

New Products

Operational amplifier is a solid-state instrument that will drive—without additional equipment—galvanometers, process-control elements, servo-control equipment, and electro-hydraulic systems. Output of the model 3821 amplifier is ± 100 volts at 20 ma and ± 50 volts at 50 ma. Completely interchangeable, the amplifier may be plugged into existing analog computers of the same manufacturer to obtain a 30-fold increase in reliability. The amplifier is normally shipped in open-loop form. It can be connected to integrate, sum, invert, amplify, or differentiate. Drift at constant temperature is stated to be $100 \mu\text{V}/8 \text{ hr}$; between -10° and $+55^\circ \text{C}$, less than 1.5 mv; between -10° and -55°C , less than 5 mv. Noise, referred to input, is 2 mv (r.m.s.) between 0 and 300 kcy/sec.—J.S. (Donner Scientific Division, Systron-Donner Corp., Dept. S160, Concord, Calif.)

An **x-y plotter-recorder** (series 1110 Variplotter) has microvolt-per-inch sensitivity, solid-state circuits, and dual mode hydraulic damping. The instrument produces an inked plot of two input voltages on either 11- by 17-inch or 8½- by 11-inch graph paper. A controlled-flow ink system with a disposable ink cartridge assures flawless traces even at top writing speeds. The recorder will operate in any position (0 through 360 deg.) and is suitable for table-top use or rack mounting. A back-lighted plotting surface can be furnished. Two types of hydraulic damping are included, so the operator can select either viscous-

coupled inertia damping for the most accurate, high-speed plotting, or velocity damping for point plotting or extra smooth, lower speed line plotting. Static accuracy is 0.075 percent of full scale; dynamic accuracy is 0.1 percent of full scale at plotting speeds of 10 in./sec; repeatability is better than 0.05 percent for successive plots. A variety of plug-in input modules including general purpose, time base, high sensitivity, and computer types are available to adapt the plotter to particular applications.—R.L.B. (Electronic Associates, Inc., Dept. S179, Long Branch, N.J.)

A **multiplate filter holder** has been developed to provide precision filtration in applications where large volumes of fluids are processed. This unit has approximately 4 ft² of filtration area (576 in.²) and will deliver water free of all particles larger than 0.8μ at rates up to 60 gal/min (with type AA Millipore filter disks with a pore size of $0.8 \pm 0.05 \mu$). Any of four types of filters may be used ranging in pore size from 0.22μ (type GS) to 1.2μ (type RA). Flow rates are directed proportional to differential pressure and are an inverse function of viscosity. Prior filtration or similar treatment is usually indicated before Millipore filtration to provide longer effective operating life.—R.L.B. (Millipore Filter Corp., Dept. S182, Bedford, Mass.)

Multi-channel temperature monitoring system indicates the presence of dangerously high temperature giving both a visual and an audible alarm in the event of trouble. Locking screwdriver adjustments are provided on each unit to set the temperatures of the over-heat lights and remote alarm for operation from 50° to 600°F for each of 148 channels. Resistance temperature detectors are used. Accuracy is said to be better than ± 2 percent above 200°F and ± 4 percent below 200°F .—J.S. (Packard & Burns, Inc., Dept. S169, 103 Fourth St., Waltham 54, Mass.)

Voltage and current reference features regulation said to be 0.0001 percent and stability ± 0.001 percent. The instrument features a five-decade voltage and current selector and an electronic chopper-stabilized amplifier. Voltage reference is a temperature-controlled and stabilized Zener diode. Complete short-circuit protection with automatic voltage and current restoration is provided. Voltage and current may be remotely controlled. The unit is completely solid state. In constant voltage mode, output is 0 to 100 volts at 200 ma, with 1-mv resolution and absolute accuracy said to be 10 mv at full scale. In constant current mode, output is 0 to 100 ma, with $1 \mu\text{A}$ resolution, and absolute accuracy of $10 \mu\text{A}$ at full scale.—J.S. (Princeton Applied Research Corp., Dept. S206, P.O. Box 565, Princeton, N.J.)

Microdosimeter reader accurately measures x-ray, gamma, or high-energy electron radiation in less than 30 seconds. The compact design and simplified operation of the instrument promise widespread application not only in the field of medicine, but in radiology research conducted by other laboratories. The range of the unit is 10 to 10,000 rods, with an accuracy of at least ± 4 percent. The reader records the changes in fluorescence which take place in the 1- by 6-mm microdosimeter rods as the result of high-energy radiation exposure. Within as little as 15 seconds, the technician can insert the cylindrical rod of silver-activated glass, set the controls, take the measurement, and unload the instrument. The reader is part of an integrated system that is designed to hold and measure the microdosimeter rods without chipping them.

Because of the small size of the rod, implants can be made in normally inaccessible areas. For example, these rods have been inserted into a diseased organ of the human body to measure a specifically irradiated area, without discomfort to the patient. This system can measure a wide range of high-energy radiation and consequently is suitable for many types of "hot lab" work. Single as well as cumulative dose readings can be taken over extended periods of time. This is useful in personnel safety or casualty monitoring, since the rods have a much higher dose range than the gamma-ray film now used. Recently, the rods have been enclosed in several spacecraft to provide radiation data.—R.L.B. (Bausch and Lomb, Dept. S180, Rochester 2, N.Y.)

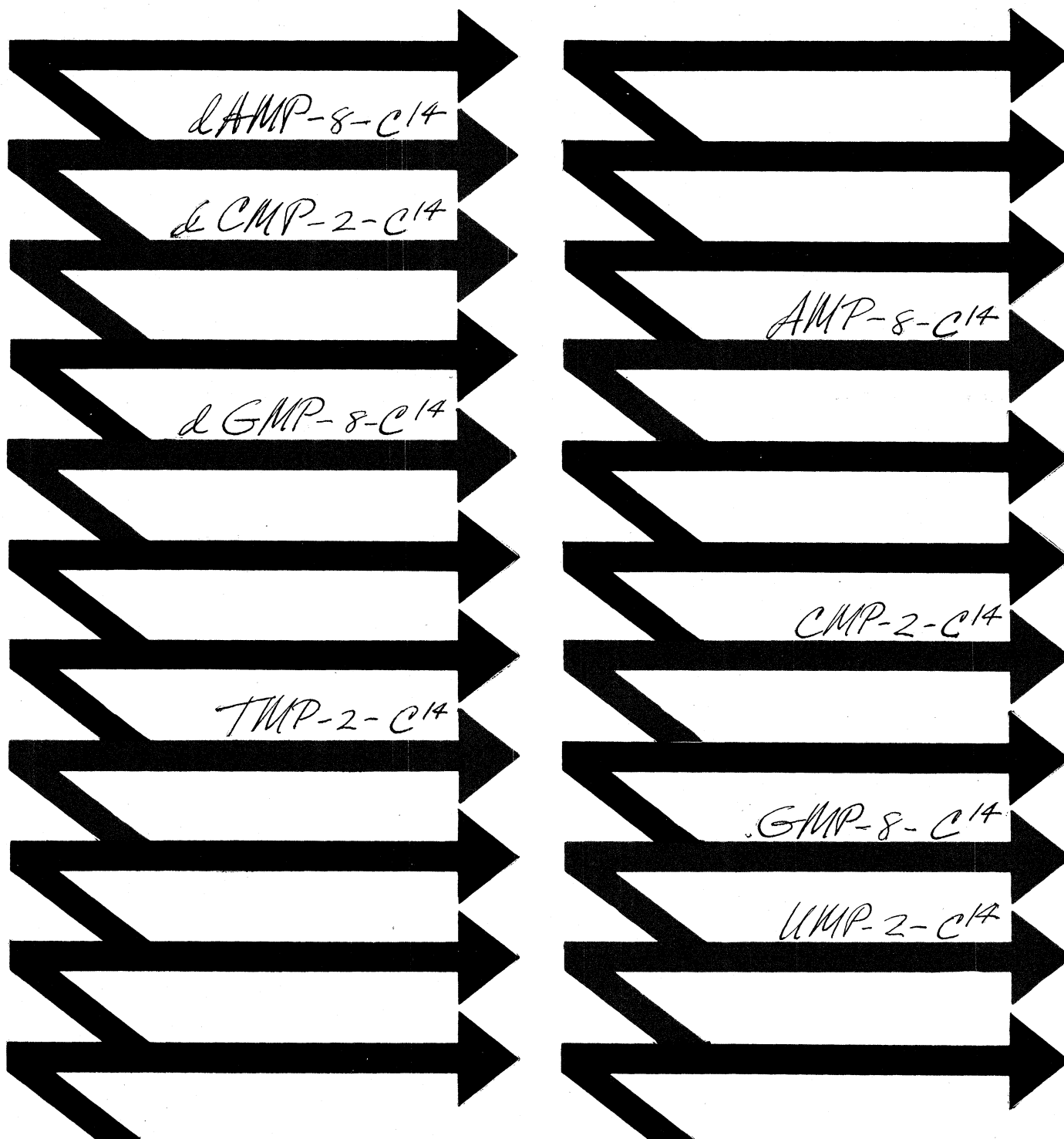
The material in this section is prepared by the following contributing writers:

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).

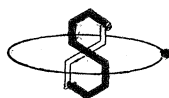
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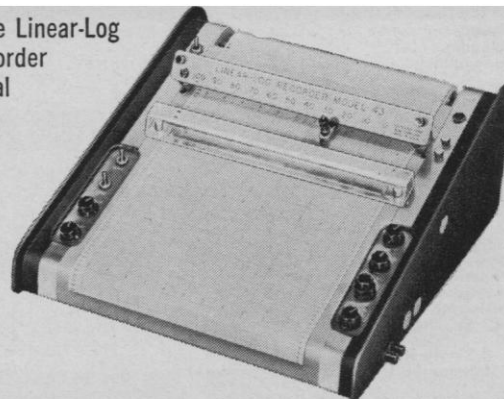


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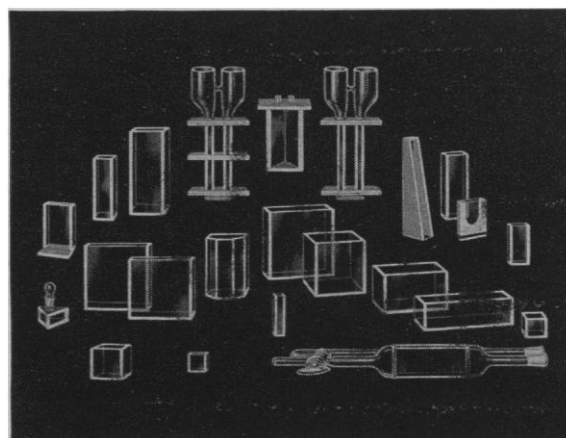
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Correspondence concerning the position should be addressed to: **Dr. Charles R. Schroeder, Director, San Diego Zoological Gardens, P.O. Box #551, San Diego 12, California.**

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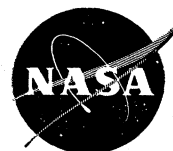
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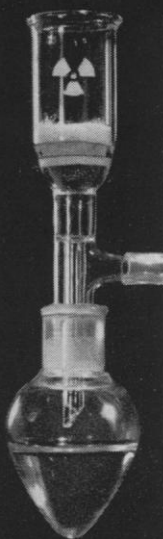


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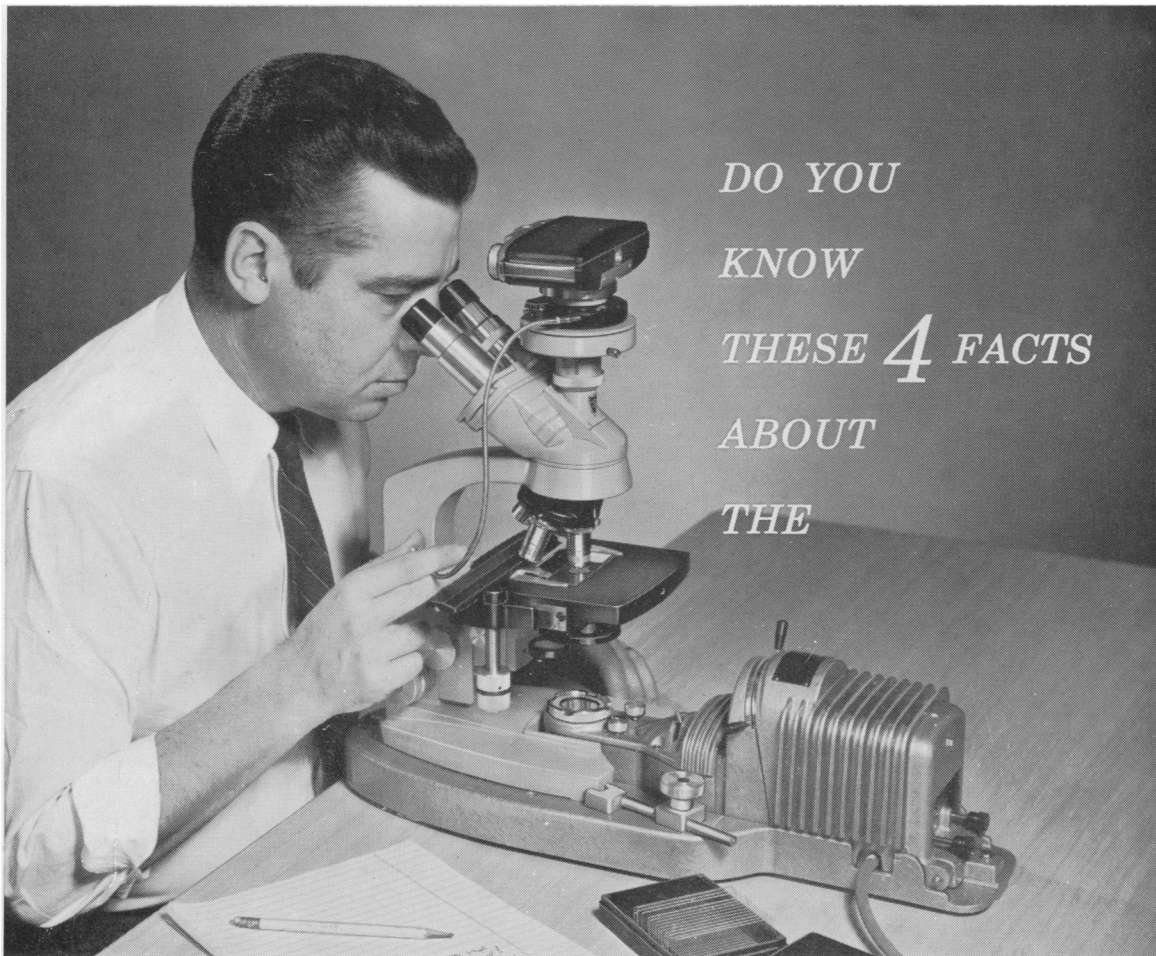
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