

Publications on Fats and Oils

KNOWLEDGE and the freedom to use it for one's own betterment as well as society's have been a basis of American progress and life. Knowledge is a dynamic element of our culture; many contribute to it, and still more use it. All scientists are indebted to those scientists before them who discovered new knowledge and made it available for the use of everyone. This literature is the basis or stepping-stone to new knowledge and to many new industrial processes. For example, publications by

Sabatier on the catalytic use of nickel for hydrogenation led British scientists in the fat industry to study a commercial process for converting liquid fats to solid fats by hydrogenation. Other examples might be cited, but the oil chemist knows, without any reminders, the importance of published information on fats and oils and related subjects.

Basic information and publications on fats and oils have been extended or increased more during the past 25 years than during the 100 years (1823-1923) following the publication of Chevreul's treatise on the glyceryl ester nature of fats. With this increase it becomes more important to use the available publications most effectively. This is why I have been asked to comment on publications covering fats and oils.

Important publications in the field of fats and oils may be classified as follows: abstracts, books and chemical encyclopedias, periodicals, patents, trade journals, theses and dissertations, house organs, and government documents and bulletins. Space does not permit the listing of all publications on fats and oils. I have limited my attention primarily to recent publications. Naturally, omissions from this listing do occur, and they reflect my own limitations and not necessarily those of the publications.



J. C. Cowan

CHEMICAL ABSTRACTS gives the widest coverage of any abstract journal in the world. These abstracts contain 31 divisions, including "Fats, Fatty Oils, Waxes, and Detergents," and "Paints, Varnishes, and Lacquers." Despite

this breadth of coverage there is need for the assembling and disseminating of abstracts for oil chemists. Our own J. Am. Oil Chem. Soc. has met this need in its abstracts section and in its excellent "Annual Review of the Literature of Fats, Oils, and Soaps." In addition to other abstracting services, both foreign and domestic, there is an excellent and unique service offered by "Fats, Oils, and Detergents" (Interscience Publishers Inc.).

Basic articles on the chemistry of fats will be found in the scientific journals of the world, such as J. Chem. Soc., J. Am. Chem. Soc., Ind. Eng. Chem., J. Soc. Chem. Ind., J. Org. Chem., J. Biol. Chem., Ber., Ann., Ann. chim., Acta Chem. Scand., Helv. Chim. Acta, Compt. rend., Nature, Science, Rec. trav. chim., Can. J. Research, Biochem. J., Ann. Repts. on Prog. Chem., Chem. Revs., and Ann. Rev. Biochem. Periodicals devoted primarily to fats and oils or related subjects are our own J. Am. Oil Chem. Soc., J. Oil and Colour Chemists' Asso., Fette u. Seifen, Offic. Dig. Federation Paint and Varnish Production Clubs, and Oleagineux (see Chemical Abstracts list of periodicals, 1951). A new American journal on agricultural and food chemistry is expected to appear next year under the auspices of the American Chemical Society.

In the past several years new books on fats and oils have been of invaluable assistance to people seeking information on fats and oils. Prominent on this list are the books of the Interscience Publishers Inc., who have brought out monographs on "Industrial Oil and Fat Products," "Melting and Solidification of Fats," and "Cottonseed and Cottonseed Products" by A. E. Bailey; on "Fatty Acids" and "Soybeans and Soybean Products" by K. S. Markley; and on "Lipids" by H. J. Deuel Jr. Others which are excellent include A. W. Ralston's "Fatty Acids," T. P. Hilditch's "Chemical Constitution of Fats," J. J. Mattiello's "Protective and Decorative Coatings," H. Wittcoff's "Phosphatides," and W. R. Bloor's "Biochemistry of Fatty Acids." Although the "Encyclopedia of Chemical Technology" is not complete, it already is an excellent source of information on fats and fatty acids because parts devoted to these subjects have been written by experts.

U. S. Patents are one source of information frequently neglected by some. Patent classes containing pertinent information on fats, oils, and their derivatives are as follows: Class 8, Subclasses 94.22 and 94.23; Class 99, Subclasses 118-123, 163, 164, and 244; Class 106, Subclasses 219-229, 243-272; Class 167, Subclass 66; Class 195, Subclass 3; Class 204, Subclasses 161 and 167; Class 260, Subclasses 18-23.7, 28-28.5, 398-428. Other classes will naturally contain some pertinent information on fats and oils.

AN incomplete list of "House Organs" may be found in "Searching the Chemical Literature," published by the American Chemical Society. Excellent articles on developments of individual companies as well as background and current information on special topics are often found in some of the house organs published in the United States and abroad. The same publication contains a short article on "Searching United States Government Documents." Three sources of statistical information on fats which should be mentioned are Bureau of Census Reports, Fats and Oils Situation, and Agricultural Statistics. "Doctor

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Dissertations Accepted by American Universities" is an excellent guide to these publications; Ulrich's "Periodicals Directory" is a source of information on trade journals as well as scientific periodicals. In Chemical Abstracts a list of all chemical journals abstracted is given for anyone wishing to extend my listing.

The Journal of the American Oil Chemists' Society is now playing a vital role for oil chemists by publishing abstracts, original papers, and reviews. It must maintain its high standards, continue to attract the best of papers, and increase its contributions on industrial and basic research. All look each month to the Journal for stimulation. All can help to improve and maintain its high international reputation. Suggestions are always welcome at the desks of the editor, A. R. Baldwin, and associate editor, Mrs. Lucy R. Hawkins.

J. C. COWAN
Northern Regional Research
Laboratory
Peoria, Illinois

Gold Medal to Warner

JOHN C. WARNER, president of Carnegie Institute of Technology, Pittsburg, Pa., has been awarded the Gold Medal of the American Institute of Chemists, for 1953, Gustav Egloff of Universal Oil Products Company, Chicago, Ill., chairman of the Jury of Medal Award, announced at the meeting of the Institute of Chemists' council on November 12 in New York. The medal will be presented to Dr. Warner at the annual meeting of the Chemists' Institute to be held in Philadelphia, Pa., May 12-13, 1953.

Dr. Warner receives the medal for "noteworthy and outstanding service to the science of chemistry and the profession of chemist, as a scientist of note, an educator for many years, president of an educational institute of high standing, and one who has long had the professional interests of chemists and chemical engineers at heart."

With The Exhibitors

1. NIAGARA FILTER—F. M. Yeiser demonstrates equipment to two visitors from the Camp Manufacturing Company, Franklin, W. Va.: Guy D. Tompkins (center) and W. H. Jennings.
2. FISHER SCIENTIFIC—E. R. Bower has as an onlooker, D. E. Whyte of S. C. Johnson and Son, Racine, Wis.
3. MOISTURE REGISTER—L. P. Stewart Jr., of the Drackett Company, Cincinnati, lends a hand as A. L. Merrifield shows apparatus to him and J. R. Chipault of Hormel Institute, Austin, Minn.
4. BAUSCH AND LOMB—With James F. Starks are George R. Miguno, Hormel Institute; W. J. Beach, Sugar Beet Products Company, Saginaw, Mich.; and P. A. Williams, South Texas Cotton Oil Company, Houston.
5. ATLAS (DARCO)—The man with the packaged product is T. M. Rinehart, and with him are H. T. Spanuth, Wilson and Company, Chicago (left); A. R. Mishkin, Nestle Company, Marysville, O.; and R. T. Milner, Northern Regional Research Laboratory, Peoria, Ill.
6. INDUSTRIAL CHEMICALS—J. F. Zieserl plays host to Paul S. Hess of Congoleum-Nairn, Kearny, N. J., and R. A. Janke of J. P. Gibbons of the Mellon Institute, Pittsburgh, both of whom are on multiple fellowships given by the Corn Products Company.
7. LAPINE—Dan L. Henry, of Law and Company, Atlanta, examines apparatus with C. A. Rossiter.
8. BAIRD ASSOCIATES—Exchanging views are T. C. Smith, Central Soya Company, Decatur, Ind.; J. M. Hoerner, Atlantic Refining Company, Philadelphia; and L. F. Hoyt, National Aniline Division, Buffalo.
9. GLYCO—Leonard S. Levitt is shown with A. E. Wells, S. F. Lawrason and Company, London, Ontario.