

## Announce Short Course For August 1-5, 1955

A SHORT COURSE will be held in 1955, according to G. A. Crapple, chairman of the Education Committee of the American Oil Chemists' Society, and the tentative subject will be Analytical Techniques as Applied to Control and Research in the Oil and Fat Industry. The course will be conducted on the University of Illinois campus, August 1-5, with Prof. R. K. Newton of the Extension division as local chairman. Program consultant will be V. C. Mehlenbacher of Swift and Company, Chicago.



G. A. Crapple

All inquiries about the course should be sent to the national office of the Society at 35 E. Wacker drive, Chicago 1. Information about fees and other details will be available soon.

Recently named manager of the GEIGY CHEMICAL CORPORATION plant at Cranston, R. I., Rolf Bernegger will continue to act as head of the plant's production department.

## Receive Grant and Fellowships

A \$12,000 GRANT to the Kansas State College engineering experiment station from the National Science Foundation has been announced by Dean M. A. Durland, director of the experiment station. The grant is to be used for a research project entitled "Effect of Sonic Vibration on the Rates of Mass Transfer," directed by Raymond C. Hall, of the department of chemical engineering, who has done considerable work on the effect of sound vibrations on the rates of chemical change. It is the second grant to be received by the engineering experiment station from the National Science Foundation in the past year.

The Institute of Food Technologists, Chicago, Ill., has been awarded by General Foods Fund Inc. three new fellowships valued at \$4,000 each for graduate students demonstrating outstanding ability in food technology. The fellowships will be available for the academic year 1956-57, and three such awards will be made each year thereafter. Previous announcements have been made of one fellowship for the year 1954-55 and two for 1955-56, also from General Foods Fund Inc.

Promotions at the DOW CHEMICAL COMPANY, Midland, Mich., include William H. Schuette, to assistant to the general manager of the Midland division, and Max Key, to manager of the plastics production department.

### A.O.C.S. CALENDAR

1955

Spring Meeting: Roosevelt Hotel, Apr. 18-20, New Orleans

Fall Meeting: Bellevue-Stratford Hotel, Oct. 10-12, Philadelphia

1956

Spring Meeting: Houston

Fall Meeting: Sherman Hotel, Sept. 23-26, Chicago

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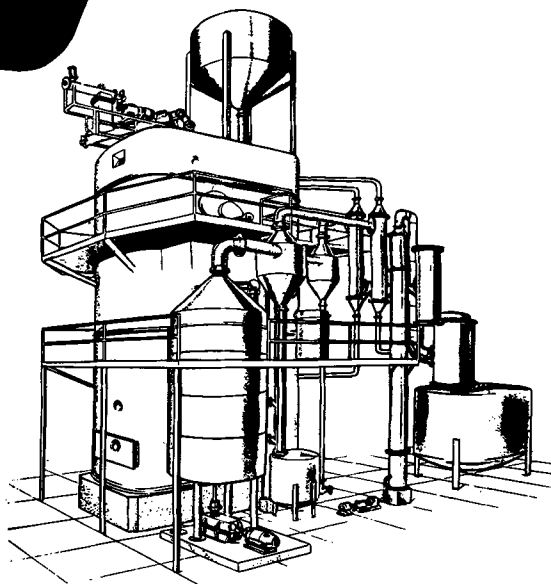
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## New Literature

Special jubilee news-letter No. 115 from the Intersociety Color Council, Color Control Division of Eastman Kodak Company, Rochester, N. Y., contains a progress report on "The Color of Oil," by Procter Thomson of Procter and Gamble Company, Cincinnati, O.

A "Bulk Chemicals" supplement released by Fisher Scientific Company, Pittsburgh, Pa., announces that Fisher reagents are now available in 100- to 600-lb. drums. The latest issue of The Laboratory, a Fisher publication, features an article on the "Hydrocarbon Supreme Court" housed at the Carnegie Institute of Technology, Pittsburgh.

Bulletin No. 21 from Arthur H. Thomas Company, Philadelphia, Pa., describes a diffraction-grating type colorimeter for spectrophotometric scanning at controlled temperatures.

An article in a recent edition of Heat Engineering, a publication of Foster Wheeler Corporation, New York, N. Y., and a special 16-page pictorial brochure are devoted to the first refinery built in the Philippines. It was constructed by Foster Wheeler for the California Texas Oil Company.

The anniversary edition of Instrument News, marking five years of publication by the Perkin-Elmer Corporation, Norwalk, Conn., featured an article on the purchase of a German instrument plant by the company.

A revised catalog, "Products of the Dow Chemical Company," provides an alphabetical listing of Dow chemicals and is available from the company's technical service and development department at Midland, Mich.

A 24-page descriptive booklet entitled "Battelle Research" has been published by the Battelle Memorial Institute, Columbus, O.

A new booklet, "Cellosolve and Carbitol Solvents," published by Carbide and Carbon Chemicals Company, a division of Union Carbide and Carbon Corporation, New York, N. Y., describes in detail the nine commercial glycol-ethers sold by the company.

## New Members

### Active

Walter A. Bastedo, commercial development, Chas. Pfizer and Company Inc., Brooklyn, N. Y.  
 Jacques Bergeron, assistant to the European technical manager, Colgate-Palmolive S.A., Courbevoie (Seine), France  
 Charles H. Bryant, president, Charles H. Bryant Inc., Philadelphia, Pa.  
 Gamaniel Chumbes Chavez, chemist, Companhia Mogiana de Oleos Vegetais, Orlandia, Sao Paulo, Brazil  
 George Walter Halek, chemist, Colgate-Palmolive Company, Jersey City, N. J.  
 Roger Latour, European technical manager, Colgate-Palmolive S.A., Courbevoie (Seine), France  
 Nissan Tibor Rand, graduate assistant (fellow), University of Illinois, Department of Food Technology, Urbana, Ill.  
 Lars Willberg, technical manager, Oy Kasvioljy-Vaxtolje AB., Raisio, Finland

### Corporation Associate

Oy Kasvioljy-Vaxtolje AB., Bengt Ottershinn, representative, Raisio, Finland

## Fatty Acids Rise

PRODUCTION of fatty acids in November 1954 totalled 34.7 million lbs., 6.8% above that of the October level and 1.8% above the production of November 1953, according to the Association of American Soap and Glycerine Producers Inc. Total disposition was 33.5 million lbs., some 0.9 million lbs. below the October figures, and approximately 0.5 million above the November 1953 level. Stocks, including work in process, increased to a level of 46.2 million lbs.

The new manager of the project department of the chemical division of KOPPERS COMPANY INC., Pittsburgh, Pa., is Frank B. Varga, who has been associated with the company for 20 years.

## Establishes Tropical Test Station

Charles B. de Maya has established Sun Tests Unlimited Inc. at Sarasota, Fla., a tropical testing laboratory specializing in sunlight and weathering tests and natural field storage. The laboratory is equipped to test foods, paints, textiles, plastics, and wood products.

## Gudheim Affiliates

Arne R. Gudheim, of Petersham, Mass., has incorporated and affiliated his consulting and process equipment business, operated under the name Kontro Company, with Artisan Metal Products Inc., of Waltham, Mass. Laboratory facilities will be maintained at both Petersham and Waltham by the new company.

## Offers Circular

The National Bureau of Standards has announced publication of Circular 552, entitled "Standard Samples and Reference Standards Issued by the National Bureau of Standards." The 23-page circular contains a descriptive listing of the various standard samples issued by the bureau and is available from the Government Printing Office, Washington 25, D. C., for 25c.

## Samuel Mairs Dies

Samuel Mairs, chairman of the board at Archer-Daniels-Midland Company, died January 17, 1955, in Minneapolis.

The use of hydrogen peroxide vapor and means of vapor generation are described in bulletin No. 62 from the Becco Chemical Division, Food Machinery and Chemical Corporation, Buffalo, N. Y.

## NOW AVAILABLE CUMULATIVE 35-year INDEX

of

Chemists' Section, Cotton Oil Press,  
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Journal of the Oil and Fat Industries,  
1924-32

Oil & Soap, 1932-47

Journal of the American Oil Chemists'  
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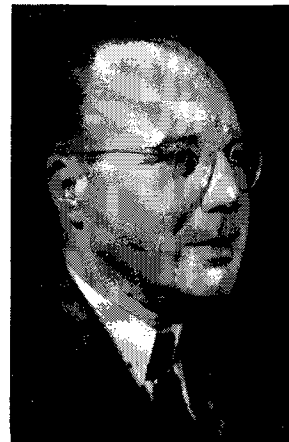
## Name Candidates for 1955-56 Term of Office

THE ELECTION BALLOT for voting by mail on candidates for office in 1955-56 was sent out on January 24, 1955, by the Nominating and Election Committee of the American Oil Chemists' Society, under the direction of H. C. Dormitzer, chairman. Assisting in preparing the slate were other members of the committee: LeRoy Dugan Jr., K. F. Mattil, R. H. Potts, and J. L. Schille.

President-elect is W. A. Peterson, assistant director, research and development department, Colgate-Palmolive Company, Jersey City, N. J., who has served as vice president and membership chairman in 1954-55 and, according to the Society by-laws, becomes president.

Candidates for the office of vice president are T. H. Hopper and J. C. Konen. The former is head of the Analytical, Physical-Chemical, and Physics Section, Southern Regional Research Laboratory, New Orleans. The latter is assistant vice president and research director of Archer-Daniels-Midland Company, Minneapolis.

Unopposed for election are the secretary, R. W. Bates, and the treasurer, A. F. Kapecki, both incumbent officers. Mr. Bates is a research and development chemist for Armour and



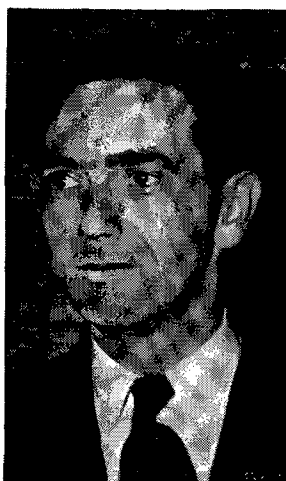
**W. A. Peterson**



**T. H. Hopper**



**J. C. Konen**



**R. W. Bates**



**A. F. Kapecki**



H. C. Black



H. D. Fincher



R. C. Stillman



N. D. Embree



J. J. Ganuchau



F. B. White

Company, Chicago, and Mr. Kapecki is secretary-treasurer of Wurster and Sanger International Inc. and secretary, Wurster and Sanger Inc., Chicago.

Three members-at-large are to be elected from a slate of six: H. C. Black, associate director of Swift and Company, Chicago; N. D. Embree, director of research, Distillation Products Industries, Division of Eastman Kodak Company, Rochester, N. Y.; H. D. Fincher, process engineer, oil mill department, Anderson, Clayton, and Company, Houston, Tex.; J. J. Ganuchau, district chemist, Southern Cotton Oil Company, Gretna, La.; R. C. Stillman, who is in charge of analytical

standards and factory service, Procter and Gamble Company, Cincinnati, O.; and F. B. White, chief industrial chemical engineer, Foster Wheeler Corporation, Process Plants division, New York.

Deadline for balloting will be March 21, and announcement of the results will be made at the annual meeting of the Society in New Orleans, April 18-20, 1955.

Serving with the new officers will be the four most recent living past presidents, making up a Governing Board of 11 members.

### A. O. C. S. Commentary

(Continued from page 4)

**Documentation.** In addition to being devoted to the examination of magazines and to the setting-up of index cards and files, this department informs heads of enterprises and their technicians not only about the result of the works carried out by the Institute but also about the latest progress realized in all parts of the world. This is why, in 1946, the Bulletin Mensuel d'Information de l'I.T.E.R.G. was created; this publication rapidly became increasingly important. This private bulletin was replaced later by a still more important publication: La Revue Française de Corps Gras. Let us here thank once more C. E. Morris, president of the American Oil Chemists' Society, for his encouragement, which he kindly sent when we started our new magazine in 1954.

**Teaching.** *L'Ecole Supérieure d'Application des Corps Gras.* We mentioned above that, from a chronological standpoint, technical training had been the first realization of the Institute. The training of specialized technicians imposed itself, and this was specially true in our country where schools for engineers provide an excellent syllabus as regards general knowledge but where the training given must be completed by advanced training schools.

The three-month cycle adopted initially has proved to be too short, and in 1952, when the I.T.E.R.G. finally possessed

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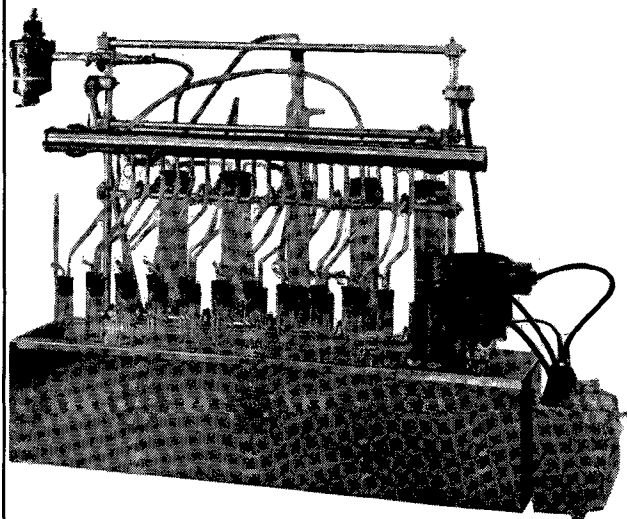






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The constant temperature bath consists of a stainless steel tank with  $\frac{1}{2}$ " of insulation surrounding four sides and bottom. A stainless steel test tube rack fits into the bath. A stainless steel shelf supports the thermoregulator and two 500 watt immersion heaters. Next to this shelf is a powerful circulating pump. All parts are readily removable for cleaning. The relay control box is mounted by a dovetail socket arrangement, and is removed by lifting.

The immersion heaters and circulating pump are of stainless steel and plated bronze, respectively. It should be noted that nowhere in the bath or air distributing system are copper or copper alloys used without being plated.

The relay is of the mercury plunger type. It operates on a central circuit current of 2 milliamperes at 110 volts A.C. The control box has four plugs, one for each of the two heaters, one for the pump, and one for the thermoregulator. When assembling the unit for operation, it is only necessary to plug in these units, then plug the relay into the line. Two switches are provided; one is an "On-Off" switch and the other is a "Hi-Lo" switch enabling the operator to use either 1000 watts for quick heating or 250 watts for maintaining constant temperature. A pilot light signals use of the heaters.

The thermoregulator may be set at any temperature between  $-38$  and  $350$  degrees F. It is extremely sensitive to temperature changes, and operates within plus or minus  $0.05$  degrees F.

### AIR DISTRIBUTION SYSTEM

The air distribution system consists, in part, of a stainless steel manifold, an air pressure regulator, a needle valve, pressure regulating columns, calibrated capillary tubes and the complete air purification train. Not furnished are a wet test meter for calibrating the system and a rotameter for checking the calibration. All parts of the air distribution system are mounted on a lattice support, and the complete system may be moved by merely disconnecting the capillary tubes.

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the indispensable material means, it created a real school, which has an autonomous life but which remains in close touch with the founding organism.

This Ecole Supérieure d'Application des Corps Gras, the Board of which is presided over by G. Wolff, member of the Research High Council, receives students already possessing their engineer's diploma. During a whole year the school orients these students towards the chemistry and technology of fatty substances, through tuition and conferences, practical laboratory exercises, and visits to manufacturing works.

The diploma delivered to the students having satisfied the final examinations is officially recognized by the National Ministry for Education. Since the founding of the Institut des Corps Gras, the advanced training cycles, and the Ecole Supérieure, which is an extension of the latter, have supplied some 200 highly qualified collaborators to the trade. The school is not concerned directly with the training of intermediate staff or with the upper training for labor but takes an interest in these questions from a material point of view.

THE Institut des Corps Gras and the Ecole Supérieure are grouped in the same premises, 5 Boulevard de la Tour Maubourg, in Paris. We have already had the great pleasure of entertaining American colleagues, and we shall always be very glad to receive those, who, when passing through Paris, honor us with a visit.

J. P. SISLEY  
Managing Director, I.T.E.R.G.  
and  
P. MERAT  
Principal, E.S.A.C.G.

## New Book

ORGANIC SYNTHESSES, Vol. 34, W. S. Johnson, editor (John Wiley and Sons Inc., 440 Fourth avenue, New York 16, N. Y., 1954, 121 pp., \$3.50). The same high standards and patterns found in earlier volumes of this series are maintained in this volume. Simple, specific directions which can easily be followed are given in adequate detail for all steps for 34 preparations. The procedures represent, as nearly as possible, the optimum conditions for the preparations and are checked not only by the submitter but by a reliable investigator in another laboratory. The range of yields obtained rather than the maximum yield obtainable is indicated, and the method of preparation or source of the reactants and the criteria of purity of the products are stated. All known methods of preparation of the compounds synthesized are given together with appropriate literature references. Great care is taken to indicate potential hazards.

The preparations selected have general interest or illustrate useful synthetic methods. It is noteworthy that about half of the preparations in this volume are based upon publications since 1950. Of particular interest to workers with fats and oils is the preparation of azelanitrile and *p*-tolylsulfonylmethylnitrosamide. The latter compound is a useful substance for the preparation of diazomethane and possesses properties which afford advantages over other nitroso compounds which have been used for the preparation of this compound. The scale of operations is generally such as to produce less than 100 g. of the desired product and ranges from about 10 g. to 400 g. Alternate procedures are given for the preparation of one compound, cycloheptanone. One method is scaled to produce about 110 g.; the other method, using diazomethane, is scaled to produce about 20 g. and is stated to be more convenient for the preparation of small quantities of cycloheptanone. The latter preparation, incidentally, serves to illustrate the use of *p*-tolylsulfonylmethylnitrosamide for the preparation of diazomethane.


The utility of this volume is greater than might be inferred from the number of preparations given. For example, notes indicate how the preparations can be scaled up or down, and details are given for the modification of the procedure of a particular preparation to the synthesis of related compounds. Thus in the preparation of 1,4-dinitrotoluene the notes indicate specific modifications to be introduced for the preparation of 1,6-dinitrobenzene, 1,3-dinitropropane, and 1,4-dinitropentane. Similarly, in the procedure for the preparation of azelanitrile (by reaction of azelaic acid with ammonia at  $500^{\circ}\text{C}$ . in the presence of silica gel) the notes state that this illustrates a general method for the preparation of nitriles from monocarboxylic and dicarboxylic acids.

A cumulative index comprising material from Volumes 30, 31, 32, 33, and 34 is included. The format, paper, binding, and typography are excellent. The only typographical error

noted was the unfortunate omission of one of the valence bonds from the structural formula of  $\beta$ -naphthol on page 8. This volume is a necessary addition to the library of any organic research laboratory, and every practicing organic chemist will want a copy. Detailed procedures are given for the following 33 compounds:

2-*p*-acetylphenylhydroquinone  
 azelanitrile  
 $\beta$ -(*o*-carboxyphenyl) propionic acid  
 cetylmalonic ester  
 2-chloro-1,1,2-trifluoroethyl ethyl ether  
 cycloheptanone  
 di-*tert*-butyl malonate  
 3,4-dihydro-2-methoxy-4-methyl-2H-pyran  
 9,10-dihydrophenanthrene  
*p,p'*-dinitrobenzyl  
 1,4-dinitrobutane  
 dimethylfurazan  
 diphenylacetylene  
 diphenyl succinate  
 diphenylsuccinate  
 ethoxyacetylene  
 ethyl chlorofluoroacetate  
 ethyl enanthylsuccinate  
 ethyl  $\beta,\beta$ -pentamethyleneglycidate  
 heminellitene  
*o*-methylbenzyl alcohol  
 2-methylbenzyl dimethylamine  
 N-methyl-1,2-diphenylethylamine and hydrochloride  
 methylisourea hydrochloride  
 3-methyl-1,5-pentenediol  
 3-methylthiophene  
 phenanthrenequinone  
 1-phenylpiperidine  
*o*-phthalaldehyde  
 sodium  $\beta$ -styrenesulfonate and  $\beta$ -styrenesulfonyl chloride  
 tetralin hydroperoxide  
*p*-toluenesulfonyl chloride  
*p*-tolylsulfonylmethylnitrosamide  
*o*-xylylene dibromide

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## Appointments

Richard C. Fenton has been elected vice president by CHARLES PFIZER AND COMPANY INC., Brooklyn, N. Y. Two new representatives of the chemical sales division in the New York metropolitan area are Carl W. Lorentzen and Daniel V. Reidy. Robert E. Derges will represent the division in Chicago.

C. L. Wrenshall, associate director of the technical service department at Pfizer, is serving as chairman of the task group on vitamins for the Research and Development Associates, Food and Container Institute. He has also been named by the Quartermaster General as a member of the Research and Development Advisory Committee on Quartermaster Food and Container Items.



Formerly assistant treasurer of the company, Eugene E. Rhodes is now acting manager of the soybean division of A. E. STALEY MANUFACTURING COMPANY, Decatur, Ill.



A new district sales manager of the chemical division of GENERAL MILLS INC., Jack H. Allderice has been transferred to the company's New York office.



S. Sydney Minault has been appointed general manager of the equipment division by the NATIONAL RESEARCH CORPORATION, Cambridge, Mass.



A new staff member at the SOUTHERN UTILIZATION RESEARCH BRANCH of the U.S.D.A. Agricultural Research Service, New Orleans, La., Gilbert E. Goheen, will act as assistant chief of the branch.



The appointment of H. D. McGowan as assistant director of market development at STAUFFER CHEMICAL COMPANY has been announced by Hans Stauffer, president.



The new west coast representative of chemical sales for Barrett division, ALLIED CHEMICAL AND DYE CORPORATION, is Edward M. Lemon, who has been transferred from the St. Louis office of the company to the Los Angeles office.



Consultant chemist David Edmond is now associated with JEAN E. HANACHE, consultant food chemist and technologist, Jamaica, N. Y.



Announcement is made by E. F. HOUGHTON AND COMPANY, Philadelphia, Pa., of the appointment of Kurt C. Frisch as assistant manager of research.



A newly created position of director of overseas operations at PROCTER AND GAMBLE COMPANY, Cincinnati, O., will be filled March 15 by Donald H. Robinson.



Technical representative Ben H. Loper, of the refinery chemicals department of AMERICAN CYANAMID COMPANY, New York, N. Y., has been transferred to Houston, Tex., to cover the territories handled by the Houston, Tulsa, and Los Angeles sales offices of the company.



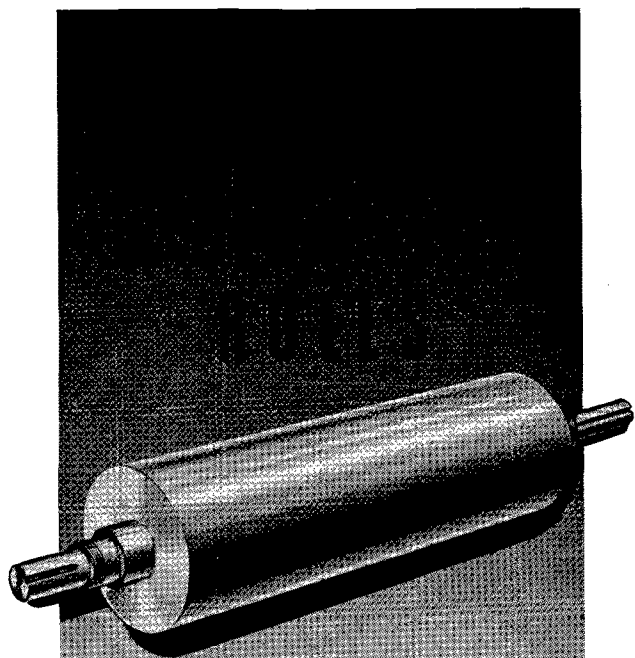
Recently appointed assistant vice president in charge of the vitamin division of NOPCO CHEMICAL COMPANY, Harrison, N. J., Harold A. Swanson has been succeeded by Travin V. Rankin as general sales manager in charge of all Nopco products at the Pacific division.



The election of Thomas M. O'Neil as a director and vice president in charge of marketing at Nuodex Products Company Inc., wholly owned subsidiary of HEYDEN CHEMICAL CORPORATION, has been announced by Arthur Minich, executive vice president of Nuodex.



In the calcium and silicate sections of the silicate, detergent, calcium division of DIAMOND ALKALI COMPANY, Cleveland, O., Clyde B. Myers has been named manager of research and development and Joseph C. Noyes Jr., manager of technical service, following the retirement of Walter C. Bates.

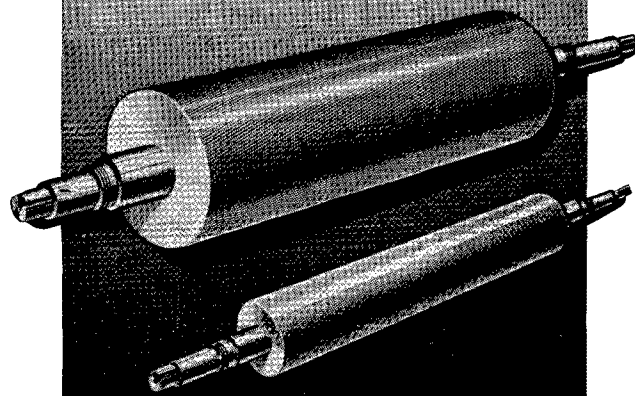


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## Other Associations

New officers of the Society of Cosmetic Chemists are: president, Kenneth L. Russell, of the Colgate-Palmolive Company; president-elect, George G. Kolar, of Kolar Laboratories Inc.; treasurer, Walter A. Taylor, of Pond's Extract Company; and secretary, Robert A. Kramer, of Evans Research and Development Corporation. New members of the board of directors are Gabriel Barnett, of Warner-Hudnut, and Phyllis J. Carter, of Atlas Powder Company.

William A. Poucher, chief perfumer and technical advisor of Yardley's of London, is the recipient of the annual medal award for 1954 presented by the Society of Cosmetic Chemists.



The annual mid-winter conferences of the chemical and allied products buyers' group of the National Association of Purchasing Agents were held at the Palmer House, Chicago, Ill., on January 18, 1955, and the program was repeated at the Hotel Commodore, New York, on January 25.

## Meetings

The program has been announced for the fifth divisional conference of the Chemical Engineering Division, The Chemical Institute of Canada, to be held in Ottawa, Ont., March 7-9, 1955. In addition to two general sessions there will be one on drying and one on atomic energy, followed by a day devoted to plant visits.



The fourth session of the Chemical Industries Committee of the International Labor Organization, to be held in Geneva, Switzerland, February 7-19, 1955, will feature reports on productivity and on safety. Joining representatives of 13 European countries will be men from the United States, Canada, Mexico, South America, India, Israel, and Japan. The International Labor Organization is a specialized agency of the United Nations through which employer, worker, and government work out solutions to the world's labor and manpower problems.



The 1955 conference and exhibition of the National Association of Corrosion Engineers will be held March 7-11 at the Palmer House, Chicago, Ill. Progress reports or symposiums will be presented by Group Committee T-1 on corrosion of oil and gas well equipment; Unit Committee T-3F on corrosion by high purity water; Technical Committee 2 on pipe line corrosion; and Committee T-6A on organic coatings and linings for resistance to chemical corrosion.



Fundamentals of corrosion are to be stressed during a three-day corrosion conference at the University of Tennessee, scheduled for March 1-3, 1955, according to the National Association of Corrosion Engineers.



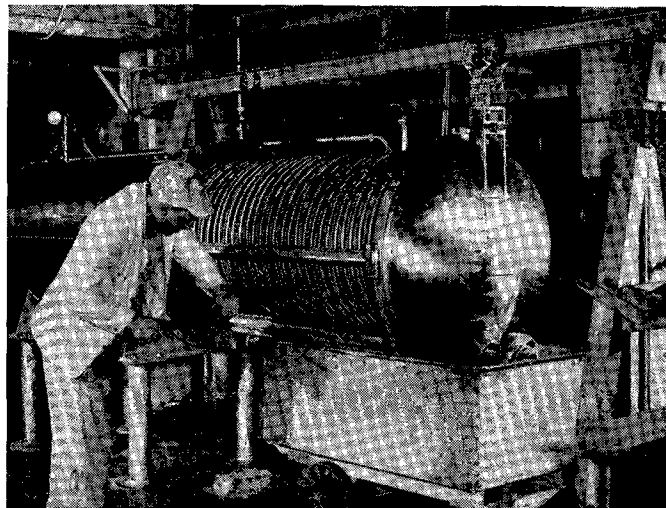
The 24th national packaging exposition of the American Management Association will be held April 18-21, 1955, at the International Amphitheatre, Chicago, Ill. Floor space has already been reserved for nearly 350 exhibits with increased emphasis this year on industrial packaging.



The Congress of the European Federation of Chemical Engineering will be held in connection withACHEMA XI at Frankfurt am Main, Germany, May 14-21, 1955. More than 750 manufacturers of plant machinery, equipment, and constructional materials for the chemical industry will exhibit in 13 halls. The European Convention of Chemical Technology, to be held at the same time, will include the congresses and meetings of European technical and scientific societies.

## Back Issues Needed

Readers of the Journal of the American Oil Chemists' Society who have back issues which they do not need are asked to sell or donate them to the national office of the Society at 35 E. Wacker drive, Chicago, Ill. Especially needed are February and March 1954 issues. Certain issues in 1950 are also lacking.



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