

## PREFACE

In 1918 the University of Manitoba founded the Chair of Zoology, and the following address, delivered as the Opening Address for the Session 1918-19, was also intended to mark this step in the extension of its Science Departments. The University authorities decided that it should be issued in a printed form. It is therefore presented in the following pages, and, apart from a few minor alterations in wording, stands as it was delivered. I am conscious that it is incomplete; what address covering so wide a subject would not be, and the consideration of certain aspects of Zoology were purposely omitted. For example, the advances in classification, in descriptive Morphology and in descriptive as opposed to experimental Embryology, were not dealt with, although I am aware that they are essential to Zoological progress. This was because they would have required a more specialized treatment than was desirable at such a time, and also because it does not appear that we can look for any striking discoveries along these lines in the immediate future. Then, too, it appeared desirable to call attention to certain more or less pressing local requirements, and to research work that has had and will have a direct bearing upon everyday life.

When it was determined to print this address it was also suggested to me that it would be an advantage to indicate where further information on the subjects touched upon could be found, so that it would also act, to a certain extent, as a guide in reading. This has been done by the addition of foot-notes. The works referred to by no means constitute an exhaustive list of the literature, which would, as a matter of fact, occupy several large volumes in itself. It is hoped that the references will give access to much of the recent work that is in language not too technical for the ordinary University reader to follow, and that is available in the University, and the quotations also emphasize the urgent need for the support of research in this country. In certain cases it has been impossible to avoid the mention of purely technical papers.

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