

commanded 18 months ago. With one exception each of these associations now enjoys an income of at least £10,000, the minimum figure which, even in a small industry, we can accept for the income of an association whose future can be considered as assured."

While there is "encouraging evidence of the change being brought about largely by the whole-hearted efforts of enlightened leaders in our great industries," the Advisory Council still finds that the scientific outlook of some industries leaves much to be desired. "Neither in the directorates," it is stated, "nor among the technical and executive staffs is sufficient weight yet given to scientific attainment and experience; and until a radical change has taken place in this respect the position is bound to be that the industries as a whole will remain unable to obtain the full benefit of the results of scientific investigation."

"It is the progressive firms which engage in investigation and research, whether in their own laboratories or by sharing the burden of cooperative effort or in both ways, and these firms reap the benefits. From the national point of view it is vitally important to enlarge the circle of scientifically minded firms."

The report emphasizes the fact that science can be of service in the workshop as in the laboratory, and it is this link between the workshop and the laboratory which is the real essential for the application of advances in scientific knowledge.

The report gives a résumé of industrial advances resulting from the cooperation of science and industry, including an outline of the work of the British Scientific Instrument Research Association.

GRANTS IN AID OF RESEARCH OF THE AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE

SPECIAL endowment funds give the American Association for the Advancement of Science a limited income which, in accordance with the conditions of the donors, may be used in making small grants to individuals for the encouragement of research. A portion of these funds is now assigned through the medium of the state academies, and the allotment of another part rests with the committee on grants. For the coming year the sum placed at the disposal of the committee on grants is \$2,000. The committee has favored recently the use of this fund to aid in the completion of important projects which have been carried to the point where but little is needed to finish the work.

Evidently from a total of such moderate size, individual grants must be narrowly limited in amount, but it has been found that smaller funds are often useful in meeting emergency needs which because of conditions can not be covered by other agencies. Requests for larger sums are beyond the power of the committee

to consider. Special blanks may be secured from the office of the permanent secretary, Smithsonian Institution Building, Washington, D. C., on which those who desire may make application. It is essential that each application be supported by specific letters from at least two sponsors who are able to speak both of the applicant and of the project from personal acquaintance and are qualified to pass upon the worker and the proposed utilization of the grant. In accordance with action recommended at Boston and approved by the council, grants in aid of publication of research will not be considered under this heading.

The membership of the committee for the current year is as follows: Arthur H. Compton (1937) (for physics), University of Chicago; J. B. Macelwane (1936) (for geology), St. Louis University; Sam F. Trelease (1939) (for botany), Columbia University; Joel Stebbins (1939) (for astronomy), University of Wisconsin; McKeen Cattell (1938) (for medicine), Cornell University Medical College; Moses Gomberg (1938) (for chemistry), University of Michigan; C. C. Little (1937) (for zoology), Jackson Memorial Laboratory; Walter R. Miles (1936) (for psychology), Yale University. The committee prefers that all correspondence be addressed to the permanent secretary and not to individual members. The fiscal year of the association opens on October 1 and closes on September 30 following. All grants not utilized within the year normally revert to the treasury of the association on October 1.

Applications for grants for 1937 must be received at the permanent secretary's office in Washington, D. C., on or before October 30. Reports which are incomplete or late in arrival can not be considered for the year 1937. The report of the committee is laid before the executive committee and the council at the annual meeting in December, and payment of approved grants is made by the treasurer following that meeting. Unused portions of grants should be returned on October 1 of each year.

Publications including results obtained by virtue of the assistance rendered through grants should contain due acknowledgment of the aid furnished by the association. Recipients of grants are expected to make at least one report, which should be filed with the permanent secretary not later than October of the year for which the grant was made. In case completion of the report is delayed, notice should be sent to the permanent secretary's office and a statement of the results obtained in the research should be made at the time the report is filed.

HENRY B. WARD,
Permanent Secretary