

Photographs taken at Cambridge on June 5 and June 8, 1902, with the 8" Draper Telescope, indicate a correction to this ephemeris in R. A. of $+0.1m$, and in Dec. of $-1'$. Photographic enlargements of this region will be furnished to observers who will undertake the required observations.

The opposition of Tercidina occurs on August 3, 1902, magn. 11.5, in R. A. 20h 50.4m, Dec. $-0^{\circ} 40'$. Daily motion in R. A. $-0.9m$, in Dec. $-4'$.

EDWARD C. PICKERING.

A GRADUATE SCHOOL OF AGRICULTURE.

THE first session of a graduate school of agriculture held under the auspices of the Ohio State University, and with the cooperation of the United States Department of Agriculture and the Association of American Agricultural Colleges and Experiment Stations, will open at Columbus on July 7 and will continue for four weeks. The purpose of the school is to give advanced instruction in the science of agriculture, and particularly in the methods of investigating agricultural problems and teaching agricultural subjects. Only persons who have completed a college course and taken a bachelor's degree, or who are recommended by the faculties of the colleges with which they are associated, will be admitted to the privileges of the school. Instruction will be given in four courses—agronomy, zootechny, dairying, and animal and plant breeding. The courses in these subjects will run parallel; except that the course in breeding will be so arranged that it can be taken by students in any of the other courses. The Saturday morning periods will be devoted to lectures and conferences on agricultural pedagogy and special topics of general interest. The equipment of modern dairy apparatus and machinery and apparatus for instruction in soil physics is especially complete. Some of the apparatus used in the investigations of the Bureau of Soils of the U. S. Department of Agriculture will be transferred to Columbus for the use of the school. This bureau is now conducting a soil survey of the region in the immediate vicinity of Columbus, and the students of the school

will have an opportunity to observe the field methods of this survey.

The breeders of Ohio will contribute live stock for judging and demonstration purposes in connection with the courses in zootechny and animal breeding. An especially selected library of works on agriculture and agricultural science will be provided.

Dr. A. C. True, chief of the Division of Agricultural Colleges and Experiment Stations of the Department of Agriculture, is dean of the school. The faculty will consist of about thirty instructors, including the heads of the agricultural departments of state universities and agricultural colleges and the directors and other officers of experiment stations in different parts of the country, as well as chiefs of bureaus and other officers of the U. S. Department of Agriculture.

SCIENTIFIC APPOINTMENTS UNDER THE GOVERNMENT.

SEVERAL positions in the scientific departments of the government will be filled as the result of civil service examinations in July.

On July 10 an examination will be held to fill three vacancies in the position of laboratory assistant in the National Bureau of Standards, at a salary of \$900, \$1,000 and \$1,400 per annum, and to other similar vacancies as they may occur.

The examination will consist of the subjects mentioned below, which will be weighted as follows:

Education and training, including training in mathematics and mathematical physics. (State all courses in these subjects taken in college or later.)	20
Experience, including (a) laboratory work in electricity and general physics done in college or later; (b) any other experimental work or original research; (c) other experience likely to be helpful in the position of laboratory assistant.	30
One or more of the following optional subjects: (a) Theoretical and applied electricity and electrical testing; (b) Theoretical and experimental optics; (c) Mechanics of solids and fluids with applications to the testing of weights and measures	50

Competitors will be assembled only for the tests under the third subject. Three hours will be allowed for subject *a*, and two hours each for subjects *b* and *c*. Applicants must show that they have been graduated from colleges or technical schools, or show that they have obtained an equivalent scientific training. The Department desires that the appointee be not less than 20 nor more than 40 years of age and be in good physical condition. A preliminary rating will be made on the first two subjects as shown by the application and accompanying vouchers, and those applicants who fail to attain at least 70 per cent. on this portion of the examination will not be given the tests under the third subject.

On July 8 and 9 examinations will be held to fill at least four vacancies as computers in the Coast and Geodetic Survey at a salary of \$1,000 a year. The subjects and weights are:

Algebra	10
Plane and solid geometry.....	10
Trigonometry	15
Elements of calculus.....	15
Practical computations.....	50

On July 11 and 12 an examination will be held to fill twelve vacancies in the position of aid in the Coast and Geodetic Survey, at a salary of \$720. The age limit is eighteen to twenty-five years and the subjects and weights are:

Mathematics, including the elements of calculus	10
Practical computations.....	10
Astronomy	10
Physics	10
Surveying	10
Modern languages, translation from one European language.....	10
Drawing and descriptive geometry.....	10
Training and experience.....	10
Physical examination.....	20

On July 15 there will be an examination to fill the position of assistant in the Road-material Laboratory, Division of Chemistry, Department of Agriculture, with a salary of \$600 with prospects of promotion; and on July 15 and 16 there will be an examination for assistant (piece-work computer) in the Naval Observatory and the Nautical Almanac Office.

THE PITTSBURGH MEETING OF THE AMERICAN ASSOCIATION.

ARRANGEMENTS have now been made so that certificates will be honored from points in the territory of the Western Passenger Association which show the purchase of tickets for the Pittsburgh meeting of the American Association on June 26-30 inclusive in addition to June 19-25 inclusive.

GEORGE A. WARDLAW.

SCIENTIFIC NOTES AND NEWS.

SIR JOSEPH DALTON HOOKER has been appointed a foreign knight of the Prussian Ordre Pour le Merite for Science and Arts. Sir Joseph Hooker, who was director of the Kew Botanical Gardens from 1865-1885 and president of the Royal Society from 1872-1877, will celebrate his eighty-fifth birthday on June 30.

THE Huxley Lecture at Charing Cross Hospital will be delivered this year by Dr. William H. Welch, of the Johns Hopkins University.

LORD RAYLEIGH has been elected a corresponding member of the Vienna Academy of Sciences.

DR. S. ALFRED MITCHELL, tutor in astronomy at Columbia University, has been elected a fellow of the Royal Astronomical Society of England.

THE officers of the American Medical Association elected at the Saratoga meeting are: *President*, Frank Billings, of Chicago; *Vice-Presidents*, W. A. Witherspoon, of Tennessee, G. F. Comstock, of New York, C. R. Holmes, of Ohio, James H. Dunn, of Minnesota; *Secretary*, G. H. Simmons, of Illinois; *Treasurer*, H. P. Newman, of Illinois; *Orators*: Medicine, J. M. Anders, of Philadelphia; Surgery, A. F. Jones, of Omaha; State Medicine, W. H. Welch, of Baltimore. Little Rock, Arkansas, was recommended for the next place of meeting.

THE North Carolina Academy of Science was founded at Raleigh, on March 21, 1902. The following officers were elected for the current year: *President*, W. L. Poteat, Wake Forest College; *Vice-President*, T. Gilbert Pearson, State Normal College; *Secretary and Treas-*