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SUMMARY STATEMENT OF THE WORK OF THE NATIONAL RESEARCH COUNCIL—1934-1935

By Dr. ISAIAH BOWMAN

CHAIRMAN

THE more concentrated activities of the National Research Council during the past year have been in five specific fields which were considered to be of major significance at this time:

- (1) Borderlands in science and the training necessary for their cultivation;
- (2) The educational relationships of post-doctorate fellowships and possible sources of future support;
- (3) The continuation of general support for individual grants-in-aid of research;
- (4) The responsibility of scientific institutions in relation to patents that may be issued on the results of scientific research;
- (5) Relationships to the scientific services of the government of advisory non-governmental scientific agencies.

For the information of the public a brief description

of the work in these five fields is published at this time, as soon as practicable after the close of the fiscal year. A complete statement of Council activities during the past year, including full details of the work of the several divisions, will be published as usual in the Annual Report.

BORDERLANDS IN SCIENCE

Repeated consideration has been given by the Administrative Committee to the advancement of research in the borderlands between traditional scientific fields. Certain borderlands, such as physical chemistry and biochemistry, are now clearly recognized and well cultivated. Others are plainly in need of cultivation. Geology, geography and biology, for instance, have relationships of special importance in studies of land

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RAFAEL LORENTE DE NÒ. The electrical excitability of the motoneurons. Six figures.

THEODORE L. JAHN. The nature and permeability of the grasshopper egg membranes. I. The e.m.f. across membranes during early diapause. Seven figures.

H. ALBERT BARKER. The metabolism of the colorless alga, *Prototheca zopfii* Krüger.

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J. F. MANERY, M. S. WELCH and LAURENCE IRVING. The postmortal formation of lactic acid in the muscles of seals, ducks and hens.

LAURENCE IRVING, O. M. SOLANDT, D. Y. SOLANDT and K. C. FISHER. The respiratory metabolism of the seal and its adjustment to diving. Four figures.

C. L. PROSSER. Action potentials in the nervous system of the crayfish. V. Temporal relations in presynaptic and postsynaptic responses. Seven figures.

Current physiological literature.

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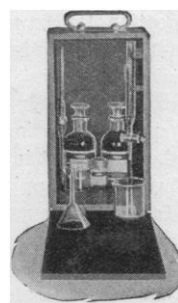
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