



Short Course Will Up-date Registrants on Soap and Detergent Technology

SOME of the most up-to-the-minute trends in the technology of soaps and detergents will be reflected in talks at the Short Course planned by the American Oil Chemists' Society for July 14-18 at the Princeton Inn, Princeton, N. J. Going beyond the conventional review of

established soap-making procedures, this year's course will provide an "up-dating" for experienced personnel on aspects of the industry outside his immediate interest.

For example, an increasing range of "specialty surfactants" are finding application in this field—fatty acid compounds, sulfated ethers, dialkyl sulfosuccinates, and alkydol amides. These products and their applications will be reviewed by Chapin Stevens, General Aniline and Film Corporation, and George E. Barker, Quaker Chemical Products Corporation, Conshohocken, Pa. There will be other talks dealing with the cleansing problems of specific industries, such as the scouring



R. D. Fine III

of textiles in an acid state, using new syndet compounds, and progress in metal cleaning.

The chemistry of surface-active compounds will receive particularly thorough treatment. On Tuesday, July 15, R. D. Fine III, Atlas Powder Company, will review ethylene oxide condensation reactions and the nonionic agents formed. Nonionic agents having a variety of properties and uses are formed by condensing ethylene oxide with alkyl phenols, higher aliphatic alcohols, polyhydric alcohol partial esters, carboxylic acids, higher alkyl amides, alkyl mercaptans, and polypropylene glycols. Condensation of ethylene oxide with higher alkyl amines yields cationic agents. Commercially available products representing each of the foregoing classes of materials and their respective uses are discussed.

Another paper, "Amine Condensates," by Herbert L. Sanders, Stepan Chemical Company, will cover the chemistry of alkylolamide condensates including the new high activity types.

Among new developments in product formulation, the use of optical bleaches and brighteners will be treated, both from the optical and chemical standpoints. Methods for evaluating optical bleaches will be described in the presentation by F. G. Guillaume, American Cyanamid Company.

Fundamental process operations, such as sulfonation and sulfation, will be approached both from the theoretical and practical aspects. For example, J. W. Lohr, Andrew Jergens Company, Cincinnati, will discuss the choice of batch *vs.* continuous processing.

Short Course Speakers



J. R. Van Wazer



F. G. Williams



J. E. Woodbridge



G. C. Feighner

RIGHT from the start, the short course instructors will be stressing economic as well as technical trends. Speaking on detergent alkylates, George C. Feighner, Continental Oil Company, points out: "The business or economic side of the detergent alkylate picture shows that tremendous growth has been experienced in the last decade. A marked decrease in price has also taken place, and narrower specifications have been met by narrowing the boiling range of both the tetramer and the alkylate. In spite of increasing raw material and operating costs, detergent alkylate manufacturers have been able to reduce prices by more efficient and larger volume operations." Some of the means by which this has been accomplished are included in Mr. Feighner's talk.

In a talk by Roy W. Peet, manager of the Association of American Soap and Glycerine Producers Inc., aspects of soap and detergent marketing which are not ordinarily the concern of the chemist—but which vitally affect his work—will be described. This involves developing and dramatizing unique product features and sales devices, coupons, contests, and all the rest. Industry economics, from the standpoint of the detergent materials, will be described by H. E. Bramston-Cook, Oronite Chemical Company.

Registration for the four-day course, which includes meals, lodging, and four trips to plants such as Atlantic Refining Company, Philadelphia; Procter and Gamble, Port Ivory, S. I., General Chemical, and others, is \$120, subject to registration limit. Membership in the A.O.C.S. is not a requirement for attendance. Further information may be obtained from the American Oil Chemists' Society, 35 East Wacker drive, Chicago 1, Ill.

New Smalley Season Opens in September for Six Months

As of June 15, 1958, the chairman of the Smalley check sample program for the American Oil Chemists' Society, R. W. Bates of Armour and Company, Chicago, has formulated the eligibility rules, procedure, price schedule, and other details for the 1958-59 season, which opens in September and runs into March.

Eligibility. Any interested chemist may enroll in the Smalley collaborative work by placing an order, or orders, for the samples desired and sending remittance to cover. Only one series of samples will be sent to a laboratory.

Procedure. The sets of order forms should be filled out carefully, according to the samples desired, and mailed directly to the American Oil Chemists' Society, 35 E. Wacker drive, Chicago 1, Ill., with remittance. (The forms were sent in mid-June to all collaborators in the 1957-58 check sample work. Requests for forms should be sent to Mr. Bates.)

Price Schedule

10 Cottonseed check samples	\$18
6 Drying oil samples	7
5 Edible fat samples	7
5 Glycerine samples	7
15 Oil seed meal samples	17 (plus \$1.50 for first class mailing)
7 Peanut samples	9
10 Soybean samples	11
5 Tallow and grease samples	13
6 Vegetable oil samples	21

Information. Respective chairmen of the Smalley subcommittees are R. T. Doughtie Jr., U.S.D.A., Box 8145, Memphis 4, Tenn., for cottonseed, peanuts, and soybeans; L. V. Anderson, Minnesota Linseed Oil Company, Minneapolis, Minn., for drying oils; D. V. Stingley, Armour and Company, Chicago 9, Ill., for edible fats; T. J. Baldwin, Procter and Gamble, Cincinnati 17, O., for glycerine; D. L. Henry, Law and Company, Box 1558, Atlanta, Ga., for tallow and grease; J. P. Hewlett, Box 839, Archer-Daniels-Midland Company, Minneapolis, Minn., for vegetable oils; and Mr. Bates, at his home address (14,422 S. Michigan, Riverdale, Chicago 27, Ill.), for meal.

Each series begins in September and ends in March. After October 15 it will not be possible to enroll a collaborator. Instructions to collaborators on reporting will be sent in August by the subcommittee chairmen.

New Members . . .

Active

Mostafa Banijamali, engineering faculty, University of Teheran, Teheran, Iran
 Franco Fodde, chemist, Ditta Antonio Fodde Rosas, Cagliari, Italy
 Ali-Asghar Pourkavoos, technical manager, Behshar Industrial Company, Teheran, Iran
 Glenn Ralston, general superintendent, Mill Division, Owens-Illinois Glass Company, Toledo, O.
 Robert L. Reynolds, assistant works manager, Spencer Kellogg and Sons Inc., Decatur, Ill.
 William Sherman Shelow III, factory service engineer, Buckeye Cellulose Corporation, Memphis, Tenn.
 James Nollner Stone, chemical engineering, Champion Paper and Fibre Company, Canton, N. C.

Individual Associate

Walter R. Deutscher, sales engineering, Graham Manufacturing Company Inc., Chicago, Ill.
 Andrew L. Smith, district sales manager, Inorganic Division, Monsanto Chemical Company, Los Angeles, Calif.

Ms. Deadline Is July 15

DEADLINE for manuscripts to be submitted in the 1958 Fatty Acid Award competition is July 15, according to C. W. Hoerr, Armour and Company, Chicago, who is chairman of the special committee of the American Oil Chemists' Society which administers the award of the Fatty Acid Producers Council of the Association of American Soap and Glycerine Producers Inc. The prize is a certificate and cash amounting to \$500.

Judges of the best manuscript will be B. M. Craig, Prairie Regional Laboratory, National Research Council, Saskatoon, Sask., Canada; R. T. Milner, University of Illinois, Urbana; and C. F. Raschke, Conway Oil Company, Denison, Tex.

Announcement of the winner(s) will be made during the 32nd annual fall meeting of the Society at the Sherman hotel, Chicago, October 20-22, 1958.

Volunteers Needed

A REQUEST for volunteers for the Soap and Synthetic Detergent Analysis Committee of the American Oil Chemists' Society is made by the chairman, J. C. Harris, who is with the Monsanto Chemical Company, Dayton, O. This is a working committee, he indicates, with 21 task groups.

Titles of these are as follows: classification of surfactants, bibliographical abstracts of analytical methods for surfactants, infrared determination of surfactants, determination of CMC, SO₂ content in presence of phosphates, determination of tripolyphosphate, rapid determination of moisture by infrared lamp, determination of active ingredient in soaps containing synthetic detergents by cationic titration, qualitative method for identification of surfactants and organic builders, total active ingredient, and detergent alkylate. Subgroups in this last are distillation range, molecular weight, acid wash color, and standard sulfonation procedure and analysis of product.

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