

Safety Speakers

Announce Preliminary Program for Chicago Meeting Next Month

CONCURRENT SESSIONS and three symposia will combine to make the technical program of the 32nd annual fall meeting of the American Oil Chemists' Society an interesting and memorable affair. It will be held in Chicago October 20-22 at the Hotel Sherman, with C. W. Hoerr, Armour and Company, and A. A. Rodeghier, Durkee Famous Foods, as co-chairmen and A. V. Graei, Wurster and Sanger Inc., as program chairman.

Monday is the day for the papers on food and nutrition, with W. C. Pritchett, National Dairy Products Corporation, as chairman. On Tuesday afternoon A. E. MacGee, Skelly Oil Company, will conduct the technical safety symposium. The Wednesday symposium on soap and synthetic detergents will be directed by N. W. Ziels, Lever Brothers Company, and R. H. Rogers Jr., Swift and Company.

Some of the nutrition papers will be as follows:

Effect of Autoxidation Prior to Deodorization on Oxidative and Flavor Stability of Soybean Oil, by C. D. Evans, E. N. Frankel, Patricia M. Cooney, and Helen A. Moser, Northern Regional Research Laboratory, Peoria, Ill.

Effect of Oxidized Soybean Oil in the Diet upon Vitamin A Storage in Tissues of the Rat, by Minocher C. Reporter and Robert S. Harris, Massachusetts Institute of Technology, Cambridge, Mass.

Nutritional Evaluation of Some Heated Oils, by Roslyn B. Alfin-Slater, University of Southern California, Los Angeles

Fractionation and Analyses of Hog Liver Fatty Acids with the Isolation of Arachidonic Acid, by O. S. Privett, R. P. Weber, F. J. Pusch, and Olavo Romanus, Hormel Institute, Austin, Minn.

The Effect of Diet on Serum Cholesterol Levels in the Normal Rat, by C. H. Lushbough, S. W. Moline, and B. S. Schweigert, American Meat Institute Foundation, Chicago, Ill.



Roslyn Alfin-Slater

A partial list of the papers to be given in the detergent symposium follows:

Surface-Active Agents for Aerosols, by Morris J. Root, G. Barr and Company, Chicago, Ill.

Nonsurfactant Additives in Syndets, by M. E. Tuvell, Monsanto Chemical Company, St. Louis, Mo.

Soil-Suspending of Soaps and Detergents, by Walter Marple and A. R. Martin, Whirlpool Corporation, St. Joseph, Mich.

Synthetic Detergents as Dairy and Food Plant Cleaners, K. C. Tucker, Oakite Products Inc., New York, N. Y.

Tallow Alcohol Sulfates, by J. K. Weil, A. J. Stirton, R. G. Bistline Jr., and E. W. Maurer, Eastern Regional Research Laboratory, Philadelphia, Pa.



P. R. Sheffer



E. B. Free



G. J. Grabowski



S. J. Douglas

Optical Bleaches in Soaps and Detergents, by F. G. Villaume, American Cyanamid Company, New York, N. Y.

Use of Synthetic Detergents in Toilet Bars, by J. W. McCutcheon, consultant, New York, N. Y.

Analysis of Surfactant Mixtures, by J. D. Knight, California Research Corporation, Richmond, Calif.

General papers, to be presented during the three days of the meeting, will include the following:

A New Commercial Instrument for the Rapid Measurement of Oil in Cottonseed, by Charles E. Holaday, U. S. Department of Agriculture, Washington, D. C.

Antioxidant Properties of Egg-Yolk Lipoprotein, by A. S. Henick, H. J. Togashi, and J. H. Mitchell Jr., Quartermaster Food and Container Institute for the Armed Forces, Chicago, Ill.

Serial Oxidation of Cottonseed Oil with Navy Bean Lipoxidase, by J. W. Smull, A. S. Henick, and R. B. Koch, Quartermaster Food and Container Institute for the Armed Forces, Chicago, Ill.

Reactions of Dienophiles with Vegetable Oils. I. Reaction of Maleic Esters Catalyzed by Sulfur Dioxide, by W. R. Miller, E. W. Bell, J. C. Cowan, and H. M. Teeter, Northern Regional Research Laboratory, Peoria, Ill.

Reactions of Unsaturated Fatty Alcohols. VII. Polymerization of Vinyl Ethers Catalyzed by Stannic Chloride, by E. J. Dufek, R. A. Awl, L. E. Gast, J. C. Cowan, and H. M. Teeter, Northern Regional Research Laboratory, Peoria, Ill.

Formation of Cyclic Acids. I. Alkali Isomerization of Linolenic Acid, by C. R. Scholfield and J. C. Cowan, Northern Regional Research Laboratory, Peoria, Ill.

Apparatus for Determining Baking Conditions for Protective Coatings, by A. W. Schwab, H. M. Teeter, and J. C. Cowan, Northern Regional Research Laboratory, Peoria, Ill.

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Detergent Speakers



M. E. Tuvell



J. D. Knight



K. C. Tucker



M. J. Root



A. R. Martin



F. G. Villaume

Effect of Autoxidation Prior to Deodorization on Oxidative and Flavor Stability of Soybean Oil, by C. D. Evans, E. N. Frankel, Patricia M. Cooney, and Helen A. Moser, Northern Regional Research Laboratory, Peoria, Ill.

Labelling Fatty Acids by Exposure to Tritium Gas. I. Saturated Methyl Esters, by R. F. Nystrom, L. H. Mason, E. P. Jones, and H. J. Dutton, Northern Regional Research Laboratory, Peoria, Ill.



J. W. McCutcheon



A. J. Stirton

Determination of *alpha* and *beta*-Monoglycerides by Gas Liquid Partition Chromatography, by Neil H. Tattrie, National Research Council, Ottawa, Canada.

Dilatometric Behavior of 2-Oleopalmitostearin and 2-Oleodistearin, by Werner Landmann, R. O. Feuge, and N. V. Lovegren, Southern Regional Research Laboratory, New Orleans, La.

Relation Between Color, Bleaching Earth, and Diethylene Triamine in Processing Off-Colored Hydraulic Cottonseed Oil, by Vernon L. Frampton and James C. Kuck, Southern Regional Research Laboratory, New Orleans, La.

The Preparation and Some Properties of Chlorinated Tung Oil, by R. S. McKinney, F. C. Magne, Dorothy C. Heinzelman, and L. A. Goldblatt, Southern Regional Research Laboratory, New Orleans, La.

Permeability of Some Fat Products to Moisture, by Werner Landmann, N. V. Lovegren, and R. O. Feuge, Southern Regional Research Laboratory, New Orleans, La.

Continuous Production of Mayonnaise, by Fred H. Smith, Torresdale Company, Philadelphia, Pa.

Improved Process Operations Through Continuous Refractometry, by D. J. Fraade, Consolidated Electrodynamics Corporation, Pasadena, Calif.

Fractionation and Analyses of Hog Liver Fatty Acids with the Isolation of Arachidonic Acid, by O. S. Privett, R. P. Weber, F. J. Pusch, and Olavo Romanus, Hormel Institute, Austin, Minn.

Reactions of Unsaturated Fatty Alcohols. VIII. Preparation and Properties of Some Copolymers of Nonconjugated Linseed Vinyl Ether and Lower Alkyl Vinyl Ethers, by L. E. Gast, Wilma J. Schneider, J. L. O'Donnell, and H. M. Teeter, Northern Regional Research Laboratory, Peoria, Ill.

Composition of Zekova Seed Oil, by C. Y. Hopkins and Mary J. Chisholm, National Research Council, Ottawa, Ontario

Distribution of Water in the United States as a Function of Hardness, by Lester O. Leenerts, Purex Corporation Ltd., South Gate, Calif.

Fatty Acid Analysis of Vegetable Oils by Gas Liquid Phase Chromatography, by N. L. Murty and B. M. Craig, National Research Council, Saskatoon, Sask.

Oxidation of Olefins with Potassium Permanganate in Oil/Water Emulsion, by J. E. Coleman and Daniel Swern, Eastern Regional Research Laboratory, Philadelphia, Pa.

Esters of Hydroxystearic Acids as Primary Low-Temperature Plasticizers for a Vinyl Chloride-Vinyl Acetate Copolymer, by H. B. Knight, Lee P. Witnauer, W. E. Palm, R. E. Koos, and Daniel Swern, Eastern Regional Research Laboratory, Philadelphia, Pa.



F. H. Smith

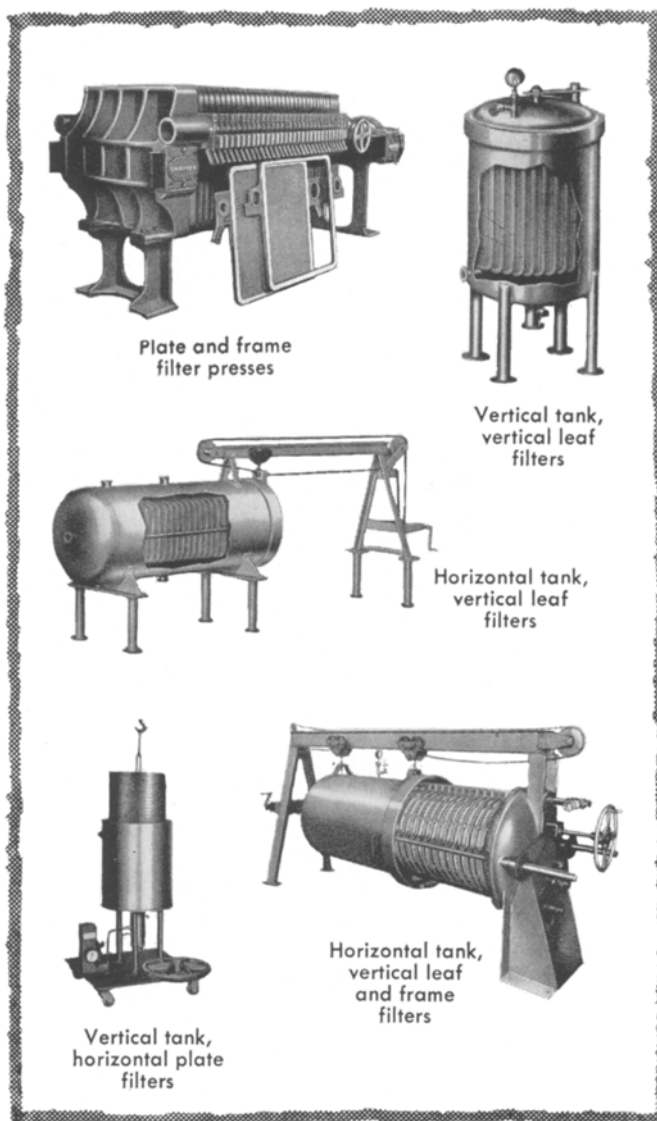
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Nutrition Speakers



O. S. Privett



C. H. Lushbough

Epoxy Resins from Fats. I. Epoxidized Esters Cured with Phthalic Anhydride, by Leonard L. Gelb, Senior Fellow, National Renderers Association, and W. C. Ault, W. E. Palm, Lee P. Witnauer, and W. S. Port, Eastern Regional Research Laboratory, Philadelphia, Pa.

Tallow Alcohol Sulfates. Properties in Relation to Chemical Modification, by J. D. Weil, A. J. Stirton, R. G. Bistline Jr., and E. W. Maurer, Eastern Regional Research Laboratory, Philadelphia, Pa.



Daniel Swern



Eric Jungermann



A. S. Henick



R. O. Feuge

The Fractionation of Lanolin with Urea, by Abner Eisner, W. R. Noble, and J. T. Scanlan, Eastern Regional Research Laboratory, Philadelphia, Pa.

The list of exhibitors contains additions to the information published in the August issue of the Journal, according to C. W. Hoerr, Armour and Company, chairman:

- Blaw-Knox Company, Pittsburgh, Pa.
- Central Scientific Company, Chicago, Ill.
- De Laval Separator Company, Poughkeepsie, N. Y.
- Duriron Company Inc., Dayton, O.
- Encyclopedia Britannica, Chicago, Ill.
- Industrial Chemical Sales Division, West Virginia Pulp and Paper Company, New York
- Mettler Instrument Corporation, Hightstown, N. J.
- Perkin-Elmer Corporation, Norwalk, Conn.
- E. H. Sargent and Company, Chicago, Ill.

The fall meeting will open with a complimentary mixer on Sunday from 5 to 7 p.m. Monday there will be a cocktail party sponsored by Distillation Products Industries, followed by a free evening. As usual, the dinner dance will be held Tuesday. No plant trips are being arranged. The ladies will have a full program of sight-seeing and entertainment.

A special business session, committee meetings, and a Sunday meeting of the Governing Board, with J. C. Konen presiding, will be features of the convention.

Room reservations should be made direct with the Hotel Sherman, mentioning the name of the Society.

New Members . . .

Active

- Vernon Broadus Bodenheimer, Pulp Mill superintendent, Robert Gair Division, Continental Can Company, Inc., Greenville, S. C.
- Mauricio Castaneda, general superintendent, Fabrica de M.Y.J. Atlantida S. A., Honduras, C. A.
- Guy Clement, chief of recherches, Institut des Recherches sur le Cancer, Seine, France
- Lowell O. Cummings, chemist, Pacific Vegetable Oil Corporation, Richmond, Calif.
- John F. Davis, technical director, Arizona Chemical Company Inc., New York, N. Y.
- Philip R. Dickinson, sales representative, C. P. Hall Company of Illinois, Memphis, Tenn.
- Paul Alfonso Guerrero, production superintendent, Fabrica de M.Y.J. Atlantida S. A., Honduras, C. A.
- Anthony L. Ippolito, chemist, Texas Company, Beacon, N. Y.
- Edward M. Lundgren, manager, Market Research, Product Development and Bulk Sales, Eastern States Petroleum and Chemical Corporation, Houston, Tex.
- Einar Henry Palmason, owner-manager, Industrial Equipment and Supply Company, Fort Lauderdale, Fla.
- Andrew Henry Principe, chemist, Chicago Police Department Crime Laboratory, Chicago, Ill.
- Walter B. Roberson, director, Chemical and Process Research, Hudson Pulp and Paper Corporation, Palatka, Fla.
- David Jay Sanstrom, chemist, Best Foods Inc., Chicago, Ill.
- Hugh M. Sinclair, fellow, Magdalen College, Oxford, England

Individual Associate

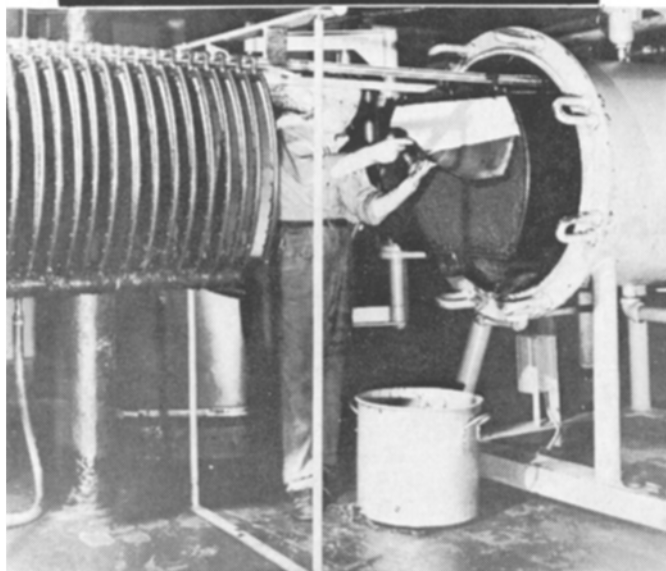
- Wilhelm Depmer, own business, consulting engineer, Hamburg, Western Germany
- Lyman P. Gray, application engineer, Niagara Filters Division, American Machine and Metals Inc., East Moline, Ill.
- Jack D. Langlois, manager, Food and Beverage Department, Chemicals Division, Chas. Pfizer and Company Inc., Brooklyn, N. Y.
- Anthony David Milsom, chemical engineer, International Centrifugal Sales Ltd., Nassau, Bahamas

Corporation Associate

- J. M. Kniseley Engineering Company, John M. Kniseley, owner, Seattle, Wash.

LARD FILTERED WITH HERCULES "RAPIDOR" FILTER

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An important manufacturer of lard formerly used a plate press and cloth system for filtering lard. Then it installed Hercules "Rapidor" Pressure Leaf Filters, employing Hercules Chrysolite (a fiberized asbestos pulp mixture) which forms layers on the fine mesh screening of the filter leaves.

Since installing Hercules Filters, the refiner finds that there is no contamination from one batch to the next due to rancidity of reused cloths. Layers of Chrysolite are discarded after each filter cycle.

Because the entire filter area is enclosed, there is no contact of the air with lard and the operation is more sanitary.

With other types of filters, refiners anxious to maintain quality, clean their filters daily because of fear of oxidation. With the enclosed Hercules Filter, cleaning is required only once in three days.

Again, the #20 Pressure Leaf Filter, with a capacity of 10 tons of lard an hour, saves 8c a thousand pounds, as compared with the former method. Since this plant has a daily production of 200,000 pounds, savings total \$16.00 a day—\$4800 a year.

Further savings are effected in cleaning—one man cleans the filter in 30 minutes as compared with the two hours required by two men formerly.

For complete details and descriptions of this equipment, write Hercules Filter Corporation.

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216 ETHYL AVENUE HAWTHORNE, NEW JERSEY

New Books . . .

RECENT ADVANCES IN GELATIN AND GLUE RESEARCH, edited by G. Stainsby (Pergamon Press, New York, London, Los Angeles, Paris, 277 pp., 1958, \$12). In 1949 The British Gelatine and Glue Research Association was organized to carry out long-term connected researches of a fundamental character and to act as a link for academic, medical, and industrial research in progress elsewhere. The Association was later expanded to include the Commonwealth countries.

This book is a report of the proceedings of a conference sponsored by the Association at the University of Cambridge in July 1957; the purpose of the conference was to coordinate recent advances in the field and to stimulate fresh work. It comprises about 45 Lectures and 21 Conference Notes.

The Lectures are grouped under several headings: 1. Structure, Properties, and Origin of Animal Connective Tissue; 2. Soluble Collagens and Molecular Weight, Shape, and Structure for Gelatins; 3. Synthetic Polypeptides; 4. Conversion of Collagen to Gelatin, and Chemical Composition; 5. Chemical and Physical Properties of Gelatin and Glue; 6. Relation of Properties (of Gelatin) to Uses.

The Conference Notes are selections from the discussions which dealt with new work or were considered essential in order to resolve misunderstanding.

About one-half of the Lectures were contributed by British and Commonwealth chemists; their dominance resulted both from long and continuing research on this subject and the location of the conference. The meeting however had world-wide participation. For example, the Conference Lecture was given by Linus Pauling on "The Configuration of Polypeptide Chains in Proteins." Among many other foreign participants were J. W. Williams, United States; K. H. Gustavson, Sweden; J. Pouradier, France; V. N. Orekhovich, U.S.S.R.; and A. Kuntzel, Germany.

Conference reports of this nature are often disappointing, but this book is informative and stimulating. It shows the results of careful planning by those who organized the meeting.

While it is impractical to list 45 Lectures, some idea of the wide range of topics can be gained from the following titles: The Structure of Collagen; The Biogenesis of Collagen; Sedimentation Analysis of Some Plasma Extender Gelatins; Influence of the Mode of Preparation on the Physical Properties of Gelatin; The N-and-C Terminal Amino Acids of Gelatin; The Guanidino Side Chains and the Protective Colloid Action of Gelatin.

A good bibliography is attached to most of the Lectures. The value of the volume would have been enhanced considerably by a more complete index. For example, both photographic and oxypolygelatin are discussed in the book, but no reference to either was found in the index by the reviewer.

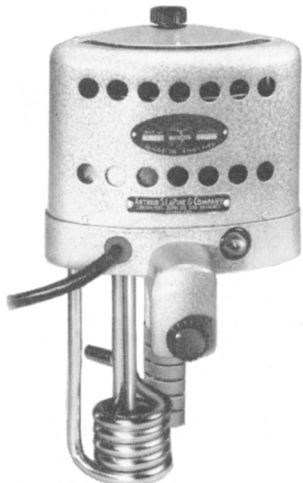
This book should be invaluable to the scientist who is concerned with collagen and related proteins; this includes those studying the collagen diseases and the practical glue and gelatin chemist as well as those whose interest is academic.

R. S. BURNETT
Wilson and Company Inc.
Chicago, Ill.

THE POWDER METHOD IN X-RAY CRYSTALLOGRAPHY, by Leonid V. Azaroff and Martin J. Buerger (McGraw-Hill Book Company Inc., New York, 342 pp., XV, 1958, \$8.75). This is an excellently printed, well illustrated cloth-bound volume, 6¼ x 9¼ in. There are 16 chapters of text, plus a 60-page appendix of tabulations and an adequate 14-page index. In the authors' words, "This book was written as a guide to [the] . . . chemist, physicist, metallurgist, or even someone without much scientific or technical background [to whose lot it falls] to take powder photographs and interpret them." The authors are well qualified.

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Azaroff, a young investigator, has already obtained stature in the field of diffraction with a strong accent on experimental practice. Buerger is a long-time authority in theory and method, a well-known teacher and author.

This book is one of the best and most readable in its coverage of the powder method of x-ray diffraction and should be readily available to all investigators employing the method with any frequency. This includes many in the field of oil chemistry. Many others would find the method more useful than they imagine, were they acquainted with it. The treatment in this text emphasizes structural aspects especially, is quite thorough and detailed, and most helpfully presents practical features of x-ray diffraction which are commonly learned, only hit or miss, over a number of years of experimental work. (For a more detailed treatment of analytical procedures and use of especially the diffractometer method, "X-Ray Diffraction Procedures," a longer book by Klug and Alexander, is particularly helpful.)

It is perhaps unavoidable that a book of this kind would seem uneven to all except the authors, but this volume, although excellent on the whole, appears unduly so. The voluminous detail of Chapter 12, in which the Delaunay reduction (used in certain structure studies) is dutifully recorded, seems unnecessary. On the other hand, Chapter 16 on Appearance of Powder Photographs, revealing the meaning of numerous irregularities, is as supremely welcome as the type of highly illuminating presentation is rare. There is some carelessness of presentation in places which will trouble the novice. Thus, in connection with the figure on p. 5 where the text mentions several kinds of circles, there are but two kinds. Again for the figure on p. 93, in the important presentation of the reciprocal lattice, a set of planes is said to be perpendicular to the b axis when actually it is parallel to or includes that axis. Typographical and grammatical lapses although rare are not entirely absent. But these are minor blemishes on one of the best performances in many a day of an important task undertaken to clarify for the interested nonspecialist the practice of the powder method of x-ray diffraction.

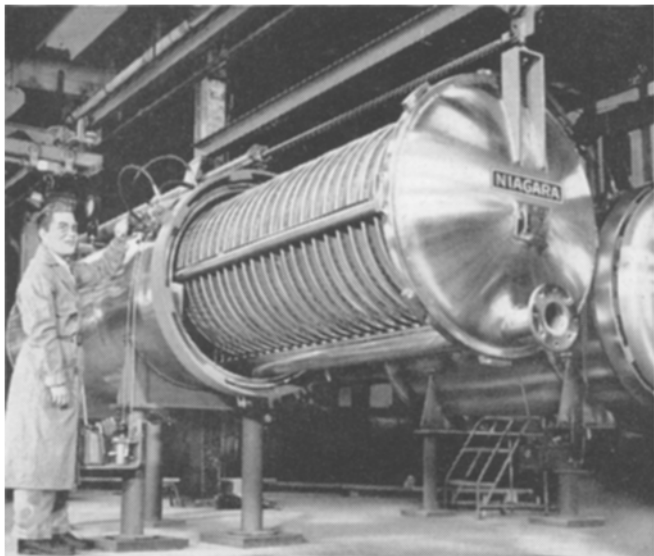
E. S. LUTTON
Miami Valley Laboratories
The Procter and Gamble Company
Cincinnati, O.

ENGINEERING MATERIALS HANDBOOK, edited by Charles L. Mantell (McGraw-Hill Book Company Inc., New York, 1952 pp., 1958, \$21.50). This comprehensive handbook is a valuable compendium of data on the physical properties, technology, and application of practically the full range of engineering materials. Its 43 sections are well presented by one or more of a staff of about 150 experts in specific fields. Well over half of the book is composed of concise tables, graphs, and illustrations.

A listing of the many eminent contributors and their professional connections is followed by a general table of contents giving the titles of the main sections and a long list of standardized abbreviations used throughout the book. Each section is treated as a separate entity, complete with authors, detailed table of contents, and numerous references.

The first 22 sections deal with metallic materials of all types, including ferrous metals, the related stainless steels, common base metals, precious metals, also those metals now considered uncommon, a number of which are rapidly reaching commercial importance and production. A general description of the properties of metals, with definitions, is followed by sections on fabricating metals and detailed discussions of the various classes of metals.

The next six sections cover the nonmetallic inorganic engineering materials including stone, minerals, concretes, brick, refractories, structural clay products, stoneware, vitreous coatings, porcelain, glass, silica, carbon, graphite, and related materials. Following these are seven sections on organic materials such as wood, paper, textiles, felts, hydrocarbon base materials, rubbers, plastics organic coatings, and insulating materials. Each class is discussed in detail including processing characteristics and standards.



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Valuable sections relating to protection from deterioration and to permanence of installation are also included. Special sections tabulate materials of construction for the process industries, and information on piping, valves, wire, chain, steel sheets, gaskets, packings, seals, cements, and adhesives. The final section presents an extensive bibliography on materials, standards, specifications, and codes for those who must delve more deeply into a particular subject than is possible in a handbook covering so wide a range of subject matter. A comprehensive subject index covering all sections is included at the end.

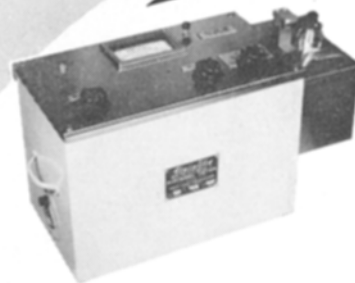
This book was an outgrowth of the graduate course in "Technology of Engineering Materials" conducted by the editor at the Newark College of Engineering, but it is far broader in scope than the average textbook and should prove highly valuable to practicing engineers, designers, architects, and purchasing agents as an authoritative reference. It can be recommended both to those with responsibility of design and construction for new processing or other facilities and to those who must understand the properties and limitations of the materials and construction in their existing facilities in order to operate most efficiently.

E. L. GRIFFIN
Northern Utilization Research
and Development Division
Peoria, Ill.

Konen to Speak in Chicago

THE NORTH CENTRAL SECTION of the American Oil Chemists' Society has been fortunate in obtaining the national president, J. C. Konen, as its speaker for the October 1 meeting at the Builders' Club, Chicago. Mr. Konen, vice president and research director of the Archer-Daniels-Midland Company in Minneapolis, Minn., will speak on a subject centered around the use of chemicals from fats. It is anticipated that such a popular and well known speaker will contribute much to the start of another active year.

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