Symposium on Industrial Fuels

Held at a Meeting Sponsored Jointly by the
AMERICAN SOCIETY FOR TESTING MATERIALS
(Philadelphia District Committee)

and the
ENGINEERS CLUB OF PHILADELPHIA
Philadelphia, Pa., January 21, 1936

SEATTLE PUBLIC LIBRARY

PUBLISHED BY THE
AMERICAN SOCIETY FOR TESTING MATERIALS
Symposium on Industrial Fuels

Held at a Meeting Sponsored Jointly by the
AMERICAN SOCIETY FOR TESTING MATERIALS
(Philadelphia District Committee)
and the
ENGINEERS CLUB OF PHILADELPHIA
Philadelphia, Pa., January 21, 1936

PUBLISHED BY THE
AMERICAN SOCIETY FOR TESTING MATERIALS
FOREWORD

The papers appearing in this volume were presented as a Symposium on Industrial Fuels at a meeting held at the Engineers Club, Philadelphia, Pa., on January 21, 1936, sponsored jointly by the Engineers Club and the Philadelphia District Committee of the American Society for Testing Materials. The papers were prepared on the basis that they should have considerable comparative value and the authors followed a prescribed outline so that each paper covers the following: Historical background, magnitude of the industry, future availability of raw materials, possibility of new processes, the tests which are applied to the materials, the significance of these tests, the utilization of the materials, the general economic aspects of the product and utilization.

The committee immediately in charge of the technical program consisted of the officers of the A.T.S.M. Philadelphia District Committee: H. M. Hancock (Chairman), Superintendent, Inspection Dept., The Atlantic Refining Co.; Alexander Foster (Vice-Chairman), Vice-President, Warner Co.; and Harold Farmer (Secretary), Chief Chemist, The Philadelphia Electric Co.; assisted by the following representatives of the Engineers Club: H. S. Harris, Franklin Institute, and J. H. Billings, Professor of Mechanical Engineering, Drexel Institute.

The chairmen of the sessions of the symposium were:

Afternoon Session—J. H. Fernald, Dean, Towne Scientific School, University of Pennsylvania.

Evening Session—J. H. Billings, Professor of Mechanical Engineering, Drexel Institute.
NOTE.—The Society is not responsible, as a body, for the statements and opinions advanced in this publication.
CONTENTS

Coal and Coke: Occurrence, Testing and Utilization—A. C. Fieldner and W. A. Selvig ............................................. 1
Industrial Fuel Oils—H. V. Hume ........................................... 29
Manufactured Gas—P. T. Dashiell and F. H. Trembly, Jr. .................. 46
Liquefied Petroleum Gas—W. H. Bateman ................................... 61