

Proceedings of the

CAMBRIDGE PHILOSOPHICAL
SOCIETY

VOLUME 45

PART 4

CAMBRIDGE UNIVERSITY PRESS
CAMBRIDGE, AND BENTLEY HOUSE, LONDON
CANADA AND INDIA: MACMILLAN

Price Fifteen Shillings Net

October 1949

CAMBRIDGE PHILOSOPHICAL SOCIETY

FOUNDED 1819; ROYAL CHARTER 1832

Session 1948-1949

President: W. V. D. HODGE.

Vice-Presidents: W. B. R. KING, W. L. BRAGG, F. T. BROOKS.

Treasurer: M. V. WILKES, St John's College.

Secretaries: (Mathematical) R. A. RANKIN, Clare College.

(Physical) R. C. EVANS, St Catharine's College.

(Biological) J. E. SMITH, Jesus College.

The publications of the Society consist of the *Proceedings* and of the *Biological Reviews*. The publication of separate *Transactions* was suspended at the end of Volume XXII.

Orders should be sent to: THE MANAGER, CAMBRIDGE UNIVERSITY PRESS, BENTLEY HOUSE, 200 EUSTON ROAD, LONDON, N.W.1.

For the purchase of early parts of the *Transactions* and *Proceedings* applications should be made to the Secretaries. The current price for these early parts is the original selling price, plus 50 %.

Fellows of the Society are particularly requested to inform the Secretaries of any change of postal address.

PROCEEDINGS of the CAMBRIDGE PHILOSOPHICAL SOCIETY

Editorial Committee:

R. C. EVANS

A. B. PIPPARD

D. R. HARTREE

R. A. RANKIN

W. V. D. HODGE

F. SMITHIES

N. KEMMER

D. H. WILKINSON

1. Communications for the *Proceedings* should be sent to one of the above, or to *The Philosophical Library, Cambridge*.

2. Four parts of the *Proceedings* are issued during the year.

3. Papers occupying more than twenty pages of print can only very rarely be accepted.

4. Authors of papers are informed that the Illustrations and Diagrams are executed as far as possible by photographic 'process' work; drawings should be on a large scale and on smooth white Bristol board in Indian Ink.

Authors may receive on request, fifty offprints of a paper in the *Proceedings* without charge.

5. It is recommended that each paper be prefaced by a short abstract. Authors may find it useful to consult the *Guide for the preparation of synopses* which has been prepared by the Abstracting Services Consultative Committee and is issued by the Royal Society. Copies may be obtained from the Librarian.

6. Authors are particularly requested to prepare their manuscripts in a form suitable for printing. In the event of a large number of corrections being necessary in the proofs, the Council reserves the right to make a charge towards the cost of revision.