

ASTRONOMY

\$100 to Dr. Sebastian Albrecht, Dudley Observatory, for the accurate determination of correlations between stellar wave-lengths, spectral types and absolute magnitudes.

\$150 to Professor S. D. Townley, Stanford University, Calif., for help in the compilation of a new variable star catalogue.

BOTANY

\$250 to Dr. R. S. Breed, New York Agricultural Experiment Station, for a study of red chromogenic rods.

\$500 to Dr. George H. Shull, Princeton University, for work to be done in the greenhouses at Princeton University, especially upon *Oenothera* cultures.

\$250 to Professor R. B. Thomson, University of Toronto, for collecting conifers in Australia.

PHYSICS

\$190 to Dr. F. C. Blake, Ohio State University, for apparatus to be used in work on X-rays.

\$190 to Professor Robert H. Goddard, Clark University, for work on a high-altitude rocket.

\$150 to Professor L. R. Ingersoll, University of Wisconsin, for magneto optical studies.

\$250 to Professor S. R. Williams, Oberlin College, for studies on the correlation between the changes in length which occur in ferro-magnetic substances when magnetized and the Barkhausen effect, the noise which one hears in the process of magnetization by means of a three stage amplifier.

\$180 to Professor Arthur Compton, University of Chicago, for funds to purchase transformers for X-ray work, to be used in the studies of recoil electrons from scattered rays.

PHYSIOLOGY

\$75 to Miss Helen C. Coombs, New York University, for research on the emergency function of the cardiac nerves.

\$225 to Professor C. W. Green, University of Missouri, for a study of the distribution of the different gases in the blood and tissues during nitrous oxide anesthesia.

\$250 to Professor W. F. Hamilton, University of Louisville, for a study of the distribution of the three sensations involved in color vision. To pay for an elaboration of the Rayleigh box built up by the applicant at Yale University.

\$300 to Professor James B. Mavor, Union College, for work on the physiological effects of X-rays.

PSYCHOLOGY

\$240 to Dr. Donald A. Laird, Yale University, for a study on the influences of varying amounts of sleep upon performance in mental multiplication, together with the concomitant variance in the metabolic increment.

ZOOLOGY

\$500 to Mario Bezzi, Turin, Italy, for work on the insect fauna of high altitudes.

\$200 to Professor Franz Schrader, Bryn Mawr College,

for an investigation looking toward a solution of the cause of sex in the White-Fly (*Trialeurodes vaporariorum*) in England.

BURTON E. LIVINGSTON,

Secretary, Committee on Grants for Research

THE TORONTO MEETING OF THE BRITISH ASSOCIATION

THE annual meeting of the British Association for the Advancement of Science will be held this year in Toronto, August 6 to 13, and the International Mathematical Congress will be held at about the same time, August 11 to 16. Members of the American Association have been cordially invited to be present at the British Association meeting and the permanent secretary of the American Association is arranging to mail a copy of the preliminary program of the Toronto meeting to each member. These will be sent out as early as possible after the receipt of the programs from England. It is hoped that reduced railway rates may be secured. All Americans interested in science should attend if possible.

Members of the American Association have been offered a special privilege in connection with attendance at the Toronto meeting. The regular fee for attendance will be \$5, with an additional fee of \$2.50 to be paid by those who wish subsequently to receive the published report of the meeting, but members of the A. A. A. S. who pay the \$5 fee, whether they attend or not, may receive the report free, if they so request at the time of making payment. Each member of the American Association who is in good standing at the time the preliminary programs are sent out from the Washington office is to receive with the program a certificate of identification, which should be exhibited when the ticket to the Toronto meeting is purchased. Members who pay their 1924 dues to the Washington office subsequently to the sending out of the Toronto preliminary programs may receive certificates of identification for use in connection with the Toronto meeting if they so request when they pay their 1924 dues or after these have been paid. It will greatly facilitate the work of the local committee in charge of preparations for the Toronto meeting if all Americans who plan to attend the Toronto meeting will intimate this intention as soon as possible, but members of the American Association should secure their certificates of identification from the Washington office beforehand and present them when they pay their \$5 fee for the Toronto meeting, especially if they wish to request the published report of the meeting. Intimations of intentions to attend may be addressed to the Local Honorable Secretaries, British Association, Room 50, Physics Building, University, Toronto. A blank form for intimations will be supplied with each preliminary program.

Further announcements regarding the Toronto meeting, which will be a very important occasion in international as well as in American science, will be made in *SCIENCE* from time to time.

BURTON E. LIVINGSTON,
Permanent Secretary

SCIENTIFIC NOTES AND NEWS

THE sixtieth annual meeting of the National Academy of Sciences will be held at the National Academy Building, B and 21st Streets, Washington, D. C., April 28, 29 and 30, 1924. The meeting will celebrate the acquisition and occupation of the new building. The principal feature of the occasion will be the dedicatory ceremonies and appropriate special program which, except for the opening business session on Monday, will occupy the first day. The president of the United States is expected to take part. Invitations to attend the exercises have been extended to many scientific institutions, learned societies and distinguished scientists, by both the National Academy and the Research Council.

THE executive committee of the American Association for the Advancement of Science will hold its regular spring meeting in Washington on Sunday, April 27. The main matters of business to come before the committee at that meeting are: (1) Arrangements for the nomination and election of fellows; (2) arrangements for affiliated academies of science; (3) the 1924 campaign for new members and for additional support for the association; (4) arrangements for the Washington meeting. Communications from members should be in the hands of the permanent secretary (Burton E. Livingston, Smithsonian Institution, Washington, D. C.) by April 19 if they are to be brought before the committee at this meeting.

M. BIGOURDAN has been elected president of the Paris Academy of Sciences to succeed M. Albin Haller.

DR. M. VON GRUBER, professor of hygiene and bacteriology at the University of Munich, has been elected president, for a period of three years, of the Bavarian Academy of Science succeeding the astronomer, Dr. H. von Seeliger.

PROFESSOR GRAHAM LUSK, of Cornell University Medical College, has been elected an honorary member of the Physiologische Gesellschaft of Berlin and of the Physiological Society of Great Britain.

THE degree of doctor of science was conferred on Professor Daniel D. Jackson, head of the department of chemical engineering at Columbia University, at the charter day exercises of the University of Pittsburgh, held on February 19.

THE degree of doctor of laws will be conferred by the University of Aberdeen on Dr. J. J. R. Macleod, of the University of Toronto.

IN honor of Dr. Cornelia Clapp, graduate and professor emeritus of Mount Holyoke College, alumnae associations of the college throughout the country held dinners on her birthday on March 17. A radio message by President Mary E. Woolley and a musical program by members of the Department of Music were broadcast from Springfield, Mass. The completion of the \$600,000 building fund for a new biological building to be called Cornelia Clapp Hall was also celebrated.

E. F. W. ALEXANDERSON, consulting engineer of the General Electric Company and chief consulting engineer of the Radio Corporation of America, has been awarded the Order of the Polonia Restituta, by the Polish Government, in recognition of his meritorious services in connection with the building of Poland's new radio station near Warsaw. This station is the first in Europe to make use of the Alexander high frequency alternator now used in all Radio Corporation stations for transoceanic communications.

FRED CRABTREE, head of the department of metallurgical and mining engineering, Carnegie Institute of Technology, has been elected president of the Engineers' Society of Western Pennsylvania.

PROFESSOR G. G. HENDERSON, F.R.S., Regius professor of chemistry in the University of Glasgow, was installed as president of the British Institute of Chemistry at the annual meeting held in London on March 3. At the same meeting, the Meldola Medal (for the work of most promise published by a British chemist under thirty years of age), the gift of the Maccabaeans, was presented to Mr. C. N. Hinshelwood, B.A. (Oxon).

PROFESSOR ARCHIBALD BARR was elected president of the Optical Society at the recent annual meeting in London. Vice-presidents were elected as follows: Sir Frank Dyson, Mr. T. Smith and Mr. T. Y. Baker.

PROFESSOR W. H. PERKIN, Waynflete professor of chemistry at the University of Oxford, has been elected to the board of the British Dyestuffs Corporation, Ltd. Professor Perkin recently undertook the supervision of the research department of the corporation, a duty which he will continue to perform in addition to serving as a director.

WILLIAM G. ELLIOTT, Pittsburgh, Pa., has been awarded the Edward Longstreth Medal by the Franklin Institute for the scientific and commercial development of a method and apparatus for the successful deaeration of feed-water for power plants.