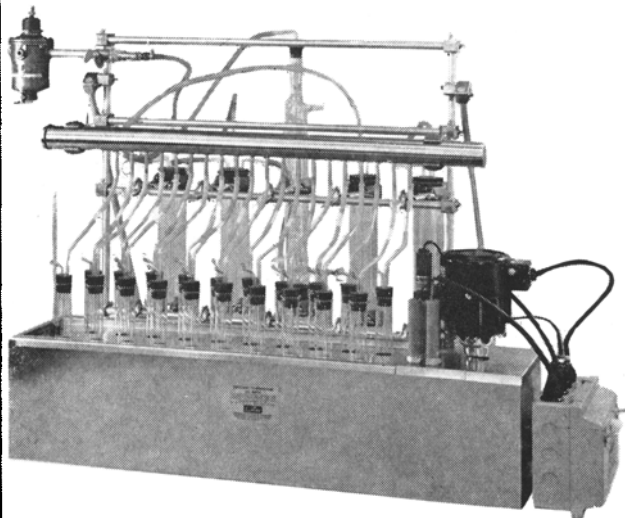


## LA PINE A O M FAT STABILITY APPARATUS



**PRINCIPLE:** Clean air is bubbled at a constant rate through the sample, maintained at constant temperature, until rancidity is developed. The aeration time to the inception of rancidity is recorded. The peroxide values of three sample portions which have been aerated separately are plotted against their aeration times. Keeping time, i.e., the time of aeration corresponding to a predetermined peroxide value for the organoleptic rancidity point, is read from the graph.

### CONSTANT TEMPERATURE BATH

The constant temperature bath consists of a stainless steel tank with  $\frac{1}{2}$ " of insulation surrounding four sides and bottom. A stainless steel test tube rack fits into the bath. A stainless steel shelf supports the thermoregulator and two 500 watt immersion heaters. Next to this shelf is a powerful circulating pump. All parts are readily removable for cleaning. The relay control box is mounted by a dovetail socket arrangement, and is removed by lifting.

The immersion heaters and circulating pump are of stainless steel and plated bronze, respectively. It should be noted that nowhere in the bath or air distributing system are copper or copper alloys used without being plated.

The relay is of the mercury plunger type. It operates on a central circuit current of 2 milliamperes at 110 volts A.C. The control box has four plugs, one for each of the two heaters, one for the pump, and one for the thermoregulator. When assembling the unit for operation, it is only necessary to plug in these units, then plug the relay into the line. Two switches are provided; one is an "On-Off" switch and the other is a "Hi-Lo" switch enabling the operator to use either 1000 watts for quick heating or 250 watts for maintaining constant temperature. A pilot light signals use of the heaters.

The thermoregulator may be set at any temperature between  $-38$  and  $350$  degrees F. It is extremely sensitive to temperature changes, and operates within plus or minus  $0.05$  degrees F.

### AIR DISTRIBUTION SYSTEM

The air distribution system consists, in part, of a stainless steel manifold, an air pressure regulator, a needle valve, pressure regulating columns, calibrated capillary tubes and the complete air purification train. Not furnished are a wet test meter for calibrating the system and a rotameter for checking the calibration. All parts of the air distribution system are mounted on a lattice support, and the complete system may be moved by merely disconnecting the capillary tubes.

The capillary tubes have been accurately calibrated, and each is engraved, the actual time being marked on each tube. They will deliver 2.33 cc. of air per second when the system is calibrated with the wet test meter.

### GENERAL

The apparatus has been painstakingly designed for the test, and a custom-built prototype has been in daily use for over two years with excellent results.

CATALOG NO. OC-314-01 CONSTANT TEMPERATURE OIL BATH AND AIR DISTRIBUTION SYSTEM, for AOM Fat Stability Test, without wet test meter or rotameter, for operation on 115 volts, 50/60 cycles A.C. only.

Without air purifying train.....\$491.00  
Complete with air purifying train.....\$75.00

Joseph A. Cannon, who was the symposia award winner at the Minneapolis fall meeting in October, is a chemist in the oilseeds section, Northern Utilization Research Branch, Peoria, Ill. He is engaged in studies on the glyceride structure of vegetable oils, using countercurrent distribution techniques. During World War II he was a naval aviator.



## Appointments

The election of Frank C. Haas to the board of directors of ARCHER-DANIELS-MIDLAND COMPANY, Minneapolis, Minn., was announced following the annual meeting of stockholders. A. C. Hoehne, vice president of the company, has been appointed to the Oilseeds and Peanut Advisory Committee of the United States Department of Agriculture.

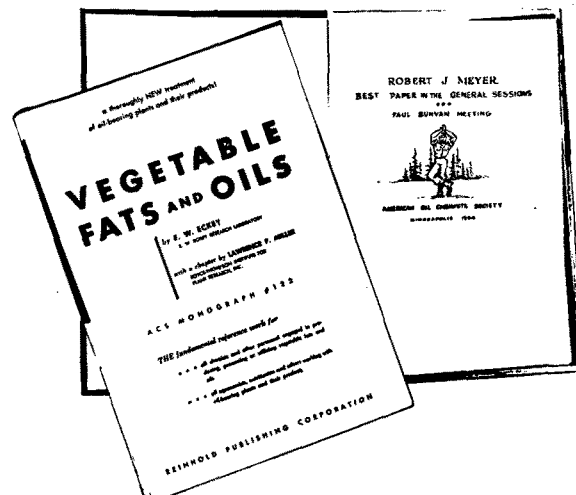
The agricultural chemicals division of AMERICAN CYANAMID COMPANY, New York, announces the appointment of Carl A. Sears as assistant technical director. Max Bender, a senior research chemist at the Bound Brook plant of American Cyanamid, is teaching colloid chemistry in the graduate evening program of Adelphi College.

Recently appointed to the staff of FOSTER D. SNELL INC., New York, consulting chemists, Egon I. Sudy will serve as technical representative in Argentina, Brazil, Chile, and Uruguay.

At WITCO CHEMICAL COMPANY, New York, Charles Gardner is new sales manager of the drier division, and W. F. George has joined the company as special assistant to the president.

New director of research and development at SPENCER KELLOGG AND SONS INC., Buffalo, N. Y., is Malcolm M. Renfrew, succeeding Alexander Schwareman, who established the Kellogg laboratories more than 40 years ago. Dr. Schwareman will remain active in the company in an advisory capacity.

The appointment of Robert C. Briscoe as technical director of the GREAT WESTERN PAINT MANUFACTURING CORPORATION, Kansas City, Mo., has been announced.



The above is a reproduction of the award given R. J. Meyer, University of Wisconsin, for the best presentation in the general sessions at the fall meeting of the American Oil Chemists' Society in Minneapolis in October. The award was Eckey's "Vegetable Fats and Oils."