

bandwidths up to 20 kcy/sec into 29 equal frequency bands. Bandwidth of the crystal filters used is 135 cy/sec. Filter outputs are scanned electronically. (Kay Electric Co., Dept. 246)

■ **SOLAR FURNACE** includes a fully automatic solar tracking system to maintain precise alignment of the parabolic collector with the sun. Temperature is adjustable up to 7000°F. Motor-driven remote controls are provided for sample positioning. Mobile mounting of the furnace permits its use in any convenient location. (Thermal Dynamic Products Inc., Dept. 247)

■ **LIQUID-LEVEL INDICATOR** is an optical device using a photoelectric level-sensing probe. Operation depends on the total internal reflection rather than on the transmission of light through the fluid medium. The repeatability is within 0.015 in. with response time in milliseconds. The probe may be operated over the temperature range of -65° to +250°F. Output current up to 10 amp is furnished. When it is installed in a pipe line, the unit can distinguish between liquid and gas flow. (Revere Corporation of America, Dept. 245)

■ **PULSE-HEIGHT SELECTOR** features three modes of operation: an integral mode for counting all pulses above a base line; a 0-to-10-v window mode; and an upper-limit mode which makes the window control a 0-to-100-v upper limit for counting pulses between lower and upper limits. Rise time of the linear amplifier is 0.15 μsec and maximum gain is 8000. (Technical Measurement Corp., Dept. 239)

■ **ELECTROMETER** is a dynamic condenser instrument designed particularly for measuring the radioactivity of soft beta emitters such as tritium, carbon-14, and sulfur-35. Samples may be gas, liquid, or solid. The range from 1 mc to 5 μmc can be measured without use of absorbers or dilution. The instrument may be used to measure continuously flowing gas. (Nuclear-Chicago Corp., Dept. 238)

■ **GREASE-WORKER** is a motor-driven device for preparation of samples of grease for measurement of consistency by the penetration test. The motor is automatically stopped upon completion of a pre-set number of strokes, from 1 to 100,000, on two grease-working cups. (Fisher Scientific Co., Dept. 248)

■ **MEMORY STORAGE UNIT** operates by charging selectively any one of 60 capacitors mounted on a rotating disk. The charging and pick-off may be continuous, or the disk-drive shaft may be indexed by a servomechanism. Maximum charging voltage is ±200 v d-c. (Industrial Control Co., Dept. 241)

■ **VACUUM CONTROL** is actuated by a thermocouple vacuum gage at any set point within the range of 5 to 500 μ-Hg. A contact-type meter is used which operates a relay to control pumping equipment. A constant-voltage transformer furnishes heater current to the gage. (Veeco Vacuum Corp., Dept. 244)

■ **SPECTRUM ANALYZER** is offered in frequency ranges from 2400 to 9600 Mcy/sec. Accuracy is ±0.8 percent or ±1 Mcy/sec. Display of the spectrum is presented on a 5-in. oscilloscope. Sweep-rate ranges from 3 to 30 cy/sec. Minimum frequency dispersion is 50 kcy/sec in. The spectrum amplitude display is linear. (Polytechnic Research and Development Co., Dept. 235)

JOSHUA STERN
National Bureau of Standards

PERSONNEL PLACEMENT

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Replies to blind ads should be addressed as follows:

Box (give number)
Science
1515 Massachusetts Ave., NW
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POSITIONS WANTED

Dental Scientist, age 34 wants position of responsibility in dental engineering research. Academic background in dentistry and engineering; 7 years' engineering research and design experience. Box 183, SCIENCE. 8/8

Microbiologist, M.A.; 5 years of research experience in immunology, chemotherapy. Available for suitable position in September. Box 177, SCIENCE. 8/8

Organic Chemist. Ph.D.; 6 years' research in industry; desires more basic research than is possible in small company. Medical Bureau, Burneice Larson, Director, 900 North Michigan Avenue, Chicago. X

POSITIONS WANTED

Ph.D., Microbiology-Biochemistry; 5 years of industrial and academic experience, fermentation processes, chromatography, bioassay, manometric, and radioisotope techniques. Seeks industrial position. Box 179, SCIENCE. 8/8, 22

POSITIONS OPEN

(a) **Biochemist**; Ph.D. experienced hospital biochemistry; work with pathologist, serve as liaison between pathologist, medical staff; 300-bed, fully approved hospital; Midwest city of 100,000. (b) **Virologist**; Ph.D., D.V.M. for university appointment; consider graduate microbiologist; long-term research project on human, animal virus relationships; to \$8000; East. (c) **Chemist**; M.S., or young Ph.D.; help plan new department to occupy all new laboratory facilities in expanding hospital, over 200 beds; 120,000 procedures yearly; stable Midwestern city of 40,000. (d) **Bacteriologist**; 350-bed general hospital; to \$6000 or better; Mideast. (e) **Research Biochemist**; active laboratory, 250-bed eastern hospital; city of 50,000. Woodward Medical Bureau, Ann Woodward, Director, 185 North Wabash, Chicago. X

Experienced Histology Technician, ASCP registered preferred. Supervise histology laboratory in large midwestern teaching hospital, train technicians, opportunity for research. Box 163, SCIENCE. tf

PHARMACOLOGIST-Ph.D.

... with several years experience to head laboratory of ethical drug company. Challenging position. Opportunity for growth with expanding organization.

Box 188, SCIENCE

Tissue Culturist for cancer research in large eastern institution. Prefer person with bachelor's or master's degree. Box 189, SCIENCE. X

POSITIONS OPEN

Associate Director. Leading manufacturer of biologicals, blood bank, and blood typing serums seeks M.D.; laboratory background essential; permanent position; excellent remuneration; no travel. Write to Knickerbocker Biologicals Inc., 300 West 43rd Street, New York 36, New York. X

Chemist, male, with B.S. degree in organic chemistry or biochemistry, to participate in analytical biochemical research in mental illness in hospital near Philadelphia. Write stating age, education, experience, and salary desired to P.O. Box 8507, Philadelphia 1, Pa. 7/25; 8/1, 8, 15

Immunologist-Virologist. New vaccine program of progressive eastern pharmaceutical manufacturer offers unusual opportunity for experienced M.S. to participate in team activities as scientific specialist with broad liaison and advisory responsibilities. Salary commensurate with experience plus outstanding employee benefit program. Send complete résumé. Box 190, SCIENCE. 8/15

PHARMACOLOGIST PHYSIOLOGIST

Ph.D. or equivalent with experience and interest in the cardiovascular and autonomic nervous system. To supervise and conduct research in the Cardiovascular Section of the Department of Pharmacology. Please submit résumé to

Personnel Department

The Wm. S. Merrell Company
Lockland Station
Cincinnati 15, Ohio