

Second Pacific Area Meeting Papers

Symposium on

WOOD FOR MARINE USE AND ITS PROTECTION FROM MARINE ORGANISMS



Published by the
AMERICAN SOCIETY FOR TESTING MATERIALS
1916 Race St., Philadelphia 3, Pa.

ASTM Special Technical Publication No. 200

SYMPOSIUM ON WOOD FOR MARINE USE AND ITS PROTECTION FROM MARINE ORGANISMS

Presented at the
SECOND PACIFIC AREA NATIONAL MEETING
Los Angeles, Calif., September 17, 1956
AMERICAN SOCIETY FOR TESTING MATERIALS



Reg. U.S. Pat. Off.

ASTM Special Technical Publication No. 200

Price \$2.00; to Members \$1.50

Published by the
AMERICAN SOCIETY FOR TESTING MATERIALS
1916 Race St., Philadelphia 3, Pa.

NOTE.—The Society is not responsible, as a body, for the statements
and opinions advanced in this publication.

COPYRIGHT, 1957
BY THE
AMERICAN SOCIETY FOR TESTING MATERIALS

Printed in Baltimore, Md.
June, 1957

CONTENTS

	PAGE
Introduction—L. J. Markwardt and Carroll M. Wakeman	1
The Distribution and Importance of Marine Wood Borers in the United States —Robert J. Menzies and Ruth Turner	3
Marine Exposure Tests of Wood Treated with Various Preservatives—A. P. Richards.	22
Discussion	27
Performance Tests of Heavy Metal Compounds as Marine Borer Inhibitors—T. Roe, Jr., H. Hochman, and E. R. Holden	29
Discussion	33
Relationship Between <i>Limnoria</i> Species and Service Life of Creosoted Piling—H. Hochman, James Muraoka, and Joan Casey	35
Discussion	49
General Discussion	51

FOREWORD

The objective running through the group of papers presented in this symposium is distinctive in that it represents one of the few occasions when the biologist and the chemist have attempted to get together with one purpose in mind. In the effort to protect wood structures exposed and submerged in natural waters, preservatives have been developed, tested and used, whose principal function is to combat the ravages of marine organisms.

The papers and discussion in this Symposium was presented at a technical session of the Second Pacific Area National Meeting held in Los Angeles, Calif. on September 17, 1956. A paper by C. H. Edmunson, Bernice P. Bishop Museum, Hawaii, discussing the migration of marine borers, as observed in the vicinity of the Hawaiian Islands, was included in the session for oral presentation only. The Symposium was sponsored by Committee D-7 on Wood under the chairmanship of L. J. Markwardt, U. S. Forest Products Laboratory. Mr. C. M. Wakeman, City of Los Angeles Harbor Dept., acted as technical chairman of the session.

THIS PUBLICATION is one of many issued by the American Society for Testing Materials in connection with its work of promoting knowledge of the properties of materials and developing standard specifications and tests for materials. Much of the data result from the voluntary contributions of many of the country's leading technical authorities from industry, scientific agencies, and government.

Over the years the Society has published many technical symposiums, reports, and special books. These may consist of a series of technical papers, reports by the ASTM technical committees, or compilations of data developed in special Society groups with many organizations cooperating. A list of ASTM publications and information on the work of the Society will be furnished on request.

