

# 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

	<i>£</i>	<i>s.</i>	<i>d.</i>
Annual Members . . . . . per annum	1	1	0
Life Members . . . . . Composition fee	15	15	0
Founders . . . . .	100	0	0
Governors . . . . .	500	0	0

Members of the Association have the following rights and privileges: they elect annually the Officers 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 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.

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

# CONTENTS

	PAGE
E. J. W. BARRINGTON. The distribution and significance of organically bound iodine in the ascidian <i>Ciona intestinalis</i> Linnaeus . . . . .	I
R. I. CURRIE and P. FOXTON. A new quantitative plankton net . . . . .	17
B. T. HEPPER. Notes on <i>Mytilus galloprovincialis</i> Lamarck in Great Britain . . . . .	33
J. GREEN. The growth of <i>Scrobicularia plana</i> (da Costa) in the Gwendraeth estuary . . . . .	41
EVE C. SOUTHWARD. The distribution of Polychaeta in offshore deposits in the Irish Sea . . . . .	49
J. LLEWÉLYN and J. E. GREEN. The occurrence at Plymouth of <i>Dictyocotyle coeliaca</i> Nybelin, 1941 (Trematoda: Monogenea) . . . . .	77
R. PHILLIPS DALES. The feeding mechanism and structure of the gut of <i>Owenia fusiformis</i> delle Chiaje . . . . .	81
R. PHILLIPS DALES. Preliminary observations on the role of the coelomic cells in food storage and transport in certain polychaetes . . . . .	19
E. A. GEORGE. A note on <i>Stichococcus bacillaris</i> Naeg. and some species of <i>Chlorella</i> as marine algae . . . . .	111
M. R. RANADE. Observations on the resistance of <i>Tigriopus fulvus</i> (Fischer) to changes in temperature and salinity . . . . .	115
D. C. ARNOLD. The response of the limpet, <i>Patella vulgata</i> L., to waters of different salinities . . . . .	121
A. J. E. ORIAN and H. G. CALLAN. Chromosome numbers of gammarids . . . . .	129
ELMER R. NOBLE. Seasonal variations in host-parasite relations between fish and their Protozoa . . . . .	143
H. W. HARVEY. Bio-assay of nitrogen available to two species of phytoplankton in an off-shore water . . . . .	157
J. P. RILEY and P. SINHASANI. The determination of ammonia and total ionic inorganic nitrogen in sea water . . . . .	161
B. C. ABBOTT and DOROTHY BALLANTINE. The toxin from <i>Gymnodinium veneficum</i> Ballantine . . . . .	169
ABSTRACTS OF MEMOIRS. Recording work done at the Plymouth Laboratory . . . . .	191

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)*