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Report of the President

Arthur N. Wilcox

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General Sessions

THE NATURAL SCIENCES AND MAN

VANNEVAR BUSH

President, Carnegie Institution of Washington
IN *The Individual and Liberal Education*, UNIVERSITY OF
MINNESOTA PRESS, 1952.

1 1 1

THE SOCIAL SCIENCES IN THE SERVICES OF MAN

GEN. FREDERICK OSBURN

Trustee, Carnegie Corporation
IN *The Social Sciences at Mid-Century*, UNIVERSITY OF
MINNESOTA PRESS, 1952.

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REPORT OF THE PRESIDENT

ARTHUR N. WILCOX

It is the purpose of the president's report to summarize the year's activities of the Academy, to acknowledge special services, and to make recommendations which seem desirable for the Academy's welfare.

One of the important activities is the holding of meetings for scientific programs and for the association of persons engaged in science. These have usually included the annual meeting in the spring and a field trip in the late summer. The field meeting, which was held this year at Itasca State Park on September 1 and 2, was reported in the last Proceedings by Donald K. Lewis. The facilities of the University of Minnesota Forestry Camp and Biological Station were made available through the kind permission of Thorvald Schantz-Hansen, Director. The Academy is also indebted to William Marshall, Harold Peters, and Donald Lewis, who comprised the committee on program and local arrangements, and to the several speakers listed in Mr. Lewis' report.

The spring meeting was held at the University of Minnesota, with the Academy dinner and a public meeting on Friday evening, April 20, on the Minneapolis Campus, and the business meeting, demonstrations, and science programs on Saturday on the St. Paul Campus. For the Friday evening program it was the Academy's privilege to cooperate with the University of Minnesota, Phi Beta Kappa, and the Society of the Sigma Xi in sponsoring the symposium on "Science in the Service of Mankind," a program in dedication of Ford Hall and Johnston Hall. Dr. Guy Stanton Ford,

President Emeritus of the University, was chairman. The speakers were Dr. Vannevar Bush, President, Carnegie Institution of Washington, for the natural sciences, and Gen. Frederick Osborn, Trustee, Carnegie Institution of Washington, for the social sciences.

The arrangements for the St. Paul Campus meetings took into account the request by many members for an opportunity to see some of the work of the Minnesota Agricultural Experiment Station. The program of conducted tours and demonstrations is published elsewhere in this volume. The local committee included A. E. Hutchins, Carl Borgeson, W. F. Geddes, Milton Kernkamp, A. F. Sellers, H. J. Sloan, Elmer Thomas, and L. M. Winters, to whom thanks are due.

The president gratefully acknowledges the kindness of Dean C. H. Bailey for making available the facilities of the Department of Agriculture and the cooperation of the staff, and of Short-Courses Director J. O. Christianson, and Mrs. Helen Karow of his office, whose experience and help contributed so much to the local arrangements.

The Academy is indebted to Dr. Shirley P. Miller, secretary-treasurer, whose generous services and good judgment have been invaluable, not only in connection with the meetings, but also in his other duties, and particularly in connection with membership records.

The publication of the Proceedings, delayed for financial reasons during the war years, was resumed by combining the volumes for 1948, 1949 and 1950 under one cover. The editorial work was ably carried out by Mr. and Mrs. D. K. Lewis and Mrs. J. W. Moore. It is hoped that hereafter the Academy will be able to publish separate annual volumes and that rapid publication will be facilitated.

The Junior Academy of Science has added three new chapters and has enjoyed very active participation. Exhibits by its members exceeded the capacity of the exhibit hall. The mutual enjoyment by members of the Junior and Senior Academies of one another's exhibits and demonstrations has again, as at Rochester, been a desirable feature of the annual meeting. The Academy appreciates the effective leadership by the officers of the Junior Academy and the sponsors of the individual chapters, and also acknowledges the services of Robert Molkenbur, who was in charge of local arrangements.

The Academy gratefully recognizes the work of the Committee on the Science Talent Search, whose chairman, O. A. Nelson, has also made a noteworthy contribution in obtaining college scholarships for a number of high school seniors who had made superior, but not prize-winning, records in the Talent Search tests.

The Committee on the Preservation of Natural Conditions has continued to seek support for the completion of Cedar Creek Forest, but has found it difficult to regain the momentum that was lost

when its solicitation of funds was suspended for the duration of the war by the Council. It is important for the committee to receive wider support toward the completion of the Cedar Creek Forest. It could then resume its broader original functions of locating tracts of land which, because of examples of indigenous forest or prairie or other features, ought to be preserved for scientific or educational purposes; and of finding the means to preserve such areas. A reconstitution of this committee with provision for succession is also desirable.

Means of increasing the membership of the Academy have been considered. The possibility of establishing a Section on Earth Sciences has been explored in a preliminary way. Measures to strengthen the Social Science Section have been discussed and the suggestion has been received that this section be discontinued unless it meets with more active participation. The increased interest in collegiate memberships is encouraging. This class of membership for undergraduates, authorized as an experiment, has resulted in the organization of active groups in several colleges.

The financial state of the Academy has improved to an encouraging extent, but the improvement was effected largely through an emergency reduction in the *Proceedings*, which has been the greatest item of expense. It is important that the financial condition shall not again be permitted to deteriorate. The budgeting of funds would seem to be the first essential step in the direction of business-like management. It would enable the Council to plan its expenditures in relation to probable income, to allot the best possible support to the most important activities, to effect economies where they would hurt the least, and to foresee danger signs in time to prevent misfortune. It is desirable whether the Academy continues to finance most of its activities through dues or whether it develops more adequate sources of income. It is my recommendation that the Council be required to operate with a budget.

The worthwhile activities of the Academy deserve greater support than the membership can provide through reasonable dues. These activities are particularly important in fostering and developing the human resources of the state, in addition to encouraging research and disseminating knowledge. It is in the public interest that they be carried forward.

During the past year considerable attention was devoted to the possibility of state support. Conferences were held with several legislative leaders. Although the attitude of these men was encouraging, it was clear that a successful drive for legislative support would require a statewide effort involving the cooperation of many individuals. Due to lack of personnel with the time to devote to this work, the plan to seek an appropriation was abandoned for the current legislative session. State support for the Academy is sound in principle and should be sought, but the magnitude of the task

should not be underestimated. In seeking additional funds, however, the Academy may well keep in mind the advantages of diversified sources, so planned that the most essential activities receive the most stable support.

Even with a far larger income than it enjoys at present, the Academy would still have as its greatest assets the service, devotion, vision, and ability of its members. These deserve cultivation. It is desirable to have a higher proportion of the membership participating actively. I would recommend, therefore, that a constant effort be made to recruit new talent for the many worthwhile activities of the Academy.

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Tours and Demonstrations

(BY TITLE ONLY)

Animal Industry Tour

PETERS HALL

RESEARCH IN PRENATAL DEVELOPMENT AND ARTIFICIAL
INSEMINATION WITH LIVESTOCK

J. N. CUMMINGS

1 1 1

THE DEVELOPMENT OF MARKET TYPES OF TURKEYS AND CHICKENS

H. J. SLOAN

1 1 1

DAIRY BARN

THE USE OF IDENTICAL TWINS AND TRIPLETS IN DAIRY
CATTLE RESEARCH

M. C. HERVEY

1 1 1

VETERINARY CLINIC

CORROSION-INJECTION PREPARATION OF THE BOVINE
MAMMARY GLAND

R. L. KITCHELL AND A. F. WEBER

GROSS AND MICROSCOPIC DEMONSTRATIONS OF LIVING PARASITES
AFFECTING DOMESTIC ANIMALS

H. J. GRIFFITHS AND J. F. HENRY

GROSS DEMONSTRATIONS OF PATHOLOGICAL MATERIAL FROM CASES
OF DISEASE IN ANIMALS

H. C. H. KERNKAMP, J. H. SAUTTER, AND J. C. FLINT

X-RAY FILMS OF INTERESTING CASES OF DISEASE IN DOGS, CATTLE,
AND OTHER DOMESTIC ANIMALS

F. A. SPURRELL

DEMONSTRATION OF THE INTERIOR OF THE BOVINE STOMACH AND
MECHANISM OF RUMINANT STOMACH ACTIVITY

M. H. ROEPKE, A. HEMINGWAY, A. F. SELLERS, E. N. BERGMAN,
AND L. L. LARSON

1 1 1

HECKER HALL

RESEARCH IN DAIRY PRODUCTS

ELMER THOMAS

1 1 1

DEMONSTRATION OF MILK SECRETION RESEARCH USING AN UDDER
WITH ARTIFICIAL HEART AND LUNGS

W. E. PETERSEN AND L. S. MIX

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Plant Industry Tour

SNYDER HALL

RESEARCH IN THE MILLING AND BAKING QUALITIES OF WHEAT

W. F. GEDDES, L. S. CUENDET, AND CALVIN NORRIS

1 1 1

PLANT PATHOLOGY GREENHOUSES AND
LABORATORIES

WHEAT IMPROVEMENT FOR DISEASE RESISTANCE

E. C. STAKMAN AND STAFF

1 1 1

AGRONOMY SEED STOCKS BUILDING

FOUNDATION SEED-STOCK PRODUCTION AND SEED PRESERVATION

CARL BORGESON AND IRVEN GREENWALD

1 1 1

MINNESOTA CROP IMPROVEMENT ASS'N BUILDING

SEED CERTIFICATION

RALPH CRIM AND WARD MARSHALL