

BIBLIOGRAPHY

SOME PAPERS UPON CHEMICAL LITERATURE, ITS VALUE, AND UTILIZATION

Bacon, R. F. and others

Report of the Subcommittee on Research in Industrial Laboratories, presented to the Committee of One Hundred on Scientific Research, New York, December 26, 1916.

Printed under title, Research in industrial laboratories

Science n. s. 45, 34-39, (1917).

Pages 36-37 consider the need and suggest special training in chemical literature, particularly for men who expect to do research, i. e., creative, work.

Baekeland, L. H.

Science and industry

Transactions of the American Electrochemical Society

17, 37-52, (1910).

Points out some of the achievements of chemical research in particular and emphasizes the need for distribution of information rather than secrecy.

Barrows, F. E.

Investigations of the chemical literature

Chemical and Metallurgical Engineering,

24, 423-28, 477-79, 517-21 (1921).

Thesis, Armour Institute of Technology, published separately by author, 165 Broadway, New York. This gives general information of great value to research workers, upon books, serial publications, material upon patents. The list of union (and other) lists of serials in print is a valuable feature.

Cushman, A. S.

Chemistry and American industry

Journal of the Franklin Institute 183, 577-74 (1917).

"Chemistry is the real basis of human industry"

Dannerth, Frederic

Legal and official chemistry

Chemical and Metallurgical Engineering 24, 397-99 (1921).

The author indicates particular cases and problems where the library chemist plays an important part.

Escher, Paul

Some observations on chemical bibliographies

Chemical Bulletin, 7, 43-45, 73-77 (1920).

"The list should be considered only as a first aid or emergency outfit, simply indicating various directions in which a search may be made".

Frieker, F.

The library of the chemical laboratories of the B. F. Goodrich company, Akron, Ohio.

Special Libraries 6, 82-83 (1915).

Brief description of the library as it was then.

Gallup, F. L.

Library service in the chemical department and chemical department laboratories of E. I. DuPont de Nemours & Company

Journal of Industrial and Engineering Chemistry,

11, 588-89 (1919); also, Special Libraries 10, 98-100 (1919).

Describes some of the work done by the five libraries, and methods used to place material before those who are to use it; librarian saves chemist's time.

Greenman, E. D.

The chemist and his library

Special Libraries 9, 194-95 (1918).

Brief statement of the material and methods.

Greenman, E. D.

The function of the industrial library

Journal of Industrial and Engineering Chemistry

11, 584 (1919); also, Special Libraries 10, 189-91 (1919).

Describes the work done in library of A. D. Little, Inc.

Greenman, E. D.

Technical literature in reconstruction.

Special Libraries 10, 12-13; notes p. 13-14; (1919).

Takes up possible provision of chemical reference works in English language to supplant those now used.

Hibbert, Harold

The art of searching chemical literature.

Chemical and Metallurgical Engineering 20, 578-81 (1919).

The writer deals with the topic from the point of view of the technical chemist, giving rather specific directions, varied according to type of problem.

Lee, G. W.

Library service in the industrial laboratory

Journal of Industrial and Engineering Chemistry, 5, 587-88 (1919).

Here the chemical literature is shown to be indispensable to the engineer, who deals with mechanical processes, but must have chemical results.

Little, A. D.

Industrial research in America

Journal of Industrial and Engineering Chemistry

5, 793-801 (1913).

Chemical research and the facilities therefor, with the many advantages gained for industry by chemists, form the basis of this Presidential Address before the American Chemical Society.

Little, A. D.

Chemistry and the special library—a foreword.

Special Libraries, 10, 85-86 (1919).

Introducing the number on chemical libraries.

McClelland, E. H.

The public library in the service of the chemist

Journal of Industrial and Engineering Chemistry

11, 578-82 (1919) ; also, *Special Libraries 10*, 86-92 (1919)

Here the service to be had from the technology section of the larger public library is described. While this is presented from the librarian's standpoint, it has interest for the chemist also.

Marion, G. E.

The library as an adjunct to industrial laboratories

Journal of Industrial and Engineering Chemistry 2, 83-87 (1910).

This older paper presents the work done in the library of A. D. Little, Inc., and may be compared with Greenman's paper of 1919 on the same collection.

Norton, T. H.

Foundations for our infant industry

Du Pont Magazine, 12, no. 5, p. 8-9 (1920).

Takes up the problems faced by the American color manufacturers in developing a dyestuffs industry.

Norton, T. H.

An American dyestuffs company tackles its problems

Dupont Magazine, 12, no. 6, p. 10-11 (1920).

The library is described as a leading feature of the "Intelligence Division". (Here is a technical man's view of the library; for a librarian's description of the same collection, see Gallup's article, listed above.)

Noyes, W. A.

Chemical publications

Journal of the American Chemical Society

42, 2099-2116 (1920).

This Presidential Address before the American Chemical Society gives historical information upon the early serial publications, both those of societies and independent ones. This is followed by a description of the publications of the Society.

Reissmann, Gertrude

The Kodak Park library

Special Libraries 10, 94-97 (1919).

Gives brief account of the chemical literature there.

Smith, J. F.

The functions of a research library in the dyestuff industry

Journal of Industrial and Engineering Chemistry

11, 584-85 (1919) ; also, *Special Libraries 10*, 100-101 (1919).

Such a library has to provide references and facilitate their use.

Tafel, L. A.

Library of the New Jersey Zinc company

Journal of Industrial and Engineering Chemistry

11, 586-87 (1919); also, *Special Libraries* 10, 97-98 (1919).

This Company has a central library with several branches and publishes a *Library Bulletin*, indexing regularly about 125 publications.

West, C. J.

A reading list on scientific and industrial research and the service of the chemist to industry. 45 pp. 1920.

Reprint and Circular series of the National Research Council Number 9.

Six pages of these references are specifically upon chemistry, but a large proportion of the others deal with chemistry's importance to industries, and to all research.

SAMPLE PROBLEMS

Lecture 4, Analysis

- I. Give call number, author, title, number of volumes, and date for these, published since 1900:
 - 1, work on general analysis in English
 - 2, work on technical analysis, first published in German
 - 3, work on technical analysis, first published in English
 - 4, newest work here, on technical analysis
 - 5, two works on select methods, one in German, one in English
 - 6, one work each for analysis of food, oils, steel, water.
- II. Give call number, title, date of vol. 1, and state if there are abstracts, and collective indexes, for the serials here on analysis.
- III. Give original reference, (author, title, name of serial, volume, pages and date) for one article, and locate by call number, volume or year, page and date, two abstracts of the original paper, for four topics:
1875-95, Richardson on whisky
1880-90, shark oil
1880-90, corn oil
1890-1902, eachou
1890-1902, composition of rice
1903-12, raspberry juice

Lecture 7, Use of reference serials

Answer any **FOUR**

1. Where did Boullay publish a paper on ethers, before 1820?
Is there an abstract here?
2. Locate the original paper and two abstracts of it upon rivulin, between 1820 and 1850.
3. Locate original paper and two abstracts of it upon indium sulphide, 1850 to 1870.
4. Who wrote a paper on oxidation of petroleum, 1870-80. Give original reference and two abstracts.
5. What articles appeared on composition of soap powder, 1903- 12.