

MEETINGS



E.G. Perkins



F.T. Lindgren

Short courses slated on analysis of fats

An AOCS-sponsored educational program on Analysis of Fats, Oils and Lipoproteins, slated for Nov. 26-30, 1989, at the Ramada Hotel O'Hare, Rosemont, Illinois, in fact offers two short courses.

The first course—Analysis of Fats, Oils and Other Lipids—will be offered Nov. 26-30. The second course—Isolation, Characterization and Quantitative Analysis of Lipoproteins—will run Nov. 28-30. Chairpersons for the short courses are E.G. Perkins of the University of Illinois at Urbana and F.T. Lindgren of the University of California at Berkeley.

The Analysis of Fats, Oils and Other Lipids course will include the following topics: the analysis of fats, oils and derivatives; basic chemistry of fats, oils and lipids oxidation control; and the assessment of fat and oil quality. Registration to this course includes an opening cocktail reception on Nov. 26, coffee breaks, published course proceedings and four days of technical sessions, with the opportunity to cross over into the second course's lipoprotein sessions on Wednesday, Nov. 29, and Thursday, Nov. 30.

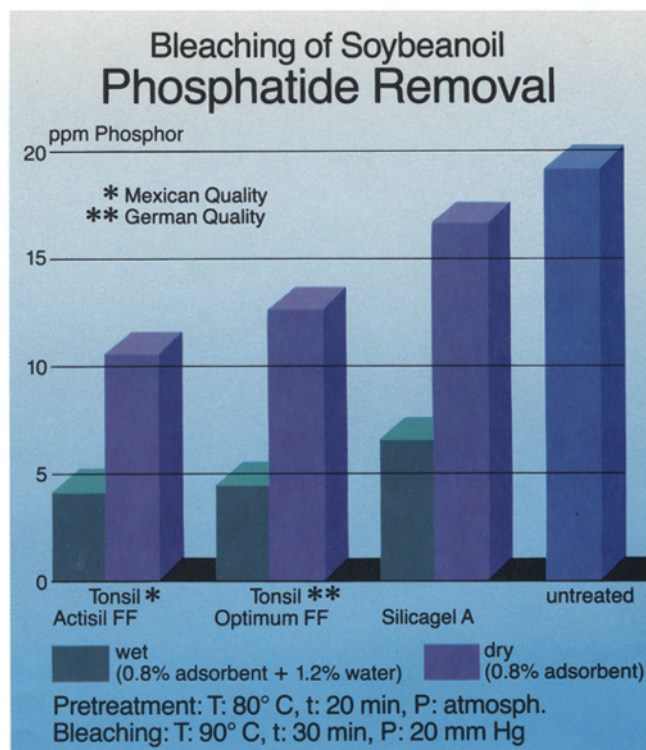
The Isolation, Characterization and Quantitative Analysis of Lipoproteins course will provide a concentrated review of major laboratory techniques, including considerations for lipoprotein isolation and analysis, electrophoresis of lipoproteins, and analysis of serum lipids and lipoproteins with an automated robotic clinical analyzer. The course will begin with an historical overview of lipoprotein research. The registration fee includes coffee breaks, two days of sessions on lipoproteins, the opportunity to cross over into sessions on the analysis of fats, oils and other lipids, published course proceedings, and a cocktail reception and banquet.

Early registration fees are valid until Oct. 26, 1989. After that date, fees will increase by \$35. The early registration fees are \$495 for AOCS members, \$520 for nonmembers for the two-in-one educational program; \$300 for AOCS members, \$325 for nonmembers for the second course only. For further information, contact AOCS Headquarters, PO Box 3489, Champaign, IL 61826-3489, USA, telephone 217-359-2344. An accompanying article outlines the preliminary technical program for the courses.

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The graph shows the results of one of a series of tests which we carried out in order to compare the activity of TONSIL bleaching earths with that of other adsorbents.

Example: Removal of phosphatides



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MEETINGS

Short Course Tentative Technical Programs

Course 1: Analysis of Fats, Oils and Other Lipids

Monday, Nov. 27

Introduction and Welcome: E.G. Perkins

Moderator: L.A. Witting

Lipid Classification, E.G. Perkins

Basic Chemistry of Fats, Oils & Lipids Oxidation Control, E.G. Perkins

Isolation of Lipids from Plant & Animal Matrices, G.J. Nelson

Moderator: A. Kuksis

Applications of Thin Layer Chromatography to Lipid Separations:

Neutral Lipids, R.G. Ackman

Phospholipids, L.A. Witting

Gangliosides, Galactolipids and Sphingolipids, L.A. Witting

Detection Methods, R.G. Ackman

Solid Phase Extraction Chromatography Applied to Lipids, G. Wachob

Discussion of Monday's presentations: L.A. Witting, moderator

Tuesday, Nov. 28

Moderator: R.G. Ackman

Applications of High Performance Liquid Chromatography to Lipid Separation and Analysis:

Basic Instrumentation & Theory for the Practicing Chromatographer, L.A. Witting

Sample Preparation, T.A. Foglia

Phase Selection, T.A. Foglia

General Qualitative & Quantitative Analysis, T.A. Foglia

Applications:

Neutral Lipids, V.K.S. Shukla

Qualitative & Quantitative Analysis of the Molecular Species of Lipids (Neutral & Compound Lipids), A. Kuksis

Lipid Derivatives, V.K.S. Shukla

Applications of Gas Liquid Chromatography to Lipid Separation and Analysis

Theory: Packed & Capillary Column GLC, E.G. Perkins

Sample Preparation & Derivatization, R. Wood

Qualitative & Quantitative Analysis, R.G. Ackman

Applications, R. Wood

Discussion of Tuesday's presentations.

Wednesday, Nov. 29

Moderator: V.K.S. Shukla

Eicosanoids, Speaker to be announced

Separation & Analysis of Long Chain Nitrogen Containing Chemicals, G. Szajer

Analysis of Surface Active Agents, T.M. Schmitt

Moderator: E.G. Perkins

Assessment of Fat and Oil Quality

Volatile Odor and Flavor Components

Sensory Methodology, K. Warner

Instrumental Methodology, M.E. Bailey

Trace Metal Analysis, R.P. Ruiz

Official and Tentative Methods, D.L. Berner

Discussion of Wednesday's presentations: V.K.S. Shukla, moderator

Thursday, Nov. 30

Moderator: D.L. Berner

Applications of NMR Spectrometry, T.M. Eads

Wide Line or Low Resolution, T.M. Eads

High Resolution Proton and C¹³ NMR, T.M. Eads

Other Nuclei, T.M. Eads

Pulsed NMR, V.K.S. Shukla

Applications of Mass Spectrometry and GC-MS FAB and HPLC-MS, A. Kuksis

Computer Applications, M. Matlock

Robotics in the Lipid Analytical Laboratory, Speaker to be announced

Discussion of Thursday's presentations: V.K.S. Shukla, moderator

Course 2: Isolation, Characterization and Quantitative Analysis of Lipoproteins

Wednesday, Nov. 29

Moderator: G.J. Nelson

Introduction, F.T. Lindgren

Historical Perspective, F.T. Lindgren

General Preparative Ultracentrifugation and Considerations for Lipoprotein Isolation, G. Fless

Preparative Ultracentrifugation and Analytic Ultracentrifugation, F.T. Lindgren

Single Spin Density Gradient Systems and Micropreparative Ultracentrifugation, J.E. Bauer

Panel Discussion: J.E. Bauer, leader

Electrophoresis, V. Shore

MEETINGS

Low Pressure and High Performance Chromatography,
C. Edelstein

Immunoaffinity Chromatography of Plasma Lipoprotein Particles, P. Alaupovic
Panel Discussion

Thursday, Nov. 30

Isolation and Analysis of Lipoprotein Enzymes, C. Fielding

Electroimmunoassay and Enzyme-Linked Immunosorbent Assay for Quantitative Determination of Plasma, P. Alaupovic

Analysis of Serum Lipids & Lipoproteins with an Automated Robotic Clinical Analyzer, R. Wood
Panel Discussion

Closing Remarks: F.T. Lindgren and J.E. Bauer

Palm oil meeting

The Palm Oil Research Institute of Malaysia (PORIM) will hold its 1989 International Palm Oil Development Conference Sept. 5-9, 1989, at the Kuala Lumpur Hilton, Kuala Lumpur, Malaysia.

Topics to be discussed include the nutritional and health aspects of palm oil, agricultural aspects, and the chemistry, technology and marketing of palm oil. There will be an exhibition, conference tours, ladies' program and sports events held in conjunction with the meeting.

For details, contact the Conference Management Secretariat, PORIM, PO Box 10620, 50720 Kuala Lumpur, Malaysia.

AOCS organizes detergent conference

A joint AOCS/CSMA detergent industry conference on New Horizons for Surfactants and Detergents will be held Oct. 29-Nov. 1, 1989, at the Hotel Hershey, Hershey, Pennsylvania. This year's conference is being organized by AOCS and Ted Matson of Vista Chemical Co. is serving as chairperson.

The conference is aimed at middle and upper management of detergent manufacturing companies as well as suppliers to the industry. The purpose is to offer a technological update on the detergent industry in the U.S. and abroad. It will allow attendees to be aware of new surfactant materials, new uses for regular surfactant materials and happenings in formulation technology.

The conference will cover:

- surface chemistry
- marketing and consumer attitudes in Europe and Japan
- technical presentations on new ways to use existing surfactants and additives

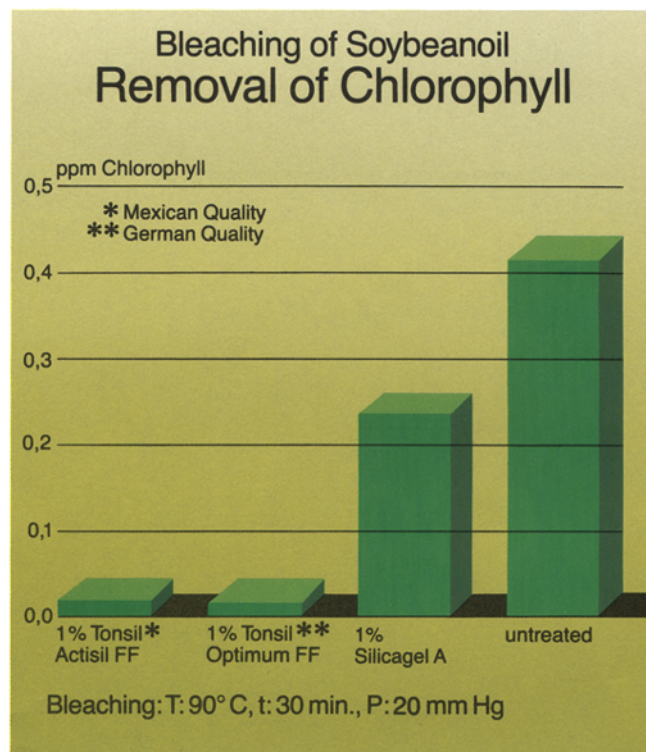
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Example: Removal of chlorophyll



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- new technology in formulating detergent products

- future needs of formulators
- future challenges for suppliers.

The dinner speaker at the conference opening on Sunday, Oct. 29, will be William Mahoney, group vice president of Witco Corp. The final session on Wednesday morning, Nov. 1, will be a panel discussion in which leaders from detergent manufacturing companies and raw material suppliers will discuss their ideas on major needs and problems of the industry.

Dietary lipids

An international symposium entitled "New Aspects on the Benefits, Hazards and Uses of Dietary Lipids" will be held Sept. 18-20, 1989, at the Hotel Novotel, Göteborg, Sweden. The symposium is sponsored by the International Union of Food Science and Technology and is being organized by the Swedish National

Committee of Food Science and Technology and the Swedish Institute for Food Research (SIK).

The program will include the following sessions:

- the metabolism of dietary lipids—cholesterol metabolism, lipoprotein metabolism, omega-3 and omega-6 fatty acids, lipids and bioavailability of pharmaceuticals.

- sterols, wax esters and synthetic noncaloric fats—plant sterols as antipolymerization agents, pharmacological effects of methyl sterols, sucrose polyesters and jojoba oil.

- oxidized lipids—biological effects of ether lipids, polyunsaturated free fatty acids and endooxidation, reactive forms of oxygen, antioxidants as drugs and toxicological aspects of dietary lipids.

- new sources and processes for dietary lipids—microbial production of lipids, underdeveloped sources of edible oil, microalgae as a source of eicosapentaenoic acid, membrane bioreactors for lipid modification, and genetic engineering of hydrolytic enzymes.

INSIDE AOCS

Williams, Mustafa win Smalley awards

James E. Williams of Archer Daniels Midland Co. (ADM) and Shams Mustafa of Caleb Brett (USA) Inc. won the top awards for analysis of fats and oils in the 1988-89 Smalley Cooperative Check Sample Program. Williams earned the Smalley Award; Mustafa earned the R.T. Doughtie Jr. Award.

The Smalley Award is presented for best analysis of oilseed meal for combined nitrogen, oil and moisture. It is named for Frank Smalley, founder of the AOCS check sample program. The Doughtie Award is given for the best analysis of cottonseed for foreign matter, moisture, free fatty acids, oil and ammonia. Formerly the Barrow-Agree Award, it is named for Richard T. Doughtie Jr., a long-time chairman of the Smalley program.

Williams and Mustafa were awarded plaques at the 1989 AOCS annual meeting in Cincinnati in May to recognize their achievement. Nearly 400 chemists annually participate in the AOCS Smalley Check Sample Program to check their proficiency in analytical techniques used in the fats and oils industry worldwide.

All chemists earning first place and honorable mention certificates were recognized at the annual meeting for their outstanding analytical proficiency. The following is a list of the first-place winners:

Oilseed Meal

Combined moisture, oil and nitrogen
First Place (Smalley Award)
 James E. Williams, ADM, Clarksdale, MS

Moisture

First Place
 Robert Humphreys, Southern Cotton Oil, Division of ADM, Memphis, TN

Oil

First Place
 Winnifred Hunter, Pope Testing Laboratories, Dallas, TX

Nitrogen

First Place
 Rolland Miller, A.E. Staley Mfg. Co., Decatur, IL

Crude Fiber

First Place
 John Ledin, Ardin Backous and William Slagle, Woodson-Tenent Laboratories, Des Moines, IA

Soybeans

Combined moisture, oil and ammonia
First Place
 John Ledin, Ardin Backous and William Slagle, Woodson-Tenent Laboratories, Des Moines, IA

Cottonseed

Foreign matter, moisture, free fatty acids, oil and ammonia
First Place (R.T. Doughtie Jr. Award)
 Shams Mustafa, Caleb Brett (USA), Jefferson, LA

Sunflower Seed

Foreign matter, moisture and oil
First Place
 Paul C. Thionville, Thionville Laboratories, New Orleans, LA

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