PRINTOUT

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PRODUCTS

Drinking Monitor

The multichannel drinking monitor counts individual licks on the dispenser. In preset time intervals of 1 to 99 min, accumulated number of licks for each animal is printed out on tape. Monitor has ability to punish animal touching dispenser. System can monitor up to 16 animals. Price: \$290 per cage in systems of 8 to 16 cages.

Columbus Instruments
950 North Hague Avenue
Columbus, OH 43204

Shuttle Box for Animals or Fish

Shuttle box allows for testing of animal activity; count is registered on counter each time animal transfers itself from one side of cage to other. Special cages with one, two, or three compartments are supplied with system. Individual selection of infrared light beams (seven) makes it possible to adjust the spacing between beams to match the size of animal. Timer can terminate experiment after a preset interval of 1 to 99 min. Shuttle box can be supplied with electric shock. Similar unit can be used to study behavior of fish.

The "Opto-Varimax" measures activity and plots activity on X-Y chart recorder. Along with pattern plotting, instrument produces figure of activity related to distance animal travels. Monitoring of fish activity is done with help of two arrays of low-intensity red light beams intercepted by light sensors.

Columbus Instruments
950 North Hague Avenue
Columbus, OH 43204

Temperature Measurement

The YSI Model PH09 thermistor probe holder is used to secure a YSI Model 409 or 709 skin probe firmly in place during extended or short-term skin temperature measurements. The probe holder insures a constant repeatable pressure between the probe and skin, and it prevents false readings due to localized temperature build-up by allowing air circulation around the probe and the adjacent skin area.

Yellow Springs Instrument Company
Yellow Springs, OH 45387

Portable Communicator

The Canon communicator is a portable communication aid. As entries are made on the keyboard, letters and symbols are produced on a paper-tape display. The communicator can be used in a hand-held format. The unit weighs 28 oz. Price: \$549.

Telesensory Systems, Inc.
3408 Hillview Avenue
P.O. Box 10099
Palo Alto, CA 94304

New and Used Computer Equipment

Psychologists often inquire about used computer equipment. Newman Computer Exchange (1250 North Main Street, P.O. Box 8610, Ann Arbor, MI 48107), which offers new and used items, advertises the following psychology departments as purchasers of equipment: Northwestern University, Western Michigan, Simmons College, Brown, Yale, NYU, Columbia, Hamilton College, Rochester, Wisconsin, Denver, Utah State, Stanford, Montreal, Indiana State, Iowa, and Gettysburg College. The company claims that most items are shipped within 48 h after receipt of order, and that there is a 90-day warranty and monetary savings. Recent advertisements indicate the following prices: PDP-11/34 (unused), 16K Parity MOS, \$5,895; 16K Parity core, \$6,295. The DEC PDP-8/e with 16K including TTY interface is priced at \$5,400; PDP-8/1 with 8K, negative bus, \$1,370.

BRIEFS

Longitudinal Research

If you have done *longitudinal research* in any of the medical, social, or behavioral sciences, contact Michele Harway and Sarnoff A. Mednick, Social Science Research Institute, University of Southern California, Los Angeles, California 90007 [(213) 741-5609]. This project is a U.S. follow-up of a major survey of European longitudinal research (*An Empirical Basis for Primary Prevention: Prospective Longitudinal Research in Europe*, Oxford University Press). The survey aims to be comprehensive. Any longitudinal, prospective, follow-up, cohort, or epidemiological study is of interest. Please send your name and address and descriptive materials or reprints.

Rat Levers

Ralph Gerbrands Company recently announced two rat levers. The G6311 retractable lever is priced at \$200; the G6314 adjustable force lever is \$49. A knob at the rear of the adjustable lever controls the operating force from 0 to 30 g.

Ralph Gerbrands Company
8 Beck Road
Arlington, MA 02174

Student Wet Spirometer

The Phipps and Bird wet spirometer measures lung capacity and is based on the principle that exhaled air will displace water. The spirometer basically consists of two vessels: one with a rubber breathing hose attached, containing water, the other, smaller one, floating in it and attached to a counterweight and measuring scale. Air blown through the tube displaces water, causing the floating vessel to rise and drive the needle to a point on the scale, which gives lung capacity. Price: \$125 with 100 disposable mouthpieces; Catalog No. S17046.

Fisher Scientific Company
711 Forbes Avenue
Pittsburgh, PA 15219

Biomonitor

The Phipps and Bird biomonitor detects and displays bioelectric events associated with cardiac and striated muscle activity. Designed for classroom use, the unit includes biomonitor, plate electrodes, cables, wrist strap, electrode gel, and batteries for \$59.95 (Catalog No. S43928). Basically the unit is a millivolt amplifier that provides both visual and audible responses (flashing light and beep sound).

Fisher Scientific Company
Educational Materials Division
4901 West Lemoyne Avenue
Chicago, IL 60651

PDP-11 Data Analysis Package (ALICE)

ALICE Associates announces the availability of a data analysis package for PDP-11 laboratory computers running under RT/11. ALICE 1.2/11 is the PDP-11 conversion of ALICE, a program specifically for the manipulation and statistical analysis of data generated by designed experiments (ALICE: A system for manipulating and analyzing multidimensional data. *Behavior Research Methods & Instrumentation*, 1976, 8, 347-351). ALICE 1.2/11 runs under RT/11 V3/SJ monitor with FORTRAN V.2 on PDP-11 machines with at least 32K of memory, EIS, and memory management (RSX FORTRAN users should write for additional details).

The PDP-11 and ANSI standard versions of ALICE have the same instruction set and appear identical in

operation to the user. The standard installation packages for each version (RK05 disk or nine-track tape) include input and output files for on-site verification of all ALICE instructions and statistical tests.

ALICE Associates
29 Wellesley Avenue
Natick, MA 01760

Photographing CRT Displays

HOODWRITER is a rugged plastic hood equipped with a quality optical system and specially modified inexpensive Polaroid camera for taking photos of a computer display screen under daylight conditions. The unit enlarges the image of the display to fill the field of the photograph, brings the image into sharp focus, and shields the CRT from ambient light.

Computer Systems Documentation
P.O. Box 2726
College Station
Pullman, WA 99163

Step Attenuators

Weinschel rotary step attenuators have gold-plated connectors and sell for \$32 each. Features include the following: nominal impedance, 50 ohms; frequency range, dc, 18 GHz; attenuation range, 0-40 dB; voltage division steps, 1.0, .5, .2, .1, .05, .02, .01.

Banff Associates
P.O. Box 10539
Portland, OR 97210

Bar Graph Display

The H15-01 bar graph display is a feedback display for all biofeedback response modalities. Available in three colors (RYG), the units are designed to be stackable and viewable in a small visual field. Price: \$225.

Coulbourn Instruments
Box 2551
Lehigh Valley, PA 18001

and

Box 144
Laramie, WY 82070

Heat Flux Transducer

The HFT-A biomedical heat flux transducer measures heat flow through any desired specific area. The HFT-A need only be held in the path of the heat flow, in contact with the area. The unit can also be sutured, as some models are waterproof and sterilizable. As heat flows through the HFT-A, it generates a directly proportional signal in millivolts, read on a conventional recorder. The

HFT-As have measured heat flow rates in polar bears, arctic seals, foxes, desert animals, human divers, astronauts, and other subjects.

Thermonetics Corporation
Box 9112
San Diego, CA 92109

Computerized Voice Research

A project currently under way at Southern Illinois University at Carbondale, Illinois, has established a Computerized Register of Voice Research (CRVR). CRVR consists of a computerized bibliographic data base dealing with literature and research in the area of voice: singing voice and pathological voice. The data base includes citations of applicable literature dating to January 1975, taken from such sources as journal articles, books, research projects under way, published and unpublished dissertations, published and unpublished research, and book reviews. The purpose of CRVR is to eventually provide a research tool and communication link for researchers and educators internationally who are interested in voice. The system is designed so that any individual may request a listing of recent literature, research efforts, and/or research presently under way for whatever interest area or purpose.

Specific subject searches of the data base can be provided as requested by a researcher, for example, producing citations on such topics as respiratory training of singers and nonsingers or esophageal speech for the laryngectomized patient. A bibliographic display of all articles, research, and/or dissertations by a specific author can be provided. Write:

T. M. Otto or M. J. Ashley
Morris Library
Southern Illinois University
Carbondale, IL 62901.

Autoclinic 200 Updated

The Coulbourn Autoclinic 200 has been updated and is now called the 201. Output driver circuitry has been added so the 201 can operate accessories like lights, tape recorders, or other devices through use of ac remote controller or dc relay. For further information, write:

Coulbourn Instruments
Box 2551
Lehigh Valley, PA 18001.

A Small Interval Timer

(Submitted by Lawrence W. Sherman and John Morrow,

Department of Educational Psychology, Miami University, Oxford, OH 45056.)

We have been using an interval timer in naturalistic observational studies of humans where sequential constraints, percentage of time, rates and durations of behavior are at issue. We believe that the timer offers certain size, accuracy, and expense advantages over Lockard's (1976) design. A major difference is that the Lockard device uses a "unijunction transistor" (UJT) as the essential timing component; the timer described here uses an LM555CN monolithic linear integrated circuit (IC) connected for astable operation (Note 1). Both units are powered by a 9-V battery (Eveready 216 or equivalent). Timing accuracy is significantly affected by fluctuations in battery voltage with a UJT, but it is only minimally affected when using a 555 IC. The physical size of the 555 IC is small, as is the 1-meg ceramic potentiometer, which can vary pulse repetition rates between 2 and 22 sec.

In constructing the device, all components are affixed to the ceramic potentiometer. Terminals for connecting a battery are made from an old 9-V battery terminal. The unit is activated by connecting the battery to the terminal and deactivated by removing the battery, but a microswitch can be installed if preferred. We use a low-impedance earphone (8 ohms) and a light-emitting diode (LED) to provide both auditory and visual signals to our coders. The entire device (battery not included) is cast in a transparent epoxy resin that makes it very durable. Only the battery terminals, earphone connector, LED, and screwhead of the potentiometer are exposed (exposed parts are coated with paraffin prior to casting). Interval adjustment is made with a small screwdriver.

A complete schematic and parts list are available from the authors. The completed device, less the battery, is approximately 4 x 3 x 2 cm. This makes the timer easily concealable. When attempting interrater reliability between two coders simultaneously observing the same events, a second earphone is patched into the exterior connecting earphone wires so that one timer is cuing both raters.

REFERENCE NOTE

1. National Semiconductor Corporation, *Linear data book*, 1976, Section 9, p. 23.

REFERENCE

- Lockard, J. S. Small interval timers for observational studies. *Behavior Research Methods & Instrumentation*, 1976, 8, 478.