

New Products

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■ **DISPOSABLE MOUSE CAGE**, developed at Southern Illinois University, is constructed of transparent plastic said to be inert and nonallergenic and can be autoclaved or incinerated. Autoclaving reduces cage to 1/9 original size. The cages nest so that 100 cages occupy 4

ft³ of space. Each cage measures 10½ by 8 by 4½ in. (A. S. Aloe, Dept. Sci975, 1831 Olive St., St. Louis 3, Mo.)

■ **SPECTROSCOPIC ELECTRODE STAND** is fabricated of pure graphite to allow loading and placing of electrodes in a furnace to dry or ignite them with no effect on the stands themselves. Models are available for 1/4- and 3/16-in. electrodes. Each stand holds up to 18 electrodes, spaced to allow room for funnel loading, with each position numbered. (United Carbon Products Co., Dept. Sci970, Bay City, Mich.)

■ **PHOTOELECTRIC RELAY** provides an adjustable time delay between changing of light intensity and operation of the relay so that beam interruptions of shorter duration will not cause actuation. Adjustable relay-hold-in time up to 3 sec can also be provided. (Farmer Electric Products Co., Dept. Sci996, 2300 Washington St., Newton Lower Falls, Mass.)

■ **OPTICAL PYROMETER** measures temperature automatically in the range 1400° to 4500°F or 750° to 2500°C. A portable and a fixed-mounting model are available each with single, double, or triple ranges. Operation is on the two color principle using two narrow-band wavelengths in the visible spectrum. Distance from the target may range from 20 in. to 60 ft. (Instrument Development Labs, Inc., Dept. Sci976, 67 Mechanic St., Attleboro, Mass.)

■ **SOIL PULVERIZER**, developed at the University of Wisconsin, deaggregates soil samples for analysis to desired and uniform mesh sizes without crushing or powdering individual soil crystals. The device consists of a finned pulverizing head which rotates at adjustable speeds in a mortar. The deaggregated soil is sifted through a screen kept in constant motion. (National Agricultural Supply Co., Dept. Sci973, Fort Atkinson, Wis.)

■ **FILTER MATERIAL** is made of submicron glass fibers impregnated with Teflon. Pore size of 2 to 7 μ remains constant because fibers do not swell. The filter is resistant to heat up to 500°F. Tensile strength is given as 2200 g/in. and is unaffected by wetting. The filter material, 0.002 in. thick, is available in discs and rolls. (Bel-Art Products, Dept. Sci974, Pequannock, N.J.)

■ **GAS CHROMATOGRAPH** employs a motor-driven transparent film and a photoelectric transmitter and receiver to achieve any combination of time and sequence required in process chromatography. The film is programed by graphite markings spaced to interrupt the photo-electric beam and effect desired sequences such as peak selection, range sensitivity, value actuation, automatic zeroing of the detector cell, and visual readout. Repeatability of the system is said to approach ±0.1 sec. The programmer will accommodate film loop lengths representing analysis times of 4 to 15 min. Adjustment of motor speed provides shorter or longer times. A manual pushbutton overrides the film reader to provide nonautomatic operation. (Mine-Safety Appliances Co., Dept. Sci982, Pittsburgh, Pa.)

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