

CASWELL LECTURES ON EINSTEIN THEORY

Stars' Rays Bend As They Pass Sun, Says Speaker

Dr. A. E. Caswell, professor of physics, lectured Tuesday night in room 24 of Deady hall, to the Science Club, on the Einstein theory.

Dr. Caswell's address was illustrated by suitable diagrams.

Since the two British solar eclipse expeditions which were sent to South America and Africa in May, 1918, found that light rays coming to us from the stars are bent as they pass the sun, Einstein's theory, which predicted this bending, has aroused considerable popular interest, said Mr. Caswell. Beginning with the old conundrum of the motion of a man pacing the deck of a moving ship, the lecturer explained why we cannot prove that a body is in motion if it moves uniformly, but that all we know about moving bodies is that they are in motion with respect to other bodies.

A number of experiments were then described by the speaker, some of which have been explained by assuming that matter carries the ether which transmits light along with it with about half its own velocity, while another one was explained either by assuming that the ether carries the ether along with its own velocity or that it is shortened in the direction of its motion through space. Einstein explained these experiments by showing that an observer at rest always thinks that a moving clock loses time and that a moving object is shortened in the direction of its motion. Slides were shown to illustrate the way in which the earth and other bodies would appear to a distant observer to be flattened by greatly increasing their speeds.

The way in which time is represented by length in the four-dimensional "space-time manifold" was explained, and also the way in which this new sort of space is twisted by changing the way in which points in space and instants in time are located. It was then shown how gravitation was equivalent to changing the system by which these points are located. Thus a falling man doesn't feel the attraction of gravitation because he involuntarily changes his system while he falls.

Three effects have been predicted from this theory, the first two of which may be expected to a lesser extent from Newton's theory. One of these is the bending of rays of light by the sun, and the other is the rotation of the major axis of the orbit of the planet Mercury. In both these cases the observed results agree with the Einstein theory better than with the older theory. The third effect, predicted but so far unconfirmed, is that light coming to us from the sun should be redder than the corresponding light coming to us from a terrestrial source.

The lecture was followed by the showing of a set of cartoons by John T. McCutcheon.

GOVERNOR AT HENDRICKS.

Governor Olcott was a Thursday luncheon guest at Hendricks hall after the annual pledge day assembly. Other guests were Major and Mrs. W. S. Gilbert, President Campbell, Dean Elizabeth Fox, Miss Cummings, and Karl Onthank.

COX-ROOSEVELT CLUB ORGANIZED LAST NIGHT

Plans Made to Send Speakers to Various Houses; Rally To Be Held Soon.

Political interest among the students is speeding up and both of the big parties are now fully organized on the campus. Last night the organization of a Cox-Roosevelt club took place; officers were elected, and a definite program outlined.

Plans were made for a short, intensive campaign among the students in which speakers would be sent around to the different houses. To make the arrangements and also see if it would not be possible to have a democratic rally in which an outsider would speak, a committee was appointed.

An effort will be made by the club to get every democrat on the campus out for the Emerald straw ballot, which will be held next Wednesday. Interest has been evinced by both republican and democratic organizations in the straw vote to be conducted by the Emerald next week.

Principle rather than party, was the keynote of a short talk given at last night's democratic meeting by Dr. R. C. Clark of the history department, who declared that the two main issues in the campaign are the League of Nations and progressivism. The election will be a referendum on the league, he said, and characterized Senator Harding's stand as evasive. Dr. Clark compared the two candidates in regard to progressivism and stated that Harding's record in the senate was anything but progressive.



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