



### Five Years of Research in Industry, 1926-1930: A Reading List of Selected Articles from the Technical Press (1930)

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# Five Years of Research in Industry 1926-1930

A READING LIST OF SELECTED ARTICLES  
FROM THE TECHNICAL PRESS

COMPILED BY

CLARENCE J. WEST

*Director, Research Information Service*

for the

Division of Engineering and Industrial Research  
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## FOREWORD

THE increasing emphasis which is being given to research by industries has led the Division of Engineering and Industrial Research to the conclusion that it would be timely to compile a bibliography of selected articles from the technical press on industrial research and to present a cross-section of important research activities covering a wide range of industries.

The primary purpose of this bibliography is to supply references to articles which provide answers to some of the following questions:

1. What are the conclusions of America's leaders of research?
2. What practical results are they achieving in their laboratories?
3. What is their opinion of cooperative effort in research as contrasted with individual effort?
4. How should the Research Department be organized?
5. What is the philosophy and method of operation of research laboratories in specific industries?

A secondary purpose is to indicate those fields of research in which little or no work is being done.

In a reply to a questionnaire sent by this Division a president of a chemical manufacturing firm writes:

"Research is the one tool by which, within the short space of 12 to 15 years, American chemists, engineers and physicists have established in America an organic chemical industry, the magnitude of which is so great and the quality of whose product is so good that it is the marvel of our European competitors. In this field, the country today is practically self-supporting, as compared with the situation before the war when it was practically dependent upon European supplies."

The Division hopes that these references will be found useful in bringing about an appreciation of the value and benefits of research by industrialists. Suggestions for making this bibliography more useful will be welcome.

MAURICE HOLLAND  
*Director,  
Division of Engineering  
and Industrial Research  
National Research Council.*

## INTRODUCTION

**I**N 1925, the Division of Engineering and Industrial Research of the National Research Council published "A Bibliography of Research," covering the years 1923-1925. The value of such a compilation to industrial executives, as evidenced by the demand for the bibliography, made it seem desirable to prepare a supplement covering the years 1926-1930.

In compiling this list of references, the material has been selected with three main points in view: (1) Papers dealing directly with the value of industrial and scientific research, especially as they relate to a given industry. (2) Papers dealing with the development of a given industry or a particular industrial process. (3) Papers discussing the future of and the problems facing industry today.

A careful survey of the papers falling under these three headings will give anyone interested in a given field of research a picture of the past, present and future of that field, and will enable him to evaluate the need for and the value of research, and the probable results to be achieved in the industry under consideration.

No attempt has been made to list papers giving the results of individual researches. Such papers have no place in a compilation of this kind. Should they be desired, reference to them may be found through the Engineering Index, Industrial Arts Index, Chemical Abstracts, and other indexes and abstract journals available in any large library. Reference to bibliographies on many special subjects covered in this compilation may be found in West and Berolzheimer's "Bibliography of Bibliographies on Chemistry and Chemical Technology," issued as Bulletins 50 and 71 of the National Research Council.

The compilation was based on cards furnished by the Engineering Societies Library to the Division of Engineering and Industrial Research; these cards were supplemented by many references obtained by a direct search of the technical literature.

The bibliography is presented with the hope that it may stimulate further interest in research as an industrial aid.

CLARENCE J. WEST.

Washington, D. C.  
July 1, 1930.

# Five Years of Research in Industry

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