

tory." He says, however, that in other ways this has been a disappointing year. He writes in part:

The finances of the academy continue to be a matter of great concern, and because of the necessity for balancing the budget, we have been forced to curtail our activities to such an extent that we can no longer be quite so efficient as in the recent past. This curtailment of activities in every department has been forced upon us because the requested budget for 1940 so far exceeds the academy's income. I regret to say that only a small percentage of the academy fellowship has given the Fund-Raising Committee its enthusiastic support, either through direct financial contributions or by making individual efforts toward increasing academy endowment.

Your Budget Committee has had a good deal of advice as to how the budget may be balanced. It has even been suggested that one activity might be dropped entirely. I can tell you that if all three of the Standing Committees of the academy were abolished, with their paid staffs, the surplus remaining after the budget had been balanced in this manner would be scarcely over five thousand dollars. And then, one day the question might again be raised, as to whether the academy was properly an educational institution, or if it was not rather a private institution maintaining a library and section meetings for the benefit principally of its fellowship.

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So we find ourselves in a serious position, faced with the necessity to curtail the activities of various Standing Committees of the academy and the library, by cutting ruthlessly their requested budgets for 1940, which must entail the loss of competent, well-trained employees of long standing.

I am not in any way exaggerating the dilemma in which we find ourselves. Be assured, we are going to carry on, carry on with all the enthusiasm which the various Standing Committees and their staffs have shown in the past, in spite of these handicaps. We are not planning at the present time to abolish any Standing Committee, and we hope this will never become necessary.

I think I have made it perfectly plain that, if the academy is to go on with its service to the public, we shall have to have more endowment. During the last two or three years a very hard-working Fund-Raising Committee has managed to raise funds sufficient to help carry the burden. It has not been possible, however, to add most of the funds thus raised to endowment; they have in large measure been paid out of current expenses. This is a hand-to-mouth existence which can not be permitted to go on. We shall need additional endowment, if we are to continue to accept our responsibilities as we have in the past, and if we are to continue to develop our capacity for public service in normal fashion.

#### SYMPOSIUM OF THE SOCIETY FOR DEVELOPMENT AND GROWTH

A SYMPOSIUM on "Development and Growth" was held at North Truro, Mass., in August, 1939. Experts from a variety of fields gathered there for mutual exchange of views and joint discussion of topics of

common interest. Representatives of the fields of agriculture, bacteriology, biochemistry, biophysics, botany, cytology, embryology, endocrinology, genetics, histology, mathematics, pathology, philosophy, physiology and zoology concentrated on a single focal issue. Correlation of facts and integration of concepts relating to development were thus promoted.

The success of this concerted effort at synthesis was so tangible that the group, as assembled at the meeting, decided to constitute a permanent body with the aim to rally for joint discussion and closer cooperation all those interested in development and growth, primarily by holding annual symposia of wide scope. Thus, a "Society for (the Study of) Development and Growth" was founded. An organizing committee was elected, which at present consists of Drs. Warren H. Lewis, *chairman*; Paul Weiss, *secretary*; Leigh Hoadley, *treasurer*; N. J. Berrill, Philip R. White, E. W. Sinnott, *members*.

The committee has made arrangements for the next symposium to be held from June 20 to 26 at Salsbury Cove, Maine, with the following program (a half day reserved for each topic):

Thursday morning, "Structure of Protoplasm."

Thursday afternoon, "Synthesis of Protoplasm."

Friday morning, "Colloid Chemistry of Development and Growth."

Friday afternoon, "Chemical Factors of Growth."

Saturday morning, "Physical Factors of Growth."

Monday morning, "Cell Division in Relation to Development."

Monday afternoon, "Size-controlling Factors."

Tuesday morning, "Pathology of Development."

Tuesday afternoon, "Theories of Organization."

On that occasion, further details concerning the organization and scope of the society will be considered. Membership is open to all interested in the synthesis of all studies and knowledge bearing on development in the widest sense. Annual dues have been tentatively fixed at \$1; in addition, there will be a registration fee of \$1 for those attending the symposium. Those wishing to join the society are asked to communicate with Dr. Paul Weiss, department of zoology, University of Chicago, Chicago.

#### RESEARCH CONFERENCES ON CHEMISTRY AT GIBSON ISLAND

THE Section on Chemistry of the American Association for the Advancement of Science will again sponsor a series of research conferences this summer to be held at Gibson Island, Maryland, under the direction of Neil E. Gordon, secretary of the section. The schedule thus far arranged is as follows:

<i>Chairman</i>	<i>Topic</i>	<i>Week of</i>
Dr. C. R. Wagner	"Frontiers in Petroleum Chemistry"	June 17

Dr. E. C. Williams	"Catalysis"	June 24
Dr. H. L. Bender	"Physical Data and Structural Interpretation of Organic High Molecular Weight Type Compounds"	July 8
Dr. C. G. King	"Vitamins"	July 15
Dr. Walter H. Hartung	"Relation of Structure to Physiological Action"	July 22
Dr. Maurice L. Huggins	"Applications of X-Ray and Electron Diffraction"	July 29

All those desiring to receive the complete program, including the names of the speakers and their topics for the various weeks or for any particular week, should apply to the director, Professor Neil E. Gordon, Central College, Fayette, Missouri.

#### BERMUDA BIOLOGICAL STATION FOR RESEARCH

THE fourteenth annual meeting of the corporation and a meeting of the Board of Trustees of the Bermuda Biological Station for Research, Inc., were held, December 16, in New York City.

Officers elected for 1940 were: *President*, Columbus Iselin, II; *Vice-president*, A. G. Huntsman; *Treasurer*, Ross G. Harrison; *Secretary*, J. H. Welsh.

Reelected as trustees of the class retiring in 1943 were: P. S. Galtsoff, E. N. Harvey, Columbus Iselin, II, Stanley Kemp, H. W. Rand. New trustees elected were: C. P. Curtis, Jr., and G. P. Woollard.

The station has been closed for a few months due largely to the fact that at the outbreak of the war in Europe the director was on leave of absence in England. He has recently returned to Bermuda and since weekly sailings from New York are now being made by an American steamer, the laboratory will be reopened to investigators at once. Those interested in working at the station during 1940 may obtain information regarding accommodations by writing the director, Dr. J. F. G. Wheeler, St. Georges, Bermuda, or the secretary, J. H. Welsh, Biological Laboratories, Harvard University, Cambridge, Mass.

#### THE PHIPPS AUDITORIUM OF THE COLORADO MUSEUM OF NATURAL HISTORY

THE attendance—463,130 for the year—at the Colorado Museum, Denver, of which Alfred M. Bailey is director, was the largest in its history. During the year the Phipps Auditorium, which seats about 1,000 people, has been erected as a result of a gift of \$137,500 by former United States Senator and Mrs. Lawrence C. Phipps, of Denver, and a grant of \$112,500 by the Public Works Administration. The program of dedication took place on January 11, with eight

hundred invited guests in attendance. Governor Ralph L. Carr, Mayor Benjamin F. Stapleton, Charles H. Hanington, president of the museum, Thomas A. Dines and Senator Lawrence C. Phipps were the principal speakers. Director Alfred M. Bailey showed excerpts from the museum's new color films, and Major Alfred M. Collins, guest speaker, told of his African travels.

The auditorium, which was designed by Architect Roland L. Linder, is 98 feet wide and 140 feet long, of terra cotta, brick and Fort Collins stone. In presenting funds to match the Federal grant, Senator Phipps, long a trustee, expressed the wish that the auditorium "would fulfill cultural needs by making a common meeting place for those interested in the arts and sciences." In designing the auditorium the latest information available on acoustical treatment has been taken into consideration; space is provided for a concert organ and the stage accommodates a seventy-five piece orchestra. The latest type of standard and sixteen millimeter motion picture projection and sound equipment has been installed, including two motiograph standards and one Holmes sixteen millimeter, so that educational programs for adults and children may be provided. The main floor has a seating capacity of seven hundred and fifty, with two hundred and fifty additional seats in the balcony. Motion-picture programs have been arranged for children each Saturday morning and on Sunday afternoons for naturalists, travelers and explorers. Provision has been made for the dismantling of the old North American and South American bird groups and for the installation of new habitat cases. The exhibits will be reassembled in the new cases, with those of the Standley Memorial Wing depicting habitats from the Arctic areas to the Gulf of Mexico, and those in the James Memorial Wing showing bird life from Mexico through South America. The new cases have concave backgrounds with domed ceilings and slanting plate glass fronts seven and a half feet high, and from thirteen to fourteen feet in length. The new type General Electric fluorescent lights have been installed in especially built fixtures. A group of W.P.A. artists, under the supervision of Curator Robert J. Niedrach, are now painting the large panoramic views of the Bering Sea Island Group, the Ice Floe Group, the Alaskan Tundra, the Bonaventure Island Group and several Brazilian backgrounds.

#### GIFTS FOR SCIENTIFIC RESEARCH AT CORNELL UNIVERSITY

CORNELL UNIVERSITY received gifts amounting to \$489,805 during the first half of the academic year ending January 1, the colleges at Ithaca receiving the sum of \$349,170 and Cornell University Medical College in New York City \$140,635, the total amount representing an increase of \$130,651 over gifts of \$359,154 received during the same period last year.