

Oleochemicals short courses

AOCS will hold a short course entitled "Oleochemicals: Fatty Acids, Fatty Alcohols, Fatty Amines" Sept. 13-16, 1987, at Kings Island Inn, Kings Island, Ohio.

The purpose of the short course is to provide in-depth understanding of the oleochemicals industry through lectures and discussions on the overall aspects of fatty acid, fatty amine, fatty alcohol and fatty acid derivative segments of the industry; raw material feedstocks used by the industry; types of processing; chemistry of fatty acids and their derivatives; biotechnology's role in the industry; and end use applications of fatty acids and their derivatives. General chairman is Karl T. Zilch, technical director for Emery Chemicals, Cincinnati, Ohio.

Registration fee for AOCS members is \$250 if received by Aug. 13 and \$275 after that date; nonmembers' fee is \$325 if received by Aug. 13 and \$350 after that date. The fee includes three days of sessions, an opening reception

on Sunday evening, a dinner on Tuesday evening and all course materials.

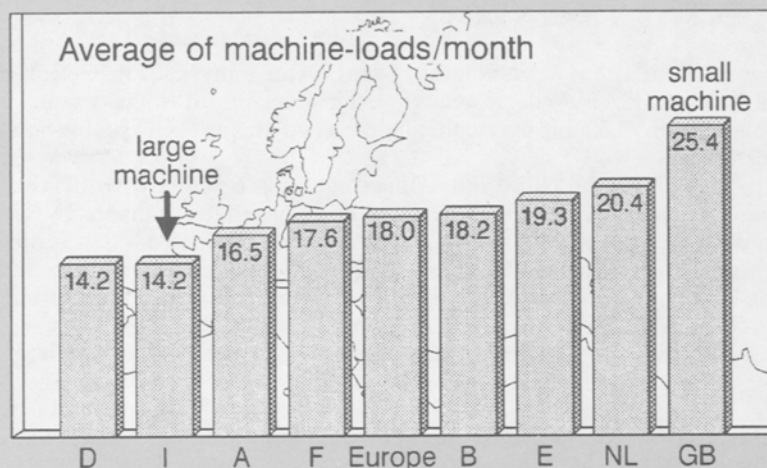
Topics and speakers are:

- Overall Perspective of the Fatty Acid Industry, R.T. Betz, Emery Chemicals
- Natural Raw Material Feedstocks for the Oleochemical Industry, N.O.V. Sonntag, consultant
- Biotechnology and Oilseed Production, John Perchorowicz, Calgene
- Fat Splitting and Glycerine Recovery/Purification, W. Rowell, Sherex Chemical Co.
- Purification and Quality—Improvement via Distillation, E. L. Ewbank, Emery Chemicals
- Hydrogenation of Fatty Acids, R. C. Hastert, Harshaw/Filtrol Partnership
- Polymerization of Unsaturated Fatty Acids, R. Johnson, Union Camp Corp.

- Principal Chemical Reactions of Fatty Acids and Their Utilization, N.O.V. Sonntag, consultant
- Biotransformation of Fats and Fatty Acids, P. Sonnet, USDA Eastern Regional Research Center
- State-of-the-Art Analytical Techniques, L. D. Metcalfe, Akzo Chemie America
- Quality Assurance in the Oleochemical Industry, D. J. Kriege, Emery Chemicals
- Utilization of Fatty Acids and Derivatives in Detergent Surfactants, I. R. Schmolka, consultant
- Fatty Acids and Derivatives for the Manufacture of Soaps, D. V. Kinsman, Emery Chemicals
- Metallic Stearates—Manufacture and Utilization, D. Dieckman, Nuodex Inc.
- Utilization of Natural Glycerine, M. Packard, Procter & Gamble Co.
- Utilization of Fatty Acids and Derivatives in the Food Industry, J. L. Van Haflen, C. J. Patterson Co.
- Methyl Esters—Manufacture and Utilization, B. Freedman, USDA Northern Regional Research Center
- Overall Perspective of the Fatty Amine Industry, C. A. Aldag, Sherex Chemical Co.
- Manufacture of Nitrogenous Fatty Acid Products, R. A. Reck, Akzo Chemie America
- Utilization of Nitrogenous Fatty Acid Products, L. Walp, Humko Division, Witco Chemical Co.
- Overall Perspective of the Natural Fatty Alcohol Industry, C. A. Houston, Colin A. Houston & Associates
- Manufacture and Utilization of Natural Fatty Alcohols, R. Peters, Procter & Gamble Co.
- Environmental Concerns of Oleochemical Products, C. W. Moore, Badger Engineering Inc.

Registration hours Sunday, Sept. 13, 1987, will be 3-6:30 p.m., with

Washing Habits in Europe '85



Europeans run about 18 loads of laundry through their washing machines each month. The chart shows number of washes each month for (from left) Germany, Italy, Austria, France, Belgium, Spain, The Netherlands and Great Britain. Machines in Italy tend to be larger than elsewhere in Europe; in Great Britain, they tend to be smaller. German consumers tend to run very full loads.

— From "The Detergent and Cleanser Market in Europe," presented by Hans-Dietrich Winkhaus, executive vice president of Henkel KGaA, Düsseldorf, West Germany, during the Second World Conference on Detergents, Oct. 5-10, 1986, Montreux, Switzerland.

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the welcoming reception scheduled for 6:30 p.m.

Persons interested in attending may complete the registration form in this issue of *JAOCS* and mail it to AOCS Short Course, PO Box 3489, Champaign, IL 61821-0489 USA. Those with questions may contact the AOCS Meetings Manager, AOCS, telephone 217-359-2344.

European fatty acids

European fatty acids production set a record tonnage in 1986, Georges Mathieu of Synfina-Oleofina told participants at the 12th general assembly of the European Association of Fatty Acid Producing Companies (APAG) held in Sandefjord, Norway, in May.

Mathieu, president of APAG, noted that the 1986 tonnage for European producers of fatty acids showed an increase of about 3% over that in 1985.

Natural fats and oils, the raw materials for fatty acids, are relatively inexpensive and their supply outlook remains good, Mathieu said, predicting that European-grown lipids will begin to take an increasingly important share of the feedstock for fatty acids and other oleochemicals.

Due to their ecological safety, fatty acids will remain essential intermediates for many industries, Mathieu noted. However, excess domestic capacity and overseas competition have resulted in lower fatty acid sales prices, even though market prices for fats and oils haven't decreased as much. This is also true for the fatty acid by-product glycerine. Glycerine prices are beginning to rise again, however, with the closing of surplus glycerine refining capacity and a small increase in demand. Mathieu concluded that the many positive aspects outweigh the negative factors to indicate an optimistic outlook for oleochemicals.

Also, K. Sargeant of the Commission of the European Communities' Concertation Unit for Biotech-

nology in Europe, spoke on "Agro-Industrial Development in Europe: Is There a Future for Domestically Produced Lipids?"

"Not so long ago, it would have been hard to believe that Europe would today be discussing how to curtail food production and searching for new uses for land. However, the progress in farming techniques that has led to this situation is accelerating and in the coming years, very substantial areas of Europe's land will need to be taken out of food production," Sargeant said, noting that he was expressing his views and not those of the commission.

Sargeant said Europe still imports most of its oilseed-derived lipids and oilcake because domestic crops cannot meet the full range of needs either for quality or price, although in recent years, better crop varieties have been developed and domestic production of oilseeds, including rapeseed, sunflowerseed and soybeans, has increased.

"Further scientific and technical progress now promises to add new scope for domestic oilseed produc-

tion by adjusting the quality and reducing the cost in line with market needs," he said, noting that Europe will continue to face stiff competition in the marketplace from the U.S. and Southeast Asia.

Household cleaners

American consumers, institutions and industry consume over \$10 billion worth of cleaning products a year, according to consultants Kline & Co. based in Fairfield, New Jersey. Formulated cleaners studied ranged from household laundry detergents to warewashing detergents used in restaurants and industrial food-plant cleaners.

According to a survey recently completed by the consulting firm, over 7 billion pounds of raw materials, valued at nearly \$2.4 billion, are used annually in cleaning products; raw material value is forecast to top \$3 billion in 1990. Surfactants lead in dollar consumption, at over \$900 million, or 39%

Dream realized

Organizers of the new Surfactants and Detergents (S&D) Section of AOCS have already seen one of their dreams fulfilled: having a member from their industry chosen to serve on the AOCS Governing Board.

In late June, the Governing Board met to decide how to fill three vacant members-at-large positions on the board caused by the approval of by-laws changes in May. The decision: to fill the positions with the three runners-up in this year's election. One runner-up happened to be Ted Matson—one of the organizers of the Surfactants and Detergents Section. For more details, see *Inside AOCS*.

Meanwhile, at the AOCS annual meeting in May in New Orleans, the Surfactants and Detergents Steering Committee named George Feighner, Irv Schmolka and Paul Sosis to serve as a nominating committee for the new S&D section. The proposed slate of officers, not yet released, will be voted on by the new section this fall.

Yearly dues for the new S&D section will be \$10 for members, \$5 for associate members. For more information about the section, contact Arno Cahn, Arno Cahn Consulting Services, Inc., 72 E. Allison Ave., Pearl River, New York 10965, telephone 914-623-0948, or Sue Heiser, AOCS headquarters, PO Box 3489, Champaign, IL 61821-0489, telephone 217-359-2344.

of the total, followed by builders and bleaching agents. Other raw materials covered in the survey included polymers, biocides, chelating agents, fragrances, detergent enzymes, solvents and numerous miscellaneous additives.

Growth in domestic consumption of cleaning products is modest, driven mainly by population increases. However, changing consumer preferences, demographic shifts, government regulations and automation improvements by industrial users make the cleaning products industry a dynamic one, as formulators strive to match products with the changing needs of end users, Kline said.

In the household cleaning products market, the bulk of raw materials is purchased by a handful of companies. One percentage share of total laundry detergent sales is worth over \$25 million to a formulator and can represent 20 million pounds of consumption of a key raw material such as sodium tripolyphosphate, the report showed.

Spurred by phosphate legislation, greater consumer preference for convenience products and other shifts in consumer tastes, formulation developments have created opportunities for suppliers of such innovative additives as detergent polymers, enzymes and specialty surfactants. According to Kline, today's consumers increasingly seek convenience over performance in household cleaners. Products offering ease in dispensing, such as liquid laundry and automatic dishwashing detergents, have grown at the expense of powdered forms.

However, Kline said, it is important to recognize the role that intense promotion has played in this trend. In addition, future phosphate bans and technical innovations will help determine the ultimate success of liquid products.

The report noted that the institutional and industrial markets for cleaning products are highly fragmented. Except for a few product categories, no formulators enjoy dominant market positions. A few national and hundreds of regional formulators vie for a share of market that in aggregate is about

a third the size of the consumer business.

Key issues that will influence this market for raw materials include formulation trends driven by cost, control, improved automation and marketing strategy; consolidation in the hospitality and food processing industries; and changes in end-user preferences arising from energy and labor costs and stricter safety regulations.

The Kline survey examines the markets for all the major cleaning products and for over 60 major raw materials. For more information, contact Kline & Co. Inc., 330 Passaic Ave., Fairfield, NJ 07006, or Kline S.A., Rue Froissart 89, B-1040 Brussels, Belgium.

Phosphate bans

The General Assembly in North Carolina has approved a bill that would ban the sale of home laundry detergents containing phosphates, with a number of industry exemptions. The exemptions include the use of cleaning agents with phosphates in hospitals, veterinaries and other health care facilities; commercial laundries, laboratories and institutional and industrial uses.

Meanwhile, the Oregon State Senate is considering a bill to ban phosphates in both household and commercial laundry products. The Soap and Detergent Association (SDA) has registered its opposition to this proposed ban.

Short courses

Four short courses will be held during the remainder of 1987 as part of the University of Missouri-Rolla's coatings and polymer science program.

They are Estimating for Painting Contractors and Maintenance Engineers, Sept. 9-11, 1987; 55th Introductory Short Course on the Basic Composition of Coatings, Sept. 21-25, 1987; 15th Introductory Short Course on Paint Formulation, Oct. 19-23, 1987; and Introduction to Polymer Chemistry, Nov. 2-6, 1987.

For more information, contact Coatings Continuing Education, Department of Chemistry, University of Missouri-Rolla, 142 Schrenk Hall, Rolla, MO 65401-0249.

Cosmetic officers

The Society of Cosmetic Scientists has elected R.G. Harrison as its president for 1987/88.

The society, which held its 38th annual meeting in May in London, also elected the following: A. Janousek, vice-president; D. F. Williams, secretary; G. E. Taylor, treasurer; and A. J. Jouhar, J. L. Knowlton and A. J. Tyler, council members.

Other officers of the society include P. J. Cooney, immediate past president, and six other council members—K. V. Curry, V. H. Hyde, A. M. Lock, M. E. Loudon, S.E.M. Pearce and I. M. Phillipson.

Meanwhile, the New York Chapter of the Society of Cosmetic Chemists has scheduled a number of events for the remainder of this year. The chapter's next meeting is slated for Sept. 9, 1987, at the Robin Hood Inn, Clifton, New Jersey. Speaker will be Ron Cooker of Pennwalt Corp., who will talk on new dymel propellants for cosmetic products.

The chapter has scheduled three events in October. On Oct. 7, 1987, two speakers will be featured at the SCC/ACS Interprofessional Affairs meeting, also at Robin Hood Inn. They will be Heinz Roth of AT&T Bell Labs, speaking on historical development of photochemistry, and Dorothy Crary, on the liaison between product development and marketing. The second event will be a New York Chapter "escape weekend" to Great Gorge's Mountain View Resort, Oct. 16-18, 1987. Included will be a technical session on creams and lotions development. For information, contact Stu Feldman, Givaudan Corp., 100 Delawanna Ave., Clifton, New Jersey 07015-5034, telephone 201-365-8295. The third event will

be an all-day symposium, "Hair—Let's Get to the Root of It," Oct. 21, 1987, at Governor Morris Inn, Morristown, New Jersey. For details on the symposium, contact Harvey S. Schnur, seminar chairman, Felton Worldwide Inc., 599 Johnson Ave., Brooklyn, NY 11237, telephone 718-497-4664.

The Nov. 4, 1987 meeting, slated for Clinton Manor, Union, New Jersey, will feature a cosmetic contenders quiz show, moderated by Herman Brown of Finetex Inc.

For more information on New York Chapter events, contact the chapter chairman, Herman Brown, at Finetex Inc., 418 Falmouth Ave., Elmwood Park, NJ 07407, telephone 201-797-4686.

New equipment

Akzo Chemie America has installed an analysis system at its Ketjen Catalysts complex near Pasadena, Texas, to aid in its elemental determinations of materials and solutions. The instrument, an inductively coupled plasma spectrophotometer (ICP), is designed to provide rapid and accurate analyses of the elements contained in catalysts and liquid solutions such as processing streams and residual oils.

According to Akzo, the ICP will be used by the hydrotreating and fluid cocracking divisions of Ketjen Catalysts, as well as the technical services and oilfield chemical departments.

Call for papers

Papers are being sought for the XIX Meeting of CED/AID on Surfactants, slated for March 9-11, 1988, in Barcelona, Spain. Deadline for submitting abstracts is Sept. 30, 1987.

The program will include plenary lectures, oral communications and posters on surfactants, detergents and related products in the areas of synthesis and analysis, physical chemistry, new developments and applications, and environment.

For more information, contact the Secretaria de la Asociación der Investigación de Detergentes (AID), Jorge Girona Salgado, 18-26 Edificio Juan de la Cierva, 08034 Barcelona, Spain, telex 97977 IDEB E, telephone 34 (3) 204 02 12.

CESIO brochure

The second brochure for the Second World Surfactants Congress: Surfactants in our World, Today and Tomorrow, slated for May 24-27, 1988, in Paris, France, is now available.

The congress is organized by the Comité Européen des Agents de Surface et leurs Intermédiaires Organiques (CESIO) and the Syndicat National des Fabricants d'Agents de Surface et de Produits Auxiliaires Industriels (ASPA).

For more information, contact Wagons-Lits Tourisme, Service Congress Cesio 88, 32, rue du 4-Septembre, 75002 Paris, France.

News briefs

The process sector of **Fluor Daniel**, a unit of Fluor Corp., has been awarded a contract by **Ciba-Geigy Corp.** to provide design, procurement and construction management for the Quinacridone pigments finishing plant in Newport, Delaware. Completion is slated for late 1987.

Ethyl Corp. is expanding capacity and flexibility at its manufacturing plant at Magnolia, Arkansas, which produces alkyldimethylamine and dialkylmethylamine. Completion is scheduled by the third quarter of 1987.

Unichema Chemicals Inc. has reorganized its customer service department into two operating groups. The first handles specialty fatty acids and industrial chemical sales, while the second handles glycerine. **Barbara Hazzah** has been appointed to the newly created position of customer service supervisor.

Imperial Chemical Industries PLC has purchased the **Stauffer Chemical Co.** unit of Chesebrough-Pond's

Inc., which was acquired in 1986 by **Unilever Ltd.** Meanwhile, **Unilever's Chesebrough-Pond's Inc.** and **Lever Brothers Co.** subsidiaries announced intentions to merge their health and beauty divisions, creating a unit with annual sales of about \$700 million annually. The combined operations will be managed by Chesebrough, which is based in Greenwich, Connecticut, in the U.S.

PQ International Inc. has appointed **Manuel A. Lopez** general manager for Latin America. Meanwhile, **John A. Peters** has been appointed market development project manager for the industrial chemicals division of **PQ Corp.**

Stevenson Mountsier has been named director of quality excellence for **DeSoto Inc.'s** chemical products division, chemical specialties division and administrative center.

Mark E. Sova has been named manager of color concentrates and additives for **USI Chemicals Co.**

Rohm & Haas of Philadelphia, Pennsylvania, has announced a \$100-million expansion of its acrylic acid plant in Deer Park, Texas. The expansion will increase production to 600 million pounds a year by 1990. The materials are used in detergents, water treatment chemicals, coatings and a variety of other industries.

Hans-Joachim Honigfort has been named general manager for **Procter & Gamble (Canada)'s** bar soap and laundry products division. He previously was advertising manager for laundry and cleaning products for P&G's German division. Meanwhile, **Robert A. Robertson** has been named general manager of the newly established health and beauty care products division, with responsibility for **Richardson-Vicks** brands in Canada, plus P&G's toilet goods brands. He will continue as president and managing director of **Richardson-Vicks Ltd.**

The **Japan Soap and Detergent Association** has chosen **Yutaka Yoshida**, president of the **Asahi**

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Electrochemical Co., as its president. **Atsushi Kobayashi**, president of Lion Corp., served as the association's previous president.

Scher Chemicals of Clifton, New Jersey, has completed the installation of three new processing vessels in its production of specialty surfactants and fatty alcohol esters. The vessels are a 6,000-gallon, jacketed stainless steel mixing tank, a 6,000-gallon stainless steel storage tank and a 75-gallon stainless steel pilot pressure reactor.

A.H.L. Alberts has joined **Emery Chemicals** to serve as its European sales manager. He will work out of the newly established sales office in Breda, Holland, which officially

will open in the fourth quarter of 1987. He previously worked for Exxon Chemical Holland Inc.

Recent publications

PQ Corp. has published a revised **Detergent Formulary**, containing starting formulations for both cleansing products and detergents for a wide range of cleaning problems. Copies of the publication, Bulletin No. 41-26-1086, are available from The PQ Corp., PO Box 840, Valley Forge, PA 19482. PQ also offers a free information kit showing the multifunctional character-

istics of sodium and potassium silicates in formulating granular and liquid laundry detergents and industrial cleaners.

Shell Chemical Co. has published a 54-pg. application guide, the **Neodol Product Guide for Alcohols, Ethoxylates and Ethoxy-sulfates**, containing over 20 starting formulations from dish washing liquids, laundry detergents and hard surface cleaners to toiletries, transportation cleaners and industrial processing chemicals. Copies of the product guide (SC: 7-87) are available from Shell Chemical Co., Manager, Neodol Communications, One Shell Plaza, PO Box 2463, Houston, TX 77252-9923.

Surfactants & Detergents Calendar

1987

September

Society of Cosmetic Chemists New York Chapter, Sept. 9, 1987, **Robin Hood Inn**, Clifton, New Jersey. Topic: **New Dymel Propellants for Cosmetic Products**. Contact: **Herman Brown**, Chapter Chairman, **Finetex Inc.**, 418 Falmouth Ave., Elmwood Park, NJ 07407, telephone 201-797-4686.

Short Course on Estimating for Painting Contractors and Maintenance Engineers, Sept. 9-11, 1987, **University of Missouri-Rolla**, Rolla, Missouri. Contact: **Coatings Continuing Education**, Department of Chemistry, University of Missouri-Rolla, 142 Schrenk Hall, Rolla, MO 65401-0249.

AOCS Short Course on Oleochemicals, Sept. 13-16, 1987, **Kings Island Resort**, Ohio. Contact: **Meetings Manager**, AOCS, PO Box 5037, Station A, Champaign, IL 61820.

Cosmetic or Drug? 13th Annual Seminar of the Society of Cosmetic Chemists, Midwest Chapter, Sept. 16, 1987, **Woodfield Hilton Hotel**, Schaumburg, Illinois. Contact: **Marsha Hardin**, telephone 312-354-0456.

Cosmetic Science Update '87, Joint Conference on Dandruff, Nails, Hair Growth and Hair Dyes, Sept. 17-18, 1987, **Munich**, West Germany, hosted by the **German Society of Cosmetic Chemists**. Details: **Dr. R. Müller**, German Society of Cosmetic Chemists, c/o **Dralle GmbH**, Gründgensstr. 6, 2000 Hamburg 60, West Germany.

55th Introductory Short Course on the Basic Composition of Coatings, Sept. 21-25, 1987, **University of Missouri-Rolla**, Rolla, Missouri. Contact: **Coatings Continuing Education**, Department of Chemistry, University of Missouri-Rolla, 142 Schrenk Hall, Rolla, MO 65401-0249.

October

1987 Annual Meeting and Paint Industries' Show, Federation of Societies for Coatings Technology, Oct. 5-7, 1987, **Convention Center**, Dallas, Texas. Details: **Federation of Societies for Coatings Technology**, 1315 Walnut St., Philadelphia, PA 19107.

Society of Cosmetic Chemists New York Chapter, Oct. 7, 1987, **Robin Hood Inn**, Clifton, New Jersey. Topics: **Photochemistry**

—**Historical Development, and Liaison Between Product Development and Marketing**. Contact: **Herman Brown**, Chapter Chairman, **Finetex Inc.**, 418 Falmouth Ave., Elmwood Park, NJ 07407, telephone 201-797-4686.

Escape Weekend, Society of Cosmetic Chemists New York Chapter, Oct. 16-18, 1987, **Great Gorge's Mountain View Resort**. Technical session on creams and lotions development. Contact: **Stu Feldman**, **Givaudan Corp.**, 100 Delawanna Ave., Clifton, NJ 07015-5034, telephone 201-365-8295.

15th Introductory Short Course on Paint Formulation, Oct. 19-23, 1987, **University of Missouri-Rolla**, Rolla, Missouri. Contact: **Coatings Continuing Education**, Department of Chemistry, University of Missouri-Rolla, 142 Schrenk Hall, Rolla, MO 65401-0249.

All-Day Seminar, Hair—Let's Get to the Root of It, Oct. 21, 1987, **Governor Morris Inn**, Morristown, New Jersey, sponsored by the **Society of Cosmetic Chemists New York Chapter**. Contact: **Harvey S. Schnur**, Seminar Chairman, **Felton Worldwide Inc.**, 599 Johnson