as a common language, but we need also a common currency and a network of light railroads to connect us with Estonia and Lithuania. We are gradually reducing the devastation of the Germans, but for all these undertakings we require capital. As yet we cannot borrow this, so we are working to create it. That is why we have no unemployment and no labor question in Latvia."

Sweden may join us for commercial purposes.
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Everything in the house must be turned out, chiefly into the street, and given a thorough dusting and scrubbing. The rubbish that has gathered during the year is thrown into heaps to be carted away. This with a poor cartage system the streets of Tokio are littered for weeks with the steam and fetid stench of her inhabitants. Other cities have other cleaning periods, even the smallest village having to dispose of its trash at least once a year.

JAPANESE SAILORS ARE GIVEN PSYCHOLOGY TEST
KURE, Japan, Aug. 15.—(By Mail)—With a view of placing naval officers in positions to which they are best suited the psychology of each candidate is to be studied. Experiments have been carried out with 10,000 sailors and the results are said to have been satisfactory.

MAKE GENERAL HOUSE CLEANING COMPULSORY
TOKIO, Aug. 15.—(By Mail)—Under order of the chief health officer of the city every household during July of each year must have a general house cleaning.

Southern Railway System Notice To The Traveling Public

In order to conserve fuel and motive power, attention is called to the following curtailment of summer train service:

Trains 3 and 4, between Asheville and Columbia, will make last trip Northbound from Columbia Wednesday, September 6th, and last trip Southbound from Asheville 8:25 P. M., same date.

Trains 21 and 22, between Asheville and Waynesville, will be discontinued; these trains making last trip in each direction between the points named on Wednesday, September 6th.

Trains 14 and 235, between Charlotte and Atlanta, will be discontinued, last train leaving each terminal Wednesday evening, September 6th.

Trains 15 and 16 between Asheville and Salisbury, will be temporarily discontinued, these trains making last trip between the points named on Wednesday, September 6th. Asheville-New York and Asheville-Washington sleepers will be handled on Trains 11 and 12.

Asheville-Savannah sleeping car will make last trip Southbound leaving Asheville on Train 10 at 3:10 P. M., September 6th.

Asheville-Wilmington sleeping car will make last trip Eastbound leaving Asheville on Train 10 at 3:10 P. M., September 6th.

On and after Thursday, September 7, the Asheville-Macon and Asheville-New Orleans (via Atlanta) sleeping cars will be handled on Train No. 10, leaving Asheville 3:10 P. M., instead of Train No. 4, heretofore.

On and after Thursday, Sept. 7th, the Asheville-Richmond sleeping car will be shortened to a Salisbury-Richmond sleeper and passengers desiring space in the Richmond sleeper should leave Asheville on Train No. 12, at 2:25 P. M., in order to connect with this sleeper at Salisbury.

On and after Thursday, September 7th, the Asheville-Charleston sleeping car, heretofore leaving Asheville on Train No. 4, at 8:25 P. M., will be shortened to become a Spartanburg-Charleston sleeping car, and passengers desiring to use this car should leave Asheville on Train No. 10, at 3:10 P. M., in order to connect with this car at Spartanburg, as this car will be handled on No. 10 from Spartanburg to Charleston in future.

On and after Sunday, September 10th, the Asheville-Louisville sleeping car, leaving Asheville on Train No. 11, at 3:25 P. M., will be extended to operate between Asheville and St. Louis, via Southern Railway, arriving St. Louis 7:24 following evening.

For further particulars, consult ticket agents

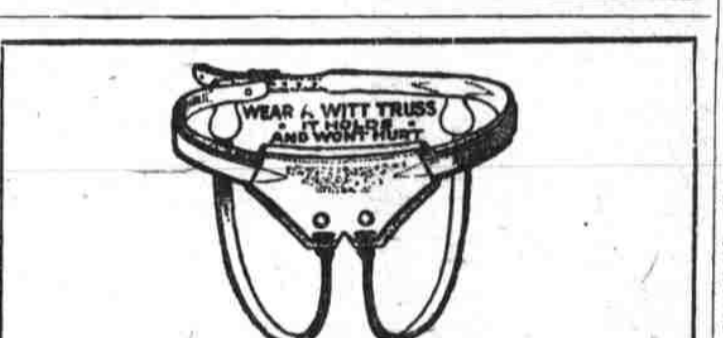
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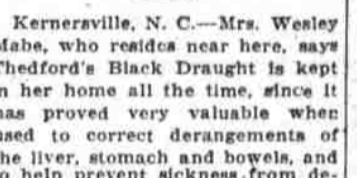
HALF THE FIGHT AGAINST ILLNESS

Keep the Liver Prepared to Do Its Duty in Cleansing the System. Black-Draught Will Help.

Kernersville, N. C.—Mrs. Wesley Mabe, who resides near here, says Thedford's Black Draught is kept in her home all the time, since it has proved very valuable when used to correct derangements of the liver, stomach and bowels, and to help prevent sickness from developing from such conditions.
"For dizziness, headaches, colds, and similar troubles, Black-Draught is a wonder," according to Mrs. Mabe.
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