

ber, Nandi Land Trust Board, government examiner in Nandi language. Research on the sociology of the Doro, a forest people of Kenya.

J. W. H. LUGG, West Australia, biochemist, Imperial College, London. Preparation and amino-acid analysis of pasture plant proteins.

J. P. M. PRENTICE, solicitor. The study of meteors and meteor streams.

H. SCOTT, assistant keeper, department of entomology, British Museum. Biogeographical research on the fauna of the highlands of southwestern Arabia.

G. SELIGMAN, chairman, British Group, International Commission of Snow. To examine the transition of firm snow into glacier ice.

H. W. THOMPSON, departmental demonstrator, University Museum, Oxford. The correlation of data derivable from the spectra of polyatomic molecules with chemical problems.

Grants in aid of scientific research have been made to the following:

MISS E. M. LIND HENDRICKS, research worker, Imperial College, London. Geological research in Cornwall.

F. H. LAWSON, fellow and tutor, Merton College, Oxford. Modern civil law in contact with English law.

G. MANLEY, senior lecturer in geography, Durham University. A study of the helm wind of the Northern Pennines.

R. E. MORTIMER WHEELER, keeper, London Museum. Origins in Northern France of later prehistoric civilizations of Britain.

M. WILSON, reader in botany, University of Edinburgh. A comparative study of the diseases of the Douglas fir in Europe and North America.

THE ANNUAL SCIENCE EXHIBITION

ALREADY we may forecast that the annual science exhibition in connection with the Indianapolis meeting of the American Association for the Advancement of Science will be a distinctive attraction. The exhibition will be held in Murat Theater along with registration and general sessions. The different societies will be meeting only a few blocks away, except for the mathematical groups, which will be in session at Butler University.

In order to encourage members to make early plans to go to the annual meeting, some of the important exhibits may be announced at this time. Professor A. H. Compton will have a display of charts and diagrams showing compiled results in recent cosmic ray measurements on the Pacific Ocean and at various observatories in cooperation with the Carnegie Institution of Washington. Also a new set of counting tubes for the measurement of cosmic rays underground will be shown. These large diameter tubes are about one meter long and have a counting rate of 3,000 per minute. They will be used with four-fold coincidence as developed by Volney Wilson.

Professor Harold C. Urey will place on exhibit

samples of water which have an increased concentration of the O^{18} isotope approximately four and one half times that of natural water. Also there will be very sizable samples of ammonium chloride whose nitrogen contains as high as 2.5 per cent. of N^{15} , being a six and one half fold increased concentration of this isotope. These samples have been prepared by the distillation of water and by a chemical exchange reaction between ammonium ion and ammonia gas. Diagrams will be shown illustrating the method used, and there will be exhibits illustrating the method of the researches and the progress made in using these materials.

Scientific results of observations of the total eclipse of the sun of June 8, 1937, by the National Geographic Society-U. S. Navy Expedition to Canton Island, in the mid-Pacific, and new types of equipment used by the expedition will be featured in the exhibit by the National Geographic Society. Dr. S. A. Mitchell, director of the McCormick Observatory of the University of Virginia was scientific leader, and Captain J. F. Hellweg, superintendent of the U. S. Naval Observatory, was in charge of the Navy's participation. Among the equipment to be shown will be the first "polaroid camera" ever successfully used at a solar eclipse, with which Dr. F. K. Richtmyer, of Cornell University, obtained important polarization measurements, and a 14-foot camera with a special attachment to make improved photographs of the sun's corona. This was designed by Dr. Irvine C. Gardner, of the National Bureau of Standards. Enlarged photographs of the sun's corona and other features of the eclipse together with pictures of the eclipse in color and scientific data obtained by the expedition will also be included. Additional personnel included: Dr. Paul A. McNally, S.J., director, Georgetown College Observatory; Dr. Theodore Dunham, Jr., Mount Wilson Observatory; Charles G. Thompson, president, Foundation for Astrophysical Research, New York; John E. Willis, U. S. Naval Observatory; Charles Bittinger, artist, Washington, D. C.; Richard H. Stewart, staff representative, National Geographic Society; Walter Brown, radio engineer, New York City; M. S. Adams, radio engineer, San Francisco; George Hicks, radio announcer, all of the National Broadcasting Company; Lieutenant Herman A. Gross, U. S. Navy surgeon, and Lieutenant T. B. Williamson, commander of the *Avocet*, the expedition's ship.

The Museum of Science and Industry, Chicago, hopes to make a friendly gesture to the American Association for the Advancement of Science by having an exhibit of peculiar interest, and having the purpose of broadening the interest in science.

The writer hopes that all members of the associa-

tion attending the Indianapolis meeting will arrange to spend as much time as possible at the exhibition. Furthermore, he would like to be advised of other work that might be incorporated in the exhibition.

F. C. BROWN
Director of Exhibits

OFFICERS OF THE SOUTHWESTERN DIVISION OF THE AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE

OFFICERS of the Southwestern Division of the American Association for the Advancement of Science for the coming year, elected at the business meeting held at Denver last June, are as follows:

President, F. E. E. Germann, department of chemistry, University of Colorado.

Vice-president, E. D. Ball, department of zoology, University of Arizona.

Secretary-Treasurer, V. C. Kiech, department of chemistry, University of New Mexico.

Executive Committee:

(1938) O. C. Lester, department of physics, University of Colorado.

(1939) E. F. Carpenter, department of astronomy, University of Arizona.

(1939) S. A. Northrop, department of geology, University of New Mexico.

(1940) D. S. Robbins, Las Cruces, New Mexico.

(1940) F. W. Sparks, department of mathematics, Texas Technological College, Lubbock.

Section Officers

Biological Science Section:

Chairman, R. J. Gilmore, department of biology, Colorado College.

Vice-chairman, D. M. Crooks, department of botany, University of Arizona.

Secretary, R. H. Canfield, Las Cruces, New Mexico.

Mathematics Section (Southwestern Section, Mathematical Association of America):

Chairman, R. F. Graesser, department of mathematics, University of Arizona.

Vice-chairman, R. S. Underwood, department of mathematics, Texas Technological College, Lubbock.

Secretary, W. C. Risselman, department of mathematics, University of California at Los Angeles.

Physical Science Section:

Chairman, W. M. Craig, department of chemistry, Texas Technological College, Lubbock.

Secretary, C. W. Botkin, department of chemistry, New Mexico State College of Agriculture and Mechanic Arts.

Social Science Section:

Chairman, D. D. Brand, department of anthropology, University of New Mexico.

Secretary, W. H. Hill, department of anthropology, University of New Mexico.

The meeting of the division for next year, beginning on April 25, will be held at Albuquerque, New Mexico, with the university as host. Other meeting places scheduled are as follows:

1939, Sul Ross Teachers College and McDonald Observatory, Alpine, Texas.

1940, University of Arizona, Tucson, Arizona.

1941, Texas Technological College, Lubbock, Texas.

RECENT DEATHS AND MEMORIALS

DR. P. W. CLAASSEN, professor of biology at Cornell University, died on August 16 at the age of fifty-one years.

DR. JUDSON DALAND, emeritus professor of medicine in the Graduate School of Medicine of the University of Pennsylvania and president of the Philadelphia Institute of Medical Research, died on August 15 at the age of seventy-seven years.

DR. FREDERICK D. BULLOCK, associate in research of the Crocker Institute for Cancer Research and assistant professor of medicine at Columbia University, died on August 15. He was fifty-eight years old.

DR. GEORGE R. DEAN, professor emeritus of mathematics at the School of Mines and Metallurgy at Rolla, Mo., died on August 18 at the age of seventy-two years.

NATHANIEL LYON GARDNER, associate professor of botany, emeritus, and curator of the herbarium, emeritus, at the University of California, died on August 15 at the age of seventy-three years.

THE *Journal* of the American Medical Association calls attention to a jubilee celebration of the one hundred and fiftieth anniversary of the birth of Jan Purkinje, the physiologist, which is being arranged in Prague for September under the patronage of Eduard Benes, president of the Republic of Czechoslovakia. Purkinje was born on December 17, 1787, in Libochovice in northwestern Bohemia and studied medicine at Charles University in Prague. After his graduation he was first appointed assistant in anatomy at his alma mater and later became professor of pathology at Breslau, at the age of thirty-three years. At Breslau in 1842 he established what is said to have been the first separate department of physiology in Europe. In 1850 he established a department of physiology at Prague, where he died on July 28, 1869.