the only ultimately satisfactory solution of the problem of oil color determination lies in the direction of development of a colorimeter whose operation is en-tirely independent of the vagaries of col-ored glass. Such a method of color determination already exists in the form of the spectrophotometer but those commercially available today are too costly for our use. They do provide, however, a means of expressing in fundamental physical units all the data required to

define specifically a color.

Even though their cost could doubtless be considerably reduced with quantity production in simplified form, there remains a gap to be bridged in devising some scheme by which these fundamental units can be translated into Lovibond units or into terms having the same practical significance to oil chemists and refiners.

As a first step in that direction, through the courtesy of Dr. K. S. Gibson, Chief of the Colorimetry Section of the Bureau of Standards, Mr. Mc-Nicholas has agreed to collate and pre-pare for publication a large amount of

spectrophotometric data on eighty or more vegetable oils accumulated some years ago at the Bureau. When this is ready it should be possible, by comparison of the spectral transmission curve of the individual oil itself with the curve of the combination of glasses used to express its color in Lovibond units, to arrive at a conclusion as to whether any other system of color determination can be devised which will avoid the use of glasses without sacrificing the simplicity and convenience of the Lovibond numerical scale. If the results of this investi-gation offer any encouragement we will at least have something concrete to present to the optical instrument manufacturer as a basis for the development of a satisfactory colorimeter.

The work of the committee is then proceeding along two lines:

(1) Investigation of possibility of correcting the glasses as now furnished by Lovibond by grinding and polishing to the proper thickness. In this connection it is to be noted that, with few exceptions, the glasses have in recent years given higher values than their original

grading after being calibrated at the Bureau of Standards. This would accordingly indicate that they could be adjusted to their correct value with a minimum of grinding and polishing.

(2) Investigation of possibility of devising a colorimeter which will function without the use of colored glass but will permit color to be expressed in terms of Lovibond units. No conclusions can be drawn regarding this phase of the work until a report on the data collected by the Bureau of Standards is available.

Your chairman has nothing further to report at this time. He wishes to express his appreciation for the assistance and worthy suggestions given by the members of this committee and Dr. K. S. Gibson at the Bureau of Standards.

If it is the wish of the Society that the Color Glass Development Committee continue to function until something more definite can be stated concerning the problem before it, we will gladly carry on.

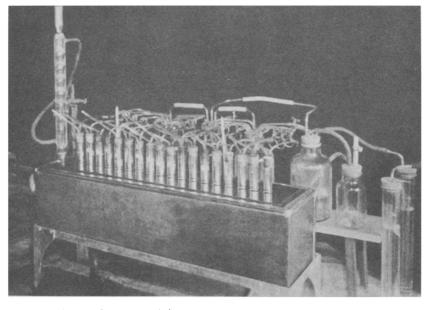
Submitted by: L. M. GILL, Chairman.

# DM

#### Improves Filler

The Hy-Speed automatic multiple spout vacuum bottle filler, one of three

new units perfected by Alsop Engineering Corporation, New York, embodies many modern improvements. All excess gadgets have been replaced



Active Oxygen Stability Equipment for Oils and Fats

by simplified, efficient parts. The machine operates with speed, accuracy and utmost economy. All overflow containers have been eliminated; a con-stant vacuum is maintained at all times which means faster and more even filling; the direct driven slow speed pump will stand long wear and tear. Bottles of many sizes and shapes are filled to any desired height, but cracked or leaky ones are rejected. The automatically sealed "no drip" filling spouts matically sealed "no drip" filling spouts insure perfect cleanliness and neatness, and enable the bottler to label his bottles before filling them, thereby eliminating any excess handling of full bottles. This new machine sells for a surprisingly low price. The new Hy-Speed revolving conveyor tables are very rigid in construction and are balanced perfectly. The openies too anced perfectly. The one-piece top, set in bearings, is of solid aluminum, and revolves with a touch of the finger. These new units are low in price and are of extreme value in any plant in that they can be used in several ways and, in addition, conserve a great deal of floor space. Ball-bearing rubbertired wheels make for ease and simplicity in moving the tables from place to place. The tables can be raised or lowered to any desired height, thereby adding to their adaptability in fitting in with any operating throughout the plant where an accumulating or conveying device is required.

## NEW DEVELOPMENTS (Continued)

#### New Packager

A new machine which it is claimed will fill, seal and pack 400 cartons an hour and which is called the Triangle Economy Packager, has been perfected by Triangle Package Machinery Company, Chicago. The packager is compact, simple, flexible, complete and inexpensive, according to company claims. The company states that the machine produces neat, attractive and perfectly packaged merchandise and cuts packaging costs.

#### Develop New Conduit

A new type of conduit that provides a ball-bearing surface that is claimed to greatly reduce wire pulling friction is the latest development of the electrical division of Steel and Tubes, Inc., Cleveland, Ohio. The inside of this new conduit, called "Electrunite Steeltubes," is processed prior to forming and welding so that the entire surface is covered with small, round, raised knobs which produce what the manufacturer refers to as a "ball-bearing surface," according to officials of the company. The manufacturer claims that this type of contact surface reduces the surface friction 30 per cent and in addition requires less time and

cuts down jamming in the pulling of cables. No threading is required in the installation of this conduit, and it is said to cut and bend more easily than the old style conduit.

### A A A Reports Better Business

Kjeldahl nitrogen apparatus, manufactured by the Laboratory Construction Company, Kansas City, Mo., has been purchased by Swift & Company, Chicago, for use in its World's Fair exhibit this year. Swift & Company also purchased new Goldfisch extraction apparatus from the company for use in its World's Fair exhibit. The Laboratory Construction Company reports a decided improvement in business, according to its officials.

**A A A** 

#### Perfect New Sprayer

A portable electric sprayer, called Breuer's Tornado, has been perfected by Breuer Electric Manufacturing Company, Chicago. The sprayer weighs only 3 pounds and can be handled as easily by a woman as by a man, according to company claims. It will spray any liquid insecticide for a distance of 8 to 10 feet, breaking it up into a fine mist that floats in the air.

This sprayer is for use in small industrial plants and institutions of all kinds and the company claims that it places the insectitide into cracks and crevices where the insects hide and where many other such instruments fail to reach.

#### Has New Insecticide

A new and powerful insecticide that is claimed to contain no pyrethrum or botanical derivatives has been brought out by Kaz Manufacturing Company, Inc., New York City. The sectrol is said to act more quickly and produce a higher kill, and is uniform, non-inflammable, non-staining and non-corrosive. This insecticide is for use in an improved insector which the company has manufactured and which is supposed to be safe, economical and efficient.

#### Manufactures Soaps

The Chemical Supply Company, Cleveland, Ohio, carries a full line of sanitary specialties manufactured exclusively for the wholesale trade and also puts out a group of building specialties. The sanitary specialties include cleaning compounds such as Pinolave, Pine Scrub soap, and liquid soap.

**A A A**