

• *New Products*

The GELMAN INSTRUMENT COMPANY now has available the Thin Layer Electrophoresis (TLE) Cell, produced by Camag of Switzerland, and authorized by Pastuska, one of the original researchers of the technique. TLE combines the advantages of thin-layer chromatography with electrophoresis. Sharper resolution and shorter separation times possible than with either technique alone make TLE desirable for hard-to-separate compounds, particularly amines, amino acids, sugars, phenols, and inorganic ions.

CAHN INSTRUMENT CO. has available model RG and RH Electrobalances, rated for operation under pressures up to 50 atmosphere (750 psi). These automatic recording balances have been used successfully under high vacuum for several years, in the determination of thermodynamic and kinetic data by TGA and adsorption isotherms, and for many other requirements. Model RH has a capacity of 100 g, and sensitivity of 2 μg ; the RG has a capacity of 2.5 μg and a sensitivity of 0.1 μg .

GALLARD-SCHLESINGER CHEMICAL MFG. CORP. has announced that Sulphonazo III is now available. This visual indicator provides a quick and convenient volumetric method for the determination of sulphate ions in solution by direct titration with standardized barium perchlorate solution. The sensitive and selective color reaction given by the indicator in the presence of excess barium ions gives an end-point which is much sharper than with other indicators in this application. It is not affected by pH changes. An aqueous solution of Sulphonazo III is stable for many months.

The ARTHUR H. THOMAS Co., Philadelphia, Pa., has now made its Lubriseal available in spray form.

LACHAT CHEMICALS INCORPORATED, Chicago, Ill., has expanded their listing of pure aliphatic chemicals as analytical standards as well as their laboratory services. They now offer by gas chromatography, lower fatty acid assays, capillary and pyrolysis analyses. Their new catalog also presents Gas-Quat L as a coating aid for capillary and packed columns.

BROOKLINE INSTRUMENT COMPANY, White Plains, N.Y., has developed a new platform balance, Model 100, with a weighing capacity of 200 kg and a sensitivity of less than 1 g. Weight readout is provided by a mechanical beam balance.

ELLIOTT COMPANY, Jeannette, Pa., has a centrifugal air compressor that provides oil-free air for instruments, processes, control air, and general plant use. It occupies 42 sq. ft. and delivers 1000 to 2500 CFM.

GELMAN INSTRUMENT COMPANY, Ann Arbor, Mich., has a new system for micro thin layer chromatography that is especially suited for quality control and pre-testing chromatographic solvent systems. Gelman claims the new system saves adsorbents, reagents, and lab space and is faster than standard TLC.

CHROMATRONIX, INC., Berkeley, Calif., has introduced a new line of chemically inert flow valves for liquid chromatography. The valves can be actuated manually or by automatically controlled air lines and will operate at pressures up to 500 psi.

PERCO SUPPLIES, San Gabriel, Calif., now offers a bis (trimethyl silyl) acetamide reagent for preparation of silyl derivatives of Vitamin D and E, amides, ureas, and dipeptides for GLC analysis.

ULTRA-VIOLET PRODUCTS, INC., San Gabriel, Calif., is making their fluorescent analysis cabinet available to laboratories for a free trial period. The unit may be used in any analysis of paper and thin-layer chromatograms in the laboratory, making a darkroom unnecessary.

National Standard Reference Data System

The NSRDS was established in 1963 by the President's Office of Science and Technology to make critically evaluated data in the physical sciences available to science and technology on a national basis. The NSRDS is administered and coordinated through the NBS Office of Standard Reference Data.

A number of the centers whose work would be of interest to AOCS members are as follows:

CRYOGENICS DATA CENTER

National Bureau of Standards, Boulder, Colo. 80301

Director: V. J. Johnson

Field covered: Low-temperature data on properties of materials.

Purpose of activity: To acquire and catalog for bibliographic purposes all literature and data of interest in cryogenics, and to evaluate and compile low-temperature data on properties of materials.

CRYSTAL DATA CENTER

NBS Institute for Materials Research

J. D. H. Donnay, Chief Editor (Johns Hopkins University); H. M. Ondik, NBS Editor; V. Kennard, Organic Editor (Cambridge University).

Field covered: Crystallographic data on all solids; data and related information on unit cell dimension of crystal materials.

MASS SPECTROMETRY DATA CENTER

NBS Institute for Basic Standards

Director: H. M. Rosenstock

Field covered: Ionization and appearance potentials, by all techniques, including spectroscopic and theoretical ion molecule reactions.

Purpose of activity: To develop a reliable body of information and data on fundamental molecular properties and processes measured by mass spectrometric techniques; to furnish data in convenient tabular form on ionization and appearance potentials and heats of formation of ionic species.

MICROWAVE SPECTRA DATA CENTER

NBS Institute for Basic Standards

Director: D. R. Lide

Field covered: Microwave spectra of molecules and the physical properties derived therefrom (rotational constants, etc.).

Purpose of activity: Publication of tabulations of evaluated microwave absorption lines.

THERMODYNAMICS RESEARCH CENTER

Department of Chemistry, Texas A&M University, College Station, Tex. 77840

Director: B. J. Zwolinski

Field covered: Organic compounds of interest to science technology with emphasis on hydrocarbons and certain organic oxygen, nitrogen, sulfur, and halogen compounds.

Purpose of activity: To conduct extensive literature search, experimental and theoretical research, selection, and correlation of data related to physical, thermodynamic, and spectral properties of organic compounds.

CHEMICAL KINETICS INFORMATION CENTER

NBS Institute for Basic Standards

Director: D. Garvin

Field covered: Rates of homogeneous chemical reactions in gas, liquid, and solid phases; photochemistry, inelastic scattering.

Purpose of activity: Bibliographic support for NSRDS "critical review" series in chemical kinetics. Information center.

Further information may be obtained from the NBS Office of Technical Information and Publications.