

## 2nd Annual Symposium Spotlights NE Section

The Second Annual Unit Process Symposium of the Northeast Section was held April 2, in Newark, N. J., and proved to be a great success under the Chairmanship of O. J. Ackelsberg. Interest is growing in the work of the section, as friends and associates welcome the chance to exchange current trends.

This year's pattern in planning and programming closely followed that of the First Symposium, held last year. Edward Lawrence chaired that meeting, which all considered a great success, as well as an inspiration for the 1963 program.

The projected highlight of the luncheon, an address by AOCs President A. E. MacGee, was regretfully cancelled at the last minute because of a business emergency. C. H. Hauber, AOCs Executive Secretary, addressed the luncheon assembly and extended best wishes in the name of the Society. He congratulated the section on the success of the Symposium and expressed his wish for a continuation of the series each year.

The all-day program began with a paper on "The Chemistry of Vegetable Oil Refining," by M. M. Mattikow, Consultant, New York City. A survey of methods of refining fatty oils with special emphasis on a chemical nature of the minor constituents or gums and their reactions with degumming and refining agents was presented. The role and influence of the gums in several refining processes for eliminating acidulation were described.

A. D. Rich, Vice President, Bennett-Clark Co., followed with "The Theory of Activated Earth Bleaching and Its Practice." Physical chemical principles as the theoretical basis for action of bleaching earth were discussed. Data showing effects of temperature, time, pH, and moisture on color of bleached oils were presented. Comparison of natural versus activated earths was shown. Practical procedures for activation of earth and for industrial bleaching technique were presented.

"The Theory of Filtration and Its Practice," was presented by Francis Hutto, Senior Research Chemist, Johns-Manville Co., Inc. He gave a historical survey of the theory of filtration, and the physical chemistry of filtration and the development of equations to predict filterability of given systems were discussed.

M. W. Formo, Asst. Director of Research, Archer-Daniels-Midland Co., delivered a paper on "The Kinetics of Esterification and Its Practice." It was presented with subdivisions into classes of alcoholysis, acidolysis, and inter-esterification. The effects of catalyst, temperature, and vacuum were shown. A brief review of practical applications of major types of esters was also made.

"Fatty Acid Dimers: Their Chemistry and Applications," was the subject of the presentation by Lyle Gast, Head of Oil Coating Investigations Group, Northern Regional Research Laboratory, U.S.D.A. The chemistry and kinetics of dimerization of fatty acids with and without catalyst was shown; and the effects of temperature, time, isomerization, and source and type of fatty acids were discussed. Also discussed was the application of dimers in finished formulations in coatings, with description of advantages and disadvantages.

L. M. Schenck, Section Manager Research, General



E. I. Marshack



O. J. Ackelsberg

Aniline & Film Corp., discussed "Fatty Acid Chlorides: Their Chemistry, Processing, Derivatives, and Applications." Common methods for the preparation of fatty acid chlorides were reviewed. An accepted process for the manufacture of oleoyl chloride was given in detail. Chemical properties of the fatty acyl halides were illustrated by their chemical reactions, emphasis being placed in the industrial significance of each reaction. Methods of preparation and field applications were given for distinct classes of commercial chemicals which utilize fatty acid chlorides in their manufacture.

J. P. Friedrich, Principal Chemist, Northern Regional Research Laboratory, U.S.D.A., presented "The Chemistry of Cyclic Fatty Acid" with emphasis on reaction kinetics and physical data on end products. Data describing application of these cyclic materials mainly for a variety of surface active and coating uses were discussed.

A lively and informative discussion followed each paper as 149 representatives of universities and industry evidenced their great enthusiasm for the Symposium. All members were urged to attend the National Meeting in Atlanta, and to take advantage of the Short Course offered by the Society.

Much of the success of this meeting can be credited to an extremely active committee: E. I. Marshack, President; H. G. Solomon, Vice President; C. A. Gerardi, Registration; George Raupp, Finance; A. M. Rossetto, Jr., Visual Aids; and F. B. White, Membership.

## Godlove Award to D. L. MacAdam

D. L. MacAdam, Senior Research Associate in the physics division, and head of the Image Structure Dept., Research Laboratories, Eastman Kodak Co., Rochester, N. Y., has been selected to be the fourth recipient of the Godlove Award of the Inter-Society Color Council for his outstanding contribution to the knowledge of color in science, art, and industry. The award was presented to Dr. MacAdam on March 12, 1963, at the 32nd Annual Meeting of the Council, Statler Hilton Hotel in New York City.

Dr. MacAdam's contribution to the industry stems from his research on the methods of color measurement, employing an automatic recording spectrophotometer and the application of these methods to a study of the accuracy of color reproduction in color photography and printing.



Speakers above are shown in order of their presentations.