

LECTURES ON SOLAR AND TERRESTRIAL  
PHYSICS

A COURSE of lectures will be given between October 17 and 28, 1911, in the Physical Laboratory of the Johns Hopkins University, by Arthur Schuster, F.R.S., honorary professor of physics in the University of Manchester.

The object of the lectures will be to discuss the cosmical applications of recent advances in physics, to explain the methods of examining correlations between solar and terrestrial phenomena, and to specify the problems of solar and terrestrial physics which seem to call for special investigation.

The following headings are intended to illustrate the general scope of the lectures, but do not necessarily indicate the order in which the subjects will be taken:

1. *Preliminary Considerations.* The ponderomotive forces concerned (gravitation, radiation pressure, electrostatic forces). The laws of radiation (adiabatic, isothermal and radiostatic equilibrium).

2. *The Sun.* The interior of the sun, conditions at the surface due to ejection of electrons. Spectroscopic phenomena and their interpretation. The laws of solar rotation. The sun's corona. Sun-spots and their periodicity.

3. *Interplanetary Space.* Effects of small quantities of matter on thermal and electric conductivity.

4. *The Earth.* Our knowledge of its interior constitution. The age of the earth. The principal phenomena of terrestrial magnetism and atmospheric electricity.

5. *The Earth's Atmosphere*—more especially with regard to its condition near its upper limit.

6. *General methods of investigating periodicities.* Brückner's "35-year meteorological cycle" shown to be non-existent. Lunar effects. Connection between sun-spots and terrestrial phenomena.

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DR. CHRISTIAN ARCHIBALD HERTER

In response to an invitation issued by the President of the Johns Hopkins University and the Committee on the Herter Memorial

Lectureship, a meeting in memory of the late Dr. Christian Archibald Herter was held in the lecture room of the Physiological Laboratory on Thursday, October fifth, 1911, at three P.M.

Drs. Welch, Halsted, Abel, Dunham and Flexner spoke of various aspects of the life and work of Dr. Herter and paid tribute to his character and his services to medical science.

The following minute was adopted and was subsequently read to the audience assembled at four o'clock to hear Professor Kossel's second Herter lecture, who expressed their respect and approval by a rising vote:

The medical faculty and other members of the Johns Hopkins University, as well as all assembled at the delivery of the sixth series of lectures upon the Herter Foundation, desire to place upon record their sense of the great loss sustained by American medicine and by medical science in the death of Dr. Christian Archibald Herter on December fifth, 1910.

The initiation of Dr. Herter's fruitful activity as a scientific investigator by his work as a graduate student in this university and his active interest in the development of this medical school are sources of especial gratification to the university. Upon this occasion especially we recall with grateful appreciation his generous benefaction in founding, in association with Mrs. Herter, a lectureship which has been and will continue to be a fountain of inspiration and instruction to our faculty and students and to the medical profession.

In the life and work and character of Dr. Herter we recognize the manifestation of rare gifts of intellect and of heart and high-minded devotion to the highest ideals of our profession and of scientific medicine. By valuable contributions to knowledge, by wisely directed and generous material aid in the promotion of medical and biological science, by judicious counsel and active effort and by the widely felt influence of a richly endowed, and singularly attractive and cultivated personality Dr. Herter rendered memorable service to American medicine in behalf of higher professional standards and wider recognition and cultivation of medical science.

In this university and elsewhere the memory of Christian Archibald Herter will be cherished not only as that of a generous benefactor, but also "as a presence to be felt and known" exemplify-

ing love of beauty, broad humanity and loyalty and devotion to the best ideals of the physician and the student of man and of nature.

We desire to express our sympathy with Mrs. Herter and her children in their bereavement and that a copy of this minute be transmitted to them.

#### SCIENTIFIC NOTES AND NEWS

PROFESSOR ALFRED G. COMPTON, professor of physics at New York City College, with which institution he has been connected as instructor since his graduation in 1853, has at his request been retired on a pension.

SIR THOMAS CROSBY has been elected Lord Mayor of London. He is the first physician to occupy that office though he has had 723 predecessors.

PROFESSOR F. P. MCKIBBEN, head of the department of civil engineering at Lehigh University, has been appointed consulting engineer by the state committee which is investigating the causes of the disaster at the Austin dam.

THE Alvarenga prize, of the Philadelphia College of Physicians, valued at \$180, was awarded to Dr. Francis D. Patterson for his thesis on "Parathyroid Glandules."

W. H. BROWN, Ph.D. (Hopkins '10), has gone as botanist to the Bureau of Science in Manila.

DR. CHARLES SHEARD has retired from the chair of preventive medicine at the University of Toronto.

THE Geographical Society of France has entrusted to Mr. R. Jarry Desloges the erection of an observatory, more or less temporary, on the high plateaus of North Africa.

MR. ROY C. ANDREWS will leave during the last week of November on an expedition to the orient on behalf of the American Museum of Natural History. He will visit the whaling stations of southern Korea, then outfit at Seoul and travel into the mountains of north Korea, a region unknown zoologically.

DR. ALBRECHT KOSSEL, who has been giving the Herter lectures at the Johns Hopkins University, will return to Germany on October 24.

THE program of the Geological Conference of Harvard University on September 17 consisted of papers on the shoreline changes in northern and southern Sweden, by Professor D. W. Johnson, and on the landslide at St. Alban, Quebec, by Professor Charles Palache.

PROFESSOR WILLY KUKENTHAL, visiting professor at Harvard University, lectured to the Zoological Club on October 19 on his studies on whales.

THE Harveian oration before the Royal College of Physicians of London was delivered by Dr. C. Theodore Williams, on October 18.

THE *Journal* of the American Medical Association states that a committee consisting of Provost Edgar Fahs Smith, Ph.D., Dr. S. Weir Mitchell, Sir William Osler and Drs. William Pepper, Clarence Payne Franklin and Swithin Chandler, Philadelphia, has been formed to take up the project of erecting at Philadelphia a fitting monument to John Morgan, founder of the first medical school in the United States, and director general of the hospitals and physician-in-chief of the American Army during the revolutionary war.

WE learn from *Nature* that it is proposed to erect a memorial to Mungo Park and Richard Lander. A committee has been formed consisting of Lord Curzon, Sir George T. Goldie, Lord Scarbrough, Major Leonard Darwin, Sir Walter Egerton and Sir Hesketh Ball to take the necessary steps to secure funds for this purpose. Both explorers have been honored in their native towns of Selkirk and Truro, but no record of any kind exists in the land to which their lives were consecrated and sacrificed.

IN the issue of SCIENCE for October 6 the age of Mr. Edward Whympers is given as 61, while it should be 71, as he was born on April 27, 1840.

SIR HERBERT HOPE RISLEY, known for his anthropological studies in India, died on September 30, at the age of sixty years.

DR. WILHELM DILTHEY, formerly professor of philosophy in the University of Berlin, died on October 5 at the age of 77.