• *New Products*

Nitrogen-15, a stable isotope, and its compounds, are now available through UNITED MINERAL & CHEMICAL CORP. from Azote et Produits Chimiques, S. A. of France. Nitrogen-15 is utilized in nuclear science, chemistry, biochemistry, and agronomy studies. Stable isotopes have unlimited life; long lasting tests requiring no immediate analysis are feasible. These isotopes do not present radiation problems nor do they generate any disturbing effects due to radiation. Nitrogen-15 and its compounds can be made in custom dilutions as well as synthesized to the researcher's specific requirements. For "Nitrogen-15 and Its Uses" write United Mineral & Chemical Corp., 129 Hudson St., New York, N.Y. 10013.

The BENCH SCALE EQUIPMENT Co., Dayton, Ohio, has just announced the addition of a Benco/Grant temperature controlled bath. This new series provides eight models for every laboratory need. The temperature range is −30 to +60 C, a refrigeration system operates on a continuous basis, the heating element adds heat automatically as required, thus avoiding hunting which occurs in dual control systems. Control on Standard Models is ±0.2 C; high sensitivity models provide for ±0.03 C control. The Model LB baths are designed for maintenance-free continuous operation. Floor models are portable and can be conveyed about the lab for a variety of cooling applications. Typical applications involve viscosity, ASTM tests, BOD tests, penetration tests, instrument calibration, quality control checks, biochemical tests and procedures requiring below ambient temperatures.

NUCLEAR DATA, INC., Palatine, Ill., announces the Series 7700 Digital Data Reduction System which has been specifically designed for chemistry laboratory application. Data is acquired on a newly developed instrumentation tape recorder from gas chromatographs, GEL permeation chromatographs, infrared spectrophotometers, and other analytical instruments. Data reduction is accomplished by a central processor with a separate software program provided for each analytical instrument. Automatic print-out of all normally desired parameters is provided.

A new laboratory glassware washer that provides automatic processing of loads according to soil condition is announced by AMSCO INDUSTRIAL Co., Division of American Sterilizer Company, Erie, Pa. Designated the Sparkle II, the free-standing cabinet washer can be set for the particular washing requirements simply by turning the selector dial to Light, Medium or Heavy. The load is then subjected to the preprogrammed sequence of prewash rinse, wash with recirculating detergent water, primary rinse, and special rinse with distilled or deionized water, if desired. Operations performed are the same regardless of the cycle selected. Only the total time is different, with approximately 5 minutes for light soil conditions, 8 minutes for medium, and 12 minutes for heavy. In addition to automatic processing, pushbutton manual control is provided. Setting the selector dial to Manual allows the operator to extend, reduce or repeat the various wash and rinse phases as desired.

A new gas chromatograph system which can be built up to individual requirements from a choice of modules is announced by PYE UNICAM LTD., Cambridge, England. The chromatograph, known as the Pye Model R, is designed to fill the gap between routine analytical chromatographs and the very costly instruments designed for basic research. The instrument's modular design gives it great flexibility, making it suitable both for experimental work where the optimum conditions for separation and detection have not yet been established, and for a wide variety of difficult analyses required to be repeated regularly. It is likewise well-suited to use in industrial research laboratories where many different analytical techniques may be needed at different times.

A new exponential automatic dilutor has been developed by CARLO ERBA, S.p.A., Milan, Italy, in order to make calibration curves for gaseous mixtures in gas chromatography easier and more accurate. With this dilutor it is possible to supply the gas chromatograph sampling device with gaseous mixtures of known concentration from few ppb to some per cent. The complete calibration curve may be plotted in only 30 min.

Meeting the urgent need of the chemical and food processing industries for high volume, continuous, operations, CENTRICO, INC., Englewood, N.J., is introducing two giant centrifuges at the 32nd Exposition of Chemical Industries, New York Coliseum, Dec. 1–5, 1969. By virtue of their extremely high capacities, both of these new machines, the TA-200 Liquid-Liquid Separator and the SAK-20037 Automatic De-Sludger, now offer the advantages of high speed centrifuge efficiency to high-volume processing plants. Heretofore, such high volume processing has required a bank of low capacity centrifuges, making the process uneconomical. This breakthrough is important news for the chemical processer.

Availability of new low-cost developing chambers for TLC plates in two sizes has just been announced by QUANTUM INDUSTRIES. Designated CDC-9 and CDC-5, the new chambers are of high quality pyrex glass, cylindrical and flat bottomed. Flexible caps are provided to maintain chamber atmosphere saturation. Type CDC-9 will accommodate at least two 5 cm × 20 cm plates and is 2¼ in. wide and 9 in. high. Type CDC-5 will accommodate two 5 cm × 10 cm plates; it is 2¼ in. wide and 4½ in. high. Both types are available from stock in reasonable quantities. They are usable with all conventional development solvent systems. Both types are available singly or in cases of 1 doz. chambers of the same type.