

National Research Council. It was decided to make arrangements for these tests as soon as possible.

Associate Committee on Biophysics

As previously reported a conference on biophysics was held in Toronto in February, 1930, at which there was a general discussion of important problems awaiting investigation in the field of radiology, especially in relation to the treatment of disease. At this conference a subcommittee was appointed to go over the whole list of problems suggested, consider the advisability of research, and report back to the main committee.

A meeting of this subcommittee was held in Toronto on October 18, 1930. In the absence of Dr. Tory, chairman, Dr. Boyle, Director of the Division of Physics in the National Research Laboratories, presided.

In view of the fact that in the therapeutical use of radiology, which is rapidly increasing, there is little precise knowledge as to the proper wavelengths to use or the optimum time and intensity of treatment, it was agreed that standardization in dosage is of fundamental importance. After a full discussion the committee recommended to the National Research Council that provision be made as soon as possible in the National Research Laboratories for the standardization of measurements of radium, X-rays, ultra-violet and other light, high frequency radiation, and heat radiation. Steps to that end are now being taken.

It was recognized that this meeting of the subcommittee was only a preliminary discussion, and that a very large field exists for research in biophysical problems. It is anticipated that provision will be made for this in due course, although at present the work which can be undertaken is seriously limited by the inadequacy of the funds available.

While not carried out under the committee, it is of interest to note that work on high frequency radiation in relation to chemical reactions and selective heating of animal tissues is under way by Dr. J. C. McLennan in the Physical Laboratory of the University of Toronto. The progress of this investigation to date is summarized on page 114 of this report.

Associate Committee of Chemists

Two meetings of the committee have been held during the year under review, both in Ottawa, on January 4 and May 29, 1930. Dr. G. S. Whitby, Director of the Division of Chemistry in the National Research Laboratories, presided at both these meetings, having succeeded to the chairmanship previously held since the organization of the committee by Dr. R. F. Ruttan, now deceased.

At the earlier meeting Dr. Tory briefly reviewed the work of the National Research Council and outlined the plans for the National Research Laboratories. The committee discussed in particular the arrangements being made for researches in pure and industrial chemistry.

The question of the production of artificial fertilizers in Canada was considered at some length. Messrs. B. L. Emslie and R. J. Walley presented

papers dealing with results of recent work the need of fertilizers, a need for a comprehensive discussion on

Mr. W. A. P. Scott of the Stevens conducted tests carried out with viscosity coefficients in Canada because of weather.

Dr. Bruce Macallan in the study of vitamin importance to human health. Extensive application of poultry.

The chairman outlined the National Research assistance of the committee problems that should be

At the May meeting question of chemical scale, and available scale length, especially in Weed Control. For d

Mr. Lathe gave the importance of the production of 250,000 tons per year classes of screenings was regarded by the National Research Laboratories as possible

The chairman gave National Research Laboratories wool, and laundry production committee regarding the in some detail by the

Mr. S. J. Cook, the question of import work is directed toward and the possible development to know in detail production to the problem under committee as of importance effort should be made detailed information under favorable conditions