

*Genetic problems in the protozoa; Crossing-over:* H. S. JENNINGS.

*Experimental study of longevity. I. Environmental factors. II. Inheritance:* RAYMOND PEARL.

*The neuromotor system of protozoa; The life cycle of protozoa with reference to certain fundamental aspects of evolution:* C. A. KOFOID.

*The genetic foundation and the balanced character of sex; The limits of action of sex hormones:* F. R. LILLIE.

*The chromosomes in relation to the individual; The chromosomes in relation to the race:* C. E. MCCLUNG.

*Physical and chemical characteristics of lake waters; The biology of lakes:* CHANCEY JUDAY.

As a secondary function, the series served to introduce important phases of biology to the general public. A special group of evening lectures, semi-popular in their nature, was arranged. That these non-technical lectures fulfilled their purpose was evidenced by the interest aroused on every hand. The speakers and their subjects in this semi-popular series were as follows:

*Dinosaurs:* W. D. MATTHEW.

*The fitness of the environment:* L. J. HENDERSON.

*The warfare against insects:* L. O. HOWARD.

*The origin of human types and the influence of internal secretions:* C. R. STOCKARD.

*Genetics and development:* T. H. MORGAN.

*Can we observe evolution in progress?* H. S. JENNINGS.

*The problem of population growth:* RAYMOND PEARL.

*Amoeba and man:* C. A. KOFOID.

*The unity of life:* C. E. MCCLUNG.

*The productivity of lakes:* CHANCEY JUDAY.

## FIELD EXCURSION OF OHIO GEOLOGISTS

THE geological section of the Ohio Academy of Science held its annual field excursion on May 25, 26 and 27, in Muskingum County, Ohio. The party assembled at Newark at noon on the twenty-fifth and that afternoon was devoted largely to archeology as shown by earthworks near Newark and the great flint quarries on Flint Ridge. Dr. W. C. Mills, director of the Archeological and Historical Society of Ohio, was the guide for this part of the trip.

The geological excursion proper was on the twenty-sixth and twenty-seventh and Mr. Wilber Stout, author of Bulletin 21, Geological Survey of Ohio, on the Geology of Muskingum

County, was the guide during these two days. The rocks studied include the entire Pennsylvanian system and the basal fifty feet of the Permian and more than thirty of the named members of the Ohio geological column were seen. In addition certain Quaternary deposits used as molding sands were examined and some very interesting topography involving several erosion cycles was seen.

Fifty people were present on the afternoon of May 25 and about thirty-five on the twenty-sixth and twenty-seventh. The organizations represented include the Geological Survey of Ohio, the Soil Survey of Ohio, the Ohio State University, Western Reserve University, Denison University, Miami University, Antioch College, Muskingum College, the Dayton High School, the University of Michigan, the University of West Virginia. The trip was made by automobiles and was under the management of Dr. J. Ernest Carman, Ohio State University, vice-president for geology of the Ohio Academy of Science.

## THE PACIFIC DIVISION OF THE AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE

DR. E. P. LEWIS, professor of physics in the University of California, has been elected president of the Pacific Division of the American Association for the Advancement of Science, *vice* Dr. E. C. Franklin, resigned, whose duties as president of the American Chemical Society precluded his serving at the Los Angeles meeting in September. President Lewis will preside at the Los Angeles meeting and deliver an address, the subject of which will be announced later.

The general sessions at Los Angeles will open with a research conference on Monday, September 17, during the luncheon hour, which will be prolonged to permit reports from the Riverside Citrus Experiment Station, the Scripps Institution for Biological Research, the California Institute of Technology and the University of Southern California. General discussion will follow the presentation of reports.

President Lewis's address will occur at a public reception to be held Monday evening, September 17, in Bovard Auditorium, University of Southern California.

An interesting feature of the general sessions will be a symposium on eclipses and relativity, in which noted astronomers and physicists will participate. The preliminary announcement giving further details of the arrangements will be issued about June 15.

### SCIENTIFIC NOTES AND NEWS

DR. GEORGE CRILE, of the Western Reserve University Medical School, was elected president of the American Surgical Association at the recent Cleveland meeting.

DR. HARVEY W. WILEY, president of the United States Pharmacopeial Convention 1910-1920, has been elected an honorary member of the Pharmaceutical Society of Great Britain. This society, like the United States Pharmacopeial Convention, is charged with the duty of keeping the pharmacopeia up to date.

SECRETARY OF WAR WEEKS has announced the award of the Distinguished Service Medal to C. H. MacDowell, for service as head of the chemical branch of the War Industries Board during the war. Mr. MacDowell is now president of the Armour Fertilizer Works, Chicago.

WE learn from *Nature* that Professor L. Cayeux, Paris; Professor John M. Clarke, director of the New York State Museum; Professor H. Douvillé, Paris; and Professor Waldemar Lindgren, Massachusetts Institute of Technology, have been elected foreign members of the Geological Society, London. Among the foreign correspondents elected are Professor R. A. Daly, Harvard University; Professor J. F. Kemp, Columbia University; and Dr. F. E. Wright, Geophysical Laboratory of the Carnegie Institution.

MR. A. F. BASSET HULL has been elected president of the Linnean Society of New South Wales. J. P. Hill, professor of zoology and comparative anatomy in the University of London, and J. T. Wilson, professor of anatomy in the University of Cambridge, formerly professor in the University of Sydney, have been elected honorary members of the society.

PROFESSOR FRANK S. CAREY, of the University of Liverpool, retires at the end of the academic year after thirty-seven years' service as professor of mathematics.

At the annual meeting of the New Haven Branch of the American Society of Mechanical Engineers on May 21 tribute was paid to Professor L. P. Breckenridge, of Yale University, who retires this year from active teaching, after forty years of service. Professor Breckenridge addressed the meeting on "The past and future of engineering." Fred J. Miller, past president of the American Society of Mechanical Engineers, presented Professor Breckenridge with an illuminated testimonial signed by all the members of the New Haven Branch. A binocular microscope, the gift of all the members of the mechanical-engineering department of Yale University, was presented to him at luncheon earlier in the day.

DR. CHARLES I. ROBINSON, chief chemist in the research laboratory of the Bayway refinery of the Standard Oil Company, at Elizabeth, N. J., retired on May 5, after thirty-seven years of continuous service and will receive an annuity. A dinner in his honor was given by his associates on May 9.

AFTER twenty-six years of service with the Solvay Process and Semet-Solvay Companies, Syracuse, New York, Alexis C. Houghton has resigned his position as chief chemist, to enter the employ of the Bakelite Company, New York City, where he will have charge of the phenol plant.

MR. M. AUROUSSEAU, petrologist at the geophysical laboratory of the Carnegie Institution of Washington, resigned on May 15 to join the scientific staff of the American Geographical Society, New York City.

DR. L. O. HOWARD, chief of the Bureau of Entomology of the United States Department of Agriculture, is in Europe attending the meeting at Paris of the Eleventh International Congress of Agriculture, of which he has been elected a vice-president.

DR. P. I. WOLD, professor of physics at Union College, has accepted an invitation from the Rockefeller Foundation to spend a year as visiting professor of physics in China on behalf of the China Medical Board. Dr. and Mrs. Wold will leave this country about the middle of July and will have their headquarters in Tientsin.