New Products

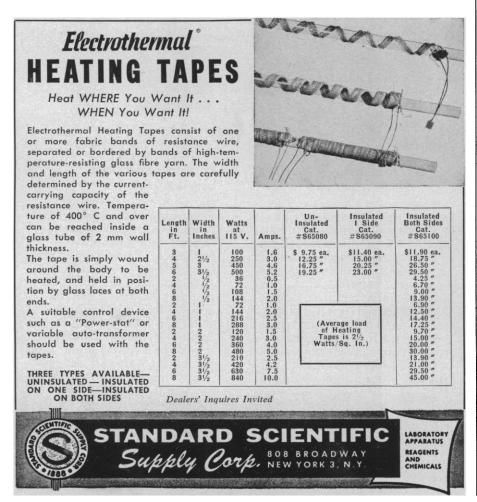
The information reported here is obtained from manufacturers and from other sources considered to be reliable. Neither Science nor the writer assumes responsibility for the accuracy of the information. A coupon for use in mailing inquiries concerning the items listed is included in the post card insert. Circle the department number of the items in which you are interested on this coupon.

• SHAFT ANGLE ENCODER will store 10 bits of encoder data in a transistorized storage circuit on the fly at angular velocities up to 2 rev/sec and provide output in binary code and the complement. Accuracy is said to be ± 1 part in 1000. The encoder will operate under 100 grav steady-state acceleration and 8 grav vibration up to 1000 cy/sec. (Datex Corp., Dept. Sci860, 1307 S. Myrtle Ave., Monrovia, Calif.)

• PLASTIC COATING may be stripped from metal, leaving no film residue. The material, cellulose acetate butyrate, is supplied as solid plastic blocks melting at 360°F. Objects are coated by dipping in the molten plastic. The coating is removed by slitting and peeling. It is suggested by the supplier as a protective coating or as a mask during electroplating or painting operations. (Fidelity Chemical Products Corp., Dept. Sci876, 470 Freylinghuysen Ave., Newark 12, N.J.) • CORE BUFFER MEMORIES are designed to synchronize two data systems operating at different speeds. Capacity is 144 characters of 4 or 8 bits per character. Load or unload is performed at a 100kcy/sec rate. All bits of each character are loaded and unloaded in parallel; characters are loaded and unloaded in sequence. In the type BA units, data are transferred in blocks of up to 144 characters; in the type BQ, characters may be loaded and unloaded in any manner desired. (Telemeter Magnetics Inc., Dept. Sci885, P.O. Box 329, Culver City, Calif.)

• FOUR-WAY TOGGLE SWITCH has 8-pole double-throw contacts. From the center position it is possible to actuate doublepole double-throw circuitry in each of four momentary positions spaced 90 deg apart. Operating force is 0.5 lb. Rating is 5 amp resistive, 3 amp inductive, at 30 volts d-c and 115 volts a-c. (Haydon Switch, Inc., Dept. Sci878, Waterbury 20, Conn.)

• NAVIGATION-AID TEST SET, for testing and calibrating air-traffic-control transponders and airborne distance-measuring navigation systems, contains a crystal-controlled radio frequency signal generator, a peak-pulse-power comparator, and a wavemeter. Crystal-con-



trolled outputs are spaced 1 Mcy/sec in the ranges 960 to 1049 and 1130 to 1219 Mcy/sec. The power comparator indicates from 23 to 33 dbm \pm 1db. The wavemeter covers the range 1070 to 1110 Mcy/sec and is said to be accurate to \pm 0.5 Mcy/sec. (Boonton Radio Corp., Dept. Sci871, Boonton, N.J.)

• DELAY LINE provides three variable taps over a total delay of 1.5 μ sec. The taps can be individually adjusted over the delay range with resolution of 0.025 μ sec. Pulse rise time and attenuation for full delay are 0.27 μ sec and 2 db maximum, respectively. Impedance is 300 ohms. (ESC Corp., Dept. Sci873, 534 Bergen Blvd., Palisades Park, N.J.)

■ DIFFERENTIAL VOLTMETER consists of a stable 500-volt d-c reference supply, a voltage dividing network and five-dial Kelvin-Varley divider, a calibrated multi-range vacuum-tube voltmeter, and an a-c to d-c converter. The vacuumtube voltmeter may be used either in the conventional manner or as a null detector for comparing an unknown voltage with the internally selected reference voltage. Accuracy of d-c voltage measurement is said to be ± 0.05 percent from 0.1 to 500 volts and ± 0.1 percent or $\pm 50 \ \mu v$ from 0 to 0.1 volt. Accuracies for a-c are given as ± 0.2 percent from 0.5 to 500 volts with reduced accuracy from 0.05 to 0.5 volt. (John Fluke Mfg. Co., Dept. Sci877, P.O. Box 7161, Seattle 33, Wash.)

• COMMAND RECEIVER is a completely transistorized, crystal-controlled, fixedtuned receiver for operation over the 5 to 16 Mcy/sec range. An integral multi-tone decoder provides high immunity from interference. (LEL Inc., Dept. Sci872, 380 Oak St., Copiague, N.Y.)

■ MONITOR-ALARM SYSTEM is designed to verify the condition of 30 stations with accuracy of 1 part in 10³. Inputs are signals from transducers. Permissible values for each station are punched into a standard punched card inserted into the monitor. All 30 channels are examined in less than 0.3 sec. Audible, visible, and electrical-signal outputs are provided. The circuitry is entirely solid state. (Franklin Electronics Inc., Dept. Sci880, 5901 Noble Ave., Van Nuys, Calif.)

• ROTARY SEAL GLAND for glass-rod stirrers is available in four sizes: standard taper 24/40 and 29/42 supplied for 6-mm shaft, and 34/45 and 45/50 in either 6- or 10-mm size. The seal is constructed of Teflon with inner and outer O-ring seals of Viton A. The seal is said to be vacuum tight to 8 mm-Hg, to operate at temperatures as high as



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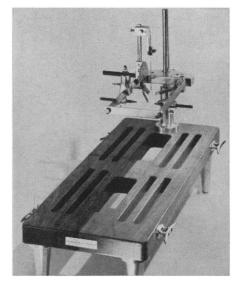


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ULTRASONIC GENERATOR is rated at an output of 1000 watts average power and 2000 watts peak power at 38 to 42 kcy/sec. The generator will drive 192 in.² of barium-titanate crystal radiating surface. Operation is on 115-volt, 20amp power. Weight is 225 lb. (National Ultrasonic Corp., Dept. Sci879, 111 Montgomery Ave., Irvington 11, N.J.)

■ ARC PROJECTOR collects radiation from a blown-type arc by means of first surface reflectors and concentrates it at the reimaging point. A circular radiation pattern totals 374 watts with 80 percent uniformity of field or 668 watts with 60 percent uniformity. A continuous spectrum is provided from 0.25 to 5.1 μ , with spectral energy distribution said to be very close to the solar energy distribution above the earth's atmosphere. (Strong Electric Corp., Dept. Sci897, 396 City Park Ave., Toledo, Ohio)

■ BLOOD PRESSURE RECORDER to accompany the manufacturer's continuous systolic monitor provides a linear trace of blood pressure from 0 to 300 mm-Hg on paper 4 in. wide. (Biophysical Electronics Inc., Dept. Sci884, New Hope, Pa.)

■ ACCELEROMETER, model 408, is designed especially for measurement of small accelerations. Sensitivity is 100 mv/grav. Maximum acceleration is 10.-000 grav. Frequency range is 1 cy/ to 3 kcy/sec with resonance frequency at 55 kcy/sec and amplitude linearity ± 1 percent. The transducer can be operated in noise fields as high as 160 db. Dimensions are $\frac{3}{4}$ in. hexagonal by 0.45 in. high. Weight is 23.5 g. (Columbia Research Laboratories, Dept. Sci898, Woodlyne, Pa.)

■ COINCIDENCE-ANTICOINCIDENCE ANA-LYZER is a four-channel instrument designed for use with Geiger and scintillation detectors. Any number or combination of the four channels may be used in coincidence, and one of the channels may be used in anticoincidence





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SCIENCE, VOL. 132

with any one or combination of the other three channels. Channel dead time is less than 10 μ sec. Input pulses may range from -50 to +100 volts. Output is -15 volts. (Radiation Instrument Development Laboratory, Inc., Dept. Sci893, 61 E. North Ave., North-lake, Ill.)

• CATHODE-RAY OSCILLOSCOPE features a passband from d-c to 1000 Mcy/sec, rise time of 0.35 nsec, linear sweeps to 2 nsec/cm), and sweep delay to 30 nsec. The unit includes a fixed signal delay line, a sweep-delay control, a pulse-rate generator, a standard amplitude and waveform generator, and regulated power supplies. Viewing area is 2 by 6 cm. Spot size is 0.004 in. at 15 μ a. A distributed-deflection cathode-ray tube with 24 kv accelerating potential is used. (Tektronix, Inc., Dept. Sci896, P.O. Box 500, Beaverton, Ore.)

• ANGULAR MOTION TRANSDUCER converts motion to voltage over an angular range ± 40 deg with linearity said to be better than 0.025 percent. The force required to move the armature of the transducer is almost entirely the friction of its bearings, the reactive force being approximately 9 mg cm/deg. Scale factor is 0.57 volt (r.m.s.)/deg, and null voltage is less than 0.1 v. Operation is on 60 cy/sec excitation. (Brush Instruments, Dept. Sci899, 37 St. and Perkins, Cleveland 14, Ohio)

■ RESPIRATION MEASURING INSTRUMENT furnishes electrical outputs expressing both volume and flow. Maximum volume is 10 lit., and volume discrimination is ± 2 ml. Volume output is approximately 0.8 volt/lit., and flow output is approximately 0.1 volt/(lit. sec). Breathing resistance is said to be less than 1 mm-H₂O. Pushbutton calibration is provided. (Custom Engineering and Development Co., Dept. Sci888, 2647 Locust St., St. Louis 3, Mo.)

• MULTIPLIER PHOTOTUBE, type 7664, is a 2-in. diameter, 10-stage tube, sensitive in the ultraviolet and visible light regions. It employs a focusing electrode for adjusting to optimum photoelectron efficiency. Minimum luminous sensitivity is 50 μ a for white light types. Average sensitivity is 60 μ a. The envelope is made of fused silica to permit transmission of ultraviolet radiation down to 1800 A. (Allen B. Du Mont Laboratories, Dept. Sci875, Clifton, N.J.)

■ INDICATOR, for displacement measurement with linear differential transformers, is a null-balance-servo type with scale length of 50 in. Ranges are 0 to 0.01 in. and 0 to 0.1 in. Resolution is said to be 1 part in 9000. Linearity is 11 NOVEMBER 1960



 ± 0.1 percent of range for the indicator alone and stability is ± 0.1 percent of range. Response time from zero to full scale is 4.5 sec. (Shaevitz Engineering Co., Dept. Sci901, U.S. Route 130 and Schaevitz Blvd., Pennsauken, N.J.)

• PULSE GENERATOR furnishes a pulse of 100 m μ sec duration and 20 m μ sec rise and fall times. Pulse output is 0 to 10 kv into open circuit and 0 to 5 kv into a 50-ohm load. Peak power output is 0.5 Mw. Pulse repetition frequency is 60 cy/sec, internally synchonized, or 0 to 60 cy/sec, externally driven. Output pulse delay is 300 m μ sec for 150 volts synchronized input and 140 m μ sec for 400 volts input. (Electro-Optical Instruments Inc., Dept Sci883, 2612 E. Foothill Blvd., Pasadena, Calif.) ■ SHIELD ENCLOSURE for measuring electrical characteristics of materials and small components is equipped with an adapter that fits the input of the manufacturer's electrometers. The enclosure adds only a sapphire insulator of the terminal in parallel with the sapphire insulator of the electrometer probe. (Applied Physics Corp., Dept. Sci895, 2724 S. Peck Rd., Monrovia, Calif.)

• MINIATURE SYRINGE has a total capacity of 1 μ l subdivided into 100 parts. The plunger is a 0.006-in. tungsten wire that bottoms at the point of the 7-cm needle thus avoiding dead volume. Accuracy is said to be ± 3 percent. (Hamilton Company, Dept. Sci889, P.O. Box 307, Whittier 40, Calif.)



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• CENTRIFUGE, a bench model, accommodates five interchangeable rotors for batch or continuous-flow separations. All the rotors may be spun at speeds up to 17,000 rev/min and centrifugal fields as great as 35,000 grav. Two of the rotors are 34-deg angle types with capacities 8×50 ml and 24×15 ml. Another is a zonal separation rotor with 80-deg angle and capacity 16×7 ml. Two other continuous-flow rotors have bowl capacities of 300 and 800 ml. (Lourdes Instrument Corp., Dept. Sci-905, 53rd St. & First Ave., Brooklyn 32, N.Y.)

■ PERFORATED-TAPE READER operates either single character or continuous run from an external trigger source. It will accommodate 5-, 6-, 7-, or 8-hole, 1-in. paper Mylar tape and operates at the rate of 60 characters per second, self-stepping, or 50 per second, impulse stepping. (California Technical Industries, Dept. Sci882, 1421 Old County Rd., Belmont, Calif.)

• AUTOMATIC PIPETTE operates by piston displacement of fluid fed into an enclosed cylinder. Each turn of a 360deg rotatable stopcock dispenses a fixed volume of liquid. Pipettes are available in sizes from 1 to 50 ml at any desired fractional increment. Accuracy is said to be ± 0.002 ml for pipettes smaller than 10 ml and ± 0.005 ml for larger sizes. Filling and emptying occur simultaneously. (Schueler & Co., Dept. Sci-904, 75 Cliff St., New York 38, N.Y.)

• SYNTHETIC POLYPEPTIDES of high molecular weight available from stock include polymers of the following L- α amino acids: glutamic acid, γ -benzyl glutamate, lysine hydrobromide ϵ -carbobenzoxylysine, O-carbobenzoxytyrosine, leucine, alanine, phenylalanine, and tyrosine. Also available on order are copolymers, special molecular weights, and polymers of amino acids having unnatural configurations. (Pilot Chemicals, Inc., Dept. Sci907, 36 Pleasant St., Watertown 72, Mass.)

JOSHUA STERN National Bureau of Standards, Washington, D.C.

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PERSONNEL PLACEMENT

CLASSIFIED: Positions Wanted, 25¢ per word, minimum charge \$4. Use of Box Number counts as 10 additional words. Payment in advance is required.

COPY for ads must reach SCIENCE 2 weeks before date of issue (Friday of every

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experience in independent waterfowl research. **Duties:** To carry out life history studies of mallard and native grey duck populations or such other projects as may be assigned. Further information may be obtained by writ-ing air mail to the Wild Life Branch, Department of Internal Affairs, Wellington, New Zealand. Applications close on **23 December 1960** and should be addressed to the New Zealand Em-bassy, 19 Observatory Circle, NW, Washington 8, D.C. <u>X</u>

should be addressed to the INEW Zealanu Embassy, 19 Observatory Circle, NW, Washington 8, D.C. X Botanist technician with thorough knowledge of plant microtechnique methods for preparation of slides and to qualify as assistant laboratory di-rector. Experience in large-scale slide preparation essential. Starting annual salary \$7000 to \$8500, depending upon training and experience. Gener-ous employee benefits include company-paid life insurance and retirement pension. All applicants held confidential. Write to President, General Biological Supply House (Turtox Products), \$200 South Hoyne Avenue, Chicago 20, Illinois. 12/9 POSTDOCTORAL TRAINEESHIPS in EN-ZYME CHEMISTRY are available for 1961-62 at the University of Wisconsin, Institute for Enzyme Research in Madison. Applications may be submitted at any time and are invited from candidates who have completed or will shortly complete the requirements for either the Ph.D. or M.D. degree and who are U.S. citizens. The period of traineeship is 12 months (including 1 month's vacation) and may be renewed for addi-tional years. Stipends are \$6000 per year and, in most cases, partially tax-exempt. A travel allow-ance is provided the trainee from his present in-stitution (if within continental U.S.) to Madison. Senior traineeships are available to persons who by virtue of previous postdoctoral training and/or experience have demonstrated outstanding ability. Application forms and information may be ob-vatianed by writing to Dr. David E. Green, Pro-gram Director. X

11 NOVEMBER 1960

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