

Announces Committees for 1955-56

President W. A. Peterson announces more committee appointments for the 1955-56 season, as follows:

Bleaching Methods: T. C. Smith, chairman, Central Soya Company Inc., Decatur, Ind.

P. W. Bateman, A. E. Staley Manufacturing Company, Decatur, Ill.

G. F. Clark Jr., Bennett-Clark Company, Nacogdoches, Tex.

R. T. Clause, Procter and Gamble Company, Cincinnati, O.

W. T. Coleman, Western Cottonoil Company, Division of Anderson, Clayton and Company, Abilene, Tex.

E. B. Freyer, Spencer Kellogg and Sons Inc., 389 Ganson street, Buffalo, N. Y.

D. L. Henry, Law and Company, Atlanta, Ga.

K. E. Holt, Archer-Daniels-Midland Company, Minneapolis, Minn.

Duncan Macmillan, Northern Utilization Research Branch, Peoria, Ill.

J. R. Mays Jr., Barrow-Agee Laboratories, Memphis, Tenn.

A. D. Rich, Filtrol Corporation, Los Angeles, Calif.

H. E. Seestrom, Mrs. Tucker's Products, Division of Anderson, Clayton and Company, Sherman, Tex.

G. R. Thompson, Southern Cotton Oil Company, Savannah, Ga.

E. H. Tenent, Woodson-Tenent Laboratories, Memphis, Tenn.

Cellulose Yield: L. N. Rogers, chairman, Buckeye Cotton Oil Company, Memphis, Tenn.

E. C. Ainslie, Buckeye Cotton Oil Company, Atlanta, Ga.

P. D. Cretien, Texas Testing Laboratories Inc., Dallas, Tex.

W. S. Hude, Southern Chemical Cotton Company, Chattanooga, Tenn.

R. E. Knipple, Barrow-Agee Laboratories Inc., Memphis, Tenn.

E. H. Tenent, Woodson-Tenent Laboratories, Memphis, Tenn.

Education: K. F. Mattil, chairman, Swift and Company, Chicago, Ill.

A. R. Baldwin, Cargill Inc., Minneapolis, Minn.

G. A. Crapple, Wilson and Company, Chicago, Ill.

J. P. Harris, John P. Harris Inc., Chicago, Ill.

R. T. Milner, University of Illinois, Urbana

A. A. Rodeghier, Durkee Famous Foods, Chicago, Ill.

Daniel Swern, Eastern Regional Research Laboratory, Philadelphia, Pa.

C. K. Wiesman, Armour and Company, Chicago, Ill.

Fat Analysis: V. C. Mehlenbacher, chairman, Swift and Company, Chicago, Ill.

A. R. Baldwin, Cargill Inc., Minneapolis, Minn.

R. W. Bartlett, Barrow-Agee Laboratories Inc., Memphis, Tenn.

R. J. Bell, Mrs. Tucker's Products, Sherman, Tex.

E. W. Blank, Colgate-Palmolive Company, Jersey City, N. J.

E. L. Boley, Armour 31st Street Auxiliaries, Chicago, Ill.

D. S. Bolley, Baker Castor Oil Company, Bayonne, N. J.

H. M. Boyd, General Mills Inc., Minneapolis, Minn.

W. Q. Braun, Wilson and Company, Chicago, Ill.

Roger Bresnahan, Darling and Company, Chicago, Ill.

L. R. Brown, A. E. Staley Manufacturing Company, Decatur, Ill.

R. J. Buswell, Armour and Company, Chicago, Ill.

B. F. Daubert, General Foods Corporation, Hoboken, N. J.

R. A. Decker, Armour and Company, Chicago, Ill.

F. G. Dollear, Southern Regional Research Laboratory, New Orleans, La.

F. R. Earle, Northern Utilization Research Branch, Peoria, Ill.

M. W. Formo, Archer-Daniels-Midland Company, Minneapolis, Minn.

Vernon Franklin, Armour and Company, Chicago, Ill.

Otto Gabbard, Standard Brands Inc., Indianapolis, Ind.

E. C. Gallagher, National Lead Company, Philadelphia, Pa.

F. P. Greenspan, Becco Chemical Division, Food Machinery Corporation, Buffalo, N. Y.

W. B. Guerrant Jr., Mrs. Tucker's Products, Sherman, Tex.

J. P. Hewlett, Sharon Laboratories, Denison, Tex.

C. L. Hoffpauir, Southern Regional Research Laboratory, New Orleans, La.

G. W. Holman, Procter and Gamble Company, Cincinnati, O.

P. A. Holmes, South Texas Cotton Oil Company, Houston, Tex.

K. E. Holt, Archer-Daniels-Midland Company, Minneapolis, Minn.

R. J. Houle, Lever Brothers Company, Edgewater, N. J.

J. P. Hughes, Mrs. Tucker's Products, Sherman, Tex.

H. T. Iveson, Glidden Company, Chicago, Ill.

H. N. Keesee, Mrs. Tucker's Products, Sherman, Tex.

Gardner Kirsten, U. S. Food and Drug Administration, New York, N. Y.

J. C. Konen, Archer-Daniels-Midland Company, Minneapolis, Minn.

A. H. Lamb, Mrs. Tucker's Products, Sherman, Tex.

H. J. Lanson, General Electric Company, Schenectady, N. Y.

C. P. Long, Procter and Gamble Company, Cincinnati, O.

W. O. Lundberg, Hormel Institute, Austin, Minn.

W. G. McLeod, W. C. Hardesty Company Inc., Dover, O.

R. A. Marmor, Pillsbury Mills Inc., Minneapolis, Minn.

J. E. Maroney, American Meat Institute, Chicago, Ill.

Wales Newby, Opelousas Oil Refinery, Opelousas, La.

E. T. Payne, Mrs. Tucker's Products, Sherman, Tex.

W. D. Pohle, Swift and Company, Chicago, Ill.

W. A. Pons Jr., Southern Utilization Research Branch, New Orleans, La.

W. C. Pritchett, Kraft Foods Company, Chicago, Ill.

O. S. Privett, Hormel Institute, Austin, Minn.

S. J. Rini, HumKo Company, Memphis, Tenn.

B. N. Rockwood, Swift and Company, Chicago, Ill.

E. M. Sallee, Procter and Gamble Company, Cincinnati, O.

J. L. Schille, Best Foods Inc., Chicago, Ill.

W. D. Schroeder, Pittsburgh Coke and Chemical Company, Pittsburgh, Pa.

W. F. Schroeder, HumKo Company, Memphis, Tenn.

H. A. Schuette, University of Wisconsin, Madison

Francis Scofield, National Paint, Varnish, and Lacquer Association, Washington, D. C.

A. B. Schell, Sherwin-Williams Company, Chicago, Ill.

V. B. Shelburne, Spencer Kellogg and Sons Inc., Buffalo, N. Y.

T. C. Smith, Central Soya Company Inc., Decatur, Ind.

F. D. Snell, Foster D. Snell Inc., New York, N. Y.

H. T. Spanuth, Wilson and Company, Chicago, Ill.

William Stewart, Swift and Company Refinery, Atlanta, Ga.

R. C. Stillman, Procter and Gamble Company, Cincinnati, O.

L. A. Sweet, Blanton Company, St. Louis, Mo.

Daniel Swern, Eastern Regional Research Laboratory, Philadelphia, Pa.

R. L. Terrill, Spencer Kellogg and Sons Inc., Buffalo, N. Y.

S. E. Tierney, Swift and Company, Chicago, Ill.

J. L. Trauth, Emery Industries Inc., Cincinnati, O.

R. C. Walker, Mrs. Tucker's Products, Sherman, Tex.

J. G. Wallace, E. I. du Pont de Nemours and Company, Wilmington, Del.

R. E. Wiech, A. Gross and Company, Newark, N. J.

F. C. Woelke, G. W. Gooch Laboratories Ltd., Los Angeles, Calif.

N. W. Ziels, Lever Brothers Company, Hammond, Ind.

Moisture: R. J. Houle, chairman, E. L. Boley, F. G. Dollear, F. R. Earle, R. C. Stillman

Closed Cup Flash Point: J. L. Schille, chairman, D. S. Bolley, J. C. Konen, H. T. Iveson, R. C. Stillman

Hydroxyl Value: D. S. Bolley, chairman, H. M. Boyd, C. L. Hoffpauir, J. C. Konen, W. D. Pohle, R. L. Terrill, Francis Scofield

Wiley Melting Point: J. P. Hughes, chairman, Otto Gabbard, B. N. Rockwood, J. L. Schille, William Stewart

Monoglycerides: W. D. Pohle, chairman, R. C. Walker, D. S. Bolley, O. S. Privett, R. A. Marmor, S. J. Rini

Continuous Flow Sampling: L. R. Brown, chairman, A. R. Baldwin, H. T. Iveson, J. L. Schille, H. T. Spanuth, F. C. Woelke

Lecithin: H. T. Iveson, chairman, K. E. Holt, L. R. Brown, E. W. Blank, B. N. Rockwood, T. C. Smith

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- Neutral Oil:** S. E. Tierney, chairman, K. E. Holt, W. A. Pons Jr., R. J. Bell, R. A. Decker, V. B. Shelburne, N. W. Ziels
- Fat Stability:** Wales Newby, chairman, S. E. Tierney, J. P. Hewlett, R. W. Bartlett, F. G. Dollear, W. B. Guerrant Jr., R. A. Marmor, S. J. Rini
- F.A.C. Colors:** E. W. Blank, chairman, R. J. Houle, J. E. Maroney, V. C. Mehlenbacher, H. T. Spannum, F. C. Woekel
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- Consistency:** N. W. Ziels, chairman, R. A. Decker, G. W. Holman, A. H. Lamb, V. C. Mehlenbacher
- Congeal Point:** V. C. Mehlenbacher, chairman, R. A. Decker, H. N. Keese, P. A. Holmes, H. T. Spannum
- Epoxy Compounds:** K. E. Holt, chairman, F. P. Greenspan, W. O. Lundberg, W. D. Schroeder, Daniel Swern, J. G. Wallace
- Glycerine Analysis:** W. D. Pohle, chairman, Swift and Company, Chicago, Ill.
- J. T. R. Andrews, Procter and Gamble Company, Cincinnati, O.
- H. C. Bennett, Los Angeles Soap Company, Los Angeles, Calif.
- E. L. Boley, Armour 31st Street Auxiliaries, Chicago, Ill.
- W. C. Clark, Emery Industries Inc., Cincinnati, O.
- R. J. Houle, Lever Brothers Company, Edgewater, N. J.
- W. A. Peterson, Colgate-Palmolive Company, Jersey City, N. J.
- J. B. Segur, Miner Laboratories, Chicago, Ill.
- Arnold Troy, E. F. Drew and Company, New York, N. Y.
- Literature Review:** M. M. Piskur, chairman, Swift and Company, Chicago, Ill.
- E. W. Blank, Colgate-Palmolive Company, Jersey City, N. J.
- J. B. Brown, Ohio State University, Columbus, O.
- E. A. Gastrock, Southern Regional Research Laboratory, New Orleans, La.
- Membership:** T. H. Hopper, chairman, Southern Regional Research Laboratory, New Orleans, La.
- H. C. Black, Swift and Company, Chicago, Ill.
- G. C. Henry, Law and Company, Atlanta, Ga.
- E. B. Kester, Western Regional Research Laboratory, Albany, Calif.
- J. C. Konen, Archer-Daniels-Midland Company, Minneapolis, Minn.
- F. B. White, Foster Wheeler Corporation, New York
- R. W. Bates, *ex officio*, Armour and Company, Chicago, Ill.
- Associates:** H. C. Bennett, J. E. Blum, D. S. Bolley, G. C. Cavanagh, H. B. Coats, B. F. Daubert, J. W. Dunning, S. S. Fein, H. D. Fincher, R. W. Harrison, R. J. Houle, A. F. Kapecki, F. A. Kummerow, E. A. Lawrence, C. P. Long, F. E. Luddy, W. D. Lumpkin, E. J. Malen, G. A. O'Hare, M. A. Partridge, R. F. Paschke, W. A. Peterson, R. H. Potts, F. W. Quackenbush, T. M. Rinehart, S. J. Rini, M. K. Schwitzer, R. L. Terrill, M. H. Thornton
- Oil Color:** R. C. Stillman, chairman, Procter and Gamble Company, Cincinnati, O.
- G. W. Agee, Barrow-Agee Laboratories Inc., Memphis, Tenn.
- R. J. Buswell, Armour and Company, Chicago, Ill.
- E. A. Christenson, U.S.D.A., Beltsville, Md.
- W. T. Coleman, Western Cotton Oil Division, Abilene, Tex.
- M. W. Formo, Archer-Daniels-Midland Company, Minneapolis, Minn.
- E. B. Freyer, Spencer Kellogg and Sons, Buffalo, N. Y.
- Seymore Goldwasser, Lever Brothers Company, Edgewater, N. J.
- D. L. Henry, Law and Company, Atlanta, Ga.
- Duncan Macmillan, Northern Regional Research Laboratory, Peoria, Ill.
- C. L. Manning, Fort Worth Laboratories, Fort Worth, Tex.
- V. C. Mehlenbacher, Swift and Company, Chicago, Ill.
- R. T. O'Connor, Southern Regional Research Laboratory, New Orleans, La.
- R. C. Pope, Pope Testing Laboratories, Dallas, Tex.
- A. D. Rich, Filtrol Corporation, Los Angeles, Calif.
- R. J. Smith, Corn Products Refining Company, Argo, Ill.
- Francis Scofield, National Paint, Varnish, and Lacquer Association, Washington, D. C.
- L. K. Whyte, Colgate-Palmolive Company, Kansas City, Kans.
- G. G. Wilson, General Mills Inc., Kankakee, Ill.
- National Program:** H. C. Black, chairman, Swift and Company, Chicago, Ill.
- W. C. Ault, Eastern Regional Research Laboratory, Philadelphia, Pa.
- E. W. Colt, Armour 31st Street Auxiliaries, Chicago, Ill.
- F. A. Kummerow, University of Illinois, Urbana
- R. C. Stillman, Procter and Gamble Company, Cincinnati, O.
- Refining:** G. W. Holman, chairman, Procter and Gamble Company, Cincinnati, O.
- P. W. Bateman, A. E. Staley Manufacturing Company, Decatur, Ill.
- O. J. Fiala, Durkee Famous Foods, Louisville, Ky.
- G. J. Heider, Wilson and Company, Chattanooga, Tenn.
- D. L. Henry, Law and Company, Atlanta, Ga.
- K. E. Holt, Archer-Daniels-Midland Company, Minneapolis, Minn.
- E. M. James, Lever Brothers Company, Swarthmore, Pa.
- A. A. Kiess, Armour and Company, Chicago, Ill.
- J. R. Mays Jr., Barrow-Agee Laboratories Inc., Memphis, Tenn.
- V. C. Mehlenbacher, Swift and Company, Chicago, Ill.
- R. T. Munsberg, Lever Brothers Company, Edgewater, N. J.
- H. E. Seestrom, Mrs. Tucker's Products, Sherman, Tex.
- T. C. Smith, Central Soya Company, Decatur, Ind.
- F. E. Sullivan, De Laval Separator Company, Poughkeepsie, N. Y.
- E. H. Tenent, Woodson-Tenent Laboratories, Memphis, Tenn.
- Smalley:** R. W. Bates, chairman, Armour and Company, Chicago, Ill.
- L. V. Anderson, Minnesota Linseed Company, Minneapolis
- R. T. Doughtie Jr., U.S.D.A., Memphis, Tenn.
- J. P. Hewlett, Sharon Laboratory Service, Denison, Tex.
- R. J. Houle, Lever Brothers Company, Edgewater, N. J.
- C. P. Long, Procter and Gamble Company, Cincinnati, O.
- Drying Oils:** L. V. Anderson, chairman, E. C. Gallagher, K. E. Holt, V. B. Shelburne
- Glycerine:** R. J. Houle, chairman, J. B. Segur, C. P. Long, W. D. Pohle
- Oil Seed Meal:** R. T. Doughtie Jr., chairman, W. S. Belden, W. T. Coleman, T. L. Rettger, P. D. Cretien, T. C. Law, R. W. Bartlett
- Oil Seeds:** R. T. Doughtie Jr., chairman, G. C. Henry, E. R. Hahn, W. T. Coleman
- Vegetable Oils:** J. P. Hewlett, chairman, O. E. Wilkins, J. R. Mays Jr., C. L. Hoffpauir, F. R. Earle, R. A. Decker, S. J. Rini
- Tallow and Grease:** C. P. Long, chairman, K. H. Fink, T. R. Bresnahan, D. L. Henry, B. N. Rockwood, O. E. Wilkins, N. W. Ziels
- Soapstock Analysis:** K. E. Holt, chairman, Archer-Daniels-Midland Company, Minneapolis, Minn.
- E. W. Blank, Colgate-Palmolive Company, Jersey City, N. J.
- D. L. Henry, Law and Company, Atlanta, Ga.
- Vernon Franklin, Armour and Company, Chicago, Ill.
- J. J. Ganuchau, Southern Cotton Oil Company, Gretna, La.
- J. P. Hughes, Mrs. Tucker's Products, Sherman, Tex.
- F. W. Keith Jr., Sharples Corporation, Philadelphia, Pa.
- B. N. Rockwood, Swift and Company, Chicago, Ill.
- N. M. Schuck, Procter and Gamble Company, Cincinnati, O.
- J. L. Trauth, Emery Industries Inc., St. Bernard, O.

Spectroscopy: R. T. O'Connor, chairman, Southern Regional Research Laboratory, New Orleans, La.

S. F. Herb, Eastern Regional Research Laboratory, Philadelphia, Pa.

Seymore Goldwasser, Lever Brothers Company, Edgewater, N. J.

M. W. Formo, Archer-Daniels-Midland Company, Minneapolis, Minn.

Joseph McLaughlin Jr., Walter Reed Army Medical Center, Washington, D. C.

B. N. Rockwood, Swift and Company, Chicago, Ill.

N. D. Fulton, Procter and Gamble Company, Cincinnati, O.

D. H. Wheeler, General Mills Inc., Minneapolis, Minn.

Hans Wolff, A. E. Staley Manufacturing Company, Decatur, Ill.

Uniform Methods: J. T. R. Andrews, chairman, Procter and Gamble Company, Cincinnati, O.

M. M. Durkee, A. E. Staley Manufacturing Company, Decatur, Ill.

J. J. Ganuchean, Southern Cotton Oil Company, Gretna, La.

D. L. Henry, Law and Company, Atlanta, Ga.

T. H. Hopper, Southern Regional Research Laboratory, New Orleans, La.

R. J. Houle, Lever Brothers Company, Edgewater, N. J.

R. R. King, Mrs. Tucker's Products, Sherman, Tex.

Special, on Local Sections: H. C. Black, chairman, Swift and Company, Chicago, Ill.

N. D. Embree, Distillation Products Industries, Rochester, N. Y.

R. W. Bates, Armour and Company, Chicago, Ill.

Seed and Meal Analysis: T. H. Hopper, chairman, Southern Regional Research Laboratory, New Orleans, La.

G. W. Agee, Barrow-Agee Laboratories Inc., Memphis, Tenn.

O. N. Anderson, Procter and Gamble Company, Long Beach, Calif.

W. T. Coleman, Anderson, Clayton and Company, Abilene, Tex.

R. T. Doughtie Jr., Agricultural Marketing Service, U.S.D.A., Memphis, Tenn.

E. B. Freyer, Spencer Kellogg and Sons Inc., Buffalo, N. Y.

G. C. Henry, Law and Company, Atlanta, Ga.

K. E. Holt, Archer-Daniels-Midland Company, Minneapolis, Minn.

R. S. McKinney, U. S. Tung Oil Laboratory, Bogalusa, La.

V. C. Mehlenbacher, Swift and Company, Chicago, Ill.

T. J. Potts, Ralston Purina Company, St. Louis, Mo.

T. L. Rettger, Buckeye Cotton Oil Company, Memphis, Tenn.

T. C. Smith, Central Soya Company Inc., Decatur, Ind.

Residual Lint on Cottonseed: R. T. Doughtie, chairman,

E. C. Ainslie, W. T. Coleman, G. C. Henry, L. H.

Hodges, C. L. Manning, C. A. Smith, E. H. Tenent

Sampling Bulk Solvent-Extracted Meal and Expeller

Flakes: L. H. Hodges, chairman, W. T. Coleman, M.

H. Fowler, D. L. Henry, R. E. Knipple, T. J. Potts,

T. L. Rettger

Analysis of Cottonseed Products for Gossypol: C. L. Hoff-

pauir, chairman, W. T. Coleman, J. R. Mays Jr., V. C.

Mehlenbacher, W. J. Miller

Analysis of Castor Beans and Pomace: V. B. Shelburne,

chairman, W. F. Beedle, D. S. Bolley, Edith Christensen,

W. T. Coleman, G. C. Henry, C. L. Manning, R. C. Pope,

C. R. Southwell, M. F. Stansbury

Foreign Matter in Lint: T. L. Rettger, chairman, P. D.

Cretien, G. C. Henry, C. L. Manning, J. R. Mays Jr.,

R. C. Pope, O. E. Wilkins

Analysis of Sesame Seed: W. T. Coleman, chairman, A. C.

Wamble

Analysis of Copra and Copra Meal: O. N. Anderson, chair-

man, W. F. Beedle, W. J. Goodrum, C. A. Lathrap

Urease Activity in Soybean Meal: T. J. Potts, chairman

Special, on By-Laws: D. H. Henry, chairman, Law and Com-

pany, Atlanta, Ga.

R. W. Bates, Armour and Company, Chicago, Ill.

J. J. Ganuchean, Southern Cotton Oil Company, Gretna, La.

Foster D. Snell, of Foster Dee Snell Inc., New York, has been reappointed representative of the Society to the National Research Council, Washington, D. C.

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New Books

THE CHEMISTRY OF LIPIDS OF BIOCHEMICAL SIGNIFICANCE, by J. A. Lovern (John Wiley and Sons Inc., New York City, 1955, 132 pp., \$1.75). This book is based on the subject material given in a series of lectures at the University of Aberdeen by Dr. Lovern. It is divided into five chapters, namely, Structure of Lipids, Preparation and Analysis of Lipids, Lipids in the Tissues, The Dynamic State of Lipids in the Tissues, and the Function of Lipids.

To the reviewer the second, third, and fourth chapters seemed most unusual and most interesting. The background information for these chapters was obtained from English, Japanese, and German publications not readily available to or overlooked by other writers of text books on lipid chemistry. This is most noticeable for the information on bound lipids and lipoproteins. The latter will no doubt attract greater attention as their role in the stability of lipids in cereals, egg yolk, meat products, and blood serum is elucidated.

The information on the extraction, purification, separation, and analytical determination of lipid components should be of special interest to laboratory workers.

The lifetime of experience which Dr. Lovern has had in laboratory work lends a sympathetic understanding to the problems involved in the art of lipid chemistry. The second chapter alone, in which this art is discussed, is well worth the modest price of this most unusual book.

FRED A. KUMMEROW
Department of Food Technology
University of Illinois
Urbana, Ill.

EXPERIMENTAL COOKERY FROM THE CHEMICAL AND PHYSICAL STANDPOINT, by Belle Lowe (John Wiley and Sons Inc., 4th ed., 573 pp., 1955, \$7.50). This fourth edition of "Experimental Cookery" is a welcome revision of one of the standard texts in the field of food research. The book is well printed on a good grade of paper and contains numerous illustrations. Chapter headings include the relation of cookery to colloid chemistry; food acceptability; sugar cookery; frozen foods; fruits and vegetables; pectic substances, jelly, jam; gelatin; meat and poultry; emulsions; milk and milk products; eggs; starch, flour, and bread; batters and doughs; fats and oils.

The material covered in previous editions has been revised and brought up-to-date. In addition, sections have been added on methods of assessing acceptability of foods, elements of designing class and individual problems in experimental cookery, and information on frozen foods and mixes. Each chapter concludes with a list of references of value to those wishing to explore a given subject in more detail. In several cases, where the lists are long, the references have been grouped under general topic headings. Several chapters contain brief laboratory outlines for use in classwork. The book includes an index.

This book should be very useful as a text for advanced food preparation and experimental cookery courses, and as ground-work for special problems and research at the graduate level. It is not suitable for beginning students. In addition, it will be very useful to anyone concerned with the many phases of food technology as it brings together concepts and results from many fields which bear on the complex problem of the changes occurring in foods during processing and preparation.

PAULINE PAUL
Department of Home Economics
University of California
Davis, Calif.

DIE SEIFENFABRIKATION (The Manufacture of Soap), by Karl Braun and Theodor Klug (Walter de Gruyter and Company, Berlin, Germany, Goeschen Series, vol. 336, 116 pp., 1953). The booklet is paper-bound and of pocket-book format. In an encyclopaedical way it describes briefly the entire manufacture of soap. After a short history of soap-making, it gives the chemistry and the chemical characteristics of soap, also the raw materials and chemicals employed in the production process. The major part of the booklet deals with the technology of the different types of soaps, giving the material formulas and the calculations for the various ingredients. With 18 figures the apparatus and soap-making machinery used in the manufacturing process are described. The analytical meth-

ods used for testing the raw material and the end-product are given in detail. A short calculation of the production cost concludes the booklet.

Like all publications of the Goeschen series, the booklet is written primarily for persons with some chemical and technical background in order to acquaint them with the modern soap-making process. Some of the formulas and recipes might be of interest to experienced soap technologists. The book is written in German.

HANNS G. MAISTER
Northern Utilization Research Branch
Peoria, Ill.

CHEMICAL PROCESS PRINCIPLES, Part 1. MATERIAL AND ENERGY BALANCES, 2nd ed., by Olaf A. Hougen, Kenneth M. Watson, and Roland A. Ragatz (John Wiley and Sons Inc., New York, 504 pp., \$8.50, 1953). The original work on this subject was first published in 1943 by Hougen and Watson, and in 1953 it was revised and published as part of a three-volume series which included Thermodynamics and Kinetics. It is interesting to note that this second edition has been published only a year after the first edition. However the authors have industriously added some seventy pages of excellent new material and revised much of the older material.

Chemical Process Principles is an outstanding work and is used as a text for the first course in chemical engineering by a great many colleges. The object of the book is to illustrate the application of fundamental principles of physics and chemistry in the solution of industrial problems, *e.g.*, the title of the first book was Industrial Chemical Calculations. In addition, much valuable information is given on methods of correlating and predicting the physical and chemical properties of elements and compounds. Also the tables and graphs of these properties serve as valuable reference material.

A welcome new addition is the discussion on mathematical procedures. It consists essentially of graphical methods for the solution of mathematical relations. The graphical solution of complicated and simultaneous equations, graphical integration, and the use of logarithmic and triangular graph paper are explained.

The chapter on Stoichiometric and Composition Relations explains the conception of the gram-mole and pound-mole units and their use in calculating mass balances as well as the simpler principles involved in making weight and volume calculations. Succeeding chapters take up the pressure-volume-temperature relations of ideal gases and their mixtures, vapor pressures of solutions, humidity and saturation, solubility and crystallization, material balances, and adsorption.

In the chapters on thermophysics and thermochemistry information is given on the estimation of thermal properties of elements and compounds and heats of chemical reactions. The use of these properties in the calculations of heat balances and heat requirements for physical and chemical processes is explained. Finally, in chapters on Fuels and Combustion and Chemical, Metallurgical, and Petroleum Processes, practical illustrations are given of the applications of the basic stoichiometric and thermodynamic principles in the solution of more involved chemical manufacturing problems.

Many typical problems of a practical nature are given at the end of each chapter, and the answers are shown. This is a decided advantage to persons studying the subject without benefit of instruction.

This is a worthy text and reference for anyone who expects to make calculations on material and heat balances for industrial processes involving physical and chemical operations.

W. D. HARRIS
Chemical Engineering Department
A. and M. College of Texas
College Station, Tex.

PAINT AND VARNISH MANUAL. FORMULATION AND TESTING, by P. L. Gordon and R. Gordon (Interscience Publishers Inc., New York and London, Interscience Manual 5, 182 pp., 1955, \$3.50). This is a laboratory manual comprising a series of experiments on subjects basic to the technology of paints and varnishes. In the preface the authors state, "it is the purpose of this manual to acquaint the student of chemistry or chemical engineering and the technician entering the field or engaged in related industries with the laboratory practices encountered in the control and development laboratories of the

paint and varnish industry.' This purpose is well accomplished; in fact, the actual performing of the experiments would serve to give newly-hired technicians excellent training in the field. Some of the experiments are concerned with practices no longer of great commercial importance, but even these are probably desirable in training for a broad understanding of coating technology.

The experiments cover two broad classifications; namely, preparation and evaluation of vehicle intermediates (such as oils, resins, and varnishes) and formulation and application of finished paints. Experiments dealing with appropriate analytical methods are included for each classification. Typical experiments deal with the bodying of oils, preparation of various alkyd resins, preparation of a resin-oil emulsion, and preparation of various pigmented coatings. In the appendix are tables showing bulking values, materials and equipment required, etc. Equipment required for the experiments is simple, and the materials are conventional in any paint laboratory. Although this is definitely not a reference book for consulting on problems in vehicle or paint formulation or testing, it will constitute a very useful manual when used for the stated purpose.

ROBERT L. TERRILL
Spencer Kellogg and Sons Inc.
Buffalo, N. Y.

1954 SUPPLEMENT TO BOOK OF ASTM STANDARDS, including Tentatives, Part 4, Paint, Naval Stores, Wood, Cellulose, Wax Polishes, Sandwich and Building Constructions, Fire Tests (American Society for Testing Materials, 1916 Race street, Philadelphia 3, Pa., 141 plus x pp.). This book includes all standards and tentatives which were adopted during the past year, or which were extensively revised. Of particular interest are an extensive revision of the method for Distillation of Gasoline, etc., (D 86), a new method for flash point with the Tag Open Cup (D 1310), two methods for determining phthalic anhydride in alkyd resins, (D 1306 and D 1307), and a method for determining unsaponifiable matter in rosin (D 1065). This book is essential to all those who have the triennial book of standards since it contains corrections to be made in that book.

FRANCIS SCOFIELD
National Paint, Varnish, and
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A.S.T.M. STANDARDS ON PAINT, VARNISH, LACQUER, AND RELATED PRODUCTS (American Society for Testing Materials, 1916 Race street, Philadelphia, Pa., 868 pp., \$6, 1955). Some 200 specifications and methods of test, covering paint and related products and such raw materials as pigments, oils, resins, and solvents are given in full. Of particular interest to oil chemists are specifications for linseed oil, raw and boiled, and for tung, oiticica, soybean, and dehydrated castor oils. All A.S.T.M. methods for testing drying oils are gathered into one method, D 555-54. These are essentially the same as the A.O.C.S. methods but include some which have not yet been adopted by the American Oil Chemists' Society. Other pertinent test methods include several for alkyd resins and the general methods for testing varnishes, D 154-53.

This is the 9th edition of this compilation and is an essential volume for those whose work involves the testing of paints or related products.

FRANCIS SCOFIELD
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On the Educational Front

The National Academy of Sciences, National Research Council, has awarded four Merck senior postdoctoral fellowships in the natural sciences for the academic year 1955-56. These fellowships were established in 1946 by a grant from Merck and Company Inc., Rahway, N. J., and have been supplemented by additional grants which bring the total to about \$300,000.

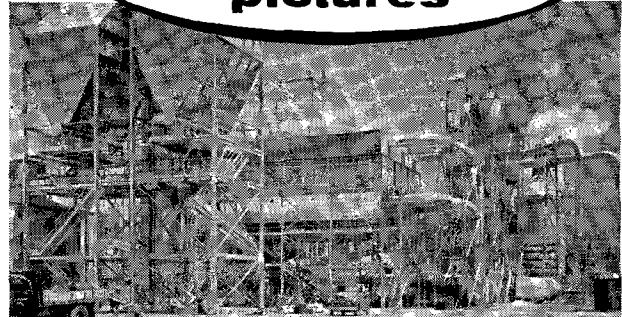
Eight college seniors in chemistry and engineering have been awarded \$1,000 scholarships by Atlas Powder Company, Wilmington, Del.

Natasha Hollbach, a graduate student at McGill University, Montreal, was awarded the \$1,000 Russell J. Eddy foundation scholarship for 1955. The award was presented at the 38th annual conference of The Chemical Institute of Canada.

1930 Quarrying for first plant—Walteria



a quarter of a
century separates
these DICALITE
pictures

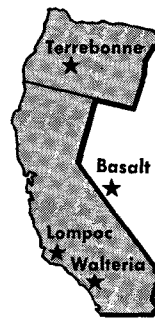


1955 Fourth Processing Plant—Lompoc

They didn't continue very long—the horse-and-wagon, hand-quarrying methods of our early days. For Dicalite was founded on the idea of *development*, of promoting new uses for that little-known (in 1930) material, diatomite, and working out improved processing methods.

The succeeding 25 years have, we believe, proved the soundness of that idea. Today diatomite . . . also called diatomaceous silica, diatomaceous earth or D.E. . . has important uses in more than 200 industries, and Dicalite has helped in the pioneering and development of many of these uses. Dicalite products, which now number more than 50, have a valued place in the brewing, pharmaceutical, chemical, sugar, food, paint, paper and other large industries, as filteraids, fillers, insulation and in other capacities.

And Dicalite itself has grown—because of this basic idea of development—from 1930's one deposit, one plant, to 1955's four processing plants and deposits in three states. Four locations, four plants, served by four different railroad systems, insure a continuing, *dependable* supply of the diatomaceous materials upon which many industries rely.



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