

Meetings

CHICAGO 83



Chicago program announced

A tentative technical program of approximately 320 presentations in 49 sessions has been announced for the 1983 AOCS Annual Meeting by Program Chairman Timothy L. Mounts.

This 74th annual meeting

will be held May 8-12, 1983, at the Chicago Marriott Hotel in Chicago. More than 1,300 persons are expected to participate.

Speakers will be notified later as to the precise time of their presentation. This tentative program is

expected to be confirmed later, but some changes may be made if needed. Abstracts for the papers will be published in the April *JAOCs*, which will be distributed to all registrants at the meeting.

Placement Center

The 11th AOCS Placement Center is planned for the annual meeting to be held May 13 - 18, 1983, in the Chicago Marriott, Chicago, Illinois.

The center is designed to bring together employers and job applicants in the fields of fats, oils, lipids and other areas served by AOCS.

Applicants should submit resumes on the standardized form printed in this issue. Applicants who will be attending the meeting may request that their names and addresses be kept confidential. In such cases, the resumes are assigned code numbers and will be made available to employers without the names and addresses. Resumes of applicants who are unable to attend cannot be confidential.

Employers are asked to complete the standardized job description form printed in this issue. All forms will be posted in the placement center; if desired, a

coding system can be used to provide confidentiality. Employers who are unable to have interviewers attend are encouraged to send job listings.

The standardized forms of applicants and employers should be received at the AOCS, 508 S. Sixth St., Champaign, Illinois 61820, before April 15, 1983.

There is no charge to applicants who are AOCS members or to student nonmembers who register and submit applications before April 15; nonmembers registering by April 15 will be charged a \$10 fee. The cost of placement center registration to nonmembers at the meeting will be \$25. There is no charge to employers for listing available jobs. No one will be admitted into the placement center without a meeting registration badge.

Job applicants and employers' interviews should check in at the placement center for final instructions after registering for the meeting. □

Session Schedule

Monday, May 9, 1983

Morning

- A. Plant Lipids
- B. Dietary Factors Affecting Lipid Metabolism
- C. Emulsion and Microemulsions I
- D. Volatiles and Antioxidants
- E. Oilseed Processing 1983 – I
- F. Autoxidation I
- G. Chemical Synthesis

Afternoon

Special plenary session – Supelco-AOCS Research Award Acceptance Address

- H. Plant Lipids
- I. Dietary Proteins and Their Effect on Metabolism and Disease
- J. Emulsions and Microemulsion II
- K. Pricing Vegetable Oils and Fats
- L. Oilseed Processing 1983 – II
- M. Autoxidation II
- N. Pharmacological Role of Lipids I

Tuesday, May 10, 1983

Morning

- O. Enzymatic Reactions in Flavor Development I
- P. New Protein Sources I
- Q. Surfactants: Performance and Evaluation I
- R. Application of Supercritical Fluids I
- S. Operating Expertise in Oil Processing
- T. Developments in Silver Ion Chromatography
- U. Pharmacological Role of Lipids II

Afternoon

- V. Enzymatic Reactions in Flavor Development II
- W. New Protein Sources II
- X. Oilseed/Oil Processing Roundtable
- Y. Applications of Supercritical Fluids II

- Z. Surfactants: Performance and Evaluation II
- AA. Nutritional, Physiological and Biochemical Studies of Omega-3 Fatty Acids and Prostaglandins
- BB. Pharmacological Role of Lipids III
- CC. Tall Oil

Wednesday, May 11, 1983

Morning

- DD. Lipoproteins and Membranes
- EE. Protein Chemistry and Interactions
- FF. Surfactants: Surface Chemistry, Analysis and Environmental
- GG. Ralph Potts Memorial Symposium I
- HH. Lipid Methodology
- II. Petrochemical and Fuel Alternatives from Fats and Oils: Part A – Vegetable Oils as Fuel Alternatives
- JJ. General

Afternoon

- KK. Nutritional Biochemistry
 - LL. Protein Chemistry: Functionality and Processing Effects
 - MM. Ralph Potts Memorial Symposium II
 - NN. Hydrogenation
 - OO. Petrochemical and Fuel Alternatives from Fats and Oils: Part B – Vegetable Oil Carriers for Crop Production Chemicals
 - PP. Jojoba
- Poster Presentations

Thursday, May 12, 1983

Morning

- QQ. Fatty Acids in Metabolism
- RR. Extrusion Technology
- SS. Packaging
- TT. Processing – General
- UU. Animal Fats
- VV. Heated Fats



SESSION A – SYMPOSIUM: Plant Lipids

CHAIRPERSON: J.B. Ohlogge, Northern Regional Research Center, Peoria, IL

THE NATURE OF PLANT FATTY ACID SYNTHETASES.
P.K. Stumpf, University of California, Davis, CA.

BIOSYNTHESIS OF PHOSPHATIDYLGLYCEROL IN CHLOROPLASTS.
J.B. Mudd and S.A. Sparace, ARCO Plant Cell Research Institute, Dublin, CA.

COOPERATION BETWEEN THE TWO ENVELOPE MEMBRANES DURING GALACTOLIPID BIOSYNTHESIS IN PEA CHLOROPLASTS.
J. Andrews, K. Cline and K. Keegstra, University of Wisconsin, Madison, WI.

REGULATION OF PHOSPHOLIPID SYNTHESIS IN CASTOR BEAN ENDOSPERM.
T.S. Moore Jr., Louisiana State University, and G. D. Troyer, University of Wyoming.

ACYL CARRIER PROTEIN DURING SEED DEVELOPMENT OF SOYBEANS.

J.B. Ohlogge and T. Kuo, Northern Regional Research Center, Peoria, IL.

COMPARTMENTATION OF LIPID SYNTHESIS IN THE DEVELOPING CASTOR OIL SEED.
J.A. Miernyk and D.T. Dennis, Queen's University, Kingston, Ontario, Canada.

SESSION B – SYMPOSIUM: Dietary Factors Affecting Lipid Metabolism

CHAIRPERSON: C. Kies, University of Nebraska, Lincoln, NE

SUPPRESSION OF CHOLESTEROL GENESIS BY PLANT CONSTITUENTS.
W.C. Burger, A. Qureshi, and C. Elson, University of Wisconsin, Madison, WI.

CHOLESTEROL METABOLISM IN RELATION TO AGING AND DIETARY FAT.
J. Dupont, Iowa State University, Ames, IA.

ECOSANOID METABOLISM IN RELATION TO DIETARY FATS AND OTHER NUTRIENTS.
M. Mathias, Colorado State University, Fort Collins, CO, and J. Dupont, Iowa State University, Ames, IA.

Meetings

ROLE OF CELL MEMBRANES IN DEVELOPMENT OF ATHEROSCLEROSIS.

F. Kummerow, University of Illinois, Urbana, IL.

EFFECTS OF DEFINED FORMULA DIETS ON SERUM LIPIDS OF HEALTHY SUBJECTS.

J. Snook, Ohio State University, Columbus, OH.

DIETARY FIBER EFFECTS ON LIPID ABSORPTION AND METABOLISM.

C. Kies, University of Nebraska, Lincoln, NE.

SESSION C – SYMPOSIUM: Emulsions and Microemulsions I**CHAIRPERSON: Paul Becher, Becher Associates, Wilmington, DE****INTRODUCTORY REMARKS**

Paul Becher, Becher Associates Ltd., Wilmington, DE.

EMULSIFICATION OF NON-MINERAL OILS. EFFECT OF TYPE AND SOURCE.

K.J. Lissant, Petrolite Corp., St. Louis, MO.

COALESCENCE OF WATER-IN-SHALE OIL EMULSIONS.

V.B. Menon and D.T. Wasan, Illinois Institute of Technology, Chicago, IL.

NON-IONIC SURFACTANT CONCENTRATION EFFECTS IN OIL-IN-WATER EMULSIONS.

D. Fairhurst, M.P. Aronson and E.D. Goddard, Union Carbide Corp., Tarrytown, NY.

CRYSTALLIZATION PHENOMENA IN EMULSIFIED AQUEOUS SALINE SOLUTIONS.

D. Clause, I. Siffrini and M. Clause, Universite de Pau et des Pays de L'Adour, Pau, France.

EMULSIFICATION OF OIL IN WATER.

M. Loncin, University of Karlsruhe, Federal Republic of Germany.

INFLUENCE OF VISCOSITY OF THE INTERNAL PHASE ON RHEOLOGY OF EMULSIONS.

I. Layriss, Intever, S.A., Caracas, Venezuela.

MICROEMULSIONS INCORPORATING AROMATIC HYDROCARBONS. INFLUENCE OF THE COSURFACTANT ISOMERY.

M. Clause, E. Poquet, L. Nicolas-Morgantini, J. Poulicard, A. Zradba, Universite de Pau et des Pays de L'Adour, Pau, France.

PHASE DIAGRAMS AND TRANSPORT COEFFICIENTS OF MICROEMULSION SYSTEMS. INFLUENCE OF THE COSURFACTANT ALCOHOL CHEMICAL STRUCTURE AND OF THE SURFACTANT/COSURFACTANT RATIO.

M. Clause, A. Zradba and L. Nicolas-Morgantini, Universite de Pau et des Pays de L'Adour, Pau, France.

SESSION D – SYMPOSIUM: Volatiles and Antioxidants**CHAIRPERSON: D. Min, Ohio State University****VOLATILE CONSTITUENTS FROM GLYCEROL-TRIS-CIS-9,CIS-15-OCTADECADIENOIC ACID HEATED (192 C) IN AIR.**

E. Selke, Northern Regional Research Center, Peoria, IL.

CAPILLARY GC ANALYSIS OF HEADSPACE VOLATILES FROM VEGETABLE OILS.

J.M. Snyder and E.N. Frankel, Northern Regional Research Center, Peoria, IL.

FLAVOR STABILITY OF SOYBEAN OILS BASED ON INDUCTION OF GAS CHROMATOGRAPHIC VOLATILE COMPOUNDS.

K. Warner, L. Kuster and E.N. Frankel, Northern Regional Research Center, Peoria, IL.

EFFECTS OF PHOSPHATIDYL CHOLINE ON THE FLAVOR STABILITY OF OIL DURING STORAGE.

D.B. Min and T. Stasinoupolous, Ohio State University.

PROTECTION OF TOCOPHEROLS IN DEODORIZER DISTILLATE WITH TBHZ ANTIOXIDANT.

D.F. Buck, Eastman Chemical Products, Inc., Kingsport, Tennessee.

ANTIOXIDANT ACTIVITIES OF ALPHA-TOCOPHEROL AND TERTIARY BUTYL HYDROQUINONE (TBHQ) IN SOYBEAN OIL.

D.B. Min and T. Stasinoupolous, Ohio State University.

A GAS CHROMATOGRAPHIC ANALYSIS OF VOLATILE COMPOUNDS OF PHOTOOXIDIZED OIL.

K. Shimbo and M. Komoda, Sugiyama Chemical and Industrial Laboratory, Yokohama, Japan.

SESSION E – SYMPOSIUM: Oilseed Processing 1983**CHAIRPERSON: J. Heilman, Continental Grain Co., New York, NY****OILSEED HANDLING AND PREPARATION PRIOR TO SOLVENT EXTRACTION.**

N.H. Moore, N. Hunt Moore and Associates, Inc., Memphis TN.

PROCESSING OF OILSEEDS USING FLUIDIZED BED TECHNOLOGY.

G. Florin and H.R. Bartsch, Escher Wyss GmbH, Ravensburg, West Germany.

HEAD-END AND TAIL-END DEHULLING.

W. Fetzer, Buhler Bros. Ltd. Engineering Works, Uzwil, Switzerland.

EXTRACTION OF OIL FROM PALM FRUIT.

K.G. Berger, Palm Oil Research Institute of Malaysia, Malaysia.

MECHANICAL OIL EXTRACTION.

D. Bredeson, French Oil Mill Machinery Co., Piqua, OH.

SOLVENT EXTRACTION.

P.L. Christensen, ADM Corn Sweeteners, Decatur, IL.

MEAL DESOLVENTIZING.

K.W. Becker, Consultant, Chicago, IL.

SESSION F – SYMPOSIUM: Autoxidation**CHAIRPERSON: E.N. Frankel, Northern Regional Research Center, Peoria, IL****STEREOCHEMISTRY OF BICYCLOENDOPEROXIDES DERIVED FROM METHYL Q-LINOLENATE.**

D.E. O'Connor, E.D. Mihelich and M.C. Coleman, The Proctor and Gamble Company, Cincinnati, OH.

ANALYSIS OF AUTOXIDIZED FATS BY GAS CHROMATOGRAPHY-MASS SPECTROMETRY: VIII. VOLATILE THERMAL DECOMPOSITION PRODUCTS OF SECONDARY OXIDATION PRODUCTS.

E.N. Frankel, W.E. Neff and E. Selke, Northern Regional Research Center, Peoria, IL.

SECONDARY AUTOXIDATION PRODUCTS IN MODEL SYSTEMS AND IN BIOMEMBRANES.

G.-S. Wu, R.A. Stein and J.F. Mead, Laboratory of Biomedical and Environmental Sciences, Los Angeles, CA, and R.N. McElhaney, University of Alberta, Edmonton, Canada.

THE EFFECTS OF ANTIOXIDANTS ON THE NATURE OF PRODUCTS FORMED IN AUTOXIDATION REACTIONS OF

Meetings

POLYUNSATURATED FATTY ACIDS.

D.T. Coxon, K.E. Peers and H.W.-S. Chan, ARC Food Research Institute, Norwich, Norfolk, England.

PHOTOSENSITIZED OXIDATION OF METHYL LINOLEATE MONOHYDROPEROXIDES.

W.E. Neff, E.N. Frankel, E. Selke and D. Weisleder, Northern Regional Research Center, Peoria, IL.

THERMAL OXIDATION OF LIPIDS IN MONOLAYERS.

L.-B. Hau and W.W. Nawar, University of Massachusetts, Amherst, MA.

FORMATION OF MONOHYDROPEROXIDES WITH UNCONJUGATED DIENE SYSTEMS DURING THE AUTOXIDATION OF LINOLEATE.

W. Grosch and M. Wurzenberger, Deutsche Forschungsanstalt für Lebensmittelchemie, West Germany.

SESSION G – SYMPOSIUM: Chemical Synthesis

CHAIRPERSON: H. Rakoff, Northern Regional Research Center, Peoria, IL

CONVENIENT SYNTHESIS OF UNSATURATED 1-¹³C FATTY ACIDS.

A. M. Ajami and S. Yuan, Tracer Technologies, Inc., Cambridge, MA.

SYNTHESIS OF DEUTERIUM LABELED METHYL 6,9,12-OCTADECATRIENOATES.

H. Rakoff and E. A. Emken, Northern Regional Research Center, Peoria, IL.

SYNTHESIS OF DEUTERIUM LABELED STEREOSPECIFIC PEANUT OIL TYPE TRIGLYCERIDES.

A. V. Bailey and J. L. White, Southern Regional Research Center, New Orleans, LA.

IMPROVED METHODS FOR THE SYNTHESIS AND PURIFICATION OF ACYLGLYCEROLS.

R. G. Jensen, University of Connecticut, Storrs, CT.

SYNTHESIS AND POLYMORPHISM OF 3-ACYL-SN-GLYCEROLS.

D. R. Kodali and T. G. Redgrave, Boston University School of Medicine, Boston, MA.

ADDITION OF AROMATIC COMPOUNDS TO OLEIC ACID CATALYZED BY HETEROGENEOUS ACID CATALYSTS.

H. Kohasi and T. A. Foglia, Eastern Regional Research Center, Philadelphia, PA.

CHOLESTEROL SIDE CHAIN MANIPULATIONS: SYNTHESIS OF 20-ISO-CHOLESTEROL AND (25R)- and (25S)-26-HYDROXYCHOLESTEROL.

H. W. Kircher and F. U. Rosenstein, University of Arizona, Tucson, AZ.

MONDAY, MAY 9, 1982, AFTERNOON**SESSION H – SYMPOSIUM: Plant Lipids**

CHAIRPERSON: J. B. Ohlrogge, Northern Regional Research Center, Peoria, IL

DETERMINING THE BIOLOGICAL BASIS FOR LOWER POLY-UNSATURATED FATTY ACID CONCENTRATION IN SOYBEANS.

R. F. Wilson, B. A. Martin and J. W. Burton, USDA-ARS, Raleigh, NC.

SHORT CHAIN FATTY ACID BIOSYNTHESIS IN DEVELOPING CUPHEA SEEDS.

M. Pollard, ARCO Plant Cell Research Institute, Dublin, CA, and P. K. Stumpf, University of California, Davis, CA.

THE ROLE OF MEMBRANE EXPANSION IN THE EFFECTS OF UNDISSOCIATED ACIDS.

J. B. St. John and P. C. Jackson, USDA, ARS, Beltsville, MD.

MOLECULAR ANALYSIS OF CARDIOLIPIN FROM *CHLAMYDOMONAS REINHARDTII* 137⁺.

D. R. Janero, John Hopkins Medical School, Baltimore, MD.

TRIACYLGLYCEROL STRUCTURAL AND SPECIES CHANGES IN MATURING PEANUTS.

T. H. Sanders, National Peanut Research Laboratory, Dawson, GA.

GLYCERIDE STRUCTURE VARIATION IN SOYBEAN AND OAT TRIGLYCERIDES.

W. P. Pan and E. G. Hammond, Iowa State University, Ames, IA.

LIPIDS IN STEMS OF TWO PRICKLY PEAR CACTI.

H. W. Kircher and A. M. Mohamed, University of Arizona, Tucson, AZ.

SESSION I – SYMPOSIUM: Dietary Proteins and Their Effect on Metabolism and Disease

CHAIRPERSON: G. Liepa, Texas Woman's University, Denton, TX and D. Kritchevsky, Wistar Institute, Philadelphia, PA.

THE EFFECT OF DIETARY VEGETABLE AND ANIMAL PROTEIN ON THE ETIOLOGY OF CHOLESTEROL GALLSTONE FORMATION IN THE HAMSTER.

A. Richmond and G. Liepa, Texas Woman's University, Denton, TX.

THE EFFECTS OF DIETARY PROTEINS ON SERUM AND BILIARY CONSTITUENTS AND GALLSTONE FORMATION IN THE HAMSTER.

A. M. Duffy and G. Liepa, Texas Woman's University, Denton, TX.

EFFECTS OF BEEF, SOY, AND CONVENTIONAL DIETS ON CO₂, FATTY ACID, AND GLYCEROL SYNTHESIS IN YOUNG PIGS.

D. A. Diersen-Schade, D. C. Beitz and N. L. Jacobson, Iowa State University, Ames, IA. Honored Student Presentation.

INFLUENCE OF DIETARY PROTEIN ON CHOLESTEROL METABOLISM.

J. Storry, Wistar Institute, Philadelphia, PA.

THE EFFECT OF DIETARY PROTEIN ON THE RETENTION OF CALCIUM AND PHOSPHORUS AMONG ANIMALS OF DIFFERENT AGES.

F. C. Liu, N. DiMarco and G. Liepa, Texas Woman's University, Denton, TX.

MAINTENANCE REQUIREMENTS AND EFFICIENCY OF GAIN OF RATS FED WHEAT GERM AND CASEIN.

E. B. Mills.

MUTAGENIC POTENTIAL OF AFLATOXIN RELATED DECONTAMINATION BY-PRODUCTS RESULTING FROM AMMONIATION OF COTTONSEED MEAL.

L. S. Lee, Southern Regional Research Center, New Orleans, LA; D. L. Park, Food & Drug Administration, Washington, DC; S. R. Hayworth and T. E. Lawlor, Microbiological Assoc., Bethesda, MD, and S. P. Koltun and A. Ciegler, Southern Regional Research Center, New Orleans, LA.

THE EFFECT OF DIETARY COTTONSEED PROTEIN ON SERUM AND SECRETORY IgA LEVELS IN INDIVIDUALS WITH DOWN'S SYNDROME.

K. M. Lawson, Texas Woman's University, Denton, TX; C. B. Frankmann and H. A. Fritsche, M. D. Anderson Hospital and Tumor Institute, and A. N. Milner, Texas Woman's University.

SESSION J – SYMPOSIUM: Emulsions and Microemulsions II**CHAIRPERSON:** R. A. Mackay, Drexel University, Philadelphia, PA**INTRODUCTORY REMARKS.**

R. A. Mackay, Drexel University.

DIFFUSION MEASUREMENTS IN MICROEMULSIONS.

N. S. Dixit, R. A. Mackay, Department of Chemistry, Drexel University, Philadelphia, PA., and R. P. Seiders, Res. Div., Chemical Systems Laboratory, Aberdeen Proving Ground, MD.

DIACID AND UNUSUAL HYDROTROPICS.

S. Friberg and T. Flain, University of Missouri/Rolla, Rolla, MO.

NON-LYOTROPIC LIQUID CRYSTALS.

S. Friberg and M. Elnokali, University of Missouri/Rolla, Rolla, MO.

MICROEMULSIONS, THEIR MICROSTRUCTURE AND POTENTIAL APPLICATIONS.

D. O. Shah, C. Manohar, R. Leung, Departments of Chemical Engineering and Anesthesiology, University of Florida, Gainesville, FL.

TITLE TO BE ANNOUNCED.

H.T. Davis, University of Minnesota, Minneapolis, MN.

SESSION K – SYMPOSIUM: PRICING VEGETABLE OILS AND FATS**CHAIRPERSON:** D. M. Bartholomew, Merrill Lynch Commodities, Inc., Chicago, IL**PRICING EDIBLE VEGETABLE OILS.**

J. G. Reed Jr., Archer Daniels Midland Co., Decatur, IL.

WILL WE HAVE ENOUGH?

P. A. von Eschen, Cargill, Inc., Chicago, IL.

GROWTH OF SOYBEAN OIL MARKET AND USES OF PRICING.

D. Kelly, Kelly Commodities, Inc., Chicago, IL.

TITLE UNAVAILABLE AT PRESS TIME.

D. Melendy, Lever Bros. Co.

“CASH” VEGETABLE OIL BROKERAGE.

W. K. Simeral, W. M. Simeral & Company, Inc., Oak Brook, IL.

SESSION L – SYMPOSIUM: Oilseed Processing, 1983**CHAIRPERSON:** J. Heilman, Continental Grain Co., New York, NY**SOLVENT RESIDUALS IN MEAL.**

J. P. Wolff, Institut des Corps Gras (ITERG), France.

SOLVENT RECOVERY.

N. Myers, Myers Engineers.

ALTERNATIVE SOLVENTS FOR OILS EXTRACTION.

L. A. Johnson and E. W. Lusas, Food Protein Research and Development Center, College Station, TX.

SOLVENT PLANT SAFETY.

H. J. Sandvig, Cargill Inc.

RECENT SAFETY EXPERIENCES.

C. L. Kingsbaker, C. L. Kingsbaker Inc.

A LOOK AT THE FUTURE.

J. E. Heilman, Continental Grain Co.

SESSION M – SYMPOSIUM: Autoxidation.**CHAIRPERSON:** E. N. Frankel, Northern Regional Research Center, Peoria, IL.**COMPARISON OF EXTRACTION METHODOLOGIES FOR LIPID OXIDATION PRODUCTS.**

S. Pinter and E. G. Perkins, University of Illinois, Urbana, IL.

CHEMILUMINESCENCE: A NEW TOOL FOR FOOD ANALYSIS?

J. A. Fioriti and R. J. Sims, General Foods Corporation, White Plains, NY.

A QUICK METHOD FOR MEASURING PEROXIDES IN FOODS.

C. W. Fritsch, J. W. Zurawski and J. B. Fine, General Mills, Inc., Minneapolis, MN.

OXIDATIVE STABILITY OF PEANUT OIL FROM DIFFERENT MATURITY LEVELS.

J. A. Singleton and H. E. Pattee, USDA, ARS, SR, N.C. State University, Raleigh, North Carolina.

PHOTOOXIDATION OF THE FATTY ACIDS: ENHANCEMENT WITH THE ANTIOXIDANTS AND POLYHALOGENATED BIPHENYLS.

M. K. Logani, B. Shah, and R. E. Davies, Temple University Health Sciences Center, Philadelphia, PA.

INVESTIGATION OF CATFISH OIL QUALITY BY DIRECT GAS CHROMATOGRAPHY.

A.J. St. Angelo and M.G. Legendre, USDA, Southern Regional Research Center, New Orleans, LA, and H.J. Dupuy and G.J. Flick Jr., VA. Polytechnic Institute and State University.

SEMI-AUTOMATED DYNAMIC HEADSPACE ANALYSIS OF VEGETABLE OIL VOLATILES.

Jeremiah Roberts, CPC International, Union, NJ.

CHIA (SALVIA, sp.) AS A SOURCE OF LIPID ANTIOXIDANT.

D. E. Pratt and M. S. de Lima Taga, Department of Foods and Nutrition, West Lafayette, IN.

SESSION N – SYMPOSIUM: Pharmacological Role of Lipids**CHAIRPERSON:** J. Chipley, U.S. Tobacco Co., Nashville, TN**BIOLOGICAL EFFECTS OF PEROXIDIZED POLYUNSATURATED FATTY ACIDS.**

H. S. Mickel, Children's Hospital Medical Center, Boston, MA.

EFFECTS OF FATTY ACIDS ON INTESTINAL TRANSPORT.

H. V. Ammon, VA Medical Center, Milwaukee, WI.

CHARACTERIZATION OF THE LIPID AND PROTEASE ACTIVATED FORMS OF PRUVATE OXIDASE.

L. P. Hager, M. Recny and G. Leisman, University of Illinois, Urbana, IL.

FOUR HYPOGLYCAEMIC COMPOUNDS THAT INHIBIT β -OXIDATION: 2[5(4-CHLOROPHENYL) PENTYL] OXIRAN-2-CARBOXYLATE (POCA), VALPROATE, PENT-4-ENOATE AND HYPOGLYCIN. A COMPARISON OF THEIR MECHANISMS OF ACTION.

H. S. A. Sherratt, University of Newcastle upon Tyne, U.K.

CHOLINERGICALLY-MEDIATED HYDROLYSIS OF PHOSPHATIDYLINOSITOL IN THE RAT PAROTID GLAND.

Y. Oron, E. Nadler and M. Lupu, Tel Aviv University, Ramat Aviv, Israel.

INVESTIGATION ON LIPID ASSOCIATIONS USING MYELIN TUBE FORMATION.

E. Neuzil and J. Fourche, University of Bordeaux II, France.

SIGNIFICANCE OF LIPIDS OF SCOTOCHROMOGENIC MYCOBACTERIA FOR THEIR IDENTIFICATION, TAXONOMY, AND IMMUNOSTIMULATING PROPERTIES.

M. Mara, J. Julak, Z. Mikova, and C. Michalec, Charles University, Studnickova 7, Praha 2, CSSR.

MEMBRANE-BOUND PROTEINS AS PROBES OF THEIR PHOSPHOLIPID ENVIRONMENTS.

D. Zakim and Y. Hochman, V.A. Medical Center, San Francisco, CA.

PHOTOLABELING FROM INSIDE THE BILAYER REVEALS FACTORS AFFECTING PROTEIN INSERTION.

B. J. Wisnieski, University of California, Los Angeles, CA.

INFLUENCE OF BOND LOCATION ON THE EFFECTIVENESS OF ACYL CHAINS.

W. E. M. Lands, University of Illinois at Chicago, Chicago, IL.

SESSION O – SYMPOSIUM: Enzymatic Reactions in Flavor Development

CHAIRPERSON: H. W. Gardner, Northern Regional Research Center, Peoria, IL and W. Grosch, Deutsche Forschungsanstalt für Lebensmittelchemie, Garching, West Germany.

OXYGEN-ISOTOPE EFFECT IN ENZYMIC CLEAVAGE REACTION OF 13-L-HYDROPEROXYLINOLEIC ACID TO HEXANAL.

A. Hatanaka, T. Kajiwara and J. Sekiya, Yamaguchi University, Japan.

THE BIOSYNTHESIS OF JASMONIC ACID: A PHYSIOLOGICAL ROLE FOR PLANT LIPOXYGENASE.

B. A. Vick and D. C. Zimmerman, U.S. Dept. of Agriculture, North Dakota State University, ND.

SEASONAL CHANGES IN THE FOUR ENZYME ACTIVITIES CONCERNED WITH FORMATION OF VOLATILE C₆-COMPOUNDS FROM LIPIDS IN TEA PLANTS.

J. Sekiya, T. Kajiwara and A. Hatanaka, Yamaguchi University, Japan.

THE FORMATION OF 1-OCTEN-3-OL IN MUSHROOMS.

W. Grosch and M. Wurzenberger, Deutsche Forschungsanstalt für Lebensmittelchemie, West Germany.

MEMBRANE-ASSOCIATED, ENZYME-CATALYZED LIPID PEROXIDATION IN MUSCLE.

H. O. Hultin, University of Massachusetts, Gloucester, MA.

ELIMINATION OF LIPOXYGENASE ISOZYMES FROM SOYBEAN BY GENETIC SELECTION.

N. C. Nielsen, J. R. Wilcox and C. S. Davies, Purdue University, West Lafayette, IN.

SESSION P – SYMPOSIUM: New Protein Sources

CHAIRPERSONS: E.W. Lusas, and D.J. Sessa, Northern Regional Research Center, Peoria, IL

FUTURE PROSPECTS FOR THE USE OF WINGED BEAN PROTEIN SOURCES.

J. W. Erdman Jr. and S. S. Kantha, University of Illinois, Urbana, IL.

GRAMBE MEAL AS A PROTEIN SOURCE FOR FEEDS.

K. D. Carlson and H. L. Tookey, Northern Regional Research Center, Peoria, IL.

POTENTIAL OF WILD OATS AS A HIGH PROTEIN FOOD.

F. W. Sosulski, University of Saskatchewan, Saskatoon, Canada.

IMPROVED USE OF DISTILLERS' GRAINS AND OTHER

ALCOHOL FERMENTATION BYPRODUCTS IN FOODS AND FEEDS.

J. S. Wall, Y. V. Wu, G. N. Bookwalter, R. J. Bothast and A. A. Lagoda, Northern Regional Research Center, Peoria, IL.

HYPERPRODUCTION OF SPECIFIC PROTEINS THROUGH RECOMBINANT DNA TECHNOLOGY.

K. Herrmann, Purdue University, West Lafayette, IN.

SESSION Q – SYMPOSIUM: Surfactants: Performance and Evaluation

ORGANIZER: T.P. Matson, Conoco, Ponca City, OK
CHAIRPERSON: A. Cahn, Arno Cahn Consultants, Edgewater, NJ

CONSUMER TESTING – FORCE OR FARCE?

A. H. Gilbert, Lever Bros. Research, Edgewater, NJ.

AN APPROACH TO FORMULATING COLD WATER LAUNDRY PRODUCTS.

T. P. Matson and S. Cox, Conoco, Ponca City, OK.

CHEMICAL STUDIES OF ZEOLITE CONTAINING DETERGENTS.

R. Llenado, Proctor and Gamble Co., Cincinnati, OH.

REDEPOSITION OF NATURAL SOILS IN A HOME LAUNDRY TEST.

G. C. Feighner, Scientific Services, Oakland, NJ.

OPTIMIZATION OF NONIONIC SURFACTANT FOR HARD SURFACE CLEANING.

M. S. Cox and T. P. Matson, Conoco, Ponca City, OK.

QUALITATIVE AND QUANTITATIVE EVALUATION OF ENZYMES IN HOUSEHOLD LAUNDRY PRODUCTS USING SOIL TEST CLOTHS.

B. P. Flynn and M. L. Besemer, Purex Industries, Carson, CA.

THE USE OF ENZYMES IN POWDERED DETERGENTS, REVIEW AND FUTURE DEVELOPMENTS.

G. H. de Raaff, Gist-Brocades N.V., Delft, Holland.

SESSION R – SYMPOSIUM: Applications of Supercritical Fluids

CHAIRPERSON: J. P. Friedrich, Northern Regional Research Center, Peoria, IL.

SOLUBILITIES OF SEED OILS IN SUPERCRITICAL CO₂ AS A FUNCTION OF TEMPERATURE AND PRESSURE.

J. P. Friedrich and J. H. Johnson, Northern Regional Research Center, Peoria, IL.

EFFECT OF MOISTURE AND PARTICLE SIZE ON THE EXTRACTABILITY OF OILS FROM SEEDS USING SUPERCRITICAL CO₂.

J. M. Snyder, J. P. Friedrich and D. D. Christianson, Northern Regional Research Center, Peoria, IL.

WHY DON'T PEANUTS WORK?

V. Krukonis and R. T. Kurnic, Phasex Corporation, Nashua, NH.

SOLUBILITY PARAMETERS OF SUPERCRITICAL FLUIDS FROM PRESSURE-VOLUME-TEMPERATURE DATA.

R. L. Eissler, J. M. Ritter and J. P. Friedrich, Northern Regional Research Center, Peoria, IL.

GENERALIZED EXTRACTION CONDITIONS FOR THE CRITICAL FLUID PROCESSING OF OILS AND OLEOPHILIC COMPOUNDS.

J. W. King, Crystal Lake, IL.

SESSION S – SYMPOSIUM: Operating Expertise in Oil Processing

Meetings

CHAIRPERSON: F. Khym, Consultant, San Antonio, TX.

SOYBEAN OIL.

D. R. Erickson, American Soybean Association, St. Louis, MO.

COTTONSEED OIL.

G. C. Cavanagh, Ranchers Cotton Oil, Fresno, CA.

CANOLA OIL.

T. K. Mag, Canada Packers Ltd., Toronto, Ontario, Canada.

SUNFLOWER OIL.

E. J. Campbell, Archer Daniels Midlands Co., Decatur, IL.

PLANT PRODUCTION OF HYDRO-WINTERIZED SOYBEAN OIL.

D. C. Tandy and N. M. Le Bard, EMI Corporation, Chicago, IL.

ALTERNATIVES IN SOAPSTOCK UTILIZATION.

J. B. Woerfel, Consultant, Clarksdale, MS.

A REVIEW OF SAFETY HAZARDS IN EDIBLE OIL PROCESSING.

J. Anglin, PSI Process Systems Inc., Memphis, TN.

THE MULTIPLE PIPE CONTINUOUS BLEACHING SYSTEMS.

K. Weber, Extraktionstechnik GmbH, Hamburg, Germany.

SESSION T – SYMPOSIUM Developments in Silver Ion Chromatography

CHAIRPERSON: R.O. Adlof, Northern Regional Research Center, Peoria, IL.

DEVELOPMENT OF ARGENTATION SEPARATIONS OF LIPIDS.

C. R. Scholfield, Northern Regional Research Center, Peoria, IL.

ACETONITRILE AS ELUENT IN ARGENTATION CHROMATOGRAPHY.

W. J. DeJarlais, R. O. Adlof and E. A. Emken, Northern Regional Research Center, Peoria, IL.

FID RESPONSES OF GEOMETRICAL FATTY ACID ISOMERS WHEN ANALYZED BY AgNO₃ THIN-LAYER CHROMATOGRAPHY (IATROSCAN-CHROMAROD) AND BY GAS-LIQUID CHROMATOGRAPHY.

J-L. Sebedio, T. E. Farquharson and R. G. Ackman, Canadian Institute of Fisheries Technology, Nova Scotia.

SILVER-ii COMPLEX CHROMATOGRAPHY IN THE ISOLATION AND PURIFICATION OF DITERPENE RESIN ACIDS.

D. F. Zinkel, Forst Products Laboratory, Madison, WI.

ISOLATION OF INTACT PHOSPHATIDYLCHOLINE PLASMALOGEN BY ARGENTATION – OR REVERSED-PHASE HPLC.

W. N. Marmer and T. A. Foglia, Eastern Regional Research Center, Philadelphia, PA.

PURIFICATION OF TRIGLYCERIDES BY SILVER RESIN CHROMATOGRAPHY.

R.O. Adlof and E.A. Emken, Northern Regional Research Center, Peoria, IL.

SESSION U – SYMPOSIUM Pharmacological Role of Lipids

ORGANIZER: J. J. Kabara, Michigan State University, East Lansing, MI.

CHAIRPERSON: A. M. Moustafa, Miami Margarine Co., Cincinnati, OH.

TITLE NOT AVAILABLE AT PRESS TIME.

J. Chipley, U.S. Tobacco Co., Nashville, TN.

TITLE NOT AVAILABLE AT PRESS TIME.

A. M. Moustafa, Miami Margarine Co., Cincinnati, OH.

INHIBITION OF STAPHYLOCOCCUS AUREUS IN A MODEL SAUSAGE SYSTEM BY MONOGLYCERIDES.

J. J. Kabara, Michigan State University, E. Lansing, MI.

ANTIMICROBIAL PROPERTIES OF LAURICIDIN IN MECHANICALLY DEBONED CHICKEN, MINCED FISH, AND CHICKEN SAUSAGE.

R. C. Baker, W. Poon, D. Kline, D. V. Vadehra, Cornell University, Ithaca, NY.

MONOGLYCERIDE INHIBITION OF MYCOPLASMA PNEUMONIAE.

R. D. Fletcher and A. C. Albers, University of Pittsburgh, Pittsburgh, PA; and J. N. Albertson Jr., USAMBRDL, Frederick, MD, and J. J. Kabara, Michigan State University, East Lansing, MI.

EFFECT OF GLYCERYL MONOLAURATE ON PARASITES.

S.H.W. Notermans and F. van Knapen, Nationale Institute of Public Health, The Netherlands.

FATTY ACIDS OR ESTER DERIVATIVES AS CARIOSTATIC AGENTS.

R. A. Schemmel and J. J. Kabara, Michigan State University, E. Lansing, MI.

EFFECT OF CHOLESTEROL ON OLEATE-INDUCED INCREASE IN CHOLESTEROGENESIS IN HEPATOCYTES.

E. H. Goh, Indiana University School of Medicine, Bloomington, IN.

EXAMINATIONS ON ANTITUMOR, IMMUNOLOGICAL, AND PLANT-GROWTH INHIBITORY EFFECTS OF MONOGLYCERIDES OF CAPRYLIC, CAPRIC, AND LAURIC ACIDS AND RELATED COMPOUNDS.

J. J. Kabara, Michigan State University, East Lansing, MI; M. Ohkawa, Kanazawa University, Japan; T. Ikekawa, National Cancer Center, Japan; T. Katori, SS Pharmaceutical Co., Japan; and Y. Nishikawa, Kanazawa University, Japan.

SESSION V – SYMPOSIUM: Enzymatic Reactions in Flavor Development

CHAIRPERSONS: H. W. Gardner, Northern Regional Research Center, Peoria, IL and W. Grosch, Deutsche Forschungsanstalt für Lebensmittelchemie, Garching, West Germany.

LIPID HYDROLASES AS INITIATORS OF FLAVOR DEVELOPMENT.

H. M. Henderson and N. A. M. Eskin, University of Manitoba, Manitoba, Canada.

CLEAVAGE OF METHYL HYDROPEROXYLINOLEATES INTO VOLATILES BY EITHER RADICAL b-SCISSION OR LEWIS ACID CATALYSIS: VOLATILES FROM LEWIS ACID CATALYSIS RESEMBLE THOSE FORMED BY HYDROPEROXIDE LYASE.

H. W. Gardner, R. D. Plattner and E. Selke, Northern Regional Research Center, Peoria, IL.

OXIDATIVE DECOMPOSITION PRODUCTS FROM THE HUMAN RED BLOOD CELL MEMBRANE.

F. J. Bunick and W. W. Nawar, University of Massachusetts, Amherst, MA.

ROMANO CHEESE-LIKE FLAVOR DEVELOPED BY FUNGAL LIPASE AND THE STUDY OF ITS VOLATILE FATTY ACID COMPOSITION.

S. S. Chang and K-C. M. Lee, Rutgers State University, New Brunswick, NJ; A-S. Huang, Nabisco Brands, Inc.; H. Shi, Scientific Research Institute, Beijing, China, and C-T. Ho, Rutgers State University, New Brunswick, NJ.

CHEMICAL/BIOCHEMICAL PROPERTIES OF PEANUTS FROM BIOREGULATOR-TREATED PLANTS.

E. J. Conkerton, D. C. Chappital and R. L. Ory, Southern Regional Research Center, New Orleans, LA.

SESSION W – SYMPOSIUM New Protein Sources

CHAIRPERSONS: E. W. Lusas, Food Protein Research and Development Center, College Station, TX and D. J. Sessa, Northern Regional Research Center, Peoria, IL.

EVALUATION OF SOY PROTEIN ISOLATE AS A GRAS FOOD INGREDIENT.

F. R. Senti, Life Science Research Office, Bethesda, MD.

VARIATION IN AND GENETICS OF CERTAIN BIOLOGICALLY ACTIVE COMPONENTS OF SOYBEAN SEED.

T. Hymowitz, University of Illinois, Urbana, IL.

TOFU AND TEMPEH AS POTENTIAL PROTEIN SOURCES IN THE WESTERN DIET.

H. L. Wang, Northern Regional Research Center, Peoria, IL.

SWEET POTATO PROTEIN.

W. M. Walter Jr., N.C. State University, Raleigh, NC.

NEW SEMIARID CROPS AS PROTEIN RESOURCES.

R. Becker, R. N. Sayre and R. M. Saunders, Western Regional Research Center, Berkeley, CA.

PRODUCTION OF PROTEIN AND VOLATILE FATTY ACIDS IN THE FERMENTATION OF BLACKSTRAP MOLASSES BY EUBACTERIUM RUMINANTIUM.

K. I. Mehta and C. D. Callihan, Louisiana State University, Baton Rouge, LA.

EFFECT OF THE OIL EXTRACTION PROCESS ON THE QUALITY OF DEFATTED LUPINE FLOUR.

L. E. Camacho and D. F. Owen, Instituto de Nutricion Y Tecnologia de Los Alimentos, Chile.

SESSION X – SYMPOSIUM:

Processing Roundtable

SESSION Y – SYMPOSIUM: Applications of Supercritical Fluids

CHAIRPERSON: J. P. Friedrich, Northern Regional Research Center, Peoria, IL.

CALORIMETRIC DETERMINATION OF HEATS OF MIXING OF SUPERCRITICAL CO₂ WITH SEVERAL ORGANIC LIQUIDS.

R. M. Izatt, J. L. Oscarson and J. J. Christensen, Thermochemical Institute, Brigham Young University, Provo, UT.

PROCESSING OF COTTONSEED OIL OBTAINED BY EXTRACTION WITH SUPERCRITICAL CARBON DIOXIDE.

G. R. List and J. P. Friedrich, Northern Regional Research Center, Peoria, IL, and J. Pominski, Southern Regional Research Center, New Orleans, LA.

OPTIMIZING CARBON DIOXIDE EXTRACTION FOR SPECIAL PRODUCTS: PYRETHRUM.

M. Sims, Consulting Chemical Engineer, Berkeley, CA.

MODULAR PILOT PLANTS FOR SUPERCRITICAL EXTRACTION RESEARCH.

R. Randhava and D. Goitermann, Xytel Corporation, Mt. Prospect, IL.

SYSTEMS FOR SUPERCRITICAL CO₂ EXTRACTIONS.

J. H. Love, WSE Inc., La Grange, IL.

SESSION Z – SYMPOSIUM: Surfactants:

Performance and Evaluation

ORGANIZER: T. P. Matson, Conoco, Ponca City, OK

CHAIRPERSON: A Cahn, Arno Cahn Consultants, Edgewater, NJ

EFFICACY OF LOW MOLE ETHOXYLATES IN SOLVENT-BASED PRESPOTTERS.

H. L. Benson, Shell Development Company, Houston, TX.

SECONDARY ALKENE BENZENE SULPHONATE – AN ECOLOGICAL AND ECONOMICAL ALTERNATIVE.

Trautmann and Jurges, Hoeschst AG, Frankfurt, Germany.

METHYL GLUCOSIDE/TRIGLYCERIDE ALCOHOLYSIS PRODUCTS, THEIR PREPARATION AND CHARACTERIZATION.

C. D. Roth, A. E. Staley Mfg. Co., Decatur, IL.

PREPARATION AND PROPERTIES OF 1,2 BUTYLENE OXIDE AND ETHYLENE OXIDE BLOCK COPOLYMER SURFACTANTS.

I. R. Schmolka and B. Kim, BASF, Wyandotte, Corp., Wyandotte, MI.

OXYETHYLATED SULFONAMIDES AS NONIONIC SOIL WETTING AGENTS.

T. J. Micich and W. M. Linfield, Eastern Regional Research Center, Philadelphia, PA.

SESSION AA – SYMPOSIUM: Nutritional, Psychological, and Biochemical Studies of Omega-3 Fatty Acids and Prostaglandins.

CHAIRPERSON: E. A. Emken, Northern Regional Research Center, Peoria, IL.

POSSIBLE BENEFICIAL EFFECTS OF THE LINOLENATE CLASS (N-3) OF FATTY ACIDS.

W. E. M. Lands, University of Illinois at Chicago, Chicago, IL.

CONSEQUENCES OF FEEDING N-3 POLYUNSATURATED FATTY ACIDS CONTAINING DIETS TO RATS AND RABBITS.

J. Kloeze and Edward Haddeman, Unilever Research, Vlaardingen, The Netherlands; G. Hornstra, State University, Maastricht, The Netherlands; and P. M. Verschuren, Unilever Research, Vlaardingen, The Netherlands.

CONCERTED STIMULATION AND INHIBITION OF DESATURATION, CHAIN ELONGATION AND ESTERIFICATION OF ESSENTIAL FATTY ACIDS BY CULTURED NEUROBLASTOMA CELLS.

H. W. Cook, J. T. R. Clarke and M. W. Spence, Dalhousie University, Halifax, Nova Scotia, Canada.

ON THE ROLE OF EICOSANOIDS AND THEIR DIETARY PRECURSORS IN ATHEROSCLEROTIC DISEASE.

A. L. Willis, D. L. Smith, M. A. McCarry, B. Nagel and I. Mahmud, Syntex Research, Palo Alto, CA.

ABNORMAL ESSENTIAL FATTY ACID LEVELS IN PATIENTS WITH ATOPIC ECZEMA: SUCCESSFUL TREATMENT WITH EVENING PRIMROSE OIL (EFAMOL).

D. F. Horrobin and M. S. Manku, Efamol Research Institute, Canada; S. Wright and J. L. Burton, Bristol Royal Infirmary, England.

ALPHA LINOLENIC ACID METABOLITES AND IMMUNOCOMPETENT CELLS.

P. V. Johnston and L. A. Marshall, University of Illinois, Urbana, IL.

MODULATION OF PROSTAGLANDIN SYNTHESIS IN RAT

PERITONEAL MACROPHAGES THROUGH DIETARY MEANS.
L. J. Magrum and P. V. Johnston, University of Illinois,
Urbana, IL. Honored Student Presentation.

DIETARY EFFECTS OF MENHADEN OIL ON FATTY ACID
COMPOSITION AND THE ARACHIDONIC ACID CASCADE IN
RAT PLATELETS.
N. W. Schoene and D. Fiore, USDA, ARS, Lipid Nutrition
Laboratory, Beltsville, MD.

ESSENTIAL FATTY ACID DEFICIENCY IN EXPERIMENTAL
DIABETES.
R. T. Holman, S. B. Johnson, J. M. Gerrard, and D. M.
Brown, University of Minnesota, Austin, MN.

EFFECTS OF DIETARY LINOLEATE ON EICOSANOID
SYNTHESIS IN RAT PLATELETS.
M. M. Mathias and C. A. Taylor, Colorado State University,
Ft. Collins, Colorado. Honored Student Presentation.

**SESSION BB – SYMPOSIUM: Pharmacological
Role of Lipids**

ORGANIZER: J. J. Kabara, Michigan State
University, East Lansing, MI

CHAIRPERSON: R. A. Schemmel, Michigan State
University, East Lansing, MI

PERMEATION OF AMPHIPHILIC SOLUTES ACROSS LIPID
BILAYERS.
J. Bramhall, UCLA Medical School, Los Angeles, CA.

EFFECT OF DIETARY LECITHIN ON LIPID METABOLISM IN
RATS.
M. L. W. Chang and M. A. Johnson, USDA, ARS, Beltsville,
MD.

BIOPHYSICAL CHARACTERIZATION OF DIETARY LIPID
INFLUENCES ON IMMUNE RESPONSIVENESS.
D. A. Adams and K. L. Erickson, University of California,
Davis, CA.

EFFECT OF PHOSPHOLIPIDS ON THE CONTROL OF
NUCLEAR DNA TEMPLATE RESTRICTION.
F. A. Manzoli, University of Bologna, Italy; N. M. Maraldi,
University of Ancona, Italy, and S. Capitani, University of
Ferrara, Italy.

THE MODE OF ACTION OF CHOLESTERYL
14-METHYLHEXADECANOATE IN PROTEIN SYNTHESIS.
Z. Tuhackova and J. Hradec, Oncological Institute,
Czechoslovakia.

ANTITUMOR AND ANTILEUKEMIC PROPERTIES OF
SYNTHETIC ALKYL-LYSOPHOSPHO-LIPIDS (ALP) *IN VITRO*.
W. E. Berdel, U. Fink, A. Reichert, and J. Rastetter,
Technical University, Federal Republic of Germany.

THE RECENT TREND IN USAGE OF FATS AND OILS AS
FUNCTIONAL INGREDIENTS IN THE BAKING INDUSTRY.
O. K. Chung and Y. Pomeranz, USDA/ARS Grain Marketing
Lab., Manhattan, KS.

SESSION CC – SYMPOSIUM: Tall Oil
CHAIRPERSON: J. P. Krumbein, Reichhold
Chemicals, Inc., Pensacola, FL.

TALL OIL ACIDULATION, THE STATE OF THE ART.
W. Wallace Keyes, Keyes and Keyes Associates, Inc., Gulf
Breeze, FL.

TALL OIL SOAP ACIDULATION PROCESSES.
F. L. Prado, Baymont Engineering Co., St. Petersburg, FL.

A COST EFFICIENT AUTOMATED SEMI-CONTINUOUS TALL
OIL ACIDULATION PROCESS.
J. P. Krumbein, Reichhold Chemicals, Inc., Pensacola, FL.

USE COMPARISON OF TALL OIL FATTY ACIDS.
H. G. Arlt, Arizona Chemical Co., Fairlawn, NV.

MODERN TECHNIQUES FOR EVALUATING ALLOYS IN
FRACTIONAL DISTILLATION SYSTEMS.
Earle Fritz, Union Camp Corp., Savannah, GA.

PRODUCTION OF TALL OIL FATTY ACIDS VIA A MODERN
DRY DISTILLATION PROCESS.
Elliott Shimley, Georgia-Pacific Corp., Atlanta, GA.

RETROFITTING A STEAM DISTILLATION, TRAYED TALL OIL
DISTILLATION PLANT.
W. J. Hartnett, Foster Wheeler SPEC, Inc., Livingston, NV.

AUTOMATIC STAINLESS STEEL OVERLAY: A COST OF
EFFECTIVE ALTERNATIVE FOR RENEWING FATTY ACID
TOWERS AND PRESSURE VESSELS.
John Hartemink, Alloy Cladding, Div. of Digi-DATA Corp.,
Fort Meyer, FL.

THE APPLICATION OF "FLEXIPAC" ("MELLAPAK") TO
EXISTING TALL OIL RECTIFICATION COLUMN.
Charles Brown, Koch Engineering Co., Inc., New York, NY.

METERING DIFFICULT CHEMICALS IN A TALL OIL
ACIDULATION PROCESS.
R. E. Clements, Clements and Associates, Inc., Memphis, TN.

**SESSION DD – SYMPOSIUM: Lipoproteins and
Membranes**

CHAIRPERSON: R. Reiser, Texas A & M
University, College Station, TX.

CALIBRATION OF THE ANALYTIC ULTRACENTRIFUGE
(AnUC).
F. T. Lindgren, V. G. Shore, G. L. Adamson, L. A. Glines and
T. S. Kahlon, University of California, Berkeley, CA.

COUPLED SECRETION OF VERY LOW DENSITY
LIPOPROTEIN APOPEPTIDES AND ACYLGlycerols BY THE
LIVER CELL.
D. R. Janero, P. Siuta-Mangano and M. D. Lane, The John
Hopkins University School of Medicine, Baltimore, MD.

PLASMA LIPID AND LIPOPROTEIN RESPONSE OF HUMANS
TO BEEF FAT, COCONUT OIL, AND SAFFLOWER OIL.
W. Insull Jr., J. L. Probstfield, A. Silvers, L. W. Scott, M. L.
Shorney and A. M. Gotto Jr., Baylor University, Houston,
TX; R. D. Wood, B. C. O'Brien and R. Reiser, Texas A & M
University, College Station, TX.

SYNTHETIC LYSOPHOSPHOLIPID ANALOGS AND THEIR
USEFULNESS IN MEMBRANE STUDIES.
W. J. Baumann, S. Parthasarathy and R. Murari, University
of Minnesota, Austin, MN; M. M. A. Abd El-Rahman,
Alexandria University, Alexandria, Egypt.

DOPAMINE RECEPTOR FUNCTION IN NIE-115
NEUROBLASTOMA: EFFECTS OF MANIPULATING
MEMBRANE FATTY ACIDS.
M. G. Murphy, Dalhousie University, Halifax, N. S., Canada.

UPTAKE AND METABOLISM OF LIPID VESICLES FROM
SEAWATER BY JUVENILE PACIFIC OYSTERS,
CRASSOSTREA GIGAS.
R. S. Parker, Cornell University, Ithaca, NY; D. P.
Selivonchick, Oregon State University, Corvallis, OR.

**SESSION EE – SYMPOSIUM: Protein Chemistry
and Interactions**

CHAIRPERSONS: D. J. Sessa, Northern Regional
Research Center, Peoria, IL and
E. McCabe, Nestle Enterprises
Inc., Marysville, OH.

Meetings

NATIVE AND INDUCED CONFORMATIONAL MODES IN OILSEED STORAGE PROTEINS.

T. J. Jacks, Southern Regional Research Center, New Orleans, LA.

INTERACTION OF PROTEINS WITH SORGHUM TANNINS: MECHANISM, SPECIFICITY, AND SIGNIFICANCE.

L. G. Butler, D. J. Riedl and D. G. Lebryk, Purdue University, West Lafayette, IN.

PROTEIN-PHYTATE INTERACTIONS IN FOODS.

M. Cheryan and S. S. Deshpande, University of Illinois, Urbana, IL.

CALORIMETRIC STUDIES OF PHYTIC ACID SYSTEMS. IONIZATION CONSTANTS.

M. A. Marini, Northwestern University, Chicago, IL; W. J. Evans, Southern Regional Research Center, New Orleans, LA.

HEATS OF PRECIPITATION OF ZINC PHYTATE.

W. J. Evans, USDA, Southern Regional Research Center, New Orleans, LA; M. A. Marini, Northwestern University Medical School, Chicago, IL, and C. J. Martin, The Chicago Medical School, Chicago, IL.

PHYTATE AND MINERAL PARTITIONING IN AIR CLASSIFIED BEAN FLOUR FRACTIONS.

E. J. Tecklenburg, M. E. Zabik and M. A. Uebersax, Michigan State University, East Lansing, MI; J. C. Dietz and E. W. Lusas, Texas A & M University, College Station, TX.

PRODUCTION OF LOW-PHYTATE AND LIGHT-COLORED PROTEIN ISOLATE FROM DEFATTED SUNFLOWER FLOUR.

Y. R. Choi, E. W. Lusas and K. C. Rhee, Texas A & M University, College Station, TX.

SESSION FF – SYMPOSIUM: Surface Chemistry, Analysis and Environmental

CHAIRPERSON: J. A. Wingrave, Conoco, Ponca City, OK

THE DETERGENCY MECHANISM OF ROLL-UP, SOLUBILIZATION AND EMULSIFICATION ON LIQUID SOILS.

J. A. Wingrave, Conoco, Ponca City, OK.

BEHAVIOR OF SURFACTANT MIXTURES IN OILY-SOIL: DETERGENCY STUDIES.

M. P. Aronsen and E. D. Goddard, Union Carbide Corp., Terrytown, NY.

ACID SOAPS: THE PHASE BEHAVIOR OF ANHYDROUS AND HYDRATED 1:1 POTASSIUM HYDROGEN DIOLEATE.

D. P. Cistola, D. M. Small, D. Atkinson, and J. A. Hamilton, Boston University School of Medicine, Boston, MA. Honored Student Presentation.

ANALYTICAL METHODS OF ALPHA SULFO METHYL TALLOWATES.

G. Battagliini, J. L. Larsen-Zobus and T. G. Baker, Stepan Chemical Company, Northfield, IL.

PRIMARY AND ULTIMATE BIODEGRADATION OF AN ALCOHOL ETHOXYLATE AND A NONYLPHENOL ETHOXYLATE UNDER AVERAGE WINTER CONDITIONS IN THE U.S.

L. Kravetz, H. Chung, K. F. Guin, W. T. Shebs and L. S. Smith, Shell Development Company, Houston, TX.

THE CONTAMINATION OF BAR SOAP UNDER IN-USE CONDITIONS.

J. J. Kabara, Michigan State University, East Lansing, MI.

SESSION GG – SYMPOSIUM: Ralph Potts Memorial Symposium

CHAIRPERSON: L. Metcalf, ArmaK Co., McCook, IL

RALPH H. POTTS. HISTORY OF A PIONEER IN CHEMISTRY.
R. A. Reck, ArmaK Co., McCook, IL.

CRYSTALLIZATION PROCESSES.

F. B. White, Foster Wheeler Corp., Livingston, NJ.

SULFONATED METHYL ESTERS, THEIR SYNTHESIS, COMPOSITION AND APPLICATION.

G. A. Bonner and M. E. Tuvell, Ethyl Corporation, Baton Rouge, LA.

ALPHA SULFO METHYL TALLOWATE: SYNTHESIS AND PROCESS STUDIES.

Stepan Chemical Company, Northfield, IL.

A WASTE MANAGEMENT PROGRAM TO REDUCE COSTS AND OPTIMIZE REGULATORY COMPLIANCE.

J. McVaugh, ArmaK Company, Chicago, IL.

PRESENTATION BY RALPH POTTS MEMORIAL AWARDEE.

SESSION HH – SYMPOSIUM: Lipid Methodology

CHAIRPERSON: E. Perkins, University of Illinois, Urbana, IL

A REITERATIVE METHOD FOR CALCULATION OF TRIACYLGLYCEROL SPECIES IN NATURAL MIXTURES.

F. Manganaro, J. J. Myher and A. Kuksis, C. H. Best Institute, University of Toronto, Toronto, Canada. Honored Student Presentation.

ANALYSIS OF TRIGLYCERIDE SPECIES BY HIGH PERFORMANCE LIQUID CHROMATOGRAPHY VIA A FLAME IONIZATION DETECTOR.

W. L. Erdahl, F. C. Phillips and O. S. Privett, Hormel Institute, University of Minnesota.

DIRECT LIQUID INLET LC/MS OF NATURAL TRIACYLGLYCEROLS AND STERYL ESTERS.

A. Kuksis, J. J. Myher and L. Marai, University of Toronto, Toronto, Canada.

CHARACTERIZATION OF PEANUT TRIGLYCERIDES COMPOSITION BY HIGH PERFORMANCE LIQUID CHROMATOGRAPHY AND GAS LIQUID CHROMATOGRAPHY.

J. A. Singleton and H. E. Pattee, USDA, ARS, North Carolina State University, Raleigh, NC.

TRANSFORMATION ENERGETICS AND THEORETICAL α -FORM STRUCTURES OF TRIGLYCERIDES BY DSC AND COMPUTER MODELING.

J. W. Hagemann and J. A. Rothfus, Northern Regional Research Center, Peoria, IL.

VISUAL CHARACTERIZATION OF COCOA BUTTER CRYSTALS.

D. M. Manning and P. S. Dimick, Pennsylvania State University, University Park, PA. Honored Student Presentation.

THIN-LAYER CHROMATOGRAPHY/FLAME IONIZATION ANALYSIS OF TRANSESTERIFIED VEGETABLE OILS.

B. Freedman and E. H. Pryde, Northern Regional Research Center, Peoria, IL; W. F. Kwolek, Northern Central Region, ARS, USDA, Peoria, IL.

COMPLEXATION OF RHODIUM (I) SPECIES TO UNSATURATED LIPIDS.

R. Aneja, Clemson University, Clemson, SC; B. T. Golding and C. Pierpoint, Warwick University, U.K.

HIGH-PERFORMANCE LIQUID CHROMATOGRAPHY OF THE TOCOLS IN CORN GRAIN.

E. J. Weber, USDA, ARS, University of Illinois, Urbana, IL.

SESSION II – SYMPOSIUM: Petrochemical and

Meetings

**Fuel Alternatives from Fats and Oils. Part A.
Vegetable Oils as Fuel Alternatives.**

CHAIRPERSON: E. H. Pryde, Northern Regional Research Center, Peoria, IL.

CHARACTERIZATION OF COMPOSITION, SPRAY, AND ENGINE COMBUSTION OF FOURTEEN VEGETABLE OILS.
T. W. Ryan III, T. J. Callahan and L. G. Dodge, Southwest Research Institute, San Antonio, TX.

DURABILITY TESTS OF SUNFLOWER OIL AS A DIESEL FUEL.
K. R. Kaufman and M. Ziejewski, North Dakota State University, Fargo, ND.

VEGETABLE OILS AS DIESEL FUEL: PRELIMINARY DURABILITY SCREENING.
C. E. Goering and R. Fry, University of Illinois, Urbana, IL.

METHYL, ETHYL, AND BUTYL SOYBEAN ESTERS AS A RENEWABLE FUEL FOR DIESEL ENGINES.
S. J. Clark, P. G. Pienaar, L. Wagner and M. D. Schrock, Kansas State University, Manhattan, KS.

VARIABLES AFFECTING THE YIELDS OF FATTY ESTERS FROM TRANSESTERIFIED VEGETABLE OILS.
B. Freedman, E. H. Pryde and T. L. Mounts, Northern Regional Research Center, Peoria, IL.

SESSION JJ – SYMPOSIUM: General

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EFFECT OF PROPIONIC ACID ON AFLATOXIN ANALYSIS OF STORED GEORGIA DENT CORN SAMPLES.
O. L. Shotwell, G. A. Bennett, W. F. Kwolek and C. W. Hesseltine, Northern Regional Research Center, Peoria, IL.

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A. Angheliescu, J. M. Hasman and L. R. Strecker, CPC International, Best Foods, Union, NJ.

ON-LINE INFRARED COMPOSITION MEASUREMENTS OF MICELLA AND RELATED PROCESS STREAMS FOR INCREASED PRODUCTIVITY.
G. DeMattia, Foxboro Analytical, Burlington, MA; J. Blanchard, The Foxboro Co., Foxboro, MA.

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J. A. Robertson, USDA, ARS, Russell Research Center, Athens, GA.

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R. F. Bailey, Oxford Inst. Ltd., England.

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J. Mickle, A. H. Chen, P. J. Wan and D. D. McIntire, W. L. Clayton Research Center, Richardson, TX.

POSSIBILITIES AND LIMITS OF ANALYTICAL METHODS TO THE DETECTION OF ADULTERATION IN VEGETABLE OILS.
P. Y. Vigneron, Lesieur Cotellet and Associes, France.

FRACTIONAL CRYSTALLIZATION AND GAS CHROMATOGRAPHY ANALYSIS OF FATTY ACIDS AS A MEANS OF DETECTING BUTTERFAT ADULTERATION.
R. S. Farag, F. A. Ahmed, F. M. Hewedy and S. H. Abo-Raya, Fac. of Agriculture, Cairo University, Egypt; H. H. Khalifa, Egypt.

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CHAIRPERSON: J. L. Beare-Rogers, Dept. of

Health and Welfare, Ottawa, Ontario, Canada.

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E. J. Sing, Chicago, IL.

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D. S. Boehme, C. M. Roberts and S. P. Bessman, University of Southern California School of Medicine, Los Angeles, CA. Honored Student Presentation.

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S. K. Das and C. R. Nair, Meharry Medical College, Nashville, TN.

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N. K. Menon, G. A. Dhopeswarkar and J. F. Mead, University of California, Los Angeles, CA.

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D. T. Gordon, University of Missouri, Columbia, MO.

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R. J. Rodriguez and L. W. Parks, Oregon State University, Corvallis, OR. Honored Student Presentation.

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M. Sugano, M. Watanabe, K. Ryu, Y-J. Cho and T. Ide, Kyushu University, Fukuoka, Japan.

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J. K. Beckman, A. R. Brash and J. A. Oates, Vanderbilt University, Nashville, TN.

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CHAIRPERSONS: D. J. Sessa, Northern Regional Research Center, Peoria, IL and E. McCabe, Nestle Enterprises Inc., Maryville, OH.

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S. S. Deshpande and M. Cheryan, University of Illinois, Urbana, IL.

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B. P. Klein and M. A. Raidl, University of Illinois, Urbana, IL.

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S. L. Melton, University of Tennessee, Knoxville, TN.

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S. Latlief and D. Knorr, University of Delaware, Newark, DE.

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L. E. Camacho, Instituto de Nutricion Y Tecnologia de Los Alimentos, Santiago, Chile; M. P. Steinberg, University of Illinois, Urbana, IL.

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J. L. McNaughton, South Central Poultry Research Laboratory, Mississippi State, MS and E. C. Baker, Northern Regional Research Center, Peoria, IL.

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CHAIRPERSON: L. Metcalfe, Armak Co., McCook, IL.

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E. C. Leonard, Humko Chemical, Memphis, TN.

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M. Zakaria, Armak Company; J. K. Whitehead, Rycoline Products, McCook, IL.

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K. M. Chambers and C. P. Cullotta, Stepan Chemical Company, Northfield, IL.

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E. H. Fairchild and F. E. Friedli, Sherex Chemical Co., Dublin, OH.

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C-N. Wang and L. D. Metcalfe, Armak Co., McCook, IL.

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A. A. Shah, Emery Industries, Cincinnati, OH.

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CHAIRPERSON: S. Koritala, Northern Regional Research Center, Peoria, IL.

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J. D. Ray, CPC International, Best Foods, Union, NJ.

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J. D. Ray, CPC International, Best Foods, Union, NJ.

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J. A. Heldal, University of Trondheim, Norway.

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J. A. Heldal, University of Trondheim, Norway; E. N. Frankel, Northern Regional Research Center, Peoria, IL.

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S. Koritala, K. J. Moulton Sr. and E. N. Frankel, Northern Regional Research Center, Peoria, IL; and W. F. Kwolek, North Central Regional Research Center, Peoria, IL.

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K. J. Moulton Sr., S. Koritala and E. N. Frankel, Northern Regional Research Center, Peoria, IL.

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P. J. Wan and A. H. Chen, Anderson Clayton Foods, Richardson, TX.

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G. F. Diehl, M. E. Buffington and D. P. Bhasin, Air Products and Chemicals Inc., Allentown, PA.

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M. Calebotta and J. L. Gautier, Universidad de Santiago, Santiago, Chile.

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CHAIRPERSON: E. H. Pryde, Northern Regional Research Center, Peoria, IL.

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W. L. Barrentine, H. R. Hurst and J. E. Dale, Mississippi Agricultural and Forestry Experiment Station, Stoneville, MS.

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D. F. Clower, Louisiana State University, Baton Rouge, LA.

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R. G. Luttrell and R. Reid, Mississippi State University, Mississippi State, MS.

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M. M. Sckerl, Shell Development Company, Houston, TX.

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R. S. Freedlander, ICI Americas, Inc., Goldsboro, NC.

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S. G. McDaniel, B. M. McKay, R. L. Houston and L. D. Hatfield, FMC Corporation, Jackson, MS.

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W. J. Walla, Texas A & M University, College Station, TX.

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CHAIRPERSON: Noel D. Vietmeyer, National Academy of Sciences

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N. D. Vietmeyer, National Academy of Sciences.

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S. C. Anderson, Cargill Inc., Minneapolis and W. H. O'Brien,

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M. A. Einerson, H. W. Schaup and D. P. Selivonchick, Oregon State University, Corvallis, OR.

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J. E. Bauer, University of Florida, Gainesville, FL.

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C-S. J. Shen, Food and Drug Administration, Washington, DC; P. Yasaei and M. Aldridge, American University; A. J. Sheppard, Food and Drug Administration, Washington, DC.

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K. J. Welch, S. C. Johnson and Son, Inc., Racine, WI.

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Y. S. Huang and M. S. Manku, Efamol Research Institute, Kentville, Nova Scotia, Canada.

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J. L. Weihrauch, USDA, HNIS, CNC, Hyattsville, MD; J. Kerr, University of Missouri, College Park, MD.

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R. E. Worthington, H. L. Hitchcock, L. G. Pounds, J. L. Harper and D. M. Wilson Jr., University of Georgia, Experiment, GA.

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M. H. Love, Food and Nutrition, Iowa State University, Ames, IA and M. Dehghan, Tehran, Iran.

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D. P. Cistola, D. M. Small and J. A. Hamilton, Boston University School of Medicine, Boston, MA.

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K. Warner and T. L. Mounts, Northern Regional Research Center, Peoria, IL.

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CHAIRPERSON: L. L. Gershbein, Northwest Hospital, Chicago, IL.

TOTAL FATTY ACIDS OF ADULT HUMAN BRAIN.

L. L. Gershbein, K. Baburao, A. F. Pedroso and G. G.

Arellano, Northwest Institute Medical Research and Northwest Hospital, Chicago, IL.

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J. Bitman and D. L. Wood, USDA, ARS, Beltsville, MD; N. R. Mehta, P. Hamosh and M. Hamosh, Georgetown University Medical School, Washington, DC.

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S. F. C. Cunnane and D. F. Horrobin, Efamol Research Institute, Nova Scotia, Canada.

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L. D. Lawson, R. T. Holman and E. G. Hill, The Hormel Institute, University of Minnesota, Austin, MN.

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J. C. Alexander and H. Yoshida, University of Guelph, Guelph, Ontario, Canada.

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T. Ide and M. Sugano, Kyushu University, Higashi-ku, Fukuoka, Japan.

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CHAIRPERSON: A. H. Chen, Anderson Clayton Foods, Richardson, TX.

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A. Feldbrugge, General Foods Corporation, White Plains, NY.

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J. Arce, Frito-Lay; V. Sweat and K. Diehl, Texas A & M University, College Station, TX.

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Y. C. Jao, Miles Laboratories, Inc., Elkhart, IN; A. H. Chen, Anderson Clayton Foods, Richardson, TX and W. E. Goldstein, Miles Laboratories, Elkhart, IN.

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L. D. Schopf, Baker Perkins, Inc., Goldsboro, NC.

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R. D. Phillips and M. B. Kennedy, University of Georgia, Experiment, GA.

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CHAIRPERSON: D. Leo, Anderson Clayton Foods, Richardson, TX.

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R. G. Moore, Anderson Clayton Foods, Richardson, TX.

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C. G. Hill, Sonoco Products Company, Hartsville, SC.

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W. W. Go, W. J. Kollen and S. A. Jabarin, Owens-Illinois, Inc., Toledo, OH.

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CHAIRPERSON: R. H. Hron Sr., Southern Regional Research Center, New Orleans, LA.

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A. B. Caragay, Arthur D. Little, Inc., Cambridge, MA.

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S. F. Heleba, R. A. Mikulski, J. Hickman and M. M. Cook, Thiokol/Ventron Division, Danvers, MA.

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R. J. Hron Sr. and S. P. Koltun, USDA, ARS, Southern Regional Research Center, New Orleans, LA.

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F. R. Kincs, Bunge Edible Oil Corporation, Kankakee, IL.

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H. L. Fuller, University of Georgia, Athens, GA.

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Benson, H. L.	Z	Dale, J. E.	OO	Gilbert, A. H.	Q	Kajiwara, T.	O
Berdel, W. E.	BB	Das, S. K.	KK	Glines, L. A.	DD	Kantha, S. S.	P
Berger, K. G.	E	Davies, C. S.	O	Go, W. W.	SS	Katori, T.	U
Bernadini, M.	TT	Davies, R. E.	M	Goddard, E. D.	C, FF	Kaufman, K. R.	II
Besemer, M. L.	O	Dehghen, M.	Poster	Goering, C. E.	II	Keegstra, K.	A
Bessman, S. P.	KK	DeJarlais, W. J.	T	Goh, E. H.	U	Kelly, D.	K
Bhasin, D. P.	NN	de Lima Taga, M. S.	M	Golding, B. T.	HH	Kennedy, M. B.	RR
Bitman, J.	QQ	DeMattia, G.	JJ	Goldstein, W. E.	RR	Kerr, J.	Poster
Blanchard, J.	JJ	Dennis, D. T.	A	Goltermann, D.	Y	Keyes, W. W.	CC
Boehme, D. S.	KK	de Raaf, G. H.	Q	Gordon, D. T.	KK	Khalifa, H. H.	JJ
Bollheimer, P.	NN	Deshpande, S. S.	EE, LL	Gotto, A. M. Jr.	DD	Kies, C.	B
Bonner, G. A.	GG	Dhopeshwarkar, G. A.	KK	Grosch, W.	F, O	Kim, B.	Z
Bookwalter, G. N.	P	Diehl, G. F.	NN	Guin, K. F.	FF	Kincs, F. R.	UU
Bothast, R. J.	P	Diehl, K.	RR	Haddeman, E.	AA	King, J. W.	R
Bramhall, J.	BB	Diersen-Schade, D. A.	I	Hagemann, J. W.	HH	Kingsbaker, C. L.	L
Brash, A. R.	KK	Dietz, J. C.	EE	Hager, L. P.	N	Kircher, H. W.	G, H
Bredeson, D.	E	DiMarco, N.	I	Hamblin, C. L.	VV	Klein, B. P.	LL
Brown, C.	CC	Dimick, P. S.	HH	Hamilton, J. A.	FF, Poster	Kline, D.	U
Brown, D. M.	AA	Dixit, N. S.	J	Hammond, E. G.	H	Kloeze, J.	AA
Buck, D. F.	D	Dodge, L. G.	II	Hamosh, M.	QQ	Klonowski, J.	UU
Buffingston, M. E.	NN	Duffy, A. M.	I	Hamosh, P.	QQ	Knorr, D.	LL
Bunich, F. J.	V	Dupont, J.	B	Harper, J. L.	Poster	Koberda, A. M.	Z
Burger, W. C.	B	Dupuy, H. J.	M	Hartemink, J.	CC	Kohasi, H.	G
Burton, J. L.	AA	Dutton, H. J.	Poster	Hartnett, W. J.	CC	Kollen, W. J.	SS
Burton, J. W.	B	Einerson, M. A.	Poster	Hasman, J. M.	JJ	Koltun, S. P.	I, TT
Butler, L. G.	EE	Eissler, R. L.	R	Hatanaka, A.	O	Komoda, M.	DD
Calebotta, M.	NN	El-Hamdy, A. H.	VV	Hatfield, L. D.	OO	Koop, D. R.	QQ
Callahan, T. J.	II	El-Rahman, M. M. A. A.	DD	Hau, L.-B.	F	Koritala, S.	NN
Callihan, C. D.	W	Elson, C.	B	Hayworth, S. R.	I	Kravetz, L.	FF
Camacho, L. E.	W, LL	Emken, E.	G, T	Heifman, J. E.	L	Kritchevsky, D.	I
Campbell, E. J.	S	Erdahl, W. L.	HH	Heldal, J. A.	NN	Krukonis, V.	R
Capitani, S.	BB	Erdman, J. W. Jr.	P	Heleba, S. F.	TT	Krumbein, J. P.	CC
Caragay, A. B.	TT	Erickson, D. R.	S	Henderson, H. M.	V	Kuksis, A.	HH
Carlson, K. D.	P	Erickson, K. L.	BB	Herrmana, K.	P	Kummerow, F.	B
Cavanagh, G. C.	S	Eskin, N. A. M.	V	Hesseltine, C. W.	JJ	Kupfer, D.	QQ
Chambers, K. M.	MM	Estefan, R.	PP	Hewedy, F. M.	JJ	Kuo, T.	A
Chan, H. W.-S.	F	Evans, W. J.	EE	Hickman, J.	TT	Kurnick, R. T.	R
Chang, M. L. W.	BB	Fairchild, E. H.	MM	Hill, C. G.	SS	Kuster, L.	D
Chang, S. S.	V	Fairhurst, D.	C	Hill, E. G.	QQ	Kwolek, W. F.	HH, JJ, NN
Chappital, D. C.	V	Farag, R. S.	JJ	Hitchcock, H. L.	Poster	Lagoda, A. A.	P
Chen, A. H.	JJ, NN, RR	Farquharson, T. E.	T	Ho, C.-T.	V	Lands, W. E. M.	N, AA
Chen, C.-S. J.	Poster	Feighner, G. C.	Q	Hochman, Y.	N	Lane, M. D.	DD
Chen, T. C.	VV	Feldbrugge, A.	RR	Holman, R. T.	AA, QQ	Larsen-Zobus, J. L.	FF

Meetings

Latlief, S.	LL	Min, D. B.	D	Richmond, A.	I	Steinberg, M. P.	LL
Latondress, E. G.	UU	Mohamed, A. M.	H	Riedl, D. J.	EE	Storry, J.	I
Lawlor, R. E.	I	Moore, N. H.	E	Ritter, J. M.	R	Strecker, L. R.	JJ
Lawson, K. M.	I	Moore, R. G.	SS	Rivas, M. A.	TT	Stumpf, P. K.	A, H
Lawson, L. D.	QQ	Moore, T. S. Sr.	A	Roberts, C. M.	KK	Sugano, M.	KK, QQ
Layrisse, I.	C	Moulton, K. J. Sr.	NN	Robert, J.	M	Sweat, V.	RR
Le Bard, N. M.	S	Mounts, T. L.	II, Poster	Robertson, J. A.	JJ	Tandy, D. C.	S
Lebryk, D. G.	EE	Mudd, J. R.	A	Rodriguez, R. J.	KK	Taylor, C. A.	AA
Lee, K-C. M.	V	Murari, R.	DD	Roman, J. M.	Poster	Tecklenburg, E. J.	EE
Lee, L. S.	I	Murphy, M. G.	DD	Rosenstein, F. U.	G	Theoharides, A. D.	QQ
Legendre, M. G.	M	Myers, N.	L	Roth, C. D.	Z	Tooke, H. L.	P
Leibovitz, Z.	TT	Myher, J. J.	HH	Rothfus, J. A.	HH	Trautmann	Z
Leisman, G.	N	Nadler, E.	N	Ruckenstein, C.	TT	Troyer, G. D.	A
Leonard, E. C.	MM	Nagel, B.	AA	Ryan, T. W. III	II	Tuhackova, Z.	BB
Leung, R.	J	Nair, C. R.	KK	Ryu, K.	KK	Tuvell, M. E.	GG
Liepa, G.	I	Nawar, W. W.	F, V, VV	St. Angelo, A. J.	M	Uebersax, M. A.	EE
Lindgren, F. T.	DD	Neff, W. E.	F	St. John, J. B.	H	Vadehra, D. V.	U
Linfield, W. M.	Z	Neuzil, E.	N	Sanders, T. H.	H	van Knapelm, F.	U
Lissant, K. J.	C	Nicolas-Morgantini, L.	C	Sandvig, H. J.	L	Vatsis, K. P.	QQ
List, G. R.	Y	Nielsen, N. C.	O	Sarmiento, S. M.	TT	Verbiscar, A.	PP
Liu, F-C	I	Nishikawa, Y.	U	Sassoli, R.	TT	Verschuren, P. M.	AA
Llenado, R.	Q	Notermans, S. H. W.	U	Saunders, R. M.	W	Vick, B. A.	O
Logani, M. K.	M	Oates, J. A.	KK	Saute, R. E.	PP	Vietmeyer, N. D.	PP
Loncin, M.	C	O'Brien, C.	DD	Sayre, R. N.	W	Vigneron, P. Y.	JJ
Love, J. H.	Y	O'Connor, D. E.	F	Schaup, H. W.	Poster	von Eschen, P. A.	K
Love, M. H.	Poster	Ohkawa, M.	U	Schechter, R. S.	J	Wade, W. H.	J
Lupu, M.	N	Ohlrogge, J. F.	A	Schemmel, R. A.	U	Wagner, L.	II
Lusas, E. W.	L, EE	Oron, Y.	N	Schmolka, I. R.	Z	Wall, J. S.	P
Luttrell, R. G.	OO	Oscarson, J. L.	Y	Schoene, N. W.	AA	Walla, W. J.	OO
Mag, T. K.	S	Ory, R. L.	V	Scholfield, C. R.	T	Walter, W. M. Jr.	W
Mackay, R. A.	J	Owen, D. F.	W	Schopf, L. D.	RR	Wan, P. J.	JJ, NN
Magrum, L. J.	AA	Pan, W. P.	H, VV	Schrock, M. D.	II	Wang, C-N	MM
Maimud, I.	AA	Park, D. L.	I	Sckerl, M. M.	OO	Wang, H. L.	W
Manganaro, F.	HH	Parker, R. S.	DD	Scotts, L. W.	DD	Warner, K.	D, Poster
Manku, M. S.	AA, Poster	Parks, L. W.	KK	Seiders, R. P.	J	Wasan, D. T.	C
Manning, D. M.	HH	Parthasarathy, S.	DD, Poster	Sevedio, J-L.	T	Watanabe, M.	KK
Manohar, C.	J	Pattee, H. E.	M, HH	Sekiya, J.	O	Weber, E. J.	HH
Manzoli, F. A.	BB	Pedroso, A. F.	QQ	Selivonchick, D. P.	DD, Poster	Weber, K.	S, TT
Mara, M.	N	Peers, K. E.	F	Selke, E.	D, F, V	Wechsler, J. R.	Z
Marai, L.	HH	Perkins, E. G.	M, VV	Senti, E.	W	Weihrauch, J. L.	Poster
Marita, A. R.	Poster	Phillips, F. C.	HH	Shah, A. A.	MM	Weisleder, D.	F
Maraldi, N. M.	BB	Phillips, R. D.	RR	Shah, B.	M	Weich, K. J.	Poster
Marini, M. A.	EE	Pienaar, P.G.	II	Shah, D. O.	J	White, F. B.	GG
Marmer, W. N.	T	Pierpont, C.	HH	Shah, W. T.	FF	White, J. L.	G
Marshall, L. A.	AA	Pinter, S.	M	Shebbs, W. T.	FF	Whitehead, J. K.	MM
Martin, B. A.	H	Plattner, R. D.	V	Sheppard, A. J.	Poster	Whittaker, C. A.	PP
Martin, C. J.	EE	Pollard, M.	H	Sherratt, H. S. A.	N	Wilcox, J. R.	O
Mathias, M.	B, AA	Pomeranz, Y.	BB	Sheu, S-S	VV	Willis, A. L.	AA
Matson, T. P.	Q	Pominski, J.	Y	Shi, H.	V	Wilson, D. M. Jr.	Poster
McCarry, M. A.	AA	Poon, W.	U	Shimbo, K.	D	Wilson, R. F.	H
McDaniel, S. G.	OO	Poquet, E.	C	Shimley, E.	CC	Wingrave, J. A.	FF
McIntire, D. D.	JJ	Poulicard, J.	C	Shore, V. G.	DD	Wisniak, J.	PP
McKay, B. M.	OO	Pounds, L. G.	Poster	Shorney, M. L.	DD	Wisniewski, B. J.	N
McNaughton, J. L.	LL	Prado, F. L.	CC	Shotwell, O. L.	JJ	Woerfel, J. B.	S, UU
McVaugh, J.	GG	Pratt, D. E.	M	Siffrini, I.	C	Wolff, J. P.	L
Mead, J. F.	F, KK	Privett, O. S.	HH	Silvers, A.	DD	Wood, D. L.	QQ
Mehta, K. I.	W	Probstfield, J. L.	DD	Simeral, W. K.	K	Wood, R. D. Jr.	DD
Mehta, N. R.	QQ	Prokop, W. H.	UU	Sims, M.	Y	Worthington, R. E.	Poster
Melendy, D.	K	Pryde, E. H.	HH, II	Sims, R. J.	M	Wright, S.	AA
Melton, S. L.	LL	Qureshi, A.	B	Sing, E. J.	KK	Wu, G-S	F
Menon, N. K.	KK	Raidl, M. A.	LL	Singleton, J. A.	HH, M	Wu, Y. V.	P
Menon, V. B.	C	Rakoff, H.	G	Siuta-Mangano, P.	DD	Wurzenberger, M.	F, O
Metcalfe, L. D.	MM	Randhava, R.	Y	Small, D. M.	FF, Poster	Yasaai, P.	Poster
Michalec, C.	N	Rastetter, J.	BB	Smith, D. L.	AA	Yoshida, H.	QQ
Micich, T. J.	Z	Ray, J. D.	NN	Smith, L. M.	VV	Yuan, S.	G
Mickel, H. S.	N	Reck, B. A.	GG	Smith, L. S.	FF	Zavik, M. E.	EE
Miernyk, J. A.	A	Recny, M.	N	Snook, J.	D, R	Zakaria, M.	MM
Mihelich, E. D.	F	Redgrave, T. G.	G	Snyder, J. M.	D, R	Zakim, D.	N
Mikle, J.	JJ	Reed, J. G. Jr.	K	Sosulski, F. W.	P	Ziejewski, M.	II
Mikova, Z.	N	Reichert, A.	BB	Sparace, S. A.	A	Zimmerman, D. C.	O
Mikulski, R. A.	TT	Reid, R.	OO	Spence, M. W.	AA	Zinkel, D. F.	T
Mills, E. B.	I	Reiser, R.	DD	Stasinopoulos, T.	D	Zradba, A.	C
Milner, A. N.	I	Rhee, K. E.	EE	Stein, R. A.	F	Zurawski, J. W.	M

Meetings



World Conference Social Events

Several social events and an active spouses' program are being planned for the World Conference on Oleochemicals to be held Sept. 18-23, 1983, in Montreux, Switzerland.

The conference is designed to provide a thorough international review of the latest technical, marketing and economic factors for the oleochemical industry. The social events are scheduled to provide opportunity for informal conversation among speakers and registrants.

Social events for all conference registrants in Montreux will include a welcoming mixer, a Wednesday (Sept. 21) afternoon boat tour on Lake Geneva to France, and a Thursday (Sept. 22) evening Swiss party at the Montreux Casino, an entertainment complex along the Lake Geneva shore.

Spouses' program registrants will be eligible to attend all of those events. In addition, organizers tentatively have scheduled a local excursion on Monday, a three-countries-in-one-day tour (Switzerland-France-Italy) for Tuesday, and a visit Thursday to the nearby international headquarters of the Nestlé corporation.

Program committee members have virtually completed selection of speakers for the plenary program. The full program will be announced in the May issue of JAOCS.

Plenary program session topics include marketing and economics; fatty acid production; fatty acid derivatives; raw materials; energy conservation; environmental considerations; fatty alcohols; nitrogen derivatives; oleochemical applications; analytical techniques; and new developments in the oleochemical industry.

ISF to meet in Budapest

The 16th Congress of the International Society for Fat Research has been scheduled for Oct. 4-7, 1983, at the Hungarian Academy of Sciences in Budapest, Hungary.

General chairman is Prof. Janos Hollo, director of the Central Research Institute for Chemistry of the Hungarian Academy of Sciences. The preliminary technical program includes the following topics: raw materials; biochemistry, chemistry and analysis of fatty materials; processing; food ingredients; feedstuffs; soaps and detergents; cosmetics, surface coatings; emulsifiers; protein; waste materials and their use; environmental concerns; energy conservation; marketing; packaging; high density lipoproteins; and hyperlipoproteinaemias.

Deadline for submitting abstracts was Dec. 31, 1982. Regular session and poster sessions will be held. Information about the technical program and registration is avail-

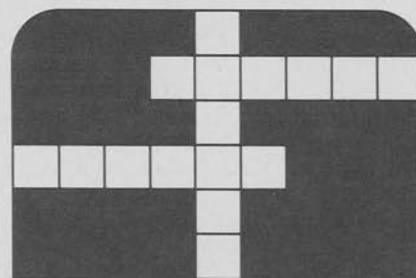
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Meetings

ble from the ISF Conference Secretariat, Hungarian Scientific Society of Food Industry (METE), H-1054 Budapest, Akademia u. 1-3., PO Box 5 (telephone 122 859; telex: 225792 mtesz-mete-h).

The meeting is being arranged by the ISF and the Hungarian Scientific Society of Food Industry with the support of the Ministry of Food and Agriculture, the Committee on Food Science of the Hungarian Academy of Sciences, the Hungarian Scientific Society for Food Industry, the Hungarian Vegetable Oil and Detergent Industries, the Trust of Livestock Trade and Meat Industry of Hungary and the Hungarian Dairy Association.

The second circular about the meeting is expected to be distributed sometime in February.

ISO fats, oils committee to meet

The Agricultural Food Products and Animal and Vegetable Fats and Oils Committee of the International Organization for Standardization will meet Feb. 15-18, 1983, at the Association Française de Normalisation in Paris, France. For more information, write to ISO, Association Française de Normalisation, Tour Europe, F 92080 Paris La Defense, France.

BioEnergy '84 in June 1984

BioEnergy '84, a bio-energy world conference and exhibition geared for those working in energy technologies and planning, is slated for June 18-21, 1984, in Göteborg, Sweden. Organizers for the conference are the Swedish Trade Fair, The Swedish Bio-Energy Association, The National Swedish Board for Energy Source Development and the Bio-Energy Council in Washington, DC, U.S.A. For more information, contact The Bio-Energy Council, 1625 Eye St. N.W., Suite 825A, Washington, DC 20006, U.S.A.

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