



# Annual meeting to feature 300 talks

The 1989 AOCs annual meeting, to be held May 3-6, 1989, in Cincinnati, will feature nearly 300 technical papers and approximately 40 poster presentations. Included will be symposia on fat substitutes, plant lipids, protein and co-products, mycotoxins and plant biotechnology.

Other technical sessions will focus on surfactants and detergents, physical and analytical chemistry techniques, canola in the U.S., various dietary fatty acids including omega-3, pharmacological effects of lipids and proteins, oilseed processing, flavor quality and stability, nutrition and biology, fatty acids and fatty chemicals, seeds and oils, and other analytical topics.

The meeting will be held at the Albert B. Sabin Convention Center in Cincinnati. Preceding the meeting will be two short courses—Specialty Fats: Production and Application, and Soap Technology for the 1990s—to be presented April 30-May 2, 1989, at the Kings Island Inn, Kings Island, Ohio. For more information on the short courses, see separate article in this section.

## Registration hours

The registration desk for the annual meeting will open at 2 p.m. Wednesday, May 3, in the North Hall of the convention center and will remain open until 6:30 p.m. Registration hours during the remainder of the meeting will be 7 a.m. to 5 p.m. Thursday, May 4; 8 a.m. to 5 p.m. Friday, May 5; and 7 a.m. to 2 p.m. Saturday, May 6.

All technical sessions and committee meetings will be held at the convention center. For the committee schedule, see separate article. Meeting hotels are the Clarion Hotel Cincinnati, Hyatt Regency Cincinnati and Omni Netherland Plaza. Cincinnati is one of the few cities in the U.S. to have an elevated skywalk. Thus, meeting participants can walk from their hotels to the convention center, shops, restaurants and department stores with-



A view of downtown Cincinnati, including hotels to be used for the 1989 AOCs annual meeting (foreground) and the Riverfront Stadium (far right), home of the Cincinnati Reds. Meeting participants wishing to attend the Cincinnati Reds' game against the Philadelphia Phillies Friday evening, May 5, can buy tickets at the AOCs meeting registration desk in the convention center. Tickets, costing \$5.50 each, must be purchased by Thursday evening, May 4. The ballgame will begin at 7:30 p.m.

out crossing traffic or getting wet if it rains.

## Exhibit hours

An exhibition featuring suppliers of equipment and services to the fats and oils industry will be held in the North Hall at the convention center (see separate article listing exhibitors).

The exhibition will be open Wednesday, May 3, from 2 to 8:30 p.m. Exhibit hours during the remainder of the annual meeting will be 9 a.m. to 5 p.m. both Thursday and Friday (May 4-5), and 9 a.m. to 1:30 p.m. Saturday, May 6.

## Social events

The annual meeting will begin with an opening mixer from 6:30 to 8:30 p.m. Wednesday, May 3, in the North Hall, site of the exhibition accompanying the meeting.

AOCs will hold its annual business meeting at the 7:30 a.m. breakfast Thursday, May 4, in the convention center ballroom. That eve-

ning, buses will depart at 6 p.m. to take participants to the riverfront for a riverboat dinner cruise on the Ohio River. This optional event includes dinner, soft drinks, beer, wine, entertainment and transportation to and from the boat.

The inaugural and awards breakfast is slated for Saturday, May 6, at 7:30 a.m. in the ballroom. Awards (see separate articles naming award winners) to be presented will include the Supelco AOCs Research Award, AOCs Merit Awards, The Soap and Detergent Association Award for best technical paper on surfactants and detergents published in *JAOCs* during 1988, the Archer Daniels Midland Awards for best technical papers relating to protein and co-products, and the Ralph H. Potts Memorial Fellowship. Also recognized will be the AOCs Honored Students and the top-ranking Smalley Check Sample Program participants.

At the conclusion of the technical program on Saturday after-

## MEETINGS

noon, meeting attendees are invited to a Kentucky Derby party at the convention center to watch the race. After the party, there will be an Oktoberfest at the Oldenberg Brewery, site of the world's largest brewing memorabilia collection. Buses will depart at 6:30 p.m. for the Oldenberg Brewery in Fort Mitchell, Kentucky, for an evening of food and entertainment featuring the Brew\*Ha\*Ha! Revue.

### Technical interest groups

Technical interest groups are scheduled to meet at noon on Thursday, May 4. Participants are encouraged to purchase lunch and join the group that most interests them. The following interest groups will meet: processing—refining and bleaching; processing—hydrogenation and winterization; nutrition—analysis of lipid classes; surfactants and detergents—detergent testing methodology; surfactants and detergents—surface activity fundamentals; and surfactants and detergents—formulation of liquid detergents.

### Section "convention"

For the first time, AOCS sections will hold a combined party; in previous years, sections held separate cocktail parties. The section "convention" will be held between 5:30 and 6:30 p.m. Friday, May 5, in the convention center ballroom. At this year's section event, all AOCS geographic and specialty sections will have the opportunity to set up displays about their activities.

In addition, two sections—Protein and Co-Products, and Surfactants and Detergents—have organized separate luncheons for Friday noon and each has scheduled a featured speaker. The Protein and Co-Products Section's featured speaker will be David Kritchevsky, associate director of the Wistar Institute. He will speak on "Diet and Cancer: Cancer and Nutrition" at 11:30 a.m. Friday, May 5. The section's luncheon and business meeting will follow. The Surfactants and Detergents Section luncheon, slated for noon on Friday, will feature guest speaker John A. Hockey, vice president of development for



Cincinnati, site of the 1989 AOCS annual meeting, is one of the few cities in the U.S. to have an elevated skywalk. Meeting participants can use the skywalk to walk from their hotels to the Albert B. Sabin Convention Center, where the meeting will be held.

Lever Brothers Co. Hockey will speak on "Detergents Research: Challenges for the Next Decade." Tickets must be purchased in advance.

Meanwhile, the newly formed Cincinnati Section of AOCS has scheduled a breakfast gathering Friday morning, May 5, for Cincinnati-area meeting participants. Those wishing more information can inquire at the AOCS Service Desk, located in the North Hall.

### Spouses' program

Special activities have been planned for spouses attending the annual meeting. First is a welcoming tea, from 2:30 to 4:30 p.m. Wednesday, May 3, at the convention center. Spouses' program registration also includes a ticket to the Wednesday evening opening mixer.

On Thursday, program participants will have a continental breakfast at the convention center. Buses will then leave the center for a historical "Highlights of Cincinnati" tour. Lunch will be served at the Cincinnati Club. After lunch, Don Demming, a local historian, will tell stories about "Life Along the River."

Friday morning activities will begin with a continental breakfast at the convention center and a brief presentation on AOCS given by AOCS Past President Robert Haster. Participants then will be given a guided tour of the Cincinnati Art Museum and the Krohn Conservatory. Lunch will be served on the upper deck of a riverboat restaurant on the Ohio River. There also will be visits to several historic homes in the Riverside District of Covington, Kentucky.

On Saturday, participants will be offered a full breakfast and a short program at the convention center.

### Plant tours

Four tours—two on Thursday and two on Friday—in the Cincinnati and Dayton, Ohio, areas have been arranged in conjunction with the annual meeting. All tours will depart from and return to the convention center. Each tour costs \$15, and meals are not included.

On Thursday, a walking tour has been scheduled at The Procter & Gamble Co.'s Ivorydale manufacturing plant. Buses will leave the convention center at 11:30 a.m. and return at 1:15 p.m. The facility manufactures soaps and detergents and processes vegetable oils for use in edible and inedible products. The tour will include the Ivory soap and Crisco processing and packaging operations.

Also on Thursday, buses will depart at 8:30 a.m. from the convention center for a tour of the U.S. Environmental Protection Agency's Water Resources Laboratory. The tour will show the laboratory's extensive chemical analysis facilities as well as pilot plant areas for water testing and computer systems. A brief film describing the role of the laboratory will be shown. Buses will return at 1 p.m.

On Friday, there will be a tour of The French Oil Mill Machinery Co.'s research and development facilities, engineering area, and manufacturing and assembling operations at Piqua, Ohio. Buses will leave the convention center at 8 a.m. On the return trip, buses will

## MEETINGS

stop for lunch at the Golden Lamb Restaurant in Lebanon, Ohio. The cost of lunch is not included in the tour ticket. Buses are scheduled to return at 3 p.m.

Also on Friday, there will be a tour of Mike-Sell's Potato Chip Co.

in Dayton, Ohio. Buses will leave the convention center at 12:45 p.m. and are scheduled to return around 4:15 p.m. Participants will be shown the potato chip manufacturing operation, from raw potatoes to finished product. Frying, pack-

aging, warehousing and the quality control laboratory will be visited.

### Sporting events

A golf tournament will be held Wednesday, May 3, at the Vineyard Golf Course. The registration fee includes greens fees, round-trip transportation between the convention hotels and the golf course, cart rental and prizes. The first bus will leave the convention center at 7 a.m., followed by a second bus at 8 a.m. to transport people with later tee-times.

There also will be a round-robin tennis tournament Wednesday morning. The \$30 late registration fee includes court fees and prizes. The tournament will be held at the Queen City Racquet Club.

Those taking part in the annual Fat People's Fun Run and Walk will meet outside the convention center at 5:45 a.m. Friday, May 5. The run/walk is scheduled for 6 a.m. and will start and end at the convention center. The five-kilometer course will go through downtown and by the river. The event will include continental breakfast. This year's fun run and walk is cosponsored by Supelco Inc., Milton Roy Co., Miami Margarine Co., Nu-Chek-Prep Inc., Central Soya Co., United Dairy Farmers, and Roche Vitamins and Fine Chemicals Division.

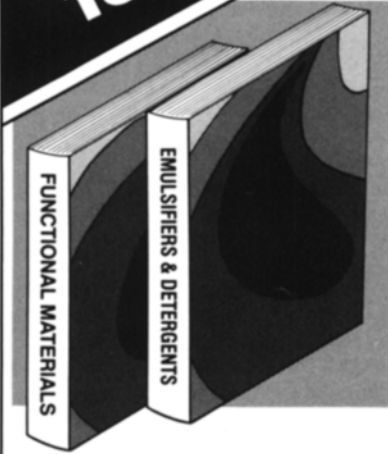
### Mycotoxins symposium

A two-session mycotoxin symposium in honor of the late Leo A. Goldblatt has been scheduled for Thursday, May 4, during the annual meeting. Dr. Goldblatt was a pioneer in the field of mycotoxins.

The symposium includes an opening talk in honor of Dr. Goldblatt, given by Louise S. Lee of the U.S. Department of Agriculture's (USDA) Southern Regional Research Center, as well as five presentations in Thursday morning Session F and four presentations in Thursday afternoon Session M. The symposium will close with a round-table discussion.

The morning session will be chaired by symposium organizer James C. Henderson of The Procter

# 1989



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## MEETINGS

& Gamble Co., who serves on the AOCS Mycotoxin Committee. R.G. Hron Sr. of USDA's Southern Regional Research Center will chair the afternoon session.

#### Fat substitutes

A symposium slated on fat substitutes will be presented in sessions

EE and LL Saturday during the annual meeting.

Session EE, scheduled for Saturday morning, will focus on sucrose polyesters, olestra, esterified propoxylated glycerols, Prolestra and Malonate esters, and the worldwide potential of fat substitutes through the year 2000.

Session LL, scheduled for Saturday afternoon, will address such topics as dietary fat and cancer risk, TATCA, esterified propoxylated glycerol, the nutritional and medical role of special lipids, Polysiloxanes and Nutrifat.

## Research Award

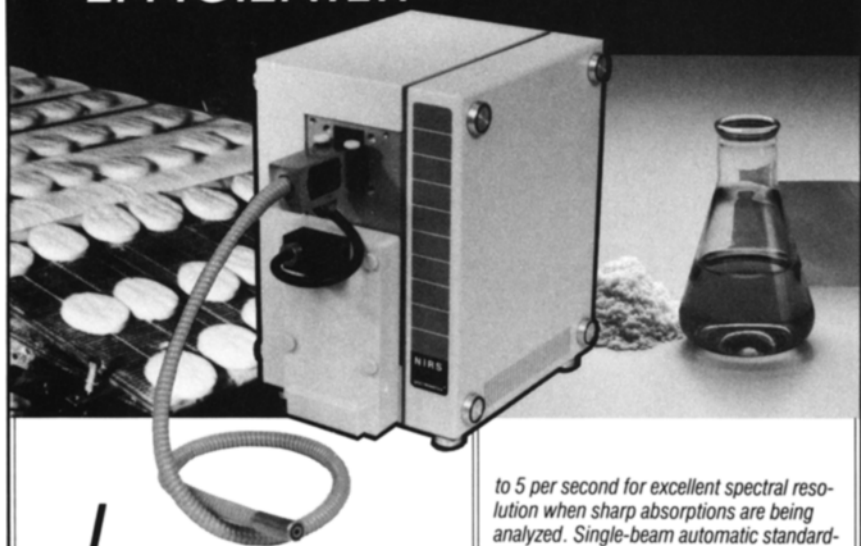
Mats Hamberg of the Department of Chemistry, Karolinska Institute of Stockholm, Sweden, has been named the 1989 winner of the Supelco AOCS Research Award. Hamberg will receive the award at the 1989 AOCS annual meeting in Cincinnati.

The award consists of a plaque and a \$4,000 honorarium plus expenses up to \$1,500. Hamberg will give his acceptance speech on Thursday, May 4, 1989. He will be awarded his plaque and check during the breakfast Thursday morning. The award is funded by Supelco Inc. of Bellefonte, Pennsylvania.

Hamberg is recognized for his leadership in eicosanoid research and prostaglandin chemistry. Letters of nomination cite his research on the synthesis and identification of oxidized fatty acid derivatives and his contributions to the understanding of the structure and synthesis of the prostaglandin endoperoxides PGG<sub>2</sub> and PGH<sub>2</sub>, thromboxane A<sub>2</sub>, 19-OH and 20-OH prostaglandin derivatives, leukotrienes and lipoxins. He also is cited for work on the mechanisms of synthesis of unusual eicosanoids through lipoxygenase activity and the proposal of a mechanism to explain the "isomerization" of hydroperoxides to prostaglandin-like oxygenated cyclopentane ring compounds by plants and some invertebrates.

"The impact of his work is awesome and makes the contributions of the average scientist pale by comparison," one nominator wrote. Hamberg has authored over 150 scientific articles. His articles "Thromboxane: A New Group of Biologically Active Compounds Derived from Prostaglandin Endoperoxides" and "Novel Transforma-

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## MEETINGS

tions of Arachidonic Acid in Human Platelets" have been cited as classic citations from the *Proceedings of the National Academy of Sciences*.

### Students honored

Six students from the U.S. and Can-

ada will be recognized as AOCS honored students at the 1989 AOCS annual meeting in May.

The awardees are Mun-Yhung Jung of Ohio State University, Harold Aukema of the University of Guelph, Appolo Vaz of the University of Nevada, Ciping Nieh of the University of Arkansas, Dean C. Crick of the University of

Western Ontario and Elizabeth Parle of the University of Illinois.

The honored students will present technical papers during the meeting and will be recognized at the awards and inaugural breakfast slated for 7:30 a.m. on Saturday, May 6.

Also, two students who were selected as honorable mentions will receive complimentary registration to the annual meeting. They are Karmin O of the Department of Biochemistry, University of Manitoba, and Xi Yuan Hua of the Department of Chemistry, Brooklyn College, City University of New York.

Donors who have helped make the Honored Student awards possible for the Cincinnati meeting include Akzo Chemicals Inc., Bunge Edible Oil Corp., Canada Packers Inc., Central Soya Co. Inc., Clintec Nutrition, The French Oil Mill Machinery Co., Nu Check Prep. Inc., Shell Chemical Co., Sherex Chemical Co., Supelco Inc. and U.S. Borax Research Corp.

### Potts awardee

Robert M. Sauer Jr., a graduate student at the University of Illinois at Urbana, is the 1989 recipient of the Ralph G. Potts Memorial Fellowship.

He will present a paper on the efficacy of supercritical fluid chromatography for the separation of complex mixtures of fatty acid methyl ester hydroperoxide isomers in Session GG during Saturday morning, May 6, at the AOCS annual meeting.

Sauer received his B.S. in food industry from Delaware Valley College of Science and Agriculture in 1987. He currently is working toward his M.S. in food science in the Department of Food Science at the University of Illinois.

The award is named for the late Ralph Potts, a pioneer researcher on fatty acids and nitrogen derivatives. The award fund was established by Akzo Chemie America, the successor firm to Potts' original employer, the Armour organization.

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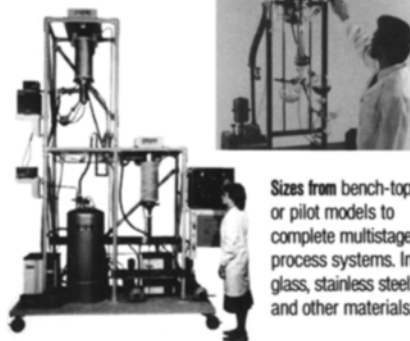


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**MEETINGS**


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## 1989 Annual Meeting Committee Schedule

Committee	Day	Time	Location
Administrative Coordinating Committee	Tuesday	3:00- 4:00	Hyatt Hotel
Administrative Coordinating Committee	Saturday	1:00- 2:00	Hutchins
Advertising	Thursday	10:00-11:00	Ainslie
Annual Meeting — 1990	Wednesday	3:00- 4:00	Harris
Annual Meeting — 1991	Wednesday	4:00- 5:00	Harris
Annual Meeting	Saturday	1:00- 2:00	Harris
AOCS Foundation	Friday	2:00- 3:00	Robinson
AOM Alternatives	Thursday	3:00- 5:00	Hutchins
Awards Administration	Thursday	2:00- 3:00	Richardson
Bleaching Methods	Wednesday	3:00- 5:00	Ainslie
Budget	Wednesday	1:00- 3:00	Hamner
Budget	Thursday	10:00-11:00	Hamner
Chromatography	Friday	3:00- 5:00	Ainslie
COPE	Wednesday	4:00- 5:00	Hutchins
Education Coordinating Committee	Wednesday	1:00- 3:30	Harris
Education Coordinating Committee	Saturday	2:00- 4:00	Harris
Education Program Planning	Friday	10:00-12:00	Harris
Environmental	Friday	3:00- 5:00	Hamner
Examination Board	Wednesday	2:00- 4:00	Robinson
Finance Coordinating Committee	Tuesday	10:00-12:00	Hyatt Hotel
Finance Coordinating Committee	Thursday	11:00-12:00	Hamner
Flavor Quality & Stability	Thursday	12:00- 2:00	Hutchins
Governing Board	Tuesday	12:00- 3:00	Hyatt Hotel
Governing Board	Sunday	9:00- 5:00	Hyatt Hotel
Industrial Fats, Oils and Fatty Acid Derivatives	Friday	8:00-10:00	Hamner
Investments	Wednesday	3:00- 4:00	Hamner
JAOCS	Friday	8:00-10:00	Robinson
Joint A89/A90 Local Committees	Friday	4:00- 5:00	Harris
Jojoba Analysis	Thursday	3:00- 5:00	Richardson
Lecithin & Co-Products	Friday	3:00- 5:00	Hutchins
Lipids	Thursday	12:00- 2:00	Ainslie
Marketing Oversight	Friday	4:00- 5:00	Robinson
Membership Admission	Friday	1:00- 2:00	Hutchins
Membership Coordinating Committee	Tuesday	3:00- 4:30	Hyatt Hotel
Membership Coordinating Committee	Saturday	10:00-11:00	Hutchins
Membership Development	Thursday	1:00- 2:00	Richardson
Monograph	Thursday	2:00- 5:00	Ainslie
Mycotoxins/Aflatoxins	Wednesday	12:00- 2:00	Hutchins
National Program Planning	Thursday	3:00- 5:00	Harris
NMR	Thursday	12:00- 2:00	Robinson
Nominating & Elections	Thursday	2:00- 3:00	Hamner
Nutrition	Wednesday	12:00- 2:00	Ainslie
Physical Methods	Saturday	10:00-12:00	Ainslie
Professional Relations	Wednesday	4:00- 5:00	Hamner
Protein & Co-Products Executive Committee	Wednesday	4:00- 5:00	Richardson
Publications Coordinating Committee	Wednesday	1:00- 3:00	Richardson
Publications Coordinating Committee	Friday	10:00-12:00	Robinson
Rapeseed & Canola	Friday	8:00-10:00	Hutchins
Sections	Thursday	10:00-11:00	Richardson
Seed & Meal Analysis	Friday	8:00-10:00	Ainslie
Smalley	Wednesday	4:00- 6:00	Robinson
Surfactants & Detergents Technical	Wednesday	12:00- 2:00	Robinson
Technical Coordinating Committee	Wednesday	9:00-12:00	Robinson
Technical Coordinating Committee/UMC	Saturday	10:00- 1:00	Robinson
Technical Interest Group	Wednesday	2:00- 3:00	Harris
Technical Safety & Engineering	Thursday	3:00- 5:00	Hamner
Trace Metals	Thursday	3:00- 5:00	Robinson
Uniform Methods/TACC	Saturday	10:00- 1:00	Robinson
World Conference Planning	Thursday	10:00-12:00	Harris
World Conference — 1989	Saturday	10:00-12:00	Harris
World Conference — 1990	Friday	8:00-10:00	Harris
World Conference — 1991	Thursday	1:00- 2:00	Harris

## MEETINGS

## Meeting exhibit

The annual exposition by suppliers of equipment and services to the fats and oils industry will be held in conjunction with the annual meeting in Cincinnati. Firms that had reserved exhibit space (booth number in parentheses) as of mid-February include the following:

**Amafilter B.V. Holland**, (c/o Moret Enterprises International), 2811 Green Mountain Ln., Escondido, CA 92025 USA (Booth 131). For almost 50 years, Amafilter has been involved in the design and construction of quality, effective filter systems. This has made Amafilter internationally known in the food, pharmaceutical and chemical industries.

**American Colloid Company**, One N. Arlington, 1500 W. Shure Dr., Arlington Heights, IL 60004 USA (220 & 222). American Colloid Company will display its Clarion Products which feature new, state-of-the-art bleaching products directed at the highest bleaching efficiency. Technical support will be available to assist with specific applications and questions.

**Anderson International Corp.**, 6200 Harvard Ave., Cleveland, OH 44105 USA (340 & 341). Anderson International Corp. has been serving the oilseed/oil extraction industries since 1888 and continues to provide innovations through Expeller and Extruder technology. Technical representatives will be available to discuss your productivity needs.

**AOCS Book Exhibit**, P.O. Box 3489, Champaign, IL 61826-3489 (400 & 400A). Visit the AOCS Book Exhibit stand to review and order titles of various interests from publishers in the fats and oils industry.

**BF Goodrich-Specialty Polymers & Chemicals Division**, 6100 Oak Tree Blvd., Cleveland, OH 44131 USA (235). BF Goodrich manufactures and sells a complete range of cost-effective, specialty water-soluble acrylic polymer resins to the soap and detergent industry worldwide. Product lines include Carbopol<sup>®</sup> and Good-rite<sup>®</sup> acrylic resins in liquid and powder detergents and toilet bar soaps. They also supply customized polymer development for special needs.

(Continued on page 406)

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## MEETINGS

(Continued from page 404)

**Badger Engineers**, One Broadway, Cambridge, MA 02142 USA (133). On display will be technology for triglyceride hydrolysis, fatty acid distillation/fractionation, fatty alcohol distillation/fractionation and glyceride refining.

**Ballestra Group S.p.A.**, Via G. Fantoli 21/17, 20138 Milano, Italy (101 & 103). Representatives from the Ballestra Group will be on hand to discuss know-how, technology and plants for the detergent, chemical, vegetable oil production and oleochemical industries.

**Brinkmann Instruments, Inc.**, Cantiague Rd., Westbury, NY 11590 USA (109). Brinkmann Instruments will exhibit its line of Metrohm automatic titrators and the Metrohm Rancimat 679, designed for quick and easy determination of the oxidative stability of fats and oils.

**Bruker Spectrospin (Canada) Ltd.**, 555 Steeles Ave. E., Milton, Ontario L9T 1Y6 Canada (206 & 208). The Bruker booth will feature the MINISPEC NMR Process Analyzer. The MINISPEC is routinely used for solid fat content measurements, percentage of fats and moisture in foods and percentage of oil in seeds.

**The Cambrian Engineering Group Ltd.**, 2200 Argentia Rd., Mississauga, Ontario L5N 2K7 Canada (214 & 216). Models, flow diagrams, plant pictures and literature of the CAMPRO continuous edible fats and oils refining system, together with the semi-continuous vertical CAMPRO deodorizer, will be exhibited.

**Centrico, Inc.**, 100 Fairway Ct., Northvale, NJ 07647 USA (402).

**The Chemithon Corporation**, 5430 W. Marginal Way, S.W., Seattle, WA 98106 USA (140). Chemithon's exhibit will feature continuous sulfonation/sulfation plants to produce surfactants for the detergent, specialty chemicals and petroleum industries. Samples of sulfonic acid

and sulfated acid from commercial plants will be on display; graphics and photographs will illustrate the process and equipment.

**CPL Company AB**, S-37482 Karlshamn, Sweden (233). CPL Company AB, a subsidiary of Karlshamns AB, markets the products developed by the division Lipid-Teknik. CPL stands for Chromatographically Purified Lipids. Products are all kinds of CPL oils and CPL phospholipids. CPL products are ultrapure and analytically defined. Batch sizes are 1kg of phospholipids and 100kg of oils. Larodan Fine Chemicals is the agent for CPL Company for reference substances, etc.

**Crown Iron Works Company and Wurster & Sanger, Div. of Crown Iron Works**, P.O. Box 1364, Minneapolis, MN 55440 (100 & 100A). Crown Iron Works Company designs and supplies complete solvent extraction plants, including the Crown shallow bed extractor and Crown/Schumacher Desolventizer-Toaster. The Wurster & Sanger Division designs and supplies a complete line of oil refining equipment. They also supply fatty acid and glycerine plants. Personnel will be available for technical and sales discussions.

**De Smet USA Corporation**, 2839 Paces Ferry Rd., Suite 900, Atlanta, GA 30339 USA (316). De Smet specializes in agro-industrial turnkey operations for vegetable oil, sugar, animal feed, starch and glucose, as well as loading, unloading, storage and handling of cereals and other products. The firm also designs systems for processing animal by-products and gelatin, as well as wool scouring and lanolin refining.

**Eastman Chemical Products Inc.**, 1133 Ave. of the Americas, New York, NY 10036 USA (210). Eastman will exhibit its products for the baking industry such as crumb softeners, dough strengtheners and cake emulsifiers (Myvatex and Monoset) and food grade antioxidants (GT-1 and GT-2).

**Eirich Machines Inc.**, P.O. Box 550, Maple, Ontario L0J 1E0, Canada (219). Eirich will display its line of processing equipment and mixers.

**EMI Corporation**, 3166 Des Plaines Ave., Des Plaines, IL 60018 USA (202 & 204). Representatives at EMI's booth will be Arnold Gavin, David Tandy and Bill McPherson. Slides and literature describing EMI Physical Refining Systems, award winning edible protein processing systems, plant pictures and process flowsheets for solvent extraction of oilseeds, fats and oils refining, fatty acid products processes and complete plants as offered by EMI.

**Engelhard Corporation**, 30100 Chagrin Blvd., Cleveland, OH 44124 USA (201 & 203). Engelhard's line of Filtrol adsorbents and Harshaw catalysts will be displayed.

**Equipment Engineering**, 757 E. Murrey St., Indianapolis, IN 46227 USA (121). Equipment Engineering specializes in the sales and service of high speed vertical and decanter centrifuges, as well as quality, American-made replacement parts, custom engineered electrical controls, field service, preventative maintenance and training sessions. Purchase and trade-in of centrifuges is available.

**FIatron Process Systems**, 510 S. Worthington St., Oconomowoc, WI 53066 USA (408).

**Florida Industrial Filters, Inc./LFC Lochem B.V.**, 1367 Highland Ave., Dunedin, FL 34698 USA (236). Florida Industrial Filters will exhibit its replacement filter leaves for all makes of precoat pressure filters. Also on display will be their complete new precoat filter installations.

**The Foxboro Company**, D120/N30-1E, Foxboro, MA 02035 USA (321, 323, 325, 327).

**The French Oil Mill Machinery Company**, P.O. Box 920, Piqua, OH 45356 USA (302 & 304). Represent-

(Continued on page 410)



## MEETINGS

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tatives will be available to discuss oilseed processing machinery. French manufactures the entire line of preparation, extraction and meal-handling equipment. Offerings include energy-efficient, high-capacity equipment for full pressing, prepressing and solvent extraction. Models of this machinery will be on display.

**G. Mazzone S.p.A.**, P.O. Box 421, 21052 Busto Arsizio, Italy (128 & 130). General literature, photographic panels and small scale model plants will be on display.

**Henkel Corporation, Fine Chemicals Div.**, 5325 S. 9th Ave., La Grange, IL 60525 USA (122). Henkel will exhibit its line of Covi-ox<sup>R</sup> mixed tocopherol antioxidants 100 percent natural antioxidants that have GRAS status. Covi-ox<sup>R</sup> antioxidants protect the original flavor, aroma, and color of food products and permit products to be positioned as 'all natural' with 'no artificial preservatives.' They are designed for easy incorporation into food product and for high-temperature processing.

**Herzog-Hart Corp.**, 185 Dartmouth St., Boston, MA 02116 USA (114). Herzog-Hart is a full service engineering/construction management firm specializing in the design of laboratories, pilot plants and commercial units for the pharmaceutical and fine chemical industries. With advanced CAD systems, Herzog-Hart can design a new facility using modular concepts developed and proven in plant installations, to provide cost effective design in a shorter schedule.

**I.I.T. S.r.l.**, Via Rossini n. 52, 21052 Busto Arsizio, Italy (234). I.I.T. will show photos of equipment and plants for the sulfonation and detergent industry, such as SO<sub>3</sub> production plants, neutralization plants, homogenizers, electrostatic precipitators and detergent plants via dry mixing. I.I.T. has recently taken over the firm GARIBOLDI, manufacturers of equipment and plants for soap production. Photos

and diagrams of this equipment will also be exhibited.

**Industrial Filter & Pump Mfg. Co.**, 5900 Ogden Ave., Cicero, IL 60650 USA (307 & 309). Industrial Filter & Pump Mfg. Co. will display an array of filtration equipment featuring Type 122 and 114D full automated filtration systems. Process applications include crude oil bleaching, hydrogenation, winterizing and polish plus tank loading.

**International Bio-Synthetics**, P.O. Box 241068, Charlotte, NC 28224 USA (306 & 308). International Bio-Synthetics will display its line of detergent enzymes, including Maxatase<sup>R</sup>, Maxacal<sup>R</sup> and Maxamyl<sup>R</sup>.

**Johnson-Loft Engineers, Inc.**, 3100 Kerner Blvd., Suite C, San Rafael, CA 94901 USA (134, 136 & 138). This booth will have on display the Alfa-Laval hermetic refining and special degumming centrifuge SRPX 714. Processing engineers from Johnson-Loft will be on hand for discussion. Technical literature will be available.

**Kalsec, Inc.**, P.O. Box 511, Kalamazoo, MI 49005 USA (135). Representatives will be available to discuss the benefits of adding Herbalox Seasoning to help protect against oxidative degradation in fats and oils using a natural spice extract with controlled flavor aroma and antioxidant activity. Technical information will be available.

**Krupp Maschinentechnik GmbH, Werk Harburg**, Seevestrabe 1, P.O. Box 90 08 80, 2100 Hamburg 90, West Germany (108 & 110). The Krupp Edible Oil Technology Programme will be exhibited in pictures and prospectuses. On display will be machinery for mechanical extraction (screw presses), solvent extraction, refining (deodorization), fractionation and detoxification.

**Laporte Inorganics**, P.O. Box 2, Moorfield Rd., Widnes, Cheshire WA8 0JU, England (127). The full

range of Fulmont activated beaching earth will be displayed by Laporte Inorganics of Great Britain. The latest developments in adsorbents for the edible oil industry may be discussed with technical and R&D personnel.

**Leybold Vacuum Products**, 5700 Mellon Rd., Export, PA 15632 USA (205). Leybold specializes in the engineering and manufacturing of vacuum pumps and vacuum pumping systems. Representatives and equipment will be on-hand at the booth.

**Libra Laboratories, Inc.**, 44 Stelton Rd., Piscataway, NJ 08854 USA (410). On display will be VERIFY quick tests, correlated to official tests. Contract R&D services for frying oil and fried food interactions, microwave susceptor package/product interactions and diagnosis and treatment of frying oils for process optimization will also be exhibited.

**Lucas Meyer, Inc.**, 765 E. Pythian Ave., Decatur, IL 62526 USA (102). The Lucas Meyer exhibit will feature a complete line of more than 250 different types of lecithin for a wide variety of applications. Lucas Meyer provides problem solution by recommending the type of lecithin for a multitude of industrial applications.

**Malvern Instruments Inc.**, 10 Southville Rd., Southborough, MA 01772 USA (125). This exhibit will feature particle size analyzers for dry powders, liquid sprays and particles in suspension (particle sizing .001 to 1800 μm). Also on display will be the Zetasizer 3 combined particle electrophoresis and submicron size analyzer.

**Manville, Filtration & Minerals**, P.O. Box 519, Lompoc, CA 93438-0519 USA (215). Manville's booth will show an array of filtration technology and a broad range of products including CELITE diatomite floater aids and adsorbents (SILASORB, MIRCOSWEET, etc.) used in the production and refinement of oils.

## MEETINGS

**Meccaniche Moderne SRL**, Chemical Plant Division, Corso Sempione, 32, 21052 Busto Arsizio (Varese), Italy (118 & 120). This exhibit will feature Meccaniche Moderne's activity in soap and detergent machinery and plants and Houchin Soap Machinery's activity in the field of soap and laboratory process.

**Mona Industries, Inc.**, 76 E. 24th St., P.O. Box 425, Paterson, NJ 07544 USA (124). Mona Industries specializes in specialty chemicals for the fats and oils industry. On display will be fatty acid alkanolamides, amphoteric, mono and dialkylsulfosuccinates, imidazolines, phosphate esters and specialty surfactants.

**N. Hunt Moore & Assoc., Inc.**, 3951 Senator St., Memphis, TN 38118 USA (225, 227, 326 & 328). This exhibit will feature Escher Wyss soybean preparation systems, Champion soybean meal and hull-processing equipment, Lurgi extraction and refining systems, and the Schroeder Kombinator for the processing of margarine and shortening.

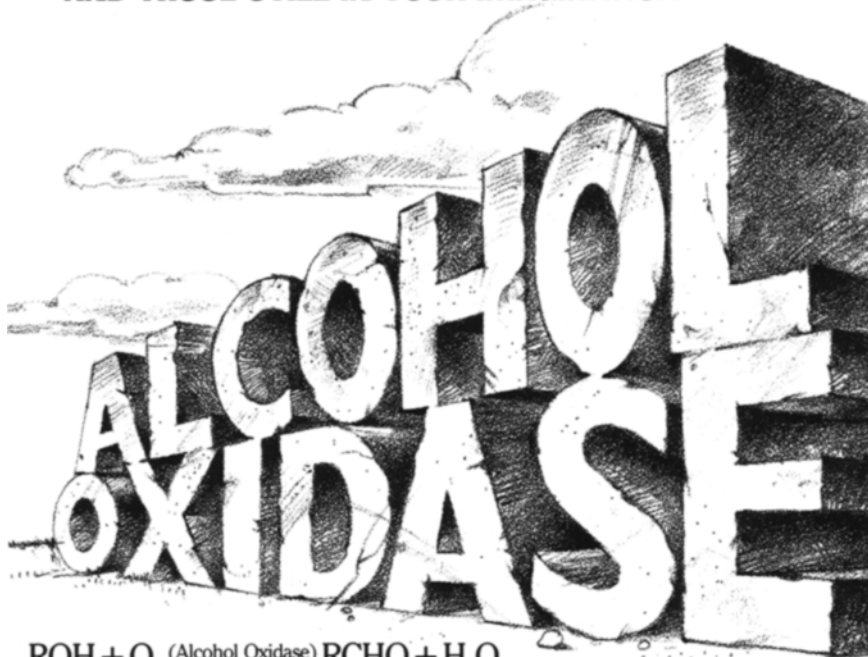
**North America Silica Company**, P.O. Box 840, Valley Forge, PA 19482 USA (112). The range of free flow, anti-caking and carrier silicas will be represented by North America Silica Company (NASILCO), a joint venture of PQ Corporation and Degussa Corporation. These silicas are used in the detergent industry for improving flow and handling of powder detergent formulations.

**Novo Laboratories, Inc.**, 33 Turner Rd., Wilton, CT 06810 USA (113 & 115). Novo Laboratories will display its industrial enzymes specifically for fats and oils and detergent applications.

**Oil-Dri Corp.**, 520 N. Michigan Ave., Chicago, IL 60611 USA (406). Oil-Dri will display its line of Pure-Flo<sup>®</sup> Bleaching Clays.

(Continued on page 412)

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## MEETINGS

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**Oregon Meadowfoam Growers Assoc.**, 866 Lancaster Dr., SE, Salem, OR 97301 USA (336). The exhibit will feature photos, materials and printed handouts to acquaint attendees with meadowfoam oil, a unique triglyceride that is comprised almost completely of fatty acids with chain lengths of 20 and 22 carbon atoms. Samples will be available.

**Pacific Scientific Co.-Instrument Div.**, 2431 Linden Ln., Silver Spring, MD 20910 USA (305). Pacific Scientific will display its NIR spectrophotometers for oilseed analysis.

**POS Pilot Plant Corp.**, 118 Veterinary Rd., Saskatoon, Saskatchewan S7N 2R4 Canada (310). POS provides research and development and customized oilseed processing in fats and oils. Representatives will be available for discussion.

**PQ Corporation**, P.O. Box 840, Valley Forge, PA 19482 USA (132). PQ's booth will feature silica-based selective adsorbents for purification and processing of oils and other liquid products.

**The Praxis Corporation**, 8327 Potranco Rd., San Antonio, TX 78251 USA (232).

**Process Systems Companies**, 1790 Kirby Pkwy., Suite 300, Memphis, TN 38138 USA (119). PSI offers design and construction services to producers of food and food products, alcohols, soap and oleochemicals.

**Provesta Corporation**, 15 Phillips Bldg., Bartlesville, OK 74004 USA (116). Provesta Corp. will feature the Alcohol Oxidase Enzyme. This enzyme is available for potential uses such as chemical synthesis of aldehydes and peroxides, oxygen scavenging, and alcohol removal. Provesta sells food and feed products manufactured in their state-of-the-art high cell density fermentation plant that was completed in late 1988. Products include Provesta flavor enhancers, aquacul-

ture feeds, and Provesteen<sup>®</sup> T dried yeast nutrients.

**The Süd-Chemie AG Group**, P.O. Box 20 22 40, 8000 Munich 2, West Germany (320 & 322). Technical representatives of the Süd-Chemie Group—L.A. Salomon Inc., Quimica Sumex S.A. de C.V., United Catalysts, Inc.—will be available to share with you new product developments of the full line of TONSIL bleaching clays and Girdler catalysts for the refining and processing of fats and oils.

**Sverdrup Corporation**, 13723 Riverport Dr., Maryland Heights, MO 63043 USA (104). Sverdrup Corporation introduces EPEX technical expertise for a new oil extraction process that shows significant advantages over present methods. The process produces commercial grade salad oil without chemical refining and all-natural edible meal without using explosive solvents. Sverdrup is a leading design, construction and total project management firm.

**Tecator Inc.**, 2875C Towerview Rd., Herndon, VA 22071 USA (213). Tecator exhibits its new Soxtec System for universal extraction, the first generation Soxtec System for extraction of fats from food and feed, and a second generation Soxtec designed for universal extraction analysis.

**Tekmar Company**, P.O. Box 371856, Cincinnati, OH 45222-1856 USA (314). Tekmar will exhibit purge and trap systems for priority pollutant analysis, Dynamic Headspace Concentrators. Concentrators include LSC 2000 Concentrator, ALS 2016/2032 Autosamplers, ALS 2050 Vial Sampler, Model 5010GT Thermal Desorber, Model 4210 Multistation Desorber for VOST samples and Cryofocusing system for capillary column users. A complete line of Surface Tensiometers, Spinning Drop Tensiometers, Contact Angle Meter and Film Balance also are offered.

**Testfabrics, Inc.**, P.O. Box 420, Middlesex, NJ 08846 USA (404). Test-

fabrics will display literature, catalogs and samples of the various products available for the testing of surfactants and detergents. Testfabrics supplies reference standard textiles and various pre-soiled textile substrates and also technical services in textiles.

**Thermo Jarrell Ash Corporation**, 8E Forge Pkwy., Franklin, MA 02038 USA (106). Thermo Jarrell Ash specializes in atomic spectroscopy with a full line of simultaneous and sequential ICAP spectrometer systems, atomic absorption spectrophotometer systems and direct reading ARC/Spark spectrometers. TJA will feature its ICAP 61 for edible oil analysis in both the lab and in process control quality assurance.

**The Tintometer Company**, 309A McLaw's Circle, Williamsburg, VA 23185 USA (301 & 303). The Tintometer Company introduces the Lovibond<sup>®</sup> Colourscan, a computerized color measurement system for analysis of liquid samples. Sixteen filters establish CIE color values, which are computer converted to readings in AOCs, FAC, Lovibond<sup>®</sup>, Gardner, APHA, USP, chlorophyll A&B and beta-carotene. The instrument is available with or without IBM-compatible computer.

**Tramco, Inc.**, 1020 E. 19th St., Wichita, KS 67214 USA (231). On display will be the Model 'N' Enmasse Chain Conveyor for wet, hot or dry stock on inclines to 90 deg., carbon steel jig welded construction. The conveyor is also available in stainless steel or special steels with capacities from 1,250 CFH to 17,500 CFH.

**Union Carbide Corporation, Linde Div.**, Old Saw Mill River Rd., Tarrytown, NY 10591 USA (105 & 107). Industrial gases and technology for oleochemical processing, including hydrogen for hydrogenation processes and nitrogen for inverting, will be displayed.

**UOP**, Biological and Food Products, 25 E. Algonquin Rd., Des

## MEETINGS

Plaines, IL 60017-5017 USA (221). UOP will feature Pristene<sup>em</sup> natural stabilizers, which are natural mixed tocopherols with antioxidant capabilities. Also on display will be the Sustane<sup>R</sup> line of food-grade antioxidants, including BHA, BHT, TBHQ, propyl gallate and a variety of liquid antioxidant blends. Color product brochures, specification sheets and other literature will be available. Sample requests will be accepted.

**Varian Associates, Inc., Instrument Group**, 201 Hansen Court, #108, Wood Dale, IL 60191 USA (343). Varian Instruments, a manufacturer of gas and liquid chromatographs and associated data systems plus atomic absorption and UV-VIS-NIR spectrophotometers, will feature its services for oil chemists offered by the company's technical support and service engineering staff. Products on display will be the Model 3410 High Temperature Gas Chromatograph and the Model 9000 IBM based Liquid Chromatograph.

**VICAM**, 29 Mystic Ave., Somerville, MA 02145 USA (126). Afla<sup>em</sup>text, a rapid monoclonal antibody-based procedure will be demonstrated by VICAM. Samples of grains, food, milk and milk products will be analyzed.

**Votator Div. of Cherry-Burrell Corp.**, P.O. Box 35600, Louisville, KY 40232 USA (207 & 209). The Votator equipment lines for the fats & oils industry will be shown in photo displays. This includes oil deodorization plants, shortening and margarine processing equipment, and a thin-film evaporator for drawing lecithin and fatty acid stripping.

**Zimpro/Passavant Inc.**, 301 W. Military Rd., Rothschild, WI 54474 USA (226 & 228). Zimpro/Passavant will exhibit the brush-cleaned INDREXR pressure leaf filter, used for liquid-solid separation. Filter leaves are cleaned automatically by stainless steel brushes, while filter remains closed. Filters

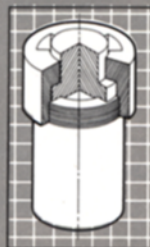
(Continued on page 418)

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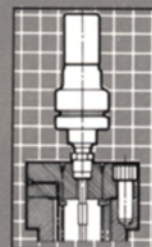


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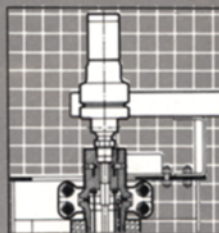
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## Reliability Under Pressure

## MEETINGS

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are available for a 100-700 square foot filtering area.

**Zone Devices Inc.**, 21 H Pamaron Way, Novato, CA 94949 USA (332). Zone Devices manufactures the stainless steel liquid zone samplers primarily involved with sampling of bulk liquids. Best known is the Model ZS-S which is used in conjunction with AOCS method C 1-47 for sampling oils and fats. Brass is available for use in highly volatile petroleum and chemical products.

## Book exhibit

The following publications will be displayed in the AOCS book exhibit during the annual meeting in May in Cincinnati. The list includes titles received through mid-February. Order sheets will be available at the exhibit to order books from the publishers. Persons not attending the meeting who wish to buy books should contact the original publishers, not AOCS.

From Alan R. Liss, Inc., 41 E. 11th St., New York, NY 10003 USA:

*Chirality*, 1988, Dr. Irving W. Wainer, \$120.

*QSAR: Quantitative Structure Activity Relationships in Drug Design*, Feb. 1989, J.L. Fauchere, \$85.

*Surfactant Replacement Therapy*, 1988, Robert H. Notter and Donald L. Shapiro, price TBD.

From the American Association of Cereal Chemists, 3340 Pilot Knob Rd., St. Paul, MN 55121 USA:

*Corn: Chemistry and Technology*, 1987, edited by Stanley A. Watson and Paul E. Ramstad, \$87.

*Approved Methods of the American Association of Cereal Chemists, Eighth Edition*, 1983, compiled by the Approved Methods Committee, AACC, \$225 without ringbinders, \$250 with ringbinders (price includes all supplements published to date).

From the American Chemical Society, 1155 16th St., N.W., Room 214, Washington, DC 20036 USA:

*The Impact of Chemistry on Biotechnology*, Symp. #362, 1988, M. Phillips, S.P. Shoemaker, R.D. Middlekauff and R.M. Ottenbrite, \$79.95.

*Food and Packaging Interactions*, Symp. #365, 1988, Joseph H. Hotchkiss, \$64.95.

*Good Laboratory Practices*, 1988, W.Y. Garner and M. Barge, \$39.95.

*Surfactant-Based Mobility Control*, 1988, Duane H. Smith, \$94.95.

*The Language of Biotechnology*, 1988, J.M. Walker and M. Cox, \$49.95.

From the Asian and Pacific Coconut Community (APCC), P.O. Box 343, Jakarta, Indonesia:

*Coconut Statistical Yearbook 1987*, October 1988, \$50.

*Directory of Coconut Products Exporters*, May 1988, \$25.

*CORD*, Vol. V, No. 1 (published bi-annually on coconut R&D), January 1989, \$12.50.

From the Association of Official Analytical Chemists (AOAC), 2200 Wilson Blvd., Suite 400, Arlington, VA 22201-3301 USA:

*Official Methods of Analysis of the AOAC*, 14th Ed., 1984, edited by Sidney Williams, AOAC members \$130.95, nonmembers \$145.50. Add \$4 shipping and handling in U.S.; \$8 outside U.S.

*Journal of the AOAC*, Raffaele Bernetti, editor-in-chief, published bi-monthly. One Year Subscription: AOAC members \$84.50 in U.S., \$94.50 outside U.S.; nonmembers \$125 in U.S., \$145 outside U.S. Two Year Subscription: AOAC members \$155 in U.S., \$175 outside U.S.; nonmembers \$230 in U.S., \$265 outside U.S.

From Butterworth Publishers, 80 Montvale Ave., Stoneham, MA 02180 USA:

*Polymer*, published monthly, \$710.60.

*Gas Separation & Purification*, published quarterly, \$168.30.

*Vaccine*, published bi-monthly, \$246.50.

*Zeolites*, published bi-monthly, \$340.

*Fuel*, published monthly, \$668.10.

From Food Marketing & Technology, Blumenstrasse 15, D-8500 Nuremberg 1, West Germany:

*Food Marketing & Technology Journal*, published bi-monthly by the Harnisch Organization of Nuremberg, West Germany. Published in English for the food and beverage industry worldwide. Almost 26,000 copies circulated among food technologists, process engineers and others in the industry. \$40/year surface mail, \$60/year airmail.

From Hanser Publishers, 2 Sidney Place, Brooklyn, NY 11201 USA:

*Tenside/Surfactants/Detergents (Journal)*, published 6x yearly, edited by Prof. B. Fell, approx. \$169, postage included (DM 287.10).

From ISTA Mielke GmbH, P.O. Box 90 08 03, 2100 Hamburg 90, West Germany:

*Oil World, 1958-2007*, January 1989, edited by Siegfried Mielke, DM 298 (includes airmail postage).

*Oil World, 1958-2007* (condensed version), January 1989, edited by Siegfried Mielke, DM 228 (includes airmail postage).

*Oil World Annual*, April 1988, edited by Siegfried Mielke, DM 120 (includes airmail postage).

*Oil World Weekly*, published every Friday, edited by Thomas Mielke, DM 866. (Subscribers to *Oil World Weekly* receive rebates on other publications).

From Lewis Publishers, Inc., 121 S. Main St., P.O. Box 519, Chelsea, MI 48118 USA:

*Quality Assurance of Chemical Measurements*, 1987, John K. Taylor, \$59.95.

From Marcel Dekker, Inc., 270 Madison Avenue, New York, NY 10016 USA:\*

*Surfactant Based Separation Processes*, 1989, Scamehorn and Harwell, \$115.

*Crystallization and Polymorphism of Fats and Fatty Acids*, 1989, Garti and Sato, \$150.

*Microemulsions and Related*

## MEETINGS

*Systems*, 1988, Bourrel and Schecter, \$125.

*Surfactants in Chemical and Process Engineering*, 1988, Wasan et al., \$125.

*Surfactants in Emerging Technologies*, 1987, Rosen, \$79.75.

*Detergency: Theory and Technology*, 1987, Culter and Kissa, \$99.75.

*Biodegradation of Surfactants, Second Ed.*, 1987, Swisher, \$179.50.

*Food Chemistry, Second Ed.*, 1985, Fennema, \$39.75.

*Nonionic Surfactants*, 1987, Schick, \$225.

*Interfacial Phenomena*, 1985, Miller and Neogi, \$95.

\* 15% discount offered on all books exhibited by Marcel Dekker.

From MC Publishing, 501 W. Water St., Princeton, WI 54968 USA:

*McCutcheon's Emulsifiers & Detergents*, April 1989, \$55.

*McCutcheon's Functional Materials*, April 1989, \$55.

From Plenum Publishing Corporation, 233 Spring Street, New York, NY 10013 USA:

*Lipid and Biopolymer Monolayers at Liquid Interfaces*, 1989, Birdi, p. 336, \$59.50.

*Lipoproteins and Atherosclerosis (Advances in Experimental Medicine & Biology, v. 210)*, 1987, Malmendier and Alaupovic, p. 266, \$55.

*Lipids: Chemistry, Biochemistry, and Nutrition*, 1986, Mead et al., p. 494, \$75.

*Lipid Storage Disorders: Biological and Medical Aspects (NATO ASI Series, v. 150)*, 1989, Salvayre et al., p. 856, \$125.

*The Bile Acids, Vol. 4*, 1988, Setchell et al., p. 604, \$115.

*The Physical Chemistry of Lipids—From Alkanes to Phospholipids (Handbook of Lipid Research, v. 4)*, 1986, Small, p. 692, \$89.50.

*Platelet-Activating Factor and Related Lipid Mediators*, 1987, Snyder, p. 494, \$79.50.

*The Phospholipases (Handbook of Lipid Research, v. 5)*, 1987, Waite, p. 348, \$59.50.

*Prostaglandin and Lipid Me-*

*tabolism in Radiation Injury*, 1988, Walden and Hughes, p. 434, \$72.50.

From Scanning Microscopy International, P.O. Box 66507, Chicago (AMF O'Hare), IL 60666 USA:

*Food Microstructure (Journal)*, published twice yearly, edited by M. Kalab, S.H. Cohen, E.A. Davis, D.N. Holcomb and W.J. Wolf, \$50/yr in U.S.; \$55/yr outside U.S.; reprints \$5/each.

From Soyatech, Inc., 318 Main St., P.O. Box 84, Bar Harbor, ME 04609 USA:

'88 *Soya Bluebook*, August 1988, \$35 U.S., Canada and Mexico, \$45 all other countries.

## Specialty fats

An AOCS-sponsored short course on Specialty Fats: Production and Application will be held April 30–May 2, 1989, at Kings Island Inn, Kings Island, Ohio.

The course will open with registration between 4 and 7:30 p.m. Sunday, April 30. A welcoming reception will begin at 6:30 p.m.

Sessions on Monday, May 1, will focus on source oils and modification processes. Topics and speakers are the following: Introduction, Steven J. Laning of Capital City Products Co.; Source Oils Used to Manufacture Specialty Fats, Ilija Gawrilow of SVO Enterprises; Hydrogenation, Douglas V. Okonek of Engelhard Corp.; Chemical Interesterification, Robert Delaney of C&T Refinery; Enzymatic Interesterification and Esterification, Hanna Svanholm of Novo Industri A.S.; Fractional Crystallization and Separation, Jim Hritz of Durkee Industrial Foods Corp.; Plasticizing and Tempering, Doug Metzroth of Cherry-Burrell Corp.

Sessions on Tuesday, May 2, will include the following: Cocoa Butter Substitutes and Replacers, Edward L. Finchum of Capital City Products Co.; Specialty Shortenings for Frying and Roasting Applications, Dennis Strayer of Central Soya Co. Inc.; Specialty Shortenings for Baking and Icing Applications, Frank Kincs of Bunge Edible Oil Corp.; Specialty Margarines and their Applications, Klas An-

joy of Karlshamns AB; Lipids of Special Nutritional Interest, Ron Jandacek of The Procter & Gamble Co.; Emulsifiers, Pamela Beach of Grinsted Products Co.; Specialty Lipids Used in Nonfood Applications, James C. Phillips of Capital City Products Co.

## Soap technology

An AOCS-sponsored short course on Soap Technology for the 1990s will be held April 30–May 2, 1989, at Kings Island Inn, Kings Island, Ohio.

Registration will open from 4 to 7:30 p.m. Sunday, April 30. There will be an opening mixer from 6:30 to 7:30 p.m.

Sessions on Monday, May 1, will include the following talks: Chemistry, Chemical and Physical Properties and Raw Materials, Sham Gupta of The Dial Corp.; Washing, Refining, Bleaching, Deodorization and Hydrogenation, J.T. Hendrickson of The Procter & Gamble Co.; Fat Splitting and Fatty Acid Distillation, Fred P. Simonian of The Dial Corp.; Continuous Saponification and Neutralization from Fats, Fatty Acids and Methyl Esters, Greg Fischesser of The Andrew Jergens Co.; Glycerine Processing from Spent Lyes and Sweetwater—Treatment, Evaporation and Refining, K.P. Radhakrishnan of Lever Brothers Co.; Drying and Finishing, G. Mazzoni S.p.A. representatives Danilo Baggini, Fabio Nizzero and Luis Spitz; and Soaps, Syndets and Soap/Syndet Bar Formulations, Carol Ann Winder of Colgate-Palmolive Co.

Sessions on Tuesday, May 2, will feature the following: Specialty Soaps, Formulations and Processing, Eric Jungermann of Jungermann Associates Inc.; Analytical Methods, Evaluation Techniques and Quality Control, Tom Wood of The Hewitt Soap Co.; Environmental Aspects of Soaps and Water Treatment, Fred P. Simonian of The Dial Corp.; Perfuming and Coloring, Anthony C. Davies of Quest International; Packaging Machinery and Materials, Luis Spitz of L. Spitz Inc.; and Soap History, Marketing and Advertising, Luis Spitz.