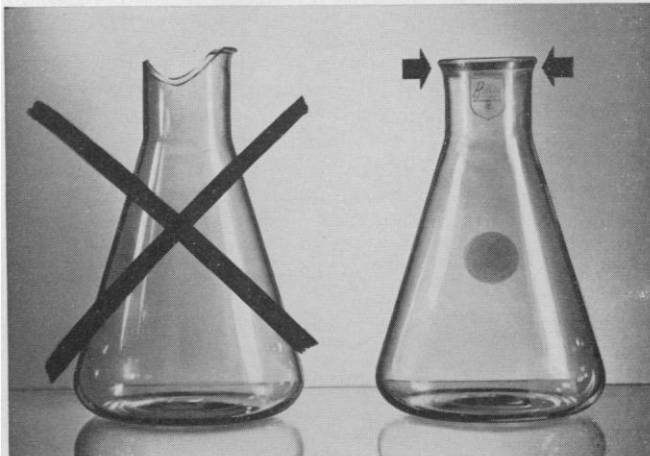


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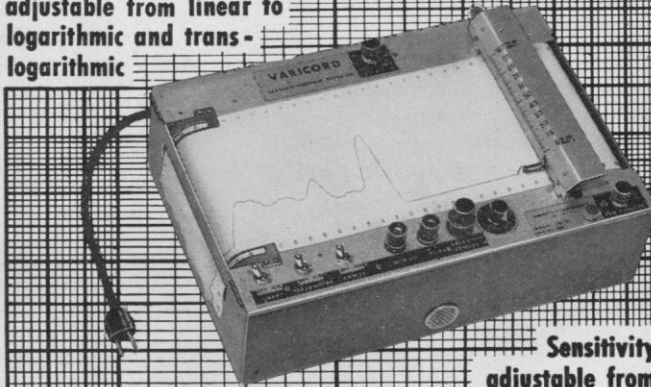
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Designed specifically to be used with scanning densitometers for correctly-compensated quantitative evaluation of electrophoretic patterns on filter paper

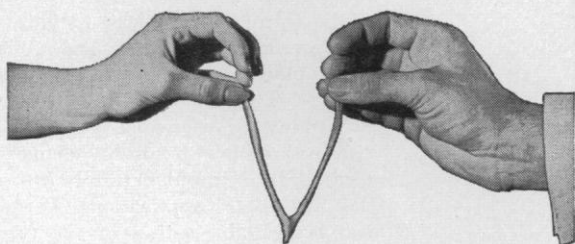
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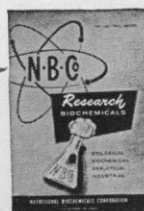
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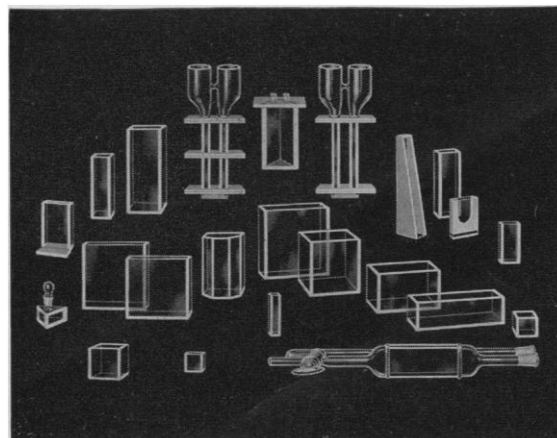
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EQUIPMENT NEWS

The information reported here is obtained from manufacturers and from other sources considered to be reliable. Science does not assume responsibility for the accuracy of the information. All inquiries concerning items listed should be addressed to Science, Room 740, 11 W. 42 St., New York 36, N.Y. Include the name(s) of the manufacturer(s) and the department number(s).

■ **STERILIZER** uses a combination of ethylene oxide and carbon dioxide to sterilize finished packaged material as well as heat- and moisture-sensitive products.

The gas is said to penetrate sealed cardboard, polyvinyl, or paper containers to sterilize the contents. Operation is completely automatic. All phases of the sterilization cycle are indicated visually and recorded on a two-pen pressure-temperature graph. (Wilmot Castle Company, Dept. S852)

■ **HYGROGRAPH** uses a diaphragm of animal membrane as the humidity-sensitive element. Sensitivity of 1 percent and accuracy ± 3 percent are said to be achieved. Operating range is from 15- to 95-percent relative humidity at tem-

peratures from 32° to 130°F. Humidity is recorded on a 12 by 6 in. chart. (Serdex Inc., Dept. S875)

■ **CORROSION TEST CHAMBER** of Swiss manufacture exposes materials to be tested to aerosols of constant characteristics. In addition to providing the advantage of controlled particle size, the method avoids the air currents characteristic of sprays produced by nozzles. Aerosols are produced by disc rotors. The entire apparatus is made of corrosion-proof plastic. To prevent the corrosive atmosphere from escaping from the chamber, the aerosols are entrapped in air leaving the apparatus in Raschig-ring-filled flues. (Spectrographic Specialties Inc., Dept. S867)

■ **PULSE MODULATOR** tests high-power pulse transformers by simulating actual operating conditions. Transformers having ratings up to 30 Mw peak, and 60 kw average power, may be tested. Banks of pulse-forming components may be selected by means of patch-cord connections to produce pulses of from 0.5- to 8- μ sec duration. Repetition frequency is continuously variable from 50 to 1800 pulses per second. Maximum duty cycle is 0.002. Peak pulse output is 200 kv into 1300 ohm. (Manson Laboratories, Inc., Dept. S865)

■ **SELENIUM GLASS** transmits infrared radiation to 25 μ . The material handles similarly to optical glass, lending itself to conventional molding and polishing techniques. Rigidity is retained after 15 hr at 70°C, with no evidence of optical breakdown or change in power. Transparency is high at all wavelengths detectable by infrared detectors in use today in military applications. The material is available either in the form of finished optical parts or as molded blanks. (Eastman Kodak Co., Dept. S869)

■ **UNIVERSAL BRIDGE** provides facilities for two-, three-, or four-terminal measurements of impedance or transfer admittance at operating frequency of 1592 cy/sec. Ranges covered are: capacitance, 0.0002 μ f to 11 μ f in seven ranges; conductance, 10^{-1} to 10^{-8} mho, in seven ranges; inductance, 1 mh to infinity in seven ranges. Measurement is not affected by the impedance of the test leads. A low-impedance adapter provides four additional ranges. (Robertshaw-Fulton Controls Co., Dept. S872)

■ **SOLENOID DEWAR FLASKS** are designed for study of the effect of magnetic fields on properties of materials at liquid-helium temperatures. A variety of sizes and of materials of construction are available. (Hofman Laboratories, Dept. S878)

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RANGE	PRECISION	SENSITIVITY	READABILITY
1/10 mg. to 200 grams	± 0.03 mg.	0.1 mg.	0.05 mg.

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- chemicals
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■ **X-Y RECORDER** is quantized to move in discrete increments of 0.01 in. at a maximum speed of 200 increments per second. An aluminum drum carries the paper, its rotation providing one of the recording axes. Accuracy is better than ± 0.005 in. for full travel on either axis. Input is supplied to the recorder in the form of electrical pulses of varying rate. A uniform pulse-rate input on one axis provides a time axis. Replacement of the recording pen with an accessory attachment permits the instrument to be operated as a curve follower. Maximum paper size accommodated by the drum is 11 by 17 in. (California Computer Products, Dept. S884)

■ **CATHODE-RAY POLAROGRAPH**, manufactured by Southern Instruments Computer Division, Camberley, Surrey, England, is called the "Polarotrace." In this instrument the entire change of potential is effected during the lifetime of a single mercury drop. The potential sweep is applied through a load resistor in series with the cell by means of a compensation circuit which maintains a constant rate of change of potential across the cell. The amplified potential difference across the cell is applied to the horizontal axis of a long-persistence cathode-ray tube. The voltage drop across the load resistor, proportional to current, is applied to the vertical axis. Thus the polarographic curve is traced on the screen. By varying the load resistor, 20 full-scale current ranges from 2×10^{-8} to 1.25×10^{-4} amp may be obtained. A differentiating circuit permits the derivative curve to be displayed. The polarogram is reproduced once every 7 sec. The curve differs from that produced by conventional means in that the current rises to a peak value before it falls exponentially to a constant value. This peak height is proportional to concentration. The shape of the wave does not lend itself to accurate determination of half-wave potential, but the potential at which the peak occurs is characteristic of a given reduction. Waves differing in half-wave potential by as little as 0.1 v may be measured separately. (Standard Scientific Supply Corp., Dept. S883)

JOSHUA STERN

National Bureau of Standards

31 JANUARY 1958

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Science
1515 Massachusetts Ave., NW
Washington 5, D.C.

POSITIONS WANTED

Biochemist; Ph.D. June 1958. Four years post M.S. research experience in experimental endocrinology and metabolism using stable and radioactive isotopes. Publications. Academic position preferred. Box 19, **SCIENCE**. X

Botanist, Ph.D., taxonomy, ecology, morphology. Desires academic position. Box 24, **SCIENCE**. X

Chemist (major, general chemistry; minor, biochemistry); 6 years, associate professor, biochemistry, one of leading universities; 8 years, director of research, pharmaceutical company. Medical Bureau, Burneice Larson, Director, 900 North Michigan, Chicago. X

Chemist/Technical Translator, British, 32; 4 years experience analytical food chemistry, 4 years technical translation x-rays and electro-medicine, seeks suitable position. G. Wall, Schleifmühlweg 66, Erlangen, Germany. X

Endocrinologist, Ph.D., 35. Presently assistant professor teaching research in endocrinology and general physiology. Publications. Desires to relocate. Academic or research. Box 20, **SCIENCE**. X

Industrial Biochemist, Ph.D., 22 years experience. Age 43. Seeking academic position in medical institution as means of supporting family while studying for M.D. degree. Box 25, **SCIENCE**. 2/14

Microbiologist, Ph.D.; with experience in medical bacteriology and mycology, immunology and chemotherapy. Desires challenging research position. Box 23, **SCIENCE**. 2/7

Pharmacologist, Ph.D., 44; associate professor research project leader. Wants position offering real opportunity for advancement. Experience in teaching, research and administration. Box 22, **SCIENCE**. X

Plant Physiologist, Ph.D., 1950, California; background in nutrition, enzymology, surface biochemistry, radiation, radioisotopes and instrumentation development. Administrative experience. Desires responsible position in research, teaching, or development. Box 18, **SCIENCE**. X

POSITIONS OPEN

(a) **Bacteriologist;** Ph.D. preferred to head department, very large general hospital unit, important university medical school; important southeastern city. (b) **Chemists;** B.S., M.S., experienced micromethods, clinical biochemistry for pediatric microbiology laboratory of 300-bed university hospital; clinical, research opportunities; popular western city. (c) **Bacteriologist;** M.S., Ph.D., to head superbly equipped, well-staffed department; all new laboratory, 300-bed general hospital; to \$7500; Chicago vicinity. (d) **Biochemist;** B.S., M.S. experienced blood work with emphasis coagulation; duties principally biological assays; minimum \$4800; important eastern pharmaceutical concern. Woodward Medical Bureau, Ann Woodward, Director, 185 N. Wabash Avenue, Chicago. X

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(a) **Director,** Department of Biological Sciences; duties involve scientific leadership of established group of professional and supporting personnel; should be specialist in one of biological sciences, Ph.D. or M.D.; major research organization; East. (b) **Biochemist or Nutritionist** with some experience as science writer; duties include surveying literature for various departments, pharmaceutical company; \$7000-\$10,000; Midwest. (c) **Chemist or Biochemist;** medical school research department; should be interested in working on protein fractionation project; if Ph.D., \$8000; West. (d) **Physician** trained in pharmacology; executive position, large pharmaceutical company; experienced pharmaceutical field desirable; duties at first consist of managing clinical projects, working with scientific personnel in design of research projects; East. S1-5 Medical Bureau, Burneice Larson, Director, 900 North Michigan, Chicago. X

GEOPHYSICIST University of Toronto Department of Physics

Applications are invited from geophysicists (not over 35 years old) for appointment to the teaching staff of this department. Duties to commence 1 September 1958. Salary and rank to be arranged according to qualifications and experience, and consistent with the university's salary scale. Applicants should have research interest and experience in some aspect of the physics of the earth. Write not later than 1 March to Dr. W. H. Watson, Professor and Head of the Department of Physics, stating age, marital status, academic record and scientific career and naming two referees. X

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Department of Biology, McMaster University
Applications for graduate research scholarships are invited from qualified students wishing to work towards the M.Sc. and Ph.D. degrees. The minimum annual stipend for a 12-month period is \$1500.

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Applications should be sent before 15 March 1958, accompanied by university transcript and letters of recommendation from two professors to Dr. H. Kleerekoper, Chairman, Department of Biology, Hamilton College, McMaster University, Hamilton, Ontario, Canada. 2/7, 14

Microbiologist. Preferably a recent Ph.D. to participate in a long-range research program concerning immunological and biochemical aspects of mycology in a large California university. Major training in either mycology, bacteriology, or virology, and minor training in biochemistry desirable. Applicants should reply to Box 21, **SCIENCE**. X

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Further details may be obtained from Professor E. S. Keeping, Head of the Mathematics Department, University of Alberta. Applicants should send transcripts of their academic record, a statement of teaching experience, a list of publications, and a recent snapshot, to Dr. D. E. Smith, Dean, Faculty of Arts and Science, University of Alberta, Edmonton, Alberta, and should also supply the names of at least two responsible referees. X

POSITIONS OPEN

Research Associate. Collaborate with investigators, experimental research in immunologic aspects of cancer. Include details of experience, references. Write Dr. I. Davidsohn, Mount Sinai Medical Research Foundation, 2755 West 15th Street, Chicago, Illinois. 2/7, 14, 21

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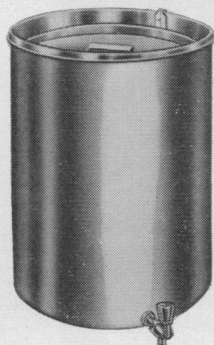
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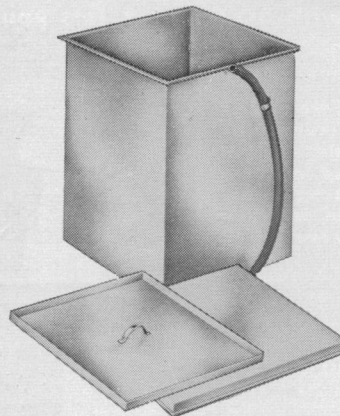
Cat. No.	Size	Depth	Cap'y Gals.	Each
8000	12 x 16"	5"	2	27.50
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8005	24 x 30"	5"	15	68.50
8006	22 x 26"	3"	7	39.50
8007	22 x 26"	5"	12	51.20
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S6595 Portable mixer electric

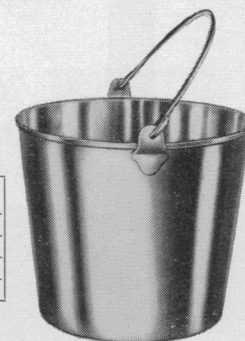
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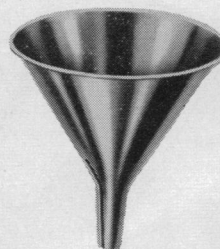
Cat. No.	Cap'y Qts.	Top Dia.	Depth	Each
*1000	8	8"	9 1/2"	13.10
1012	13	11 3/8"	9 3/8"	15.60
1016	16	11 7/8"	9 3/4"	19.00
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Cat. No.	Cap'y Qt.	Dia.	Each
9004	1	6 1/2"	9.50
9005	2	8"	10.50
9006	4	10"	12.00

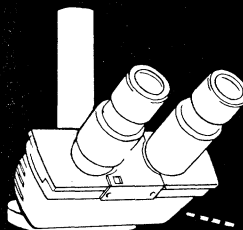
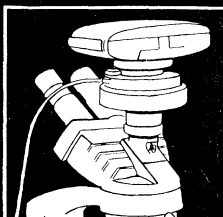
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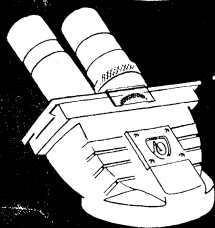


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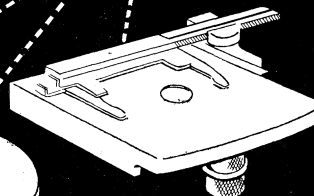
No other microscope can offer you such a wide choice of interchangeable parts and accessories.

You can adapt the Microstar to your exact needs with various combinations of readily interchangeable bodies, stages, bases and optics. You have more than 600 possible combinations or models to choose from.

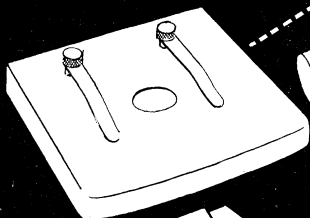
Your Microstar will be "just right" for you in convenience, comfort and the economy of real quality.



Focus the stage and the specimen to the objectives with low positioned coarse and fine adjustments. Choose from 3 interchangeable stages; graduated or ungraduated mechanical stages or the new Micro-Glide circular stage.

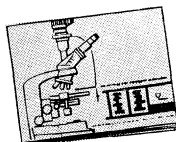


The large fork-type condenser mount allows you to interchange bright-field, phase and dark field condensers quickly and precisely.



Your choice of interchangeable horse-shoe base with double-plano mirror in fork mount, or built-in base illuminator.

Get your copy of the complete Microstar story. Write for BROCHURE SB124. Dept. A-5



American Optical Company

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