

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.

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-