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#### Discussion of Paper

Dr. Lowry asked how the metals were prepared.

Mr. King replied that they were polished with fine emery paper, washed with HCl and distilled water, and dried in vacuum.

Dr. Lowry asked how long after cleaning the metals were put in the fat.

Mr. King replied 15 to 20 minutes.

Dr. Lowry commented that if they had been left an hour, some oxidation would have taken place and the results of the experiments would have been different.

Dr. Roeg inquired if any tests were made at room temperature.

Mr. King replied that in order to accelerate the tests, all experiments were made at a temperature of 208° F.

Dr. Barbour asked if the experimenters determined whether stannic or stannous stearate was formed.

Mr. King replied that due to the highly oxidizing conditions under which the experiments were carried out, it was assumed that only stannic stearate was present.

Dr. Barbour asked how the salts of the various metals were prepared.

Mr. King referred this question to Mr. Roschen who explained that an alcoholic solution of stearic acid was made and NaOH added to neutralization. The solution was diluted with 9 or 10 times its quantity of water and aqueous solutions of the various metals were added in excess. The solution was then filtered, the soap washed with water and dried.

## REGISTRANTS

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- Adams, C. E., Standard Oil Co., 1710 Davis Ave., Whiting, Ind.
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## Report of the Soap Analysis Committee

THE Soap Analysis Committee was organized as a separate committee of the Soap Section early in 1930. Until the present time the official soap analysis methods of the American Chemical Society have been in general use by all soap manufacturers and consumers since they were originally adopted in 1919 and revised in 1922. When the Soap Analysis Committee of this so-

\*Presented at the meeting of the American Oil Chemists' Society Oct. 12, 1933.

ciety was organized, it was felt that several of these methods needed further study with a view to revising them to fit the requirements of the industry. To summarize briefly, their work has been confined to studies of several of these methods which have generally given trouble in the past. Among the methods studied by this committee two have been revised and recommended for tentative adoption by the society. The first of these was the method for unsaponified and unsaponifiable matter