NEWS

Fifty Papers to Be Presented at Cincinnati Meeting

THE COMPLETE PROGRAM and information about tours, social events, exhibitors, and committee meetings are announced by the committee for the 31st fall meeting of the American Oil Chemists' Society, to be held September 30, October 1 and 2 at the Netherland Hilton hotel, Cincinnati, O. A. K. Presnell is general chairman, E. W. Eckey, program chairman; advisers have been A. S. Richardson, C. P. Long, and Procter Thomson, all past presidents of the Society. E. M. Sallee is publicity chairman.

Guided tours through Procter and Gamble's research laboratories and manufacturing headquarters have been arranged for Tuesday afternoon by T. F. Waters, also a special mystery trip which cannot now be identified.

On the lighter side, a cocktail party sponsored by Distillation Products Industries Monday will be followed by a buffet dinner and showboat party. The traditional dinner-dance Tuesday will feature special entertainment.

As arranged by Miss Doris Clark and her committee, the ladies' activities will include luncheons at the Golden Lamb, Lebanon, O., and the White Horse Tavern, Covington, Ky.; a guided tour of the Cincinnati Art Museum; and the Todd A. O. production, "Around the World in 80 Days."

A pre-registration card has been mailed to those who attended the Chicago meeting last year. The registration desk will be open Sunday afternoon as well as during the meeting. Reservations for rooms should be made direct with the hotel, indicating the type of accommodations desired and the time of arrival and departure.

Exhibitors at the Cincinnati meeting will include the following:

Ace Glass Inc., Springfield, O.
Atlas Powder Company, Wilmington, Del.
V. D. Anderson Company, Cleveland, O.
Bausch and Lomb Optical Company, Rochester, N. Y.
Blaw-Knox Company, Pittsburgh, Pa.
R. J. Brown Company, St. Louis, Mo.
Burrell Corporation, Pittsburgh, Pa.
Central Scientific Company, Chicago, Ill.
Chemical Rubber Company, Cleveland, O.
Chemineer Inc., Dayton, O.
Curry and Paxton Inc., Albertson, L. I., N. Y.
Distillation Products Industries, Rochester, N. Y.
Eastman Chemical Products, New York, N. Y.
Fisher Scientific Company, Pittsburgh, Pa.
French Oil Mill Machinery Company, Piqua, O.
Girdler Company, Louisville, Ky.
Harshaw Chemical Company, Cleveland, O.
Hercules Filter Corporation, Hawthorne, N. J.
Hoffmann-La Roche Inc., Nutley, N. J.
Kimble Glass Company, Toledo, O.
A. S. La Pine and Company, Chicago, Ill.
Mettler Instrument Corporation, Hightstown, N. J.
Oakite Products Inc., New York, N. Y.
Packard Instrument Company, La Grange, Ill.
Perkin-Elmer Corporation, Norwalk, Conn.
L. A. Salomon and Bro., New York, N. Y.
E. H. Sargent and Company, Chicago, Ill.
Sparkler Manufacturing Company, Mundelein, Ill.

Titles and timing for the technical program, as well as announcement of the business session on Wednesday afternoon, are given below:

PROGRAM

Monday, September 30

Morning

Call to Order, by H. C. Black, president 9:15
Announcements and Greetings, by A. K. Presnell, convention chairman 9:30

B. M. Craig

Oliver Grummitt

Presentation of Fatty Acid Award, by C. W. Hoerr, chairman, Fatty Acid Award Committee 9:40

GENERAL SESSION

1. Use of Statistical Techniques with Standard Product Specifications, by Harry Smith and T. F. Waters, Procter and Gamble Company, Cincinnati, O. 9:50
2. Carboxymethylated Soybean Protein, by L. L. McKinney and E. H. Uhing, Northern Utilization Research and Development Division, Peoria, Ill. 10:10
3. Engineering Aspects of a Continuous Hydrogenation Process, by V. F. Green, Procter and Gamble Company, Cincinnati, O. 10:30
4. The Effects of Gamma Radiation on the Hydrogenation of Cottonseed Oil, by L. F. Albright, L. J. Harrison, and A. Sesonske, Purdue University, Lafayette, Ind. 11:00
5. Hydrogenation of Conjugated Linoleic Acid Soaps, by C. R. Scholfield, E. P. Jones, J. A. Stolp, and J. C. Cowan, NURDD, Peoria, Ill. 11:20
6. Isano Oil, a Conjugated Triple Bond Glyceride, by D. Kyriacou, R. H. Purdy, and J. A. Kneeland, Pacific Vegetable Oil Corporation, San Francisco, Calif. 11:40

Afternoon

DETERGENTS AND DETERGENCY

7. Practical Detergency Evaluation, by A. R. Martin, Whirlpool Corporation, St. Joseph, Mich. 2:00
8. The Cutaneous Effects of Soaps and Synthetic Detergents, by R. R. Suskind, Kettering Laboratory, College of Medicine, University of Cincinnati, Cincinnati, O. 2:20
9. Detergent Mildness from the Evaluation View-point, by G. R. Ward and B. L. Garner, Los Angeles Soap Company, Los Angeles, Calif. 2:40
10. Recent Research on the Effects of Detergents in Sewage Systems, by J. D. Justice, Lever Brothers Company, Edgewater, N. J. 3:00
11. The Effect of Oil Films on the Cleanliness of Surfaces, by E. H. Armbruster and G. M. Ridenour, Department of Environmental Health, School of Public Health, University of Michigan, Ann Arbor, Mich. 3:30
12. Detergent Bars from Salts of α-Sulfonated Tallow Acids, by J. K. Weil, A. J. Stirton, E. W. Maurer, and W. E. Palm, Eastern Regional Research Laboratory, Philadelphia, Pa.
13. Fabric Treatment with Cationic Softeners, by W. M. Linfield, J. C. Sherrill, G. A. Davis, and R. M. Raschke, Armour and Company, Chicago, Ill. 4:10
14. A New Titrimetric Analysis of EO Condensates, by L. E. Weeks, J. T. Lewis, and M. E. Ginn, Monsanto Chemical Company, Dayton, O. 4:30

Tuesday, October 1

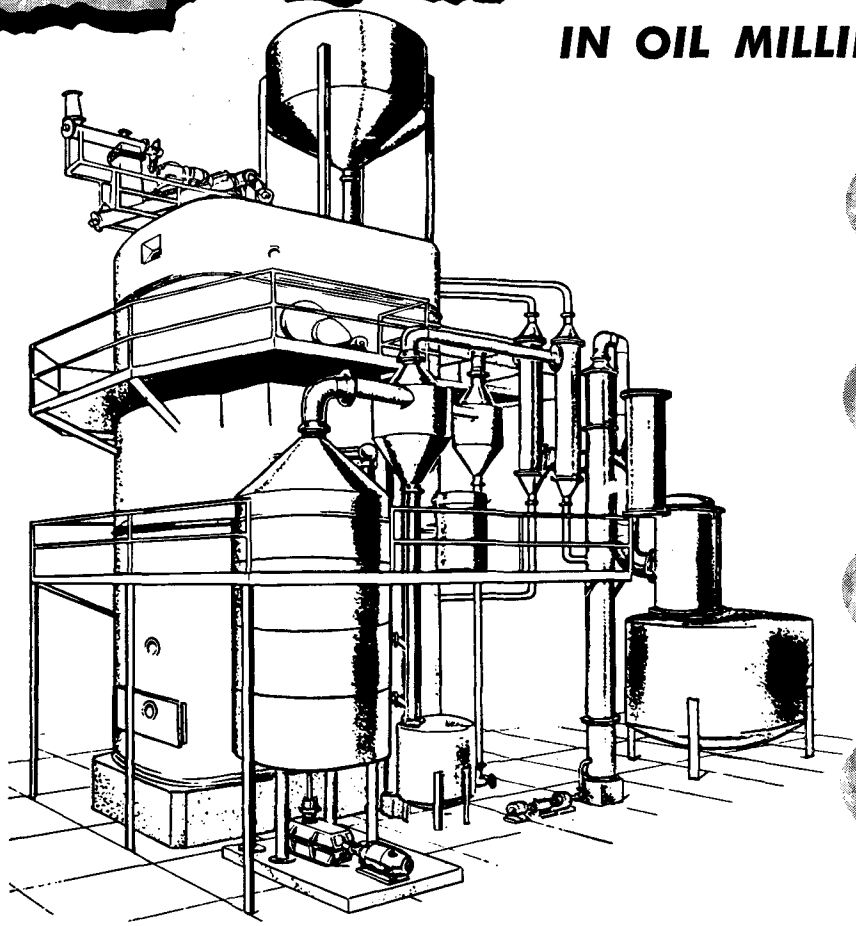
Morning

A. PHYSICAL PROPERTIES AND MEASUREMENTS

15. Measurement and Study of the Fluorescence Spectra of Optical Brighteners, by Robert Schumacher, Hilton-Davis Chemical Company, Cincinnati, O. 9:00

FRENCH UNMATCHED EXPERIENCE

IN OIL MILLING EQUIPMENT



LARGE PLANTS

SMALL PLANTS

INDOOR AND OUTDOOR INSTALLATIONS

FOR ALL TYPES OF OIL SEEDS & NUTS

The French Oil Mill Machinery Co.'s more than a half century of experience covers every aspect of solvent extraction—large plants and small, indoors and outdoors, for processing every type of oil bearing seeds and nuts.

French has more than twice as many full-size extraction plants in operation as any other manufacturer in this country. And each year, these French plants process almost as much oil tonnage as all others combined.

French has designed and built solvent extraction equipment to meet the needs of every mill—from the largest to the smallest—as shown by this list of French plants now operating:

15 installations—daily capacities 500 to 1000 tons and over

34 installations—daily capacities 200 to 500 tons

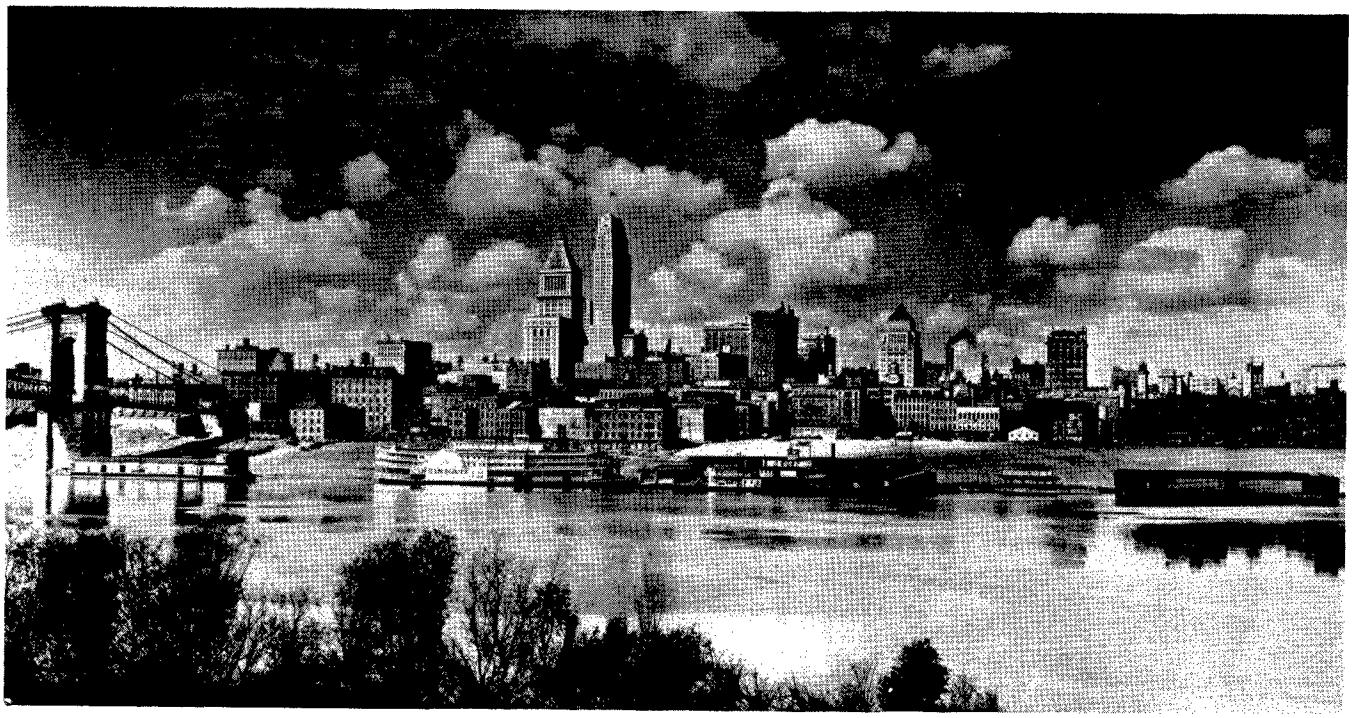
13 installations—daily capacities 150 tons or less

A total of 62 French solvent extraction installations now processing all types of oil seeds and nuts—producing highest quality products . . . and profits for their owners.

When you plan to install new solvent extraction equipment, put this wealth of experience to work for you . . . Consult The French Oil Mill Machinery Co.—world's largest manufacturer of vegetable oil processing machinery.

THE FRENCH OIL MILL MACHINERY CO.
PIQUA, OHIO—U. S. A.

- MECHANICAL SCREW PRESSES
- COOKER-DRYERS
- SOLVENT EXTRACTION PLANTS
- FLAKING AND CRUSHING ROLLS



CINCINNATI FROM THE RIVER—The interesting and beautiful skyline of Cincinnati will delight those who attend the 31st fall meeting of the American Oil Chemists' Society, September 30, October 1 and 2, 1957. Fall foliage, social events, and important technical program will be further attractions.

16. New Scales and Instrumentation for Color Measurement, by R. S. Hunter, Hunter Associates Laboratory, Falls Church, Va. 9:20
17. An Instrument for Measuring the Hardness of Fats and Waxes, by N. V. Lovegren, W. A. Guice, and R. O. Feuge, Southern Regional Research Laboratory, New Orleans, La. 9:40
18. Some Long-Chain Acids in the Solid State, by Erik von Sydow, University of Upsala, Sweden (Brooklyn Polytechnic Institute) 10:00
19. Investigations of Domestic Fats for Chocolate Bars, Coatings, and Summer Candies, by A. W. Schwab, Helen A. Moser, C. D. Evans, and J. C. Cowan, NURDD, Peoria, Ill. 10:30
20. The Behavior of Distilled Monoglycerides in the Presence of Water, by G. Y. Brokaw and W. C. Lyman, Distillation Products Industries, Rochester, N. Y. 10:50
21. Fat Emulsions. Effect of Polyoxyethylene and Alkyl Content of Emulsifiers on Stability to Sterilization, by W. S. Singleton, J. L. White, Ruth R. Benerito, and Katherine F. Talluto, SRRL, New Orleans, La. 11:10

Morning

B. Processing and Chemical Processes

22. Solubilities of Vegetable Oils in Ethanol and Ethanol-Hexane Mixtures, by K. Ramalingam and K. S. Chari, Regional Research Laboratory, Hyderabad, India (University of Cincinnati) 9:00
23. Extraction of Vegetable-Oil Cakes with Ethanol, by K. Ramalingam and K. S. Chari 9:20
24. Solvent Extraction of Peanut Cake, by K. Ramalingam and K. S. Chari 9:35
25. Direct Solvent-Extraction of Castor Yields of High Grade Oil, by E. L. D'Aquin, H. L. E. Vix, and E. A. Gastrock, SRRL, New Orleans, La. 9:45
26. Ion Exchange Catalyst Stability in *in-situ* Epoxidation, by W. Wood and J. Termini, Permutit Company, New York, N. Y. 10:05
27. Theory and Practice of Resin-Catalyzed Epoxidation, by A. F. Chadwick, D. O. Barlow, A. A. D'Addieco, and J. G. Wallace, Electrochemicals Department, E. I. du Pont de Nemours and Company, Wilmington, Del. 10:25
28. Hydroxylation of Methyl Oleate: a New, Direct Method, by J. G. Wallace, W. R. Peterson, A. F. Chadwick, and D. O. Barlow, du Pont Company, Wilmington, Del. 10:45
29. Long-Chain Unsaturated Alcohols from Jojoba Oil by Sodium Reduction, by L. J. Molaison, R. T. O'Connor, and J. J. Spadaro, SRRL, New Orleans, La. 11:05
30. Reactions of Conjugated Fatty Acids. VI. Selenium Catalysis, a Method for Preparing Diels-Alder Adducts from *cis, trans*-Octadecadienoic Acid, by H. M. Teeter, E. W. Bell, J. L. O'Donnell, M. J. Danzig, and J. C. Cowan, NURDD, Peoria, Ill. 11:25
31. Reactions of Conjugated Fatty Acids. VII. Catalytic Cyclization and Aromatization of *cis, trans*-Octadecadienoic Acid with Selenium, by H. M. Teeter, E. W. Bell, and M. J. Danzig, NURDD, Peoria, Ill. 11:45

Wednesday, October 2

Morning

A. Analysis and Composition

32. Synthesis and Infrared Analysis of 1-Monoolein, 1,3-Diolein, and Triolein, by Oliver Grummitt and H. F. Hardman, Western Reserve University, Cleveland, O. 9:00
33. Evaluation of Ozonolysis as a Method of Establishing the Position of Olefinic Linkages in Olefins and Olefinic Acids, by F. L. Benton, A. A. Kiess, and H. J. Harwood, Armour and Company, Chicago, Ill. 9:20
34. Application of Near Infrared Spectrophotometry to the Study of Autoxidation Products of Fats, by H. T. Slover and L. R. Dugan Jr., American Meat Institute Foundation, Chicago, Ill. 9:40
35. The Preparation and Infrared Spectra of Morpholides of Ricinoleic Acid and Some of Its Derivatives, by H. P. Dupuy, R. T. O'Connor, and L. A. Goldblatt, SRRL, New Orleans, La. 10:00
36. Further Studies on the Isomerization of Polyunsaturated Fatty Acids by Potassium Tertiary Butoxide, by B. Sreenivasan and J. B. Brown, Ohio State University, Columbus, O. 10:20
37. Free Gossypol in Fats and Oils, by G. Schramm and J. H. Benedict, Procter and Gamble Company, Cincinnati, O. 10:40
38. Identification of Rapeseed Oil in Olive Oil by Urea Fractionation, by V. R. Bhalerao, Department of National Health and Welfare, Ottawa, Ontario, Canada 11:00
39. Fatty Acid Composition of Kenaf Seed Oil, by C. Y. Hopkins and Mary J. Chisholm, National Research Council, Ottawa, Ontario, Canada 11:20
40. Fractionation and Glyceride Composition of Fats and Oils, by C. G. Youngs and H. R. Sallans, Prairie Regional Laboratory, National Research Council, Saskatoon, Saskatchewan, Canada 11:40

Morning

B. BIOCHEMISTRY AND NUTRITION

41. Rat-Feeding Studies on Fractionated Ethyl Esters of Autoxidized Lard and Autoxidized Cottonseed Oil, by H. Kaunitz, C. A. Slanetz, and R. E. Johnson, College of Physicians and Surgeons, Columbia University, New York, N. Y., and H. B. Knight, R. E. Koos, and Daniel Swern, ERRL, Philadelphia, Pa..... 9:00
42. Stabilization of Carcass Fats by Addition of Antioxidants to the Rations of Chicks, by W. R. Lewis and D. C. Shelton, West Virginia University, Morgantown, W. Va. 9:20
43. Further Studies on the Optimum Ratio of Saturated to Monounsaturated Fatty Acids in Rat Diets, by T. K. Murray, J. L. Beare, J. A. Campbell, and C. Y. Hopkins, Department of National Health and Welfare, Ottawa 9:40
44. Application of Methods for Extraction and Determination of Polyunsaturated Fatty Acids to Small Amounts of Plasma or Other Tissues, by S. G. Morris and R. W. Riemenschneider, ERRL, and J. D. Evans, School of Medicine, Temple University, Philadelphia, Pa. 10:00
45. Fractionation and Fatty Acid Analysis of Component Lipides from Tissues, by F. E. Luddy, R. A. Barford, and R. W. Riemenschneider, ERRL, and J. D. Evans, Temple University, Philadelphia, Pa..... 10:20
46. A Modified Indophenol-Xylene Extraction Method for the Determination of Ascorbic Acid in Soybeans, by F. B. Weakley and L. L. McKinney, NURDD, Peoria, Ill. 10:40
47. Nature of Carbonyl Compounds Obtained from Gamma-Irradiated Meat Fats, by L. A. Witting and B. S. Schweigert, American Meat Institute Foundation, Chicago, Ill. 11:00
48. Comparative Study of Wheat Flour Phospholipides, by L. H. Mason and A. E. Johnston, NURDD, Peoria, Ill. 11:20

Afternoon

BUSINESS MEETING of the Society..... 2:00

GENERAL SESSION

49. Quality Improvement in Inedible Tallow and Grease, by D. S. Austin, Procter and Gamble Company, Cincinnati, O. 2:20
50. Oxidation of Some Active Methylene Groups in Unsaturated Fatty Acids, by B. M. Craig, K. E. Bharucha, A. J. Porck, and P. J. Barry, Prairie Regional Laboratory, Saskatoon, Sask. 2:40
51. Reactions of Unsaturated Fatty Alcohols. V. Preparation and Properties of Some Copolymers of Unsaturated Fatty Vinyl Ethers with Lower Alkyl Vinyl Ethers, by L. E. Gast, W. J. Schneider, J. L. O'Donnell, J. C. Cowan, and H. M. Teeter, NURDD, Peoria, Ill. 3.00
52. Reactions of Unsaturated Fatty Alcohols. IV. Oxidative Degradation of Lauryl Isopropyl Ether, by L. E. Gast, C. B. Coleman, and H. M. Teeter, NURDD, Peoria, Ill. 3:20
53. Reserved for winning Fatty Acid Award paper..... 3:40

W. S. Singleton

L. L. McKinney

H. J. Harwood

G. Y. Brokaw

Committee meetings to be held during the Cincinnati convention include the Governing Board and Color on Sunday afternoon; Peroxide and Drying Oil subcommittees, Soapstock Analysis, Uniform Methods, Statistical, Soap and Detergent Analysis, Spectroscopy, Refining, Technical Safety on Monday; and Journal, Advertising, and Crude Fiber subcommittee on Tuesday.

A plant recently constructed at Ruhle, Germany, to produce plasticizers and synthetic resins will be operated by Scado-Archer-Daniels GmbH and Company, which is owned by ARCHER-DANIELS-MIDLAND in partnership with German and Netherlands interests.

❖

HEYDEN NEWPORT CHEMICAL CORPORATION is constructing a new plant at Pensacola, Fla., to produce terpene alcohol esters.

Schedule Tall Oil Papers

A symposium on tall oil will be presented at the Memphis, Tenn., meeting of the American Oil Chemists' Society April 21–23, 1958, at the Peabody hotel, according to S. J. Rini, program chairman. Planning the symposium is J. P. Krumbein, of the Newport Industries Company, Pensacola, Fla.

Members are invited to participate in this symposium, Mr. Krumbein indicates, and abstracts of papers should be submitted by November 1, 1957. His post office address is Drawer 911.

Committee Gets Replacement

H. M. Smith, Southern Cotton Oil Company, New Orleans, will replace H. D. Royce on the Metals subcommittee of the Fat Analysis Committee, according to V. C. Mehlenbacher, chairman, and H. C. Black, president of the American Oil Chemists' Society.

In September 1922

H. S. Bailey's editorial on "Moonshines and Monkeyshines" urges struggling chemists not to succumb to the temptation of accepting bribes to allow alcohol on the market in the guise of medicines.

❖

Tentative test results showing that there is no advantage to be found in using paddles with inclined blades over those with straight blades were announced by W. G. McLeod, chairman, in the report of the Corn Oil Refining Committee.

❖

David Wesson, chairman of the Referee Examining Board, announced the certification rules, stressing that the laboratory must be independent, product analyses must be submitted, and certification would be to laboratories not to individuals.

New Members

Active

George V. Branigan, vice president, Ungerer and Company, New York, N. Y.
B. D. Brock, branch manager, Barrow-Agee Laboratories of Mississippi Inc., Greenwood, Miss.
Martin Chanin, research chemist, HumKo Company, Memphis, Tenn.
Jean Labarrere, research fellow, Hormel Institute, University of Minnesota, Austin, Minn.
Leonard L. McKinney, chemist, Northern Utilization Research and Development Division, Peoria, Ill.
Billy Austin Presson, chemical engineer. C. & T. Refinery Inc., Charlotte, N. C.
George C. Reid, section leader, Central Control Laboratory, Spencer Kellogg and Sons Inc., Buffalo, N. Y.
Leslie C. Wizemann, manager, detergent sales, National Aniline Division, Allied Chemical Dye Corporation, New York, N. Y.
Mark W. Westgate, technical director, Gardner Laboratory Inc., Bethesda, Md.

Student

Edwin Joseph Kuta, research assistant and graduate student, Purdue University, West Lafayette, Ind.
Edward Perkins, graduate student, University of Illinois, Urbana, Ill.

Individual Associate

Forrest L. DeVore, research chemist, Edible Fats and Oils Division, Swift and Company, Chicago, Ill.

Offer Journal in Microcard Edition

Volumes 1–23, 1924–46, of the Journal of the American Oil Chemists' Society are now available in a Microcard edition from J. S. Canner and Company, 46 Millmont street, Boston, Mass. The price is $225 for the 23-volume file.

Becomes Consultant

R. R. King, for 21 years with Mrs. Tucker's Foods and its successor, Foods Division of Anderson, Clayton and Company, Sherman, Tex., has set up a consulting engineering firm in Sherman. He has been a member of the American Oil Chemists' Society since 1936 and was president in 1945–46.

He has been a registered professional engineer in Texas for many years and served on the state board of directors of the Texas Society of Professional Engineers in 1946–48. He was formerly technical director for the Sherman firm.

Meetings

San Francisco, Calif., will be the site on October 3–4, 1957, of the 10th annual national convention of the Quartermaster Association, according to A. L. Bivens, president of the Northern California chapter.

❖

"Engineering and Scientific Education—Foundation of National Strength" is the theme of a national conference to be held October 31–November 2, 1957, at the Edgewater Beach Hotel, Chicago, under the sponsorship of the Engineers Joint Council, the Scientific Manpower Commission, the National Science Foundation, and the National Research Council of National Academy of Sciences.

❖

An attendance of 650 scientists from more than 36 countries is expected at the 2nd world metallurgical congress, to be held in Chicago November 2–8, 1957, under the sponsorship of the American Society for Metals.

❖

The Canada-U. S. chemical engineering conference sponsored jointly by the American Institute of Chemical Engineers and the chemical engineering division of the Chemical Institute of Canada will be held April 20–23, 1958, in Montreal.

❖

The 35th annual meeting of the Federation of Paint and Varnish Production Clubs will be held October 30–November 2, 1957, at the Bellevue-Stratford hotel, Philadelphia, Pa.

❖

The 71st annual meeting of the Association of Official Agricultural Chemists, to be held October 15, 1957, in Washington, D. C., will include a symposium on microscopic-analytical methods for product control in the food and drug industries.

❖

The semi-annual meeting of the Glass Container Manufacturers Institute will be held at The Cavalier, Virginia Beach, Va., September 30–October 3, 1957.

❖

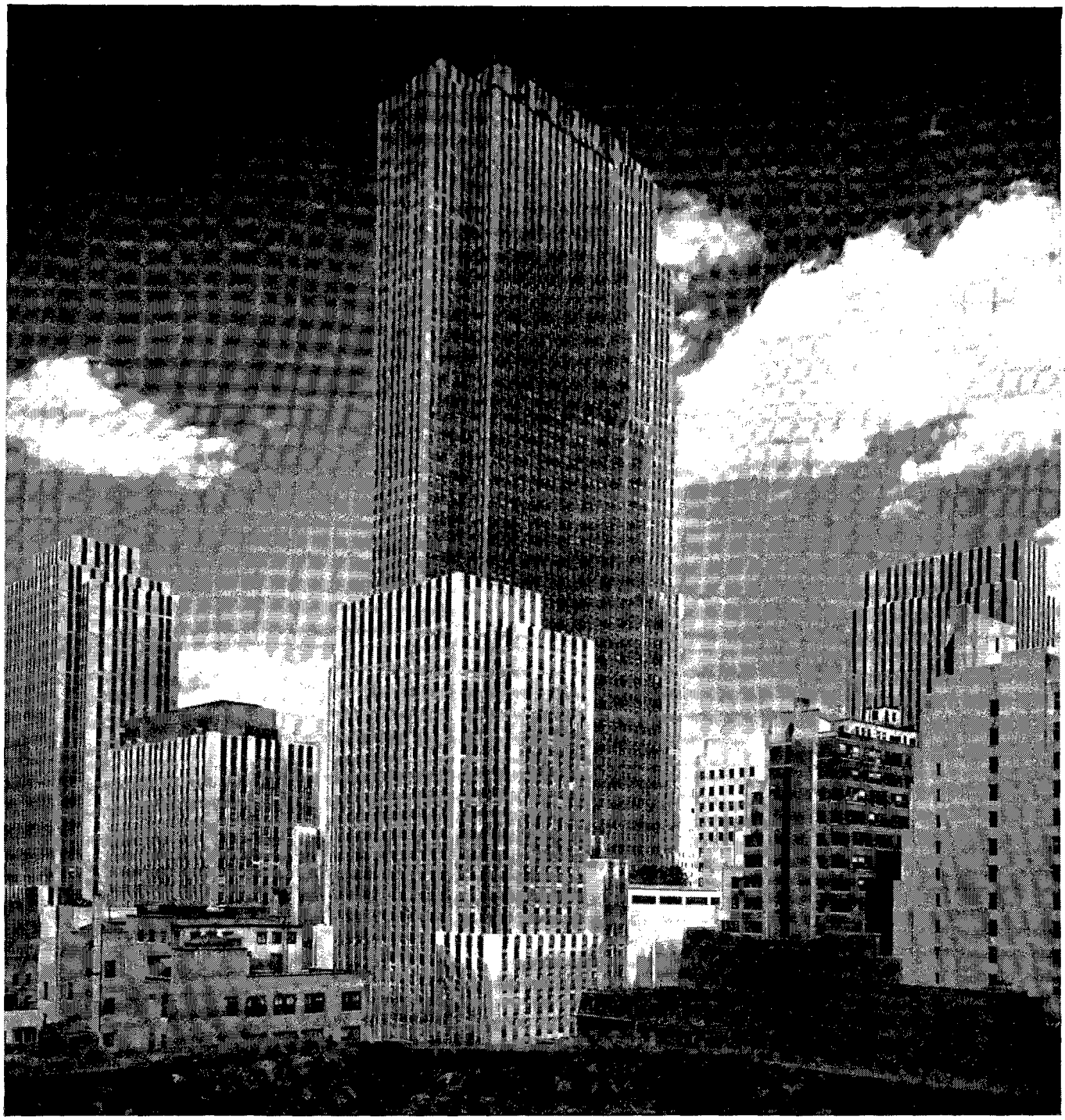
The 45th annual convention of the National Safety Council is arranged for October 21–25, 1957, at the Conrad Hilton hotel, Chicago, Ill.

❖

Regional meetings of the National Association of Corrosion Engineers have been scheduled as follows: October 1–4, 1957, North Central, Sherman hotel, Chicago, and South Central, Municipal auditorium, Oklahoma City; November 12–14, 1957, Northeast, Penn-Sheraton hotel, Pittsburgh; and November 13–16, Key Biscayne hotel, Key Biscayne, Fla.

❖

The 26th Exposition of Chemical Industries, December 2-6, 1957, will occupy all of the Coliseum in New York.



ROCKEFELLER CENTER, in the heart of the world's largest city, has achieved world-wide fame as a major tourist attraction.

Rockefeller Center continues to draw more and more world attention as an outstanding example of modern skyscraper construction. The same expanding recognition is won in industry by Esso Hexane, a reputation achieved by continuing excellence of product character and quality. Next time you order, specify Esso Hexane for your processing and chemical requirements, backed by years of research and product improvement.

ESSO

PETROLEUM SOLVENTS

RESEARCH AND EXPERIENCE DEVELOPED THE FINE CHARACTER OF ESSO HEXANE

New Books

A GUIDE TO THE LITERATURE OF CHEMISTRY, 2nd ed., by E. J. Crane, Austin M. Patterson, and Eleanor B. Marr (John Wiley and Sons Inc., New York, 397 pp., $9.50). The book, revised primarily by Dr. Marr, brings up to date and extends the information of the first edition, which was published 30 years ago. Through experience and professional activities the authors are ideally qualified to treat the subject matter.

In general, the book follows the plan of the first edition with the adjustments necessitated by the changes and needs that have developed in the years following the appearance of the first edition. There are chapters on problems and objectives, books, periodicals, patents, government publications, trade literature, and other miscellaneous sources of information. The appendix contains lists of communications relating to chemical literature; data on chemical symbols, abbreviations, and standards; lists of outstanding scientific libraries in the U.S.A. and Canada; a bibliography of periodicals; names of scientific and technical organizations, of periodicals of chemical interest, and of dealers and publishers.

The book should be outstanding as a reference text for a course in the literature of chemistry. It is equally valuable to any chemist as a guide to obtaining various publications and patents, efficient literature-searching, and the importance of the various sources and types of literature.

I consider this a personal handbook for literature searching rather than a mere textbook or library-reference item.

M. M. PISKUR
Swift and Company
Chicago, Ill.

AUTOMATION: ITS PURPOSE AND FUTURE, by Magnus Pyke (Philosophical Library, 191 pp., 1957, $10). Dr. Pyke reviews some of the new things that are already being done automatically. He describes the principles of the digital computer and the way in which it was developed. He gives

an account of "automation" in the mass production industries and shows how the new computers can be used to make special machine tools. He presents the picture of the rapid onrush of automatic systems in offices, banks, and insurance companies. The author discusses the present importance of automation in the petroleum industry and its appearance in the chemical manufacturing industry. He predicts that, in the future, transportation, food production, and the housewife's shopping may all be revolutionized by automation of these various services.

Perhaps the most important part of the book is that in which the author discusses the factors effecting the speed with which "automation" is likely to spread in different countries. Dr. Pyke is an Englishman, and part of the book is devoted to contrasting the operations of British industry to that of the United States.

Dr. Pyke is optimistic about the social effect of the new revolution. He sees signs that where "automation" is farthest advanced, the intelligent use of leisure is growing. High wages are a spur to bring automation sooner, a reward for the high productivity it can give and a necessity to enable people to buy the goods the factories produce.

This book should be required reading for all those engaged in the present study known as Operations Research. This book ought also to be of great interest to the engineers, technicians, and laymen who are concerned with the automation of various industrial processes today. The book is not highly technical in nature and hence can be readily understood by people in all walks of life. His predictions about the future use of automation are both interesting and challenging.

Although this book is refreshing and thought-provoking, it appears to be priced above similar technical books.

NOEL W. MYERS
A. E. Staley Manufacturing Company
Decatur, Ill.

TECHNIQUE OF ORGANIC CHEMISTRY, vol. II, 2nd ed., Catalytic, Photochemical, and Electrolytic Reactions, edited by Arnold Weissberger (Interscience Publishers Inc., New York, 1956, 556 pp., including index and foreword, $11.50). Chapters and authors in this second edition are as follows: Catalytic Reactions, by V. I. Komarewsky, C. H. Riesz, and F. L. Morritz; Photochemical Reactions, by C. R. Masson, V. Boekelheide, and W. Albert Noyes Jr.; and Electrolytic Reactions, by Sherlock Swann Jr.

All chapters have been expanded to include new materials; for example, the chapter on catalytic reactions has been expanded from 78 to 255 pages. Twelve of these pages are an expansion of instrumentation and equipment; the remainder cover the specific catalytic reactions such as hydrogenation, dehydrogenation, oxidation, hydration, dehydration, isomerization, polymerization, condensation, alkylation, etc.

Instrumentation and equipment on photochemical reactions have been expanded about 13 pages, and the reactions about 42 pages. Reactions include behavior of organic compounds on irradiation and chain reactions initiated by light. With electrolytic reactions, instrumentation and procedure have not been revised much, but some 74 pages of tables on coupling, oxidation, reduction, and electrolytic halogen and cyanogen have been added.

This edition has extensive references to the literature, with a total of 1,531 specific references to literature plus general references to books. It has a good but short index, with extensive tables of contents. Some searching is needed to find specifically what is desired.

This book is recommended to all organic chemists interested in any of these types of reactions and to chemists conducting research on the modification of vegetable oils. The print is readable, and the authors are to be commended for their fine work.

J. C. COWAN
Northern Utilization Research and Development Division
Peoria, Ill.

...when you filter with CELITE

THE FLOOD of new brands in the liquid soap and detergent field has made shoppers more selective than ever before. A cloudy product loses out when there's a sparkling clear one on the shelf beside it. And, chances are the ones that sparkle brightest have been filtered with Celite* diatomite filter aids.

Celite provides its exceptional clarity by means of a filter cake that is hundreds of times finer than the finest wire mesh. Yet, there are 2,500,000 filter channels in each square inch to give the fastest flow rates with any standard filter. Operation is automatic and economical.

Many manufacturers are using Celite today for filtering soaps and detergents which are in a liquid state at some stage. Many ingredients for these products, as well as other fats and oils, can also be successfully clarified with one of Celite's nine grades. Call a Celite engineer for further information or write Johns-Manville, Box 14, New York 16, N. Y. In Canada, 565 Lakeshore Road East, Port Credit, Ontario.

*Celite is Johns-Manville's registered trade mark for its diatomaceous silica products

JOHNS-MANVILLE JM PRODUCTS

Johns-Manville CELITE FILTER AIDS

Analytical and Consulting Laboratories

BARROW-AGEE LABORATORIES, INC.
Analytical and Consulting CHEMISTS
INDUSTRIAL RESEARCH
Main Offices and Laboratories, MEMPHIS, TENNESSEE
Other Laboratories Shreveport, La. Jackson and Leland, Miss. Decatur, Ala. Cairo, Ill. Chattanooga and Nashville, Tenn. Little Rock, Ark.

Southwestern Laboratories
Consulting, Analytical Chemists and Chemical Engineers
1212 OAK LAWN BOX 1618 DALLAS 1, TEX.

F. B. PORTER, B.S., Ch.E., President
C. L. MANNING, A.B., Vice President
The Fort Worth Laboratories
Consulting Analytical Chemists and Chemical Engineers
2900 Cullen P. O. Box 1379 Fort Worth, Tex.

F. R. ROBERTSON, Ph.C.
A. H. PRESTON, B.S. O. M. BAKKE, B.Sc.
Established 1904
HOUSTON LABORATORIES
Analytical and Consulting Chemists
311 Chenevert Street P. O. Box 132 Houston, Texas

LAW & COMPANY
Consulting and Analytical
CHEMISTS
Atlanta, Ga. Montgomery, Ala. Wilmington, N. C.

ANALYSES
FATS, OILS, INSECTICIDES—GLYCERINE, SOAPS
SYNDETS
Available on Request:
Price List for Fat and Oil Determinations
Booklets on Bacteriology and Toxicology
Attention Dept. RLM
SNELL FOSTER D. SNELL, INC. Chemists • Engineers
29 West 15th St., New York 11, N. Y.

THE POPE TESTING LABORATORIES
Analytical Chemists
2618½ Main P. O. Box 903 Dallas, Tex.

PAUL D. CRETIEN, PRESIDENT
Texas Testing Laboratories, Inc.
CHEMISTS AND ENGINEERS
Laboratories:
Dallas, Lubbock, San Antonio, and El Paso, Texas

HAHN LABORATORIES
Consulting and Analytical Chemists
1111 Flora St. P. O. Box 1163 Columbia, S. C.

PATTISON'S
Southwest Laboratories
ANALYTICAL AND CONSULTING CHEMISTS
211 E. Monroe St., P. O. Box 346, Harlingen, Texas

AMERICAN OIL CHEMISTS' SOCIETY
35 East Wacker Drive Chicago 1, Illinois

Official Methods

1952 reprinting of 1946 edition (including Annual Revisions), 6 x 9 in., looseleaf, with binder.....$14.50

Methods only, $10; binder only $4.50; 1947, 1948, and 1950 Revisions, $1 ea.; 1949 Revisions, $1.50 ea.; 1951 Revisions, $1.25 ea.; 1952 Revisions, $1.50 ea.; 1953 Revisions, $1.25 ea.; 1954 Revisions, $1.50 ea.; 1955 Revisions, $2.75 ea.; 1956 Revisions, $2.25 ea. Postpaid.

Please send remittance with Methods order.

Official Supplies

Official Natural Bleaching Earth	4 lb. can	$1.50
Official Activated Bleaching Earth	Approx. 3¾ lb. can	2.50
Official Diatomaceous Earth	1 lb. can	1.00
Aluminum Moisture Dishes	each	.12
100 for		8.00
Standard Salt Crude Glycerin		3.00

(F. O. B. Chicago)

~

Send Supplies Orders direct to the A. S. LaPine Company, 6001 S. Knox Avenue, Chicago 29, Ill. (Do *not* send remittance with supplies order.)

It is requested that no order be placed for less than $5 worth of merchandise, if possible.