1564

AOCS NATIONAL MEETINGS

- Annual Meeting, May 8-12, 1988, Hilton and Hyatt Hotels, Phoenix, Arizona.
- Annual Meeting, May 3–7, 1989, Convention Center, Cincinnati, Ohio.

AOCS WORLD CONFERENCES

- Production, Processing and Uses of Jojoba (7th International Conference on Jojoba), sponsored by AOCS and the Jojoba Growers Association, Jan. 17–22, 1988, Phoenix, Arizona.
- World Congress on the Utilization of Vegetable Proteins in Human

On the Cover

The photo micrograph of cholesterol crystals under polarizing light was provided by Donald J. McNamara of the University of Arizona at Tucson. An article written by McNamara on the role of cholesterol and fat in diet and heart disease begins on page 1565.

Foods and Animal Feedstuffs, Oct. 2-7, 1988, Singapore.

World Conference on Edible Fats and Oils Processing: Basic Principles and Modern Practices, Oct. 1-6, 1989, Maastricht, The Netherlands.

AOCS SHORT COURSES

- Short Course on Introduction to Fats and Oils Technology, May 4-7, 1988, Phoenix, Arizona.
- Short Course on Lecithins: Sources, Manufacture and Uses, May 4-7, 1988, Phoenix, Arizona.
- Short Course on Application of Pulsed NMR Technology in Food Analysis. May 4-7, 1988, Phoenix, Arizona.

1988

January

Separation Science and Biotechnology seminar, presented by the Washington Chromatography Discussion Group, Jan. 19–21, 1988, Ft. Lauderdale, Florida. Details: Mrs. Janet Cunningham, Barr Enterprises, PO Box 279, Walkersville, MD 21793.

February

- AOCS Northeast Section meeting, Feb. 2, 1988, Robin Hood Inn, Clifton, New Jersey. A. Bendich of Hoffman-LaRoche to talk on biochemical antioxidants. Contact: Anthony Montana, Henkel Process Chemicals Inc., 350 Mt. Kemble Ave. CN 1931, Morristown, NJ 07960-1931.
- Annual meeting, Food Processing Machinery & Supplies Association, Feb. 5-10, 1988, Buena Vista Hotel, Orlando, Florida. Contact: Food Processing

(Continued on page 1638)

JAOCS

JOURNAL OF THE AMERICAN OIL CHEMISTS' SOCIETY (ISSN: 0003-021X), formerly OIL & SOAP, is published monthly by the AMERICAN OIL CHEMISTS' SOCIETY, 1608 Broadmoor Dr., Champaign, IL 61821-0489 USA. Phone (217) 359-2344, Telex: 4938651 AOCS UI. Second class postage paid at Champaign, Illinois, and additional mailing offices. POST-MASTER: Send address changes to Journal of the American Oil Chemists' Society, P.O. Box 3489, Champaign, IL 61821-0489 USA.

SUBSCRIPTIONS for U.S. are \$70 for one year and \$190 for three years. Non-U.S. subscriptions are \$85 for one year and \$235 for three years. Air mail postage is \$60 extra per year.

COPYRIGHT 1987 by the American Oil Chemists' Society. Formerly published as Chemists' Section, Cotton Oil Press, 1917 to 1924; Journal of the Oil and Fat Industries, 1924 to 1931; Oil & Soap, 1932 to 1947. The American Oil Chemists' Society assumes no responsibility for statements or opinions of contributors to its columns. The *Journal* is indexed in the Applied Science and Technology Index of the H.S. Wilson Company, New York. **CLAIMS** for copies lost in the mails must be received within 30 days (90 days foreign) of the date of issue. Notice of change of address must be received two weeks before date of issue.

ADVERTISING INSTRUCTIONS AND DEADLINES. Closing date 3rd of month

preceding date of issue. Insertion orders received after closing will be accepted by the production manager at advertisers' risk. AOCS cannot guarantee positioning of proofs for ads received after closing. Cancellation date 3rd of preceding month. Send insertion orders and mechanical materials to advertising offices at 1608 Broadmoor, P.O. Box 3489, Champaign, IL 61821-0489 USA. Phone: (217) 359-8028. Telex: 4938651 AOCS UI. Advertising Sales and Production: Arleen Ward, Jennifer Nelson.

MANUSCRIPT PUBLICATION: Submit to the Journal of the American Oil Chemists' Society, P.O. Box 3489, Champaign, IL 61821-0489 USA.

AOCS OFFICERS: President, Robert C. Hastert, manager of market and product

technology, Harshaw/Filtrol Partnership, Cleveland, Ohio; Vice President, Timothy L. Mounts, leader, vegetable oil research, USDA Northern Regional Research Center, Peoria, Illinois; Secretary, David Erickson, director of technical services for international marketing, American Soybean Association, St. Louis, Missouri; Treasurer, R.M. Burton, president of Burton International Biomed Ltd., St. Louis, Missouri; Executive Director, James C. Lyon, AOCS, Champaign, Illinois.

JOURNAL STAFF: Editor: T.H. Applewhite; Associate Editors: G.C. Cavanagh, T.A. Foglia, T.J. Jacks, George Liepa, Raymond Mackay, D.B. Min, T.L. Mounts, E.G. Perkins, L.H. Princen, M.A. Reynolds, M.J. Rosen, J.F. Scamehorn, Edward A. Sedor, G.F. Spencer, W.J. Stancel, M.E. Tuvell, P.J. Wan, D.L. Wharry; Chairman, AOCS Publications Committee: A.R. Baldwin; Managing Editor: George Willhite; Production Manager: Linda Harris; Staff Editor: Paula Erwin; News Editor: Barbara Fitch Haumann; Circulation Manager: Sandy Burr; Advertising Chairman: K.T. Zilch; Book Review Editor: E.G. Perkins; Index Editor: E.G. Perkins; Technical Correspondent: E.G. Perkins.

New Products Management Barrange and Anton States Anton

bottles and standard 4-liter (1 gal.) chemical bottles. The low-density polyethylene carrier cushions bottles against breakage, and features a cover that locks in place with an epoxy-coated handle for carrying stability. Contact: Nalge Co., PO Box 20356, Rochester, NY 14602-0365.



GRADIENT SYSTEM

Micrometrics has introduced the 7600 Series gradient system designed for either single pump, low pressure gradients or multiple pump, high pressure runs. The low pressure system offers ternary capability. The system is commanded through a control interface module operated via a small handheld unit. It allows multiple methods and steps with up to six external events per step. Contact: Micrometrics Instrument Corp., 5680 Goshen Springs Rd., Norcross, GA 30093.

HPLC SYSTEM

Applied Chromatography Systems Ltd. offers a low cost HPLC system for analysts requiring simple routine HPLC analysis. The system is supplied "ready for use" and includes a pulseless HPLC pump, UV detector, rheodyne valve, techsphere HPLC column and all connecting tubing. Contact: Applied Chromatography Systems, The Arsenal, Heapy Street, Macclesfield, Cheshire SK11 7JB, United Kingdom.

pH ELECTRODE LINE

Fisher Scientific's electrode line for the potentiometric measurement of acidity and alkalinity in plant and laboratory is constructed of Fisher's FS-5 glass, formulated for high chemical durability, low sodium error and ultra-low electrical resistance. It features a body of 10mm in diameter, low-noise coaxial cable, cap assembly, and 2-oz. fill bottle. Contact: Fisher Scientific, 711 Forbes Ave., Pittsburgh, PA 15219.

MANOMETER/CALIBRATOR

Meriam Instrument's Meri-Cal kit contains all the items necessary to conduct tests in the field with laboratory test and calibration pressure measurement accuracy, according to Meriam. The kit includes the Meri-Cal portable digital manometer/calibrator, a precision hand pump, charger, test lead kit, fitting kit and carrying case. It is designed for use as a calibrator for mechanical recorders, gauges, pneumatic controls and electronic transducers and transmitters. Contact: Meriam Instrument. 10920 Madison Ave. Cleveland, OH 44102.

(Continued from page 1564)

Machinery & Supplies Association, 200 Daingerfield Rd., Alexandria, VA 22314.

Symposium, "Soybean Utilization Alternatives," Feb. 16-18, 1988, Radisson Hotel South, Bloominton, Minnesota. Contact: Cathie Bergum, Extension Special Programs, 405 Coffey Hall, 1420 Eckles Ave., University of Minnesota, St. Paul, MN 55108.

March

Seminar, Concerns About the Food Supply in the 21st Century: Technology Transfer as It Affects Food and Health, March 3-4, 1988, Crystal Marriott, Crystal City, Virginia. Contact: IFT Headquarters, 221 N. LaSalle St., Chicago, IL 60601, telephone 312-782-8424.

National Institute of Oilseed Prod-

ucts (NIOP) annual convention, March 8-12, 1988, LaPaloma Hotel, Tucson, Arizona. Contact: NIOP, 412 First St. SE, Washington, DC 20003.

- 1988 Mississippi Valley Oilseed Processors Association Annual Oilseed Processing Clinic, March 14-15, 1988, Monteleone Hotel, New Orleans, Louisiana. Details: Wayne E. Marshall, USDA/ARS, 1100 Robert E. Lee Blvd., PO Box 19687, New Orleans, LA 70179.
- Canola Council's 1988 annual convention, March 28-30, 1988, Westin Bayshore, Vancouver, Canada. Contact: Canola Council, 301-433 Main St., Winnipeg, Manitoba, Canada R3B 1B3.

May

Inter-Society Color Council 1988 annual meeting, May 8-10, 1988, Sheraton Inner Harbor Hotel, Baltimore, Maryland. Contact: Paula J. Alessi, 10 Bay Pk., Webster, NY 14580.

- National Cottonseed Products Association (NSPA) annual meeting, May 12-14, 1988, Opryland Hotel, Nashville, Tennessee. Contact: NSPA, PO Box 12023, Memphis, TN 38112.
- International conference on Diet, Lipids and Cancer (Metabolism, Membranes, Mechanisms), May 22-26, 1988, Yulara-Ayers Rock, Northern Territory, Australia. Contact: Dr. John R. Sabine, Department of Animal Sciences, Waite Aricultural Research Institute, Glen Osmond, South Australia 5064, Australia.
- World Surfactants Congress II, May 24-27, 1988, Paris, France. Organized by ASPA, France; sponsored by the European Committee on Organic Surfactants and Their Intermediates, Avenue Louise 250, Bte. 102; B-1050 Brussels, Belgium.

Calendar were been and the same source of the same

June

- 63rd World Congress of the International Association of Seed Crushers, June 7-10, 1988, Hyatt Regency and Hotel Vancouver, Vancouver, British Columbia, Canada. Contact: Secretariat, Suite 801, 750 Jervis St., Vancouver, B.C., Canada V6E 2A9, telephone 604-681-5226, telex 04-352848 VCR.
- Symposium, "Hormones, Thermogenesis and Obesity," June 12-16, 1988, Madison, Wisconsin, sponsored by the Biochemistry Department and Enzyme Institute of the University of Wisconsin, 1710 University Ave., Madison, WI 53705.

July

- 8th International Symposium on the Biological Role of Plant Lipids, July 25-28, 1988, Budapest, Hungary. Details: Tardyné Lengyel Márta, Central Food Research Institute, Budapest, Herman Ottó ut 15, H-1022, Hungary.
- Twelfth International Sunflower Conference, sponsored by the Yugoslav Association of Producers of Plant Oils and Fats and Yugoslav government entities, July 25-29, 1988, Novi Sad, Yugoslavia. Contact: Institute of Field and Vegetable Crops, M. Gorkog 30, 21000 Novi Sad, Yugoslavia.

August

- Bioavailability '88: Chemical and Biological Aspects of Nutrient Availability, Aug. 21-24, 1988, University of East Anglia, Norwich, England. Details: Bioavailability '88, AFRC Institute of Food Research, Norwich Laboratory, Colney Lane, Norwich, Norfolk NR4 7UA, United Kingdom.
- New Zealand Institute of Chemistry and New Zealand Biochemical Society joint annual meeting, Aug. 23-26, 1988, Palmerston North, New Zealand. Contact: Conference Secretary, Grasslands

Division, DSIR, Palmerston North, New Zealand.

4th Separation Science & Biotechnology Symposium, Aug. 31-Sept. 3, 1988, Palazzo Feltrinelli, Gargnano del Garda, Italy. Contact: Pier Giorgio Righetti, Professor of Biochemistry and Symposium Chairman, Euro Business Center, PO Box 10552, 1001 EN Amsterdam, The Netherlands.

September

- Scientific Congress on Proteins in Food and Nutrition, Sept. 8-9, 1988, Vienna, Austria. Contact: Secretariat of the Scientific Congress on Proteins in Food and Nutrition, c/o Vienna Medical Academy, Alsterstrasse 4, A-1090 Vienna, Austria.
- 2nd International Symposium on Lipid Metabolism in the Normoxic and Ischemic Heart, Sept. 12-13, 1988, University of Limburg, Maastricht, The Netherlands. Contact: G.J. Van der Vusse, Department of Physiology, University of Limburg, PO Box 616, 6200 MD Maastricht, The Netherlands.
- 29th International Conference on the Biochemistry of Lipids, Sept. 19-22, 1988, Tokyo, Japan. Details: 29th ICBL, c/o Prof. Y. Seyama, Department of Physiological Chemistry and Nutrition, Faculty of Medicine, University of Tokyo, Bunkyo-ku, Tokyo 113, Japan.
- Cosmetic Science '88-Achievements and Aims, 15th International Congress of the International Federation of Societies of Cosmetic Chemists, Sept. 26-29, 1988, Grosvenor House, Park Lane, London, England. Contact: Society of Cosmetic Scientists, Delaport House, 57 Guildford St., Luton, Beds LU1 2NL, England.
- ISF-JOCS World Congress 1988, Sept. 26-30, 1988, Tokyo, Japan. Contact: ISF-JOCS World Congress 1988, Secretariat, The Japan Oil Chemists' Society, 7th floor, Yushi Kogyo Kaikan, 13-11 Nihonbashi 3-chome, Chuoku, Tokyo 103, Japan.

