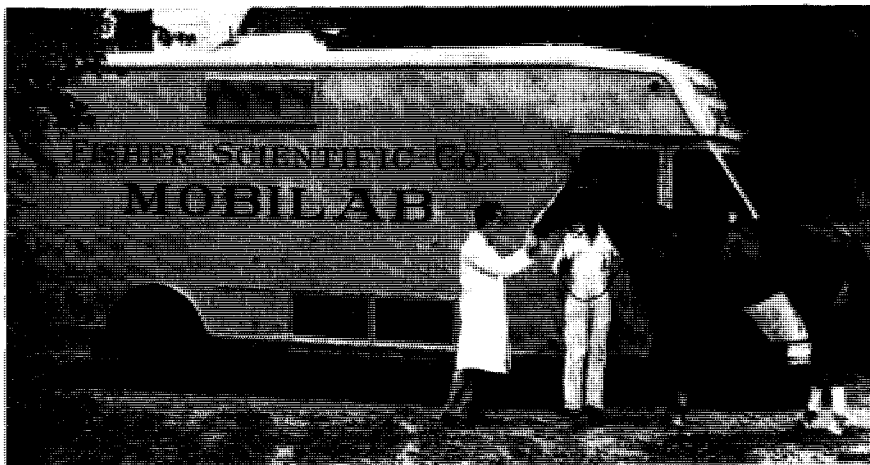


NEW PRODUCTS AND EQUIPMENT

Lab on Wheels

A packaged, standardized laboratory on wheels, called the Mobilab, has been designed and built by Fisher Scientific Co. A sample laboratory has just been finished and dedicated and is now touring the country to demonstrate laboratory instruments and apparatus developed by the company.

Many laboratories on wheels are now in existence, but Fisher says that the high initial cost of these custom-built units has been reduced in the Mobilab by use of a standardized laboratory body with all necessary services—gas, water, electricity, heat, and air conditioning. Laboratory furniture and testing apparatus are added to produce a field laboratory for any of many varied types of work. For instance, the equipment can be altered to provide a complete laboratory for such things as public health surveying, water testing, milk testing,



food and drug analysis, animal disease research, pest control, and soil surveys.

PE1

Nuclear Magnetic Resonance Spectrometer

A high resolution, nuclear magnetic resonance spectrometer has been introduced by Varian Associates for determining molecular structure and components in a mixture. Referred to as model V-4300, the instrument is principally applicable to compounds containing hydrogen or fluorine.

Difference in the nuclear magnetic resonance structural spectra of isomers are detected and comparison of resulting oscilloscope traces against those obtained from known compounds makes it possible to identify structure in the two isomers. The spectra are observed and recorded either on a strip chart or photographed from an oscilloscope screen.

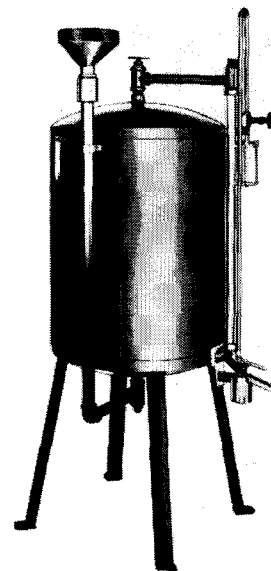
PE2

Gravity Type Liquid Feeding Device

A gravity-type liquid feeding device has been developed by the Hankison

Left: Blaine Riech, design specialist who supervised construction of Mobilab, demonstrates lab facilities. Fisher's unitized furniture without the usual trough at back provides 36-ft. of bench space. Reagent bottles are held in place in special racks

Bottom: Veterinary medicine and animal disease research are some of the possibilities for utilizing the Mobilab. Built on a Chevrolet bus chassis, the lab is 25 feet long, 95 inches wide, and 130 inches high. A governor limits the speed to 33 miles per hour



Corp. The device is called the Liquifeeder. Rate of feed is adjusted by a valve which meters the air admitted to the supply tank. The company claims that flow rate can be varied from less than $\frac{1}{8}$ to 500 gallons a day. Each Liquifeeder includes a combination sight glass and bubble-type flow meter, which indicates rate of flow by bubble frequency.

Designed for batch type operations, the Liquifeeder has been used for treating water in cooling tower systems, bleaching, perfuming, blending and other operations utilizing constant gravity feed of liquids.

The devices can be constructed of special materials to suit specific fluids. Parts exposed to corrosion are made of stainless steel with Teflon gasketing.

PE3

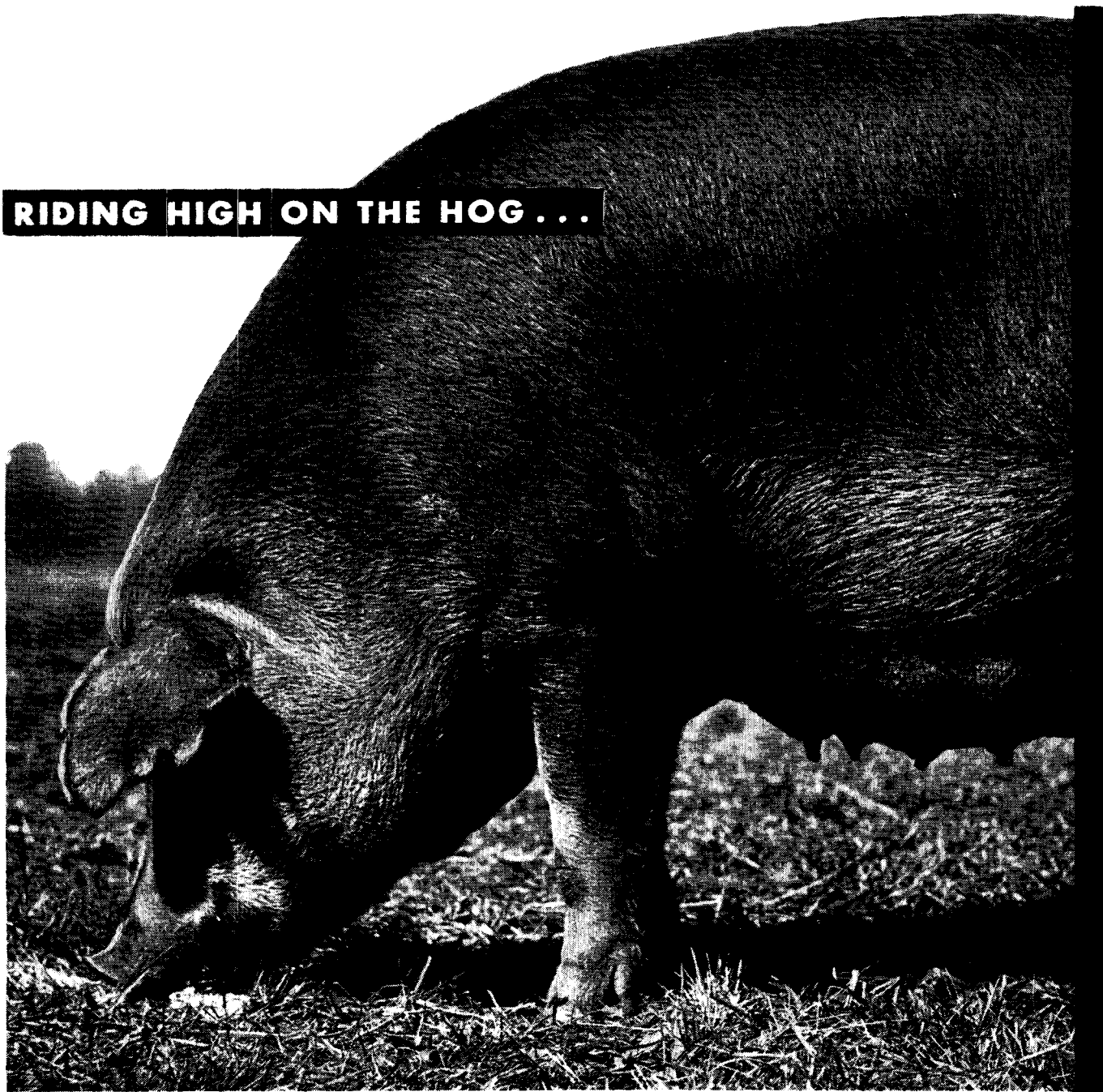
Continuous Measuring of Specific Gravity

Ohmart Corp. has introduced a standardized, packaged instrument for continuous measurement of specific gravity. Called the series SG specific gravity meter, it utilizes radioactivity to measure the specific gravity of liquids, slurries, sludges, or granular materials flowing through process pipes at operating temperatures and pressures and with no interference in process procedure.

The instrument, incorporating Ohmar cells, null system of measurement, and indicating D.C. amplifier, measures variations in specific gravity of a flowing material over a range of 0 to 0.500

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change above any minimum value, with an accuracy of ± 0.005 in any range. Models are available in 8 standard ranges from 0.500 to 2.750.

The standard unit fits 3- to 6-in. pipes and is mounted externally on brackets. A nonmicrophonic cable connects the measuring cell to the amplifier which may be up to 200 ft. away. Measurements may be transferred to any potentiometer recorder, either circular or strip chart type, having a range of 0 to 20 mv.

PE4

Laboratory Scale

The Exact Weight Scale Co. has added a newly designed series to its line of Shadograph scales. The new design, featuring center tower indicator, is built with the beam and poise mounted on the front of the scale, with the beam and indicator dial mounted directly in the operator's line of vision, the manufacturers claim that the scale is easier to operate than previous models. Changing weights on the exposed weight platter is, also, simplified in the new model.

PE5

Coumarin Replacement

Dodge & Olcott, Inc., has announced to food processors that it is offering a new product called Dolcourin as a replacement suggestion for users of coumarin. Recent reports have indicated that coumarin is a toxic agent (Ag & Food, May 27, page 351).

Dodge & Olcott says that Dolcourin contains more coumarin derivatives and that it can be used in any formula which utilizes coumarin or tonka. It is also said that Dolcourin has a high fixative value and that its flavor strength and tonal quality are approximately equal to coumarin.

The new product is available without delay and Dodge & Olcott is offering 1-lb. trial bottles at the regular 25-lb. price of \$2.50 per pound.

PE6

Strobane Insecticide Available for Research

The B. F. Goodrich Chemical Co. has experimental samples of Strobane available for qualified research workers in the various fields of agriculture and industry.

The basic insecticide material was announced in Chicago at a meeting of the Chemical Specialties Manufacturing Association (Ag. & Food, May 27, page 357). Strobane has been identified as a "chlorination product of a mixture of terpene hydrocarbons."

According to Goodrich the material can be prepared and used in almost all the conventional forms for insecticide application; with the most immediate potential usefulness in the field of aerosols, space sprays, and surface sprays.

PE7

LITERATURE AVAILABLE

Apparatus. New items of scientific laboratory apparatus featured in this brochure are: a new line of industrial balances, a utility water bath, laboratory glassware washer, and many others. SCIENTIFIC GLASS APPARATUS CO. L1

Beverage Flavors. Bulletin on flavors for drinks contains information for the manufacturer of flavored drinks and recommends formulations for the preparation of syrups. GIVAUDAN FLAVORS INC. L2

Bulk Milk Systems. Illustrated booklet outlining methods and equipment for bulk milk handling. Includes a description of a line of bulk milk coolers. MOJONNIER BROS. CO. L3

Choline Salt. Technical data sheet on 2-hydroxyethyltrimethyl ammonium bicarbonate, an industrial grade choline salt which appears to have possibilities as a catalyst and intermediate for other choline salts. COMMERCIAL SOLVENTS CORP. L4

Dehumidification Equipment. A 16 page catalog featuring dehumidification and many other types of instruments and equipment for research and control laboratories. SCHAAR & CO. L5

Emulsion Stabilizers. Technical bulletin on a group of lignosulfonate surfactants which differ from conventional emulsifiers in that they have little effect on interfacial tensions. MARATHON CORP. L6

Engineering Services. Booklet describes and illustrates industrial projects designed and constructed by Kaiser Engineers. Includes discussion of various chemical processing plants. KAISER ENGINEERS L7

Flavors. Catalog lists and describes a line of flavoring materials, including basic flavor materials, natural fruit flavors and imitation flavors. Flavor materials are also classified according to suggested uses. GIVAUDAN FLAVORS INC. L8

Ice Cream Flavors. Various formula-

tions are presented for suggested use in the preparation of ice cream flavors. The bulletin has been prepared primarily for the supplier of ice cream flavors and specialties. GIVAUDAN FLAVORS L9

Kjeldahl Apparatus. Equipment catalog of a company which specializes in kjeldahl apparatus, including multiple rack units for industrial control laboratories. LABORATORY CONSTRUCTION CO. L10

Low Temperature Insulation. Technical bulletin on Foaming, a low temperature space insulation for walls, ceilings, and floors. Includes data on insulation values of various thicknesses of the material. PITTSBURGH CORNING CORP. L11

Laboratory Apparatus. Catalog of apparatus for soil testing apparatus. A special section is devoted to apparatus for chemical and engineering tests of soils. SOILTEST INC. L12

Motors Bulletin. Contains complete information on the NEMA motor standards, compares the old and new frame assignments for open type polyphase, single phase and wound rotor motors. GENERAL ELECTRIC L13

Metal Hose. Descriptions and specifications for helically wound flexible metal hose. In addition the catalog contains information on installation and application. TITEFLEX INC. L14

Pumps. Applications, operating principles and technical data on external gear and bearing screw pumps for nonlubricating fluids and semifluids. SIER-BATH PUMP CO. L15

Resin. Technical booklet on Vinsol giving properties and applications. Applications for the material include its use in adhesives, emulsions, paper and protective coatings. HERCULES POWDER CO. L16

Rubber Hose. Bulletin on care of rubber hose, tells what to do and what not to do in the use and storage of various kinds of hose, including steam, fire, oil and air hose. HEWITT-ROBBINS INC. L17

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