

## Equipment News

■ **HIGH-VACUUM FURNACE** for use in melting, alloying, casting, and other metallurgical operations is available in a new model. The vacuum chamber is a Pyrex or stainless steel bell jar that is mounted on a polished, chrome-plated steel, vertical base plate. The pumping system permits operation in the  $10^{-5}$ -mm-Hg range; the tungsten resistance-heating element and power supply are designated to operate at temperatures up to 2000°C. (National Research Corp., Equipment Div., Dept. Sci., 160 Charlemont St., Newton Highlands 61, Mass.)

■ **CATALOG** describing various instruments, equipment, and chemicals for nucleonics has been published by Tracerlab. Sections of the 112-page manual

include such items as scalers and accessories, survey meters, Geiger-Müller tubes and accessories, scintillation and safety equipment, and custom, industrial, and medical equipment and service. Catalog D. (Tracerlab, Inc., Dept. Sci., 130 High Street, Boston 10, Mass.)

■ **ADJUSTABLE LEAD SHIELD**, the Atomlab model Als-1.5, is designed for use in making radio-activity measurements on low-activity samples and as a temporary storage for radioisotopes. The shield can be used to improve accuracy in counting problems by placing the Geiger or scintillation counter inside the cylindrical enclosure, which reduces the background count. The function and size of the shield may be varied by the addition or substitution of different sections. (Atomic Center, Inc., Dept. Sci., 489 Fifth Ave., New York 17)

■ **ORGANIC CHEMICALS** newly available from Eastman include the following: 4,4'-azobis(*N,N*-dimethylaniline); naphthidine,  $4\text{-NH}_2\text{C}_{10}\text{H}_6\text{C}_{10}\text{H}_6\text{-4-NH}_2$ ; *p*-chloromandelic acid,  $\text{ClC}_6\text{H}_4\text{CHOH-COOH}$ ; 3,4-dinitrobenzoic acid; *p*-chlorobenzenethiol,  $\text{ClC}_6\text{H}_4\text{SH}$ ; dichloromaleic anhydride; methyl mercaptoacetate,  $\text{CH}_2\text{SHCOOCH}_3$ ; oxalyl dihydrazide,  $\text{NH}_2\text{NHCOCONHMH}_2$ ; thiophene; and trimethylphenylammonium benzenesulfonate,  $\text{C}_6\text{H}_5\text{N}(\text{CH}_3)_3\text{OSO}_2\text{C}_6\text{H}_5$ . Distillation Products Industries, Dept. Sci., Rochester 3, N.Y.

■ **DRUM CAMERA** model 224 by Beckman and Whitley, which is capable of transporting film at high velocities, offers flexibility in laboratory and field experimentation. As an oscilloscope camera, it has a range of writing speeds from 4 to 400 feet; accessories permit its use as a streak camera or as a framing camera. A 50-in. circumference drum carries the film on its inside cylindrical surface, and a turret-mounted 45-deg first-surface mirror orients the optical axis perpendicular to the plane of the drum. When the drum is driven at its maximum speed of 6000 rev/min, the camera provides 10 msec of writing time on a 35 mm by 50 in. film. (Beckman and Whitley, Dept. Sci., 941 E. San Carlos Ave., San Carlos, Calif.)

■ **UCON FLUIDS AND LUBRICANTS** are described in a new booklet that covers properties, applications, and characteristics of various polyalkylene-glycol derivatives. Form 6500D. (Carbide and Carbon Chemicals Co., Dept. Sci., 30 E. 42 St., New York 17)

■ **RADIOISOTOPE EQUIPMENT** for clinical medicine is described in a new catalog that has been published by Berkeley division of Beckman. Instruments used in medical radioisotope measurements, including gamma detectors, lead absorbers, scalers, meters, monitors, and handling equipment are described. Sketches of clinical applications of radioisotope equipment to diagnose thyroid function, localize brain tumors, or measure blood volume, survival time, and cardiac output are included. Catalog C-201. (Berkeley Div., Beckman Instruments, Inc., Dept. Sci., 22 Wright Ave., Richmond 3, Calif.)

■ **ULTRAHIGH-TEMPERATURE CRUCIBLE**, made of Borolite (zirconium boride 101), has a melting point of 3900°F. Designed for use in work with molten metals, such as aluminum, brass, copper, iron, magnesium, and lead, the crucible is corrosive-resistant to nitric and hydrochloric acids. (Fisher Scientific Co., Dept. Sci., 717 Forbes St., Pittsburgh 19, Pa.)

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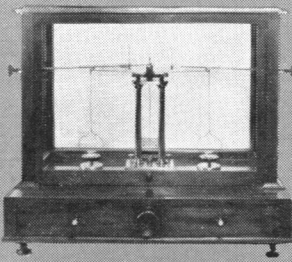
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