

1917 1918 1919 1920 1921 1922
 1923 1924 1925 1926 1927 1928 1929 1930
 1931 1932 1933 1934 1935
 1936 1937 1938 1939 1940 1941 1942 1943 1944 1945 1946 1947 1948 1949 1950
 1951 1952 1953 1954 1955 1956 1957

40 Forward Years

FOR

CROLL-REYNOLDS

1917 Croll-Reynolds Co. established; work on EVACTORS, started previously by the two founders, now enters new phase.

1920's Croll-Reynolds contributes greatly to the power field's efficient use of intercondensers between stages for steam economy.

1930's Croll-Reynolds focuses on the need for high vacuum in the growing chemical field—gives special attention to design of 4 and 5 stage EVACTORS, and also to the application of steam jet refrigeration equipment.

1940's Croll-Reynolds directs activity toward war effort, supplies a great number of EVACTORS for shipboard use, special units for the atomic program, and equipment for manufacturing new types of explosives and chemicals. In the late 1940's, Croll-Reynolds develops and supplies vacuum equipment for vacuum cooling of fresh vegetables.

1950's Croll-Reynolds develops special condensing tower used to recover entrained materials and to prevent contamination of cooling water—especially adaptable for deodorizers in the fatty acid and allied industries.

PRESENT Croll-Reynolds continues to develop and perfect new kinds of jet and condensing equipment with the knowledge and skill that has enabled the Company to establish an enviable record. In its Forty Forward Years, Croll-Reynolds has—

- Supplied equipment for vacuum cooling of fresh vegetables with a combined daily capacity of 2000 cars each holding 25,000 to 30,000 lbs.
- Designed and manufactured all the commercial vacuum cooling equipment used to date in the electrolytic zinc industry of the U. S. and Canada.
- Supplied more vacuum cooling systems for the Viscose-Rayon industry than all other manufacturers combined.
- Pioneered many new applications of vacuum and vacuum refrigeration.

Croll-Reynolds Company, Inc. is confident that in the future, as in the past, they will continue to develop new types of industrial jet equipment and improve existing designs.

Croll-Reynolds CO., INC.



Main Office: Westfield, New Jersey

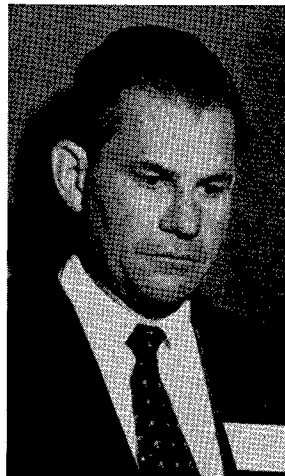
New York Office: 17 John Street, New York, N. Y.

CHILL-FACTORS • STEAM-JET EVACTORS • AQUA-FACTORS
 FUME SCRUBBERS • SPECIAL JET APPARATUS

Visit us at the Chemical Show—Booth 1344

New Processes and Progress Disclosed at Cincinnati Meeting

SEVEN TECHNICAL SESSIONS were required for the presentation of 53 papers at the 31st annual fall meeting of the American Oil Chemists' Society held at the Netherland Hilton hotel, Cincinnati, O., on September 30, October 1-2, 1957. These sessions included general fat chemistry, detergents and detergency, physical properties and measurements, processing and composition, analysis and biochemistry of fats and fatty acids. Presiding at these



D. S. Austin

sessions, respectively, were: R. C. Stillman, S. J. Miller, J. T. R. Andrews, J. H. Benedict, F. O. Barrett, H. Ecker, and O. T. Quimby.

The papers were presented by speakers from Canada, India, Sweden, and 12 states of the U. S. A. The speakers represented five government laboratories, eight universities, and 15 companies.

Harry Smith and T. F. Waters of the Procter and Gamble Company opened the technical session with a discussion of the use of statistical techniques with standard product-specifications. The analysis of variance can be used to determine whether process variability, sampling, or the analytical method is

responsible for poor precision on product specifications. Statistics can also provide an estimate of the number of analytical determinations required to provide satisfactory precision at minimum cost.

New Processes

The first disclosure of a continuous hydrogenation process was made by V. F. Green of the Procter and Gamble Company. The process which is used to harden glyceride oils requires a combination of very active catalyst; elevated pressure; violent agitation of the oil, hydrogen, and catalyst to provide very rapid reaction rates; and efficient means of removing the heat of reaction.

Cincinnati Exhibitors

(to be concluded in December)

1. **FRENCH OIL MILL MACHINERY**—R. P. Hutchins, host, is shown with Guy W. Lalone Jr. and M. R. Wingard.
2. **PERKIN-ELMER**—Interested in new equipment are E. L. Schramm (left), A. V. Graci Jr. (center), and A. P. Altschuller.
3. **GIRDLER**—Intent on new literature are George F. Clark Jr. (left), C. L. Hunt (center), and L. E. Osmer (Girdler).
4. **DARCO SALES, ATLAS**—Relaxing in a lounge area are (left to right) C. T. Fiscella, G. E. Prielipp, J. W. Churchman, D. F. Starr, L. R. Dugan Jr., and R. D. Bitting.
5. **OAKITE PRODUCTS**—K. C. Tucker has good attention from N. W. Ziels (left), M. M. Durkee (center), and F. H. Smith.
6. **A. S. LA PINE**—Man with the badge, D. L. Henry, is getting the low-down from H. Duke Williams.
7. **METTLER INSTRUMENT**—Visitor is T. J. Potts (left), and host is H. W. Madden.
8. **CHEMINEER**—Chap with the beard and the pipe is R. L. Bates; his visitor is R. O. Alderson.
9. **E. H. SARGENT**—This trio shows a line-up of R. F. Paschke (left), R. M. Kelley (center), and R. E. Cahill of the Cincinnati branch.
10. **FISHER SCIENTIFIC**—Gentleman with the glass is Louis M. Baney, and his guests are James F. Starks and Wilma J. Schneider.
11. **BLAW-KNOX**—At the right of the host, R. W. Berger, is N. T. Ruebottom. Facing them are W. J. O'Connell and W. P. Fieger.