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Alfano, ASAS, 663 Main St., Melrose 76, Mass.)
2-5. American College of Obstetricians and Gynecologists, Chicago, Ill. (Chief of Information, Dept. of the Army, Washington 25)
2-5. Instrument Soc. of America, instrument automation conf. and exhibit, Pittsburgh, Pa. (W. H. Kushnick, ISA, 313 Sixth Ave., Pittsburgh 22)
2-13. Photogrammetry Week, Munich, Germany. (H. Bischoff, Zeiss—Aerotopograph G.M.P.H., Ismaniger Str. 57, Munich 27)
3-7. Inter-American Nuclear Energy Commission, Mexico City, Mexico. (IANEC, Pan American Union, Washington 6)
4-6. Institute on Rehabilitation of the Mentally Ill, New York, N.Y. (B. J. Black, Altro Health and Rehabilitation Services, Inc., New York)
4-6. Short Run Production Techniques, intern. seminar, American Soc. of Tool and Manufacturing Engineers, Mexico City, Mexico. (Conf. Director, ASTM, 10700 Puritan Ave., Detroit 38, Mich.)
5-7. Pacific Sociological Assoc., annual, Sacramento, Calif. (R. Nisbet, Univ. of California, Riverside)
6-8. American Soc. of Internal Medicine, annual, Philadelphia, Pa. (S. O. Krasnoff, ASIM, 3410 Geary Blvd., San Francisco 18, Calif.)
6-8. Association of Clinical Scientists, Chicago, Ill. (R. P. MacFate, 323 Northwood Rd., Riverside, Ill.)
6-8. Biological Photographic Assoc., midwestern sectional, Des Moines, Iowa. (BPA, 551 W. Grant Place, Chicago 14, III.)
7. New Jersey Acad. of Science, annual, West Long Branch. (H. L. Silverman, NJAS, 361 Highland Ave., Newark 4, N.J.)
7. New Mexico Acad. of Science, Socorro. (K. G. Melgaard, P.O. Box 546, Mesilla Park, N.M.)

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(See 16 March issue for comprehensive list)
New Products

Disposable mouse cages for housing and breeding laboratory mice now afford up to 30-percent savings in personnel time that is normally required for cleaning and maintenance. They are priced in quantities as low as 18 cents each. The compact cages nest together and require considerably less storage space than ordinary, stacked metal cages, and less initial investment. The S.I.U. cages, as they are referred to, are manufactured and marketed by arrangement with Southern Illinois University. They are formed of a new, tough, inert plastic with smooth, undulating bottom and sides that prevent mice from gnawing their way out. The cage system consists of disposable cage bottom, aluminum feeding hopper, perforated-metal cage top, water bottle, stainless-steel feeding tube, and either disposable cardboard supports or nickel-plated metal supports. The metal supports and aluminum food hopper can be sterilized repeatedly. The transparent cages permit continuous observation; the ventilated metal top helps maintain a uniform, ambient temperature. Each lightweight cage measures 10½ (l) by 8 (w) by 4½ (d) inches and holds six to eight adult mice.—R.L.B. (Disposable Laboratory Cages, Inc., Dept. S87, 3070 W. Grand Ave., Chicago 22, Ill.)

Automatic oscilloscope is said to provide instantly and automatically a properly sized and positioned display of the wave form under study regardless of amplitude, frequency, or d-c offset. A complete set of controls for manual operation is also provided. Vertical specifications include: bandwidth, d-c to 10 Mc/sec; rise time, 35 nanosec; sensitivity, 50 mv to 50 v/cm in ten calibrated steps and vernier; input impedance, 1 megohm, 20 pf; range readout on numeral indicator tubes. Horizontal specifications include: sweep speed, 0.1 μsec to 50 m/sec/cm in 18 calibrated steps and vernier; magnification.

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tion of 5; trigger, automatic or manual, a-c or d-c, plus or minus, internal or external; sweep speed readout on numer- al indicator tubes; automatic operation maintains approximately 2 to 6 cycles per sweep.—J.s. (California In- struments Corp., Dept. S79, 3511 Mid- way Dr., San Diego 10, Calif.)

**General-purpose integrator** (model GPI-100) utilizes a solion tetrode as the integrating element. It is battery pow- ered and portable. The instrument ac- cepts input signals to 1 volt, and input impedance is 10 kohm. Frequency re- sponse extends from d-c to 10 kc/sec. The integral is read on a meter with both 100 v sec and 1000 v sec ranges. Accuracy is said to be ±1 percent. Opti- onal features include an input am- plifier, time averaging, and digital read- out.—J.s. (Texas Research and Elec- tronic Corp., Dept. S78, Meadows Building, Dallas, Tex.)

**Water-jacketed test tubes** are now available for use with any two-tube or four-tube model Vortex test tube mixer. This new feature helps control tempera- ture while a hot or cold liquid from a constant-temperature bath, water faucet, and the like is being mixed. The orbital movement of the mixer creates a vortex in the water-jacketed tube—in the same manner as it is done when a jacket is not used. This appears to be an excel- lent method for evaporation, extraction, and fermentation, for the tubes can be put in or taken out while the machine is in operation. Water-jacketed test tubes are available in three sizes to accommodate 13-mm, 15- to 16-mm, and 22- to 25-mm standard test tubes.—R.L.B. (Scientific Industries, Inc., Dept. S46, 220-05 97th Ave., Queens Village, N.Y.)

**Broad-band power generator** for ul- trasonic research provides continuous tuning from 10 kc to 2 Mcy. It fea- tures a broad-band output transformer that delivers 250 watts over the full frequency range. A wide variety of out- put transducers can be matched to the 92-ohm output impedance by means of relatively simple matching elements. This unit is intended to provide a ver- satile source of power that can be used to drive any ultrasonic equipment with- in the range. Cleaning, drilling, welding, chemical effects, biological fragmenta- tion, metallurgical grain effects, poly- merization, and other phenomena can be studied or utilized at the optimal frequency for the effect. Matching ele- ments for driving piezolectric, electro- strictive, and magnetostriuctive transduc- ers are available.—R.L.B. (International Ultrasonics, Inc., Dept. S81, 331 Centen- nial Ave., Cranford, N.J.)

**Integrating servo** provides integration of d-c input voltage with respect to time as a function of shaft angle dis- placement. An integral-plus-proportion- al combination amplifier provides infi- nite gain causing essentially no variation of output speed with change of load, frequency, or line voltage. The com- mand signal is isolated, and command- signal loading is less than 30 μA.—J.s. (Kearfott Div., General Precision, Inc., Dept. S96, 1150 McBride Ave., Little Falls, N.J.)

**Argyle bubble tubing** is a clear plas- tic tubing for general laboratory use that is supplied with a spindle-shaped dilation every 36 inches so that the tube can be cut through the enlarge- ment to provide tapered ends that can be spliced without the use of connec- tors. The funnel shaped ends resulting from a cut through the center of the enlargement facilitate connections to gas and air cocks, and tapered ends from cuts adjacent to the enlargement make internal connections to taper joints and other plastic or glass tubing. Additional spindle-shaped bubbles are available for connecting shorter pieces or making adapters to other sizes. This strong, water-clear, nontoxic, chemically resistant tubing is available with 3/16- and 9/32-inch inside diameters in boxes of 100 feet.—R.L.B. (Aloe Scientific, Dept. S83, 1831 Olive St., St. Louis 3, Mo.)

**Semiconductor heat-sink manual** (12 pp.) is intended to guide selection of heat sinks for specific conditions. The manual covers the three modes of heat transfer normally involved (conduction, convection, and radiation) and explains the significance of each type. A nomo- graph enables selection of a heat sink on the basis of known conditions of allowable temperature rise and power to be dissipated. The heat-sink arrange- ments have thermal resistances rang- ing upwards from 0.019°C per watt for forced convection assemblies to 28°C per watt for small natural con- vection types.—J.s. (AstroDynamics, Inc., Dept. S97, Second Ave., North- west Industrial Park, Burlington, Mass.)