tral resolution is 0.7 Å. A grating is used as the dispersing element. The spectrum formed is brought to focus on a drum camera by a six-element, fused-quartz objective. The instrument will provide trigger signals for initiation of events to be studied. (Tropel Inc., Dept. S662)

- **RADIOACTIVITY SCANNER**, for mapping specific organs or locating neoplastic lesions, covers an area up to 40 by 32 cm. The record is in constant view during operation. A background-correcting circuit permits contrast improvement. Either a standard scaler or a pulse-height analyzer and a highly collimated detector are supplied. The equipment is mobile and narrow enough to pass through doorways. (Nuclear Corporation of America, Dept. S663)

- **SMOKE-POINT LAMP**, for testing hydrocarbon fuels, is equipped with a calibrated chimney so that the smoke point, the maximum height (in millimeters) of the flame at which the fuel will burn without smoking, can be read off directly. (Central Scientific Co., Dept. S677)

- **BATTERY “ELIMINATOR”** is designed to replace storage battery and floater combinations for spectrometers and for other applications in which severe stability, low-noise, and transient requirements exist. Outputs are 6 V, adjustable to ±5 percent at 0 to 5 amp, and 2 V, adjustable to ±5 percent at 0 to 100 ma. Ripple and noise are 1 mv r.m.s. at 6 v and 0.5 mv r.m.s. at 2 v. Recovery time is 0.001 sec for 63-percent recovery. Line regulation for 105- to 125-v or 210- to 250-v input is 0.01 percent. Load regulation is 0.05 percent for 6 v output and 5 percent for 2 v output. (American Electronic Laboratories, Inc., Dept. S672)

- **DIALYZING VESSEL** for small quantities consists of two Pyrex parts with ground surfaces between which a membrane is held. The compartment beneath the membrane, which is 60 cm³ in volume, is filled with buffer. The solution to be dialyzed is placed above the membrane. A solution volume of 1 ml can be dialyzed in 1 hr. (Kern Company, Dept. S664)

- **ALPHA-BETA SURVEY METER** is transistorized, operating for 150 hr from two standard 1.5-v D-size flashlight cells. Three sensitive ranges have maximum values of 0.5, 5.0, and 50 mR/hr. The detecting element is a halogen-quenched tube with 1.4- to 2-mg/cm² window. (Universal Transistor Products Corp., Dept. S669)  

**JOSEPH STERN**  
National Bureau of Standards

---

**for the fields of basic radiological research**

**DETECTOLAB DZ46**  
Automatic Gamma Ray Spectrum Recorder  
- Automatic single or repetitive scan  
- Front panel selection of five scanning speeds and limits  
- Automatic repetitive charting with no mirror image.

**DETECTOLAB DZ4**  
Coincidence Circuit  
- Fastest commercially available coincidence circuit (.01 µ sec.)  
- Capable of measuring minute radiation samples  
- Reduces background 99%  
- Operates with conventional gamma spectrometer.

**DETECTOLAB DS8**  
Precision Binary Scaler  
- Less than 2 µ sec. resolving time  
- Positive or negative input  
- Front panel discrimination adjustment  
- Lightweight and compact for relay rack mounting.

**Detectolab Instruments are products of**

**BJ ELECTRONICS**  
**BORG-WARNER CORPORATION**  
3300 Newport Blvd., Santa Ana, Calif.  

**Write for Bulletin #392 to**

**PHOTOVOLT CORP.**  
95 Madison Ave.  
New York 16, N. Y.
new instruments for infusion and retracting of liquids

FOR GENERAL APPLICATION

IIIIIII1JJ11111JJ111i

Here is an economical and convenient means for delivering small quantities of liquids at accurately controlled rates.

A threaded shaft, carrying a syringe holder and a pusher, is mounted in place of the regular drum spindle and rotated in the same manner. Syringes are clamped in place, or released by turning a single thumbscrew. The unit is designed to be attached to, and driven by, our Bird Kymograph. 7/4-060. This propeller may be used with equal facility on our older model (four-speed kymograph).

Since any Luer syringe, from 5 ml. to 50 ml. capacity may be used, and since the kymograph drive provides a choice of five speeds, a wide range of delivery rates is available, as indicated in the following table.

This instrument has clinical applications in anaesthesia, surgery, gynecology, radiology and neuropsychiatry. It is particularly useful for administering small volumes of injectible drugs which are to be given over a period of time.

PERSONNEL PLACEMENT

CLASSIFIED: $1 per word, minimum charge $3.60. Use of Box Number counts as 10 additional words. Payment in advance is required.

COPY for classified ads must reach SCIENCE 2 weeks before date of issue (Friday of every week).

DISPLAY: Rates listed below — no charge for Box Number. Monthly invoices will be sent on a charge account basis — provided that satisfactory credit is established.

Single insertion $2.00 per inch
13 times in 1 year 21.00 per inch
26 times in 1 year 28.00 per inch
52 times in 1 year 45.00 per inch

For PROOFS on display ads, copy must reach SCIENCE 4 weeks before date of issue (Friday of every week).

 Replies to blind ads should be addressed as follows:
Box (give number)
Science
1315 Massachusetts Ave., NW
Washington 5, D.C.

POIsITIONS OPEN

Biological Scientist. M.S. or equivalent in physiology, pharmacology, or biochemistry, or some combination thereof, to participate in the analysis of scientific data in connection with research and development activities of large manufacturer. Eastern location. Liberal benefits program. Send complete personal data. Box 279, SCIENCE

(a) Biophysicist or Biochemist trained in radio-isotopes, health physics, familiar with instrumentation and statistical methods in tracer methodology; Medical school research department; West. (b) Biochemist and Microbiologist, Ph.D.'s preferred; 600-bed teaching hospital; staff has two Board pathologists; Midwest. (c) Neurophysiologist or Physiological Psychologist interested in career in audition research; preferably Ph.D.; new laboratory; University affiliation; long-range research program; West. (d) Pharmacologist or Biochemist, preferably Ph.D.; new research department, pharmaceutical company; established 2 years; expansion program; suburb, university city, Midwest. (e) Pharmacologist, Ph.D., research laboratory, pharmaceutical company; $7500-$10,000; if M.D., $10,000-$12,000. 6103 Medical Bureau, Burnice Larson, Director, 900 North Michigan Avenue, Chicago.

(a) Clinical Bacteriologist, M.S., Ph.D. to establish and supervise bacteriology laboratory, medical consultation service; exceptio nal research facilities, opportunity independent projects; 150-bed approved hospital; to $8000; popular summer resort community 10,000; Midwest. (b) Biochemist, Ph.D. (or new research laboratory now being developed); initially cardiovascular research, will vary projects later; affiliated large hospital; New York; Midwest. (c) Chemist, B.S., M.S. experienced toxicology, clinical chemistry, physical methods, capable of all latest chemical procedures; county health laboratory; $6200; city 25,000; East Woodward Medical Bureau, Ann Woodward, Director, 185 N. Wabash, Chicago.

NEW WORLD-WIDE GRADUATE AWARD DIRECTORY. First compilation ever prepared for American scientists, teachers and librarians to subsidize their education and research in over 350 universities in 45 states, 30 foreign lands. Stipends $200-$10,000. Complete information. Pre-publication price before 15 Nov. 1957, $1.50. Regular price, $2. CRU- SADE, SCI, Box 95, Station G, Brooklyn 22, N.Y. 10/4, 11, 18, 26; 11/1

PHIPPS & BIRD, INC.
Manufacturers & Distributors of Scientific Equipment
6th & Byrd Streets - Richmond, Va.