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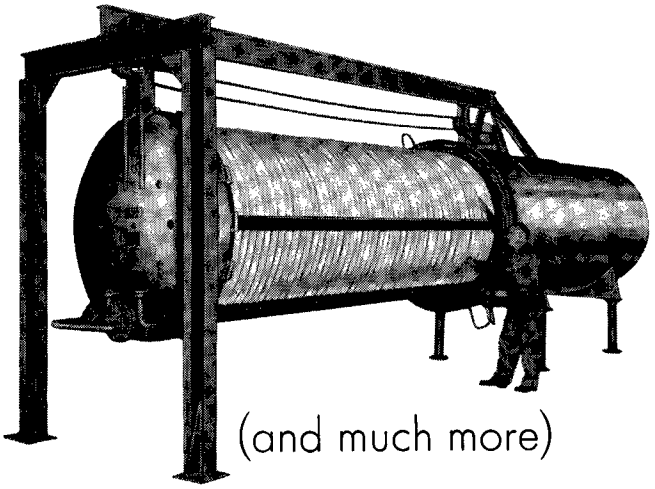

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Report of AOCS Industrial Oils and Derivatives Committee

The Industrial Oils and Derivatives Committee has seven active Subcommittees, six of which met during the AOCS meetings in Los Angeles this spring. Following is a report on the activities and plans of each of these Subcommittees:

Drying Oils Subcommittee, D. S. Bolley, Chairman

The Drying Oils Subcommittee is continuing its search for a suitable method to measure and report haze in drying oils. The initial investigation is being done by Edward Handschumaker, who demonstrated for the Subcommittee a gum mastic-gum arabic haze standard that is used by the brewing industry for the measurement of haze in beer. This standard appears to have good possibilities for use in the measurement of haze in drying oils and the Subcommittee agreed that a collaborative program should be set up. Mr. Handschumaker will provide the Subcommittee with information on reagents and directions for preparation of the standards.

Polymerized Acids Subcommittee, Harold Fisher, Chairman

Recommended practices and methods for testing polymerized fatty acids have been carried as tentative in the AOCS Official Methods book for two years. The Subcommittee decided that these methods should be submitted to letter ballot for elevation to official status.

The Subcommittee is still searching for suitable methods for determination of unsaturation and composition of polymerized fatty acids. The need for an unsaturation method is questionable and the Subcommittee will be polled to determine whether a method for unsaturation should be included in the Recommended Practices. Several of the Subcommittee members are interested in determination of composition of polymerized acids and are continuing to search for an adequate method. Assistance from the membership of AOCS is solicited.

Dibasic Acids Subcommittee, Don Roblin, Chairman

A Recommended Practices Method for dibasic acids has been written and submitted to the Subcommittee for review and comments. When an agreement has been reached, it will be presented to the Uniform Methods Committee with the request that it be included in the AOCS Official Methods Book. ASTM Committee E-15 has completed dibasic acid methods for purity by total acidity, ash and iron. When these three methods are released by Committee E-15, they will be rewritten in AOCS format and submitted to the Dibasic Acids Subcommittee for review and approval.

Fatty Nitrogen Analysis Subcommittee,
N. O. V. Sonntag, Chairman

A method for primary amine analysis by gas chromatography is currently being studied collaboratively. When these reports are in, a statistical calculation will be made and the method and results submitted to the Subcommittee on letter ballot.

Most of the methods dealing with the fatty nitrogens are still carried as AOCS tentative methods. These methods will be circulated to Subcommittee on a letter ballot for upgrading to official status.

Epoxidized Oils Subcommittee, W. F. Goldsmith, Chairman

Ralph Gall has resigned as Chairman of the Epoxidized Oils Subcommittee and W. F. Goldsmith has been appointed as his replacement.

The method for hydroxyl value for epoxidized oils has been approved by the Uniform Methods Committee and will be published in the AOCS Official Methods Book as tentative.

The Subcommittee plans to conduct a collaborative study comparing the Tetraethylammonium Bromide method for per cent oxirane (Jay method) with AOCS method Cd 9, Oxirane Oxygen. This study should be completed by the time of the AOCS fall meeting.

Commercial Fatty Acids Subcommittee, Ross Walker, Chairman

A collaborative study was conducted to check the present AOCS Color After Heating Method (Td 3a-64) against two proposed heat stability methods. Method Td 3a-64 will not measure heat stability differences between better grades of commercial fatty acids and it was hoped that one or both of the proposed methods would differentiate between these acids by giving a greater spread in color readings after heating.

Five samples of commercial fatty acids were sent out to five laboratories. The accuracy and precision of the reported results was very disappointing. It was found that the reading of the Gardner colors by the various laboratories contributed as much to lack of precision as the techniques of the methods being tested. Because of the problem in reading Gardner colors no decision could be reached by the Subcommittee in the selection of a heat test method.

The Subcommittee Chairman will solicit the Subcommittee for participants to repeat the collaboration on three samples of acids with final results to be read on a colorimeter in addition to the Gardner colors.

Hydrogenated Oils Subcommittee, Ross Walker, Chairman

The poor solubility of saturated oils, acids and alcohols creates problems when the current Industrial Oils and Derivatives Methods are used for the analysis of these products. The Subcommittee has decided to investigate the extent of these problems and the effect on accuracy and precision of results. The tests to be investigated initially are iodine value, saponification value, acid value and unsaponifiable material. The materials that will be checked on this initial study are hydrogenated castor acids, hydrogenated tallow alcohol and hydrogenated tallow triglycerides. The Subcommittee will be divided into task groups with one task group checking each of the above methods. The results of these groups will then be reported to the Subcommittee with recommendations.

K. E. HOLT, CHAIRMAN

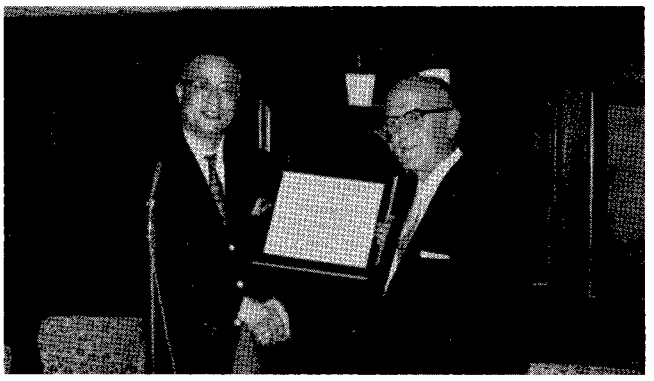
• *Local Section News*

Southwest Section

The following are new officers of the Southwest Section for the coming year: Chairman, W. J. Park; Vice-Chairman, J. J. Gleason; Secretary, R. A. Robinson; Treasurer, D. J. Schwedler; Program Chairman, R. C. Miller.

Northeast Section

The Northeast Section of the American Oil Chemists' Society announced at the June 7th meeting in New York City the awarding of the first Progress of Lipid Research Award to R. W. Riemenschneider (1942). Mr. Riemenschneider was awarded a plaque in recognition of his outstanding research and service in the field of lipids and his superior achievement in the analytical field. July JAOCS carried the résumé of Mr. Riemenschneider's work with the USDA, spanning a career of 34 years.



S. S. Chang, President of the Northeast Section, presents award to R. W. Riemenschneider (right).

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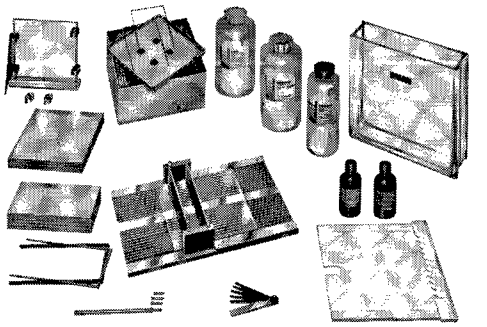

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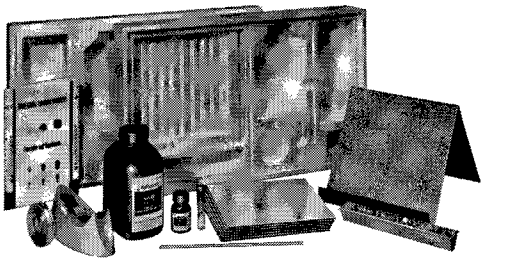

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