THE MARINE BIOLOGICAL ASSOCIATION OF THE UNITED KINGDOM

THE ASSOCIATION was founded in 1884 to promote accurate researches leading to the advancement of zoological and botanical science and to an increase in our knowledge of the food, life, conditions and habits of British fishes. The work of the Association is controlled by a Council elected annually by its subscribing members.

Professor T. H. Huxley took the chair at the initial meeting held in the rooms of the Royal Society and was elected the first President. Among those present were Sir John Lubbock (afterwards Lord Avebury), Sir Joseph Hooker, Professor H. N. Moseley, Mr G. J. Romanes, and Sir E. Ray Lankester who, after Professor Huxley, was for many years president of the Association. It was decided that a laboratory should be established at Plymouth, where a rich and varied fauna is to be found.

The Plymouth Laboratory was opened in June 1888, and, since that date, a new library and further laboratory accommodation have been added.

The Association is maintained by subscriptions and donations from private members, universities, scientific societies and other public bodies; a generous annual grant has been made by the Fishmongers' Company since the Association began. Practical investigations upon matters connected with sea-fishing are carried on under the direction of the Council, and from the beginning a Government Grant in aid of the maintenance of the laboratory has been made; in recent years this grant has been greatly increased in view of the assistance which the Association has been able to render in fishery problems and in fundamental work on the environment of marine organisms. Accounts of the laboratory and aquarium and the scope of the researches will be found in Vol. 27 (p. 761) and Vol. 31 (p. 193) of this Journal.

The laboratory is open throughout the year and its work is carried out by a fully qualified research staff under the supervision of the Director. The names of the members of the staff will be found at the beginning of this number. Accommodation is available for British and foreign scientific workers who wish to carry out independent research in marine biology, physiology and other branches of science. Arrangements are made for courses for advanced students to be held at Easter, and marine animals and plants are supplied to educational institutions.

Work at sea is undertaken by two research vessels and by a motor boat, and these also collect the specimens required in the laboratory.

TERMS OF MEMBERSHIP

								£	S.	d.
Annual Members					pe	r ann	um	1	I	0
Life Members				Co	mpos	sition	fee	15	15	0
Founders								100	0	0
Governors		 1.0					- 1	500	0	0

Members of the Association have the following rights and privileges: they elect annually the Officer and Council; they receive the Journal of the Association free by post; they are admitted to view the laboratory at Plymouth, and may introduce friends with them; they have admitted to view the laboratory at Plymouth, and may introduce friends with them; they have the first claim to rent a place in the laboratory for research, with use of tanks, boats, etc.; they have the privilege of occupying a table for one week in each year free of charge; and they have access to the books in the library at Plymouth.

The Commissioners of Inland Revenue have approved the Association for the purposes of Section 16, Finance Act, 1958, and that the whole of the annual subscription paid by a member who qualifies for relief under that section will be allowable as a deduction from his emoluments assessable to income tax under Schedule E.

All correspondence should be addressed to the Director, The Laboratory, Citadel Hill,

CONTENTS

	PAGE										
J. E. Morton. The habits and feeding organs of Dentalium entalis	225										
T. E. THOMPSON. Feeding in nudibranch larvae	239										
Z. KABATA. Ecology of the genus Acanthochondria Oakley (Copepoda parasitica)											
S. Krishnaswamy. Respiration in Chondracanthus zei de la Roche (Copepoda)											
A. D. Boney and E. D. S. Corner. Application of toxic agents in the study of the ecological resistance of intertidal red algae	267										
C. M. YONGE. On the structure, biology and systematic position of Pharus legumen (L.)	277										
L. R. FISHER and E. H. GOLDIE. The food of Meganyctiphanes norvegica (M. Sars), with an assessment of the contributions of its components to the vitamin A reserves of the											
animal	291										
A. H. STRIDE. A linear pattern on the sea floor and its interpretation	313										
IRENE MANTON. Electron microscopical observations on a very small flagellate: the problem of Chromulina pusilla Butcher	319										
D. ATKINS. The early growth stages and adult structure of the lophophore of Macandrevia cranium (Müller) (Brachiopoda, Dallinidae)											
D. B. CARLISLE. Moulting hormones in Palaemon (=Leander) (Crustacea Decapoda).	335										
II. Differences between populations	351										
G. R. Forster. The ecology of Echinus esculentus L. Quantitative distribution and rate of	33-										
feeding	361										
PATRICIA M. RALPH. Notes on the species of the pteromedusan genus Tetraplatia Busch,											
1851	369										
D. B. CARLISLE. On the sexual biology of Pandalus borealis (Crustacea Decapoda). I. Histo-											
logy of incretory elements	381										
D. I. D. Howie. The spawning of Arenicola marina (L.). I. The breeding season	395										
A. D. WOODHEAD. Variations in the activity of the thyroid gland of the cod, Gadus cal-											
larias L., in relation to its migrations in the Barents Sea. I. Seasonal changes	407										
A. D. WOODHEAD. Variations in the activity of the thyroid gland of the cod, Gadus callarias L., in relation to its migrations in the Barents Sea. II. The 'dummy run' of the											
immature fish	417										
H. Barnes. Sea surface temperatures at Millport	423										
Abstracts of Memoirs	425										
Rook Deureus	427										

CAMBRIDGE UNIVERSITY PRESS
BENTLEY HOUSE, 200 EUSTON ROAD, LONDON, N.W. 1
AMERICAN BRANCH: 32 EAST 57th STREET, NEW YORK 22, N.Y.

Printed in Great Britain at the University Press, Cambridge (Brooke Crutchley, University Printer)