

in the presence of a catalyst at atmospheric pressure to produce fatty acids. The process gives an improved distribution of desirable high molecular weight fatty acids. When primary *n*-alkylbenzenes are used, the process is highly selective to acids of specific chain lengths to the near exclusion of low molecular weight, less desirable, fatty acids.

**SHORTENING FOR HIGHLY AERATED CREAMY FROSTINGS.** P. Seiden (Procter & Gamble). *U.S. 3,751,265*. The shortening comprises: (a) a liquid glyceride such as partially hydrogenated soybean oil, (b) propylene glycol monostearate, (c) partial esters of polyglycerol and (d) polyoxyethylene sorbitan tristearate.

**EXTRACTION OF UNSAPONIFIABLE FRACTIONS FROM NATURAL FATS.** A. Rancurel (Laboratoires Pharmascience). *U.S. 3,751,442*.

**CLEAR COOKING AND SALAD OILS HAVING HYPOCHOLESTEROLEMIC PROPERTIES.** B.A. Erickson (Procter & Gamble). *U.S. 3,751,569*. The oil is prepared by adding 0.5–10% (free sterol equivalent) of plant sterol monocarboxylic acid ester to clear, liquid base oil.

**PROCESS FOR ANTIOXIDATION AGAINST LIPID.** S. Maruyama and T. Wakayama (Kongo Yakuhin Kabushiki Kaisha). *U.S. 3,752,832*. Tocopherol and unsaponifiable matter from rice oil are combined to produce an antioxidant effect in lipids.

**CO-OXIDATION PROCESS FOR THE PRODUCTION OF SYNTHETIC FATTY ACIDS.** E.P. Kammann, Jr. (Emery Industries, Inc.). *U.S. 3,754,010*. Aliphatic monocarboxylic acids are obtained by the autoxidation of paraffin/olefin mixtures in the presence of a catalyst at atmospheric pressure. The process provided efficient oxidation of both the paraffin and the olefin at low temperatures while maintaining acceptable reaction rates and gives an improved distribution to a narrow range of preferred synthetic fatty acids.

**PLICATIC ACID ESTERS.** J. Howard and T.D. McIntosh (Rayonier Inc., Olympic Res. Div.). *U.S. 3,754,937*. The

use of alkyl and aryl esters of plicatic as antioxidants for fats and oils is disclosed.

**PREPARATION OF FATTY ACID ESTER MIXTURES ENRICHED IN UNSATURATES.** J.P. Hutchins (Procter & Gamble). *U.S. 3,755,335*. The process comprises transesterifying natural fats and oils with a lower alcohol and selectively extracting the unsaturated fatty acid esters with a two phase solvent system comprising a hydrocarbon and gamma-butyrolactone.

**METHOD OF SEPARATING FATTY ACIDS.** T.L. Blaney (Procter & Gamble). *U.S. 3,755,389*. A process for separating saturated fatty acids (predominantly palmitic and stearic) from unsaturated fatty acids (predominantly oleic) comprises the steps of dissolving the fatty acids in methyl formate, cooling the solution to 30F, and separating the crystallized fatty acids from the solution.

**PROCESS FOR CONTINUOUSLY SEPARATING GLYCERIDES.** A. Viarengo and R. Pasculli. *U.S. 3,755,390*. The process comprises providing a very dilute mixture of glycerides and solvent, cooling and filtering it, and separating the crystallized glycerides from the solvent. An apparatus for accomplishing the separation is also described.

## • Fatty Acid Derivatives

**REACTIONS OF ISOPROPENYL STEARATE WITH DIETHYL MALONATE, ACETOACETIC ESTER AND RELATED KETO ESTERS, ENOL ESTERS.** XVII. E.S. Rothman, G.G. Moore and S.S. Hecht (Eastern Regional Res. Lab., Philadelphia, Pa. 19118). *J. Org. Chem.* 38, 2540–3 (1973). The major product from the acid-catalyzed reaction of isopropenyl stearate with diethyl malonate is identified as the  $\alpha$ -pyrone, 6-ethoxy-3-hexadecyl-4-stearoyloxy-2H-pyran-2-one. Alcoholysis of the 6-alkoxy  $\alpha$ -pyrone proceeds unusually easily without requiring catalysis. Acetoacetic ester and 3-oxoglutarate esters react analogously with isopropenyl stearate to form  $\alpha$ -pyrones.

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## Call for Nominations Award in Lipid Chemistry

### Sponsored by Applied Science Laboratories

In April 1964 the Governing Board of the American Oil Chemists' Society established an Award in Lipid Chemistry under the sponsorship of the Applied Science Laboratories Inc., State College, Pa. Previous awards were presented as follows: Erich Baer, August 1964; Ernest Klenk, October 1965; H.E. Carter, October 1966; Sune Bergstrom, October 1967; Daniel Swern, October 1968; H.J. Dutton, October 1969; E.P. Kennedy, September 1970; E.S. Lutton, October 1971; A.T. James, September 1972; and F.D. Gunstone, September 1973.

The award consists of \$2500 accompanied by an appropriate certificate. It is now planned that the 11th award will be presented at the AOCS Fall Meeting in Philadelphia, September 29-October 3, 1974.

### Canvassing Committee Appointees

Policies and procedures governing the selection of award winners have been set by the AOCS Governing Board. An Award Nomination Canvassing Committee has been appointed. Members are: C.D. Evans, Chairman; C.W. Williams; D.L. Berner; G. Fuller; and R.J. Buswell. The function of this committee is to solicit nominations for the 11th award. Selection of the award winner will be made by the Award Committee whose membership will remain anonymous.

### Rules

The rules prescribe that nominees shall have been responsible for the accomplishment of original research in lipid chemistry and must have presented the results thereof through publication of technical papers of high quality. Preference will be given to individuals who are actively associated with research in lipid chemistry and who have made fundamental discoveries that affect a large segment of the lipid field. For award purposes, the term "lipid chemistry" is considered to embrace all aspects of the chemistry and biochemistry of fatty acids, of naturally occurring and synthetic compounds and derivatives of fatty acids, and of compounds that are related to fatty acids metabolically, or occur naturally in close association with fatty acids or derivatives thereof. The award will be made without regard for national origin, race, color, creed or sex.

Letters of nomination together with supporting documents must be submitted in octuplicate to C.D. Evans, Northern Regional Research Center, 1815 N. University, Peoria, Ill. 61604 before the deadline of April 1, 1974. The supporting documents shall consist of professional biographical data, including a summary of the nominee's research accomplishments, a list of his publications, the degrees he holds, together with the names of the granting institutions, and the positions held during his professional career. There is no requirement that either the nominator or the nominee be a member of the American Oil Chemists' Society. In addition, letters from at least three other scientists supporting the nomination must be submitted in octuplicate.

**Remember the DEADLINE, April 1, 1974**