

## New Products

**Remotely controlled analytical balances** allow highly precise weighings of radioactive, toxic, or explosive materials to be made safely and easily. With capacities to 8000 g, the balance has an optical scale range of 10 g. Accuracy is  $\pm 1$  mg. Safety is insured when working with high levels of radioactivity such as are found in fuel cores or contaminated specimens. Remote-control units can be used to determine the density of radioactive substances, and to measure density changes in radioactive fuel sources. Explosive materials can be compounded behind thick protective shields. Poisonous chemical compounds and bacteriological substances can be effectively weighed in isolation chambers. Balances can be sterilized and introduced into gnotobiotic systems. The large optical scale makes it possible to read results from a distance of 14 feet without the use of optical aids.—R.L.B. (Mettler Instrument Corp., Dept. S292, 20 Nassau St., Princeton, N.J.)

**M.O.U.S.E. spirometer** continuously maintains constant pressure in a metabolism chamber by adjusting the volume with a piston moved by a servo system. Carbon dioxide is removed by an adsorbant so that the displacements of the piston measure the volume of oxygen removed so long as the temperature is maintained constant. As the piston moves, a pen fixed to the piston scribes a line on a graph paper along with 1-minute timer marks to provide a record of volume uptake per minute (length of line between markers) and

total integrated oxygen consumption (total length of line). The standard instrument has a piston volume of 300 ml in 18 inches of travel and is accurate to 0.5 ml. M.O.U.S.E. stands for Minute Oxygen Uptake Servo Equipment, but the equipment is equally useful for small plants and animals that can be placed in an air-tight enclosure and maintained at constant temperature. Lucite animal chambers surrounded by water to reduce temperature changes are available as accessories.—R.L.B. (Aloe Scientific, Dept. S295, 1831 Olive St., St. Louis 3, Mo.)

**Electronic printer** (model S-C 3070) is said to be capable of printing at speeds up to 3000 words per minute. The device utilizes a shaped-beam tube and electrostatic printing. Beam-formed images are optically projected from the tube onto light-sensitive paper. Development is accomplished by brushing the exposed surface of the paper with a dry, powdered ink and passing the paper under a heating element to fuse the powdered ink to the paper. Replacement paper rolls can be loaded without interrupting operation.—J.S. (General Dynamics/Electronics, Dept. S232, P.O. Box 127, San Diego 12, Calif.)

**Airborne spectrum analyzer** is designed for pretelemetering analysis of random acoustic and vibration signals generated in airborne vehicles. Compatible with IRIG telemetry standards, the nine-channel analyzer is said to reduce bandwidth requirements by factors as high as 1000 for telemetering over narrow-band PAM, PCM, or PDM channels. Output signals are double ended, balanced, and isolated from both each other and the inputs. Data are analyzed and transmitted in real time with data frequency range 200 cy to 2 kcy/sec. The equipment weighs 12 lb and measures 11 by 7 by 4 inches.—J.S. (Gulton Industries, Inc., Dept. S264, 212 Durham Ave., Metuchen, N.J.)

**Grating monochromator** is offered in building-block design to accommodate several sources, detectors, cell holders, and optical benches for assembly into special-purpose configurations. The slit mechanism is a tandem linked parallelogram design with a micrometer adjustment dial. Wavelength setting is indicated by a precision dial indicator linked to the grating cartridge. Wavelength range is 200 to 1400  $m\mu$ , depending on grating. Aperture  $f/4.4$  and reciprocal dispersion is 6.6  $m\mu/mm$  for 600-line gratings and 250-mm spherical mirrors. Wavelength selection can be set manually or operated automatically for recording spectra by means of several drives available.—R.L.B. (American Instrument Co., Dept. S294, 8030 Georgia Ave., Silver Spring, Md.)

**Radiation monitor** is a Geiger-Müller tube instrument designed for carrying in the pocket. Four ranges of 0 to 10, 100, and 1000 mr/hr and 0 to 100 r/hr provide direct and instantaneous indication of the gamma or x-ray field. Energy dependence is said to be  $\pm 15$  percent of gamma or x-ray energies between 80 kev and 1.2 Mev. All electronics circuits can be checked by a test position on the function selector switch. Radiological operation can be checked with a small radioactive source such as a luminous watch dial. A phone jack is provided for earphone monitoring. More than 40 hours of continuous operation are provided by one 4.2-v battery.—J.S. (Radiation Equipment and Accessories Corp., Dept. S281, 665 Merrick Rd., Lynbrook, N.Y.)

Precision power supply and null voltmeter are combined in the model VC-200 **voltage calibrator**. The instrument is completely solid-state in design except for three tubes in the power supply output stage. Output is 0 to 1000 v d-c and measurement range is 0 to 1000 v. Accuracy as a voltage source is said to be  $\pm 0.01$  percent  $+50 \mu v$  and, as a voltmeter,  $\pm 0.01$  percent  $+5 \mu v$ . Zener diodes are utilized as voltage reference. Selected and aged wire-wound resistors and an ultra-linear Kelvin-Varley divider are said to assure stability of 0.001 percent for a 10-percent change in line voltage and similar regulation from no-load to full-load. The instrument is continuously self-calibrating.—J.S. (Calibration Standards Corp., Dept. S301, 1031 Westminster Ave., Alhambra, Calif.)

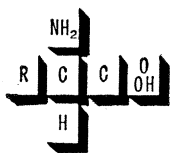
The material in this section is prepared by the following contributing writers:

Robert L. Bowman (R.L.B.), Laboratory of Technical Development, National Heart Institute, Bethesda 14, Md. (medical electronics and biomedical laboratory equipment).

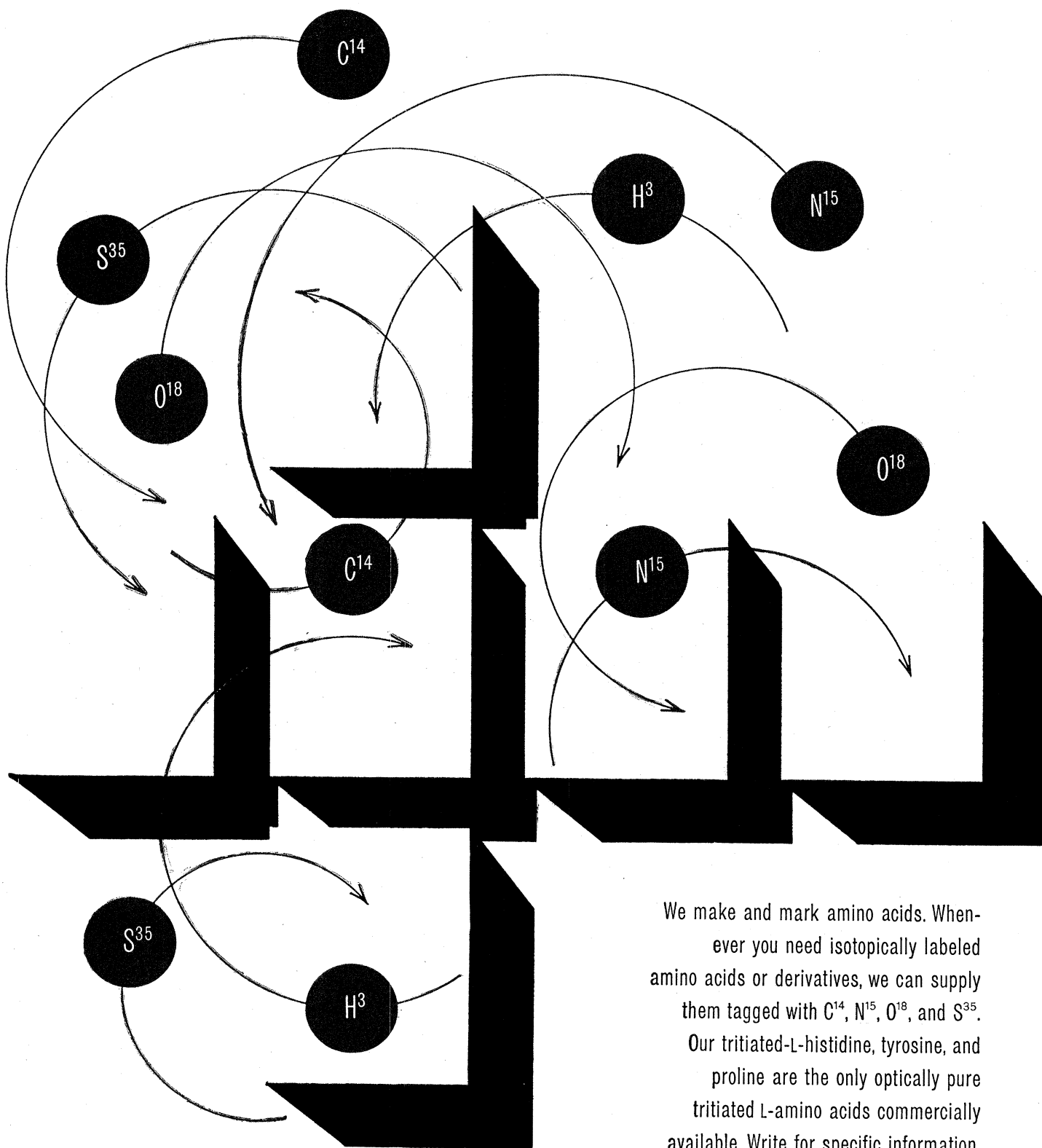
Joshua Stern (J.S.), Basic Instrumentation Section, National Bureau of Standards, Washington 25, D.C. (physics, computing, electronics, and nuclear equipment).

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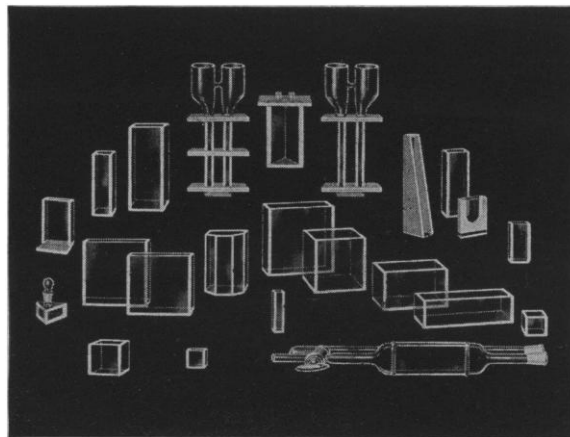
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- Fully stabilized, simple, usable with all types of electrodes.

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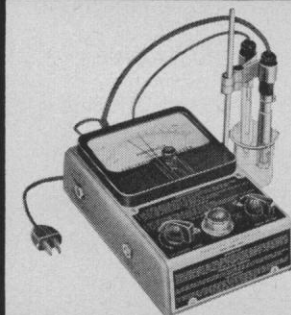


### Standard Laboratory pH Meter Model 115

- Single range 0-14, scale length 4", readable to 0.05 pH unit.
- Temperature control 20-100° C., available with carrying case.
- Additional millivolt scale for redox measurements and titrations.

Write for Bulletin #225

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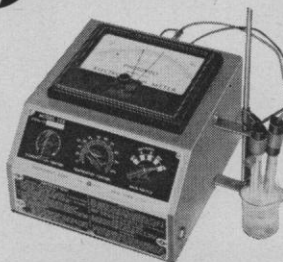


### Portable pH Meter Model 125

- Single range 0-14, scale length 5½", readable to 0.03 pH unit.
- Only 3 batteries, standard radio type, 2,000 hours of service.
- Available — carrying frame for instrument, beakers, bottles.

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### Tester Model 25 for Checking and Adjusting pH Meters

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## POSITIONS WANTED

**Biochemist**, M.S. degree, publications, consider any position utilizing 18 years' varied experience in clinical research. Prefer full-time research in lipids. William C. Vogel, 2871 Highview Terrace, St. Paul 18, Minn. 7/6, 13

**Biologist**, Ph.D. Well-trained in physiology, cytology, histology, anatomy, embryology, entomology, parasitology, zoology; 6 years' experience in teaching and research. Publications. Member of scientific societies. Seeks faculty appointment at college or graduate school. Box 148, **SCIENCE**. 7/13

**Geneticist** receiving Ph.D. about September—training in genetics, population genetics, zoology and statistics, seeks teaching-research or research position. Box 151, **SCIENCE**.

**Histochemist/Cytologist**, Ph.D. (interference and electron microscopy, modern cell biology background). Publications, teaching and/or research position in Canada or U.S. Box 152, **SCIENCE**, X

**Pharmacologist**, M.D., Ph.D., married; 3 years' teaching in medical school. Publications, society membership. Desires academic appointment. Box 156, **SCIENCE**. X

**Virologist-Microbiologist**, M.A., Ph.D. Desires supervisory, administrative or teaching and research position. Experience in virology, tissue culture, virologic diagnostic work and teaching medical microbiology. Prefer West Coast. Box 157, **SCIENCE**. 7/27

## POSITIONS OPEN

### ANALYTICAL RESEARCH CHEMIST

Leading midwestern manufacturer of animal health and feed medication products seeks chemist or biochemist to develop new analytical procedures for organic compounds in biological materials which will be used with the submission of New Drug Applications and their necessary accompanying data to the Food and Drug Administration. Applicants should have Ph.D. in Chemistry or Biochemistry or have equivalent laboratory experience. This position will require ingenuity and interest in the development of analytical methods. Experience in colorimetry, spectrophotometry, and fluorometry is desired. Please reply with complete résumé to:

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**Biochemist:** Position in Surgical Research Department. Rank and salary depend on qualifications. Interest in mechanism of action of bacterial and tissue toxins. Opportunity for own development with primary responsibility for own laboratory and technicians. Address: Department of Surgery, Louisiana State University School of Medicine, New Orleans 12, La.

**Ph.D. Virologist** with tissue culture experience needed for expanding virus research program in Detroit. Work will relate to basic studies of viruses in tissue culture, new vaccine and virus techniques, and development of new systems for virus assay. Applicants are invited to submit detailed résumés, including theses and publications, to Manager, Research Personnel, Research Laboratories, Parke, Davis & Company, Detroit 32, Michigan. We are an equal opportunity employer. 7/20

### Physiologist or Pharmacologist wanted at Du Pont

There is opportunity at Du Pont for a pharmacologist or physiologist. He will do laboratory research in close cooperation with other scientists, in synthetic chemistry, biochemistry, microbiology, toxicology and other disciplines. Several years' experience in research will be an asset. Send complete resume, including publications and salary requirement to Du Pont, Personnel Division, Box JB, Wilmington 98, Delaware. An equal opportunity employer.

### RESEARCH BIOCHEMIST

Leading midwestern manufacturer of animal health and feed medication products has an immediate opening for a biochemist to design and conduct experiments with the purpose of investigating the metabolism of certain chemical substances and of separating and enumerating their metabolic end products. Position entails development and application of methods for separating and purifying residues, determining the nature of substances, developing analytical methods and other similar functions. Applicants should have a Ph.D. in Biochemistry or equivalent through experience. Age 25–40. Experience in separation and purification of chemical substances required. Please reply with complete résumé to

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7/27

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Challenging position for chemist in our Pharmaceutical Research Division. Need man to carry out new drug synthesis. M.S. Degree with experience or Ph.D. minimum requirement. Our firm has modern facilities and is rapidly expanding. We offer an excellent future, security and fringe benefits, including a profit sharing program. Please send résumé in confidence to: MCH, Research Dept., Diamond Laboratories, Inc., 2538 S.E. 43rd St., Des Moines, Iowa.

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Our company currently has a need for a Ph.D. or equivalent background in biostatistics for our Statistical Quality Control Department. This position entails problem solving in the area of biologicals. We would like this person to have a knowledge of parallel line assays, slope-ratio assays, probit analysis, serial dilution, plate counts, as well as having a sound, basic background in probability and statistics. Experience is not necessary, but could be helpful. The location of the position is Detroit, Michigan. Salary open. Please send résumé and salary requirements to: Personnel Department, Parke, Davis & Company, Joseph Campau at the River, Detroit 32, Michigan.

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### SENIOR PHARMACOLOGIST

- Desire Ph.D. in general physiology or pharmacology preferably with some training in calculus to conduct basic and applied research studies which encompass broad functional areas, e.g., analgesics, cardiovascular agents, antitussives, etc.

### SENIOR NEUROPHARMACOLOGIST

- Require Ph.D. in pharmacology capable of organizing and implementing research studies which involve both the pharmacology and biochemistry of the CNS. A major objective of our program will be to determine biochemical correlates of drugs and procedures influencing CNS function which ultimately will lead to the development of new drugs altering brain biochemical activity.

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**Physiologist:** Position in Surgical Research Department. Dual appointment in Physiology. Rank and salary depend on qualifications. Primary responsibilities: nutrition, intravenous fat emulsions, total intravenous alimentation, gastrointestinal physiology. Opportunity for own development. Isotopic experience desired. Address: **Department of Surgery, Louisiana State University School of Medicine**, New Orleans 12, La.

Respiratory virus disease project needs **Research Assistant**. Minimum—Bachelors. Prefer Masters in Microbiology, training in virology, tissue culture technique, and serology. Salary based on background. Excellent medical plan. Limited Tuition-exempt courses possible. Send résumé. Personnel Department, **University of Vermont**, Burlington, Vermont.

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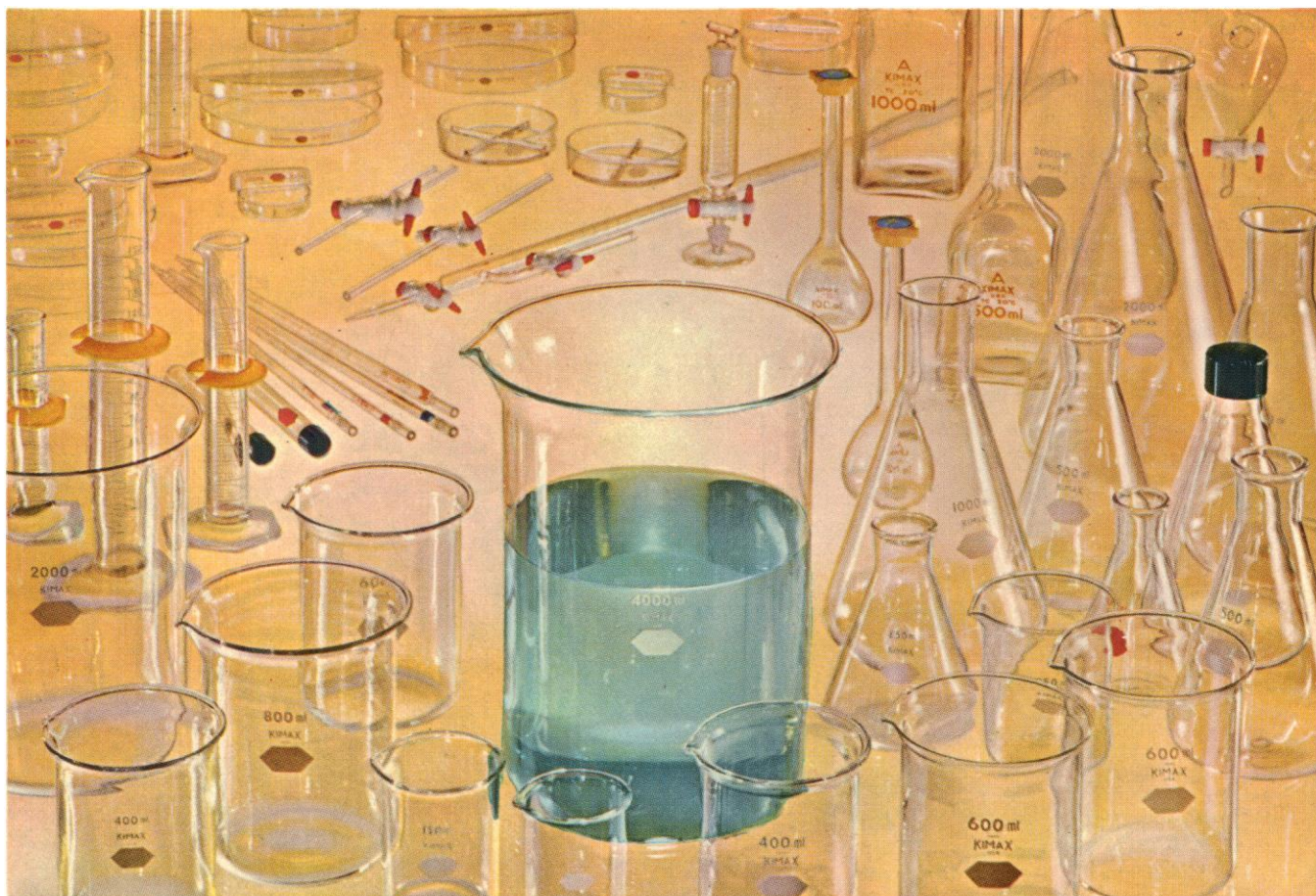
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