

Letters to the Editor

- 729 Extraction and Diffusion of Corn Germ and Corn Germ Press Product by a New System
E. Gulbaran and S.H. Gulbaran
- 731 The Occurrence of Dihydromalvalic Acid in Some Seed Oils
J.R. Vickery

733 SOAPS, DETERGENTS AND COSMETICS

Technical

- 734 Problems in Understanding the Interaction of Surfactant, Oil and Water
R.C. Little
- 738 Making Homogeneous and Fine Droplet O/W Emulsions Using Non-ionic Surfactants
H. Sagitani
- 743 Hydrotropic Action of a Diacid
J.M. Cox and S.E. Friberg
- 746 Effect of Salt on the Structure and Properties of Sonicated Emulsions Stabilized by a Tertiary Oil Recovery Formulation
S. Vijayan, C. Ramachandran and D.O. Shah
- 754 Quaternization of Imidazoline: Unequivocal Structure Proof
B.C. Trivedi, A.J. DiGioia and P.J. Menardi
- 757 Synthesis and Properties of Amphoteric Surfactants
S.M. Gawish, A.A.B. Hazzaa, Sh. Zourab and B. El-Din Gebril

- 520A Calendar
520A Abstracts

- 521A Abstracts
535A Index to Advertisers
535A Classified Advertising

COVER: University of Illinois research associate Mona Calvo prepares rat tissue for later lipid analysis at Burnsides Research Laboratory.

Calendar

AOCS WORLD CONFERENCE

World Conference on Edible Oil Processing, October 3-8, 1982, Congress Centre, The Hague, The Netherlands.

AOCS SPECIAL CONFERENCE

Conference on Dietary Fats and Health, Dec. 6-11, 1981, Conrad Hilton, Chicago.

AOCS NATIONAL MEETINGS

Annual Meeting, 1982: May 2-6, Sheraton Centre, Toronto, Ontario, Canada.

Annual Meeting, 1983: May 8-12, Chicago Marriott, Chicago, IL.

1981

June

ASTM Committee D-1 on Paint and

Related Coatings and Materials Meeting, June 21-24, 1981, Biltmore Plaza, Providence, RI. Contact: Jane R. Turner, ASTM, 1916 Race St., Philadelphia, PA 19103.

"Research: Whose Business?" Canadian Institute of Food Science and Technology, 24th Annual Conference, June 21-24, 1981, Winnipeg Convention Centre/Holiday Inn, Winnipeg, Manitoba, Canada. Contact: Barry McConnell, Conference Chairman, Department of Food Science, University of Manitoba, Winnipeg, Manitoba, Canada R3T 2N2.

ASTM Committee D-34 on Waste Disposal Meeting, June 21-25, 1981, Hyatt Regency, Nashville, TN. Contact: D.A. Tobias, ASTM, 1916 Race St., Philadelphia, PA 19103.

JOURNAL OF THE AMERICAN OIL CHEMISTS' SOCIETY (ISSN: 003-021X), formerly *OIL & SOAP* is published monthly by the AMERICAN OIL CHEMISTS' SOCIETY, 508 S. Sixth St., Champaign, IL 61820. Phone (217) 359-2344, Telex: 404472 OIL CHEM CHN. Second class postage paid at Champaign, Illinois, POSTMASTER: Send address changes to Journal of the American Oil Chemists' Society, 508 S. Sixth St., Champaign, IL 61820.

SUBSCRIPTIONS are \$50 for one year, \$96 for two years, and \$139 for three years. Foreign postage is \$4 extra per year. Air mail postage is \$40 extra per year.

COPYRIGHT 1981 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. Ship mechanical material directly to KOWA Graphics Incorporated, 510 N. Hickory St., Champaign, IL 61820. Advertising offices at 508 South Sixth St., Champaign, IL 61820. Phone: (217) 359-2344. Telex: 404472 OIL CHEM CHN. *Advertising Sales:* Patrick Graham; *Advertising Schedules:* Joan Dixon.

NEWS: Submit to AOCS six weeks preceding month of issue.

MANUSCRIPT PUBLICATION: Submit to Dr. A.R. Baldwin, Cargill, Inc., PO Box 9300, Minneapolis, MN 55440. Phone: (612)475-6238.

AOCS OFFICERS: *President:* F.C. Naughton, Manager, Plastics and Specialty Chemicals Applications Laboratory, Industrial Chemicals Division, NI Chemicals, Hightstown, NJ; *Vice-President:* E.G. Perkins, Professor, University of Illinois, Urbana, IL; *Secretary:* J.W. McEwan, Chief Chemist, Edible Oils, Central Soya Co., Inc., Decatur, IN; *Treasurer:* T.H. Smouse, Manager of Lipid Sciences, Ralston Purina Co., St. Louis, MO.

JOURNAL STAFF: *Editor:* A.R. Baldwin; *Associate Editors:* T.H. Applewhite, G.C. Cavanagh, J.C. Cowan, T.A. Foglia, M.E. Ginn, L.A. Goldblatt, T.J. Jacks, E. Jungermann, L.H. Lander, W.M. Linfield, S.E. McGuire, D.B. Min, T.L. Mounts, E.G. Perkins, J.A. Robertson, W.H. Tallent, I.A. Wolff. *Managing Editor:* James C. Lyon; *Production Manager:* Joyce Tikalsky; *Staff Editor:* Dana Finney; *Editor of News:* George Willhite; *Assistant to the News Editor:* Sara Arndt; *Circulation Manager:* Jo Nelson; *Abstracts Editor:* F.A. Kummerow; *Advertising Chairman:* K.T. Zilch; *Book Review Editor:* Lloyd A. Witting; *Index Editor:* M.W. Formo; *Technical Correspondent:* B. Szuhaj.

Bold face indicates new listing.

Continued on page 518A.

Calendar

Continued from page 482A.

Air Pollution Control Association (APCA), 74th Annual Meeting and Exhibition, June 21-26, 1981, Philadelphia Civic Center, Philadelphia, PA. Contact: Public Relations Dept., Air Pollution Control Association, PO Box 2861, Pittsburgh, PA 15230.

ASTM Committee E-15 on Analysis and Testing of Industrial Chemicals Meeting, sponsored by the American Society for Testing and Materials, June 24-26, 1981, Hyatt Regency, Nashville, TN. Contact: American Society for Testing and Materials, 1916 Race St., Philadelphia, PA 19103.

July

Soyfoods in America, 4th Annual Soycrafters' Association Conference, July 8-12, 1981, Colorado State University, Fort Collins, CO. Contact: Soyfoods in America, Director, Sana, 100 Heath Rd., Colrain, MA 01340.

August

Twenty-Third International Conference on the Biochemistry of Lipids, ICBL 1981, Aug. 3-5, 1981, Nyborg Strand, Nyborg, Denmark. Contact: ICBL 1981, Institute of Biochemistry, Odense University, Campusvej 55, DK-5230, Odense M, Denmark.

23rd Annual Rocky Mountain Conference on Analytical Chemistry, sponsored by Rocky Mountain Section Society for Applied Spectroscopy and Rocky Mountain Chromatography Discussion Group, Aug. 3-6, 1981, Denver Convention Complex, Denver, CO. Contact: Conference Chairman, U.S. Geological Survey, 5293 Ward Road, Arvada, CO 80002.

"Solving Corrosion Problems in Air Pollution Control Equipment," seminar, sponsored by the Air Pollution Control Association, the Industrial Gas Cleaning Institute, and the National Association of Corrosion Engineers, Aug. 11-13, 1981, Brown Palace Hotel, Denver, CO. Contact: National Association of Corrosion Engineers, PO Box 218340, Houston, TX 77218.

"Cereals: A Renewable Resource," International Symposium sponsored by the American Association of Cereal Chemists and the Danish Cereal Society, Aug. 11-14, 1981, Carlsberg Research Center, Copenhagen. Contact: Dorothy Ginsburg,

AACC, 3340 Pilot Knob Rd., St. Paul, MN 55121.

26th Atlantic Fisheries Technological Conference, Aug. 16-19, 1981, Omni International Hotel, Norfolk, VA. Contact: Elizabeth R. Somers, Zapata Haynie Corporation, Reedville, VA.

Twenty-Eighth Congress of the International Union of Pure and Applied Chemistry, Aug. 16-22, 1981, Vancouver, British Columbia, Canada. Contact: Glynn Michael, The Chemical Institute of Canada, Ste. 906, 151 Slater St., Ottawa, Ontario K1P 5H3.

American Chemical Society 182nd National Meeting, Aug. 23-28, 1981, New York, NY. Contact: American Chemical Society, 1155 16th St. NW, Washington, DC 20036.

September

International Symposium on Mycotoxins, sponsored jointly by the National Research Centre, Cairo, Egypt, and the Food and Drug Administration, Rockville, MD, Sept. 6-8, 1981, National Research Centre, Cairo, Arab Republic of Egypt. Contact: Douglas L. Park, Food and Drug Administration, 5600 Fishers Lane, Rockville, MD 20857.

DGF 1981 Fall Meeting, Sept. 14-17, 1981, Albert Ludwig University, Freiburg, Germany. Information: Deutschen Gesellschaft für Fettwissenschaft, Soesterstrasse 13, 4400 Munster, West Germany.

Corrosion Control Short Course, sponsored by the National Association of Corrosion Engineers, Sept. 14-16, 1981, Continuing Engineering Education Center, Norman, OK. Contact: National Association of Corrosion Engineers, PO Box 218340, Houston, TX 77218.

Chemical Marketing Research Association, Sept. 20-23, 1981, Dunfey's, Hyannis, MA. Contact: CMRA, 139 Chestnut Ave., Staten Island, NY 10305.

ASTM Committee E-13 on Molecular Spectroscopy Meeting in conjunction with FACSS, Sept. 20-22, 1981, Sheraton Hotel, Philadelphia, PA. Contact: American Society for Testing and Materials, 1916 Race St., Philadelphia, PA 19103.

Federation of Analytical Chemistry and Spectroscopy Societies (FACSS), 8th Annual Meeting, sponsored by the Society for Applied Spectroscopy, the Division of Analytical Chemistry, the American Chemical Society, the Association of Analyti-

cal Chemists, Inc., and the Analysis Instrumentation Division-Instrument Society of America, Sept. 20-25, 1981, Philadelphia Sheraton Hotel, Philadelphia, PA. Contact: Richard J. Knauer, Armco Inc., PO Box 1697, Baltimore, MD 21203.

Conference on the Scientific Basis of Skin Care, sponsored by the International Federation of Societies of Cosmetic Chemists, Sept. 21-22, 1981, and the 25th Anniversary Symposium of the Scandinavian Society of Cosmetic Chemists, Sept. 21, Marienlyst Hotel and Conference Centre, Helsingør, Denmark. Contact: IFSCC, 56 Kingsway, London, England WC2B 6DX.

ASTM Committee D-12 on Soaps and Other Detergents Meeting, Sept. 22-24, 1981, Doral Inn, New York, NY. Contact: American Society for Testing and Materials, 1916 Race St., Philadelphia, PA 19103.

International Symposium on Powder Technology, sponsored by the Society of Powder Technology, Japan, with the cooperation of the Fine Particle Society (USA), Sept. 28-29, 1981, Kyoto International Conference Hall. Contact: J.K. Beddow, Fine Particle Society, Materials Engineering Div., University of Iowa, Iowa City, IA 55241.

October

ASTM Committee E-19 on Chromatography, Oct. 4-7, 1981, Sheraton Harbor Island, San Diego, CA. Information: Kitty Riley, ASTM, 1916 Race St., Philadelphia, PA 19103.

The Hazards of Industrial Explosion from Dusts, Oct. 14-15, 1981, New Orleans. Contact: E. Brownfield, Oyez Seminars, 2626 Pennsylvania Ave. NW, Washington, DC 20037.

Association of Official Analytical Chemists Annual Meeting, Oct. 18-22, 1981, Marriott Twin Bridges Hotel, Washington, DC. Contact: AOAC, Box 540 Benjamin Franklin Station, Washington, DC 20044.

Annual Meeting of the National Lubricating Grease Institute, Oct. 25-28, 1981, Peachtree Plaza, Atlanta, GA. Contact: National Lubricating Grease Institute, International Headquarters, 4635 Wyandotte St., Kansas City, MO 64112.

Federation of Societies for Coatings Technology, 59th Annual Meeting and 46th Paint Industries' Show, Oct. 28-30, 1981, Cobo Hall, Detroit, MI. Contact: Federation of Societies for Coatings Technology, 1315 Walnut St., Suite 830, Philadelphia, PA.

Bold face indicates new listing.