

FAT SPLITTING—BATCH

W & S processes offered range from straight chemical treatment as in complete saponification of soapstock followed by washing and release of 100% fatty acids with mineral acid, or direct acidulation followed by pressure splitting up to 600 psig., using our own developments in batch or semi-continuous autoclave operation. The specific method best suited will be recommended by W & S based upon fatty materials to be used, facilities available, and end use intended for the fatty acids.

FAT SPLITTING . . . SEMI-CONTINUOUS

Semi-continuous fat splitting offers the advantages plus features not practical in continuous splitting. It operates on a cyclic basis at 400-600 psig. usually without catalyst and delivers splits of 98-100% resulting in greater glycerine yield and decreased distillation losses. A different fat may be used in each cycle without affecting daily output. Major controls are automatic thus reducing labor attention.

CONTINUOUS FATTY ACID DISTILLATION

The heart of the unique W & S process is the hollow, Dowtherm heated bubble cap tray, coupled with effective deaeration, drying, minimum operating temperatures and accurately controlled fractional condensation of the distillate. As a consequence, yields of 99% or more on many materials, plus outstanding product qualities, are now obtained in a single, continuous distillation. Where desired, continuous color stabilization or bleaching can be coupled directly with the distillation system. The economies effected with the W & S process now make fatty acid distillation a profitable operation for outputs as low as 1000 pounds per hour.

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A Division of Jacobs Engineering Co., Pasadena, Calif. — Oak Brook, Ill. — Linden, N.J.

• *New Literature*

A new generation of low cost, high performance mass spectrometers is described in a 16 page bulletin now available from BELL & HOWELL, CEC/Analytical Instruments Division, Pasadena, Calif. In addition to performance and application data, the bulletin includes information on gas chromatograph/mass spectrometer operations, and a discussion of the instruments' new analyzer of computer-aided design. For Bulletin 21490, write Bell & Howell, 360 Sierra Madre Villa, Pasadena, Calif. 91109.

WORTHINGTON BIOCHEMICAL CORPORATION, Freehold, N.J., has just issued a new 8 page booklet announcing its new capability in producing high-quality enzymes in quantities for use in commercial products. The bulletin explains how Worthington's work on behalf of biochemical researchers led to the company's developing considerable expertise in the separation and characterization of proteins. Now, with greatly expanded equipment and facilities, Worthington is prepared to make this expertise available to commercial products in which the remarkable advantages of the enzyme can be of value.

SUPELCO, INC., Bellefonte, Pa., announces the availability of a new 1970 catalog listing chemicals and supplies for gas, thin layer and liquid chromatography. The 52 page catalog also includes a comprehensive listing of high purity lipids, hydrocarbons, pesticides, carbohydrates and amino acids.

SADTLER RESEARCH LABORATORIES, INC., Philadelphia, Pa., has just published a new 30 page brochure describing its pharmaceutical, steroid and biochemical spectra collections. The brochure describes the three collections and the Sadtler Indices, Spec-Finder and Ultraviolet-Locator used with them. The pharmaceutical collection, numbering 850 infrared and 1,500 ultraviolet spectra, consists of drugs compiled from the latest editions of the U.S., the British, and the International Pharmacopoeias, the National Formulary and New and Nonofficial Drugs. Some 750 steroids and related compounds are contained in the steroid infrared (grating and prism) collection. The biochemical collection consists of 2,000 infrared and 650 ultraviolet spectra of such substances as amino acids, carbohydrates, solvents, and compounds found in the tri-carboxylic acid cycle and other cycles.

The newest edition of the 24-page catalog, "Fisherbrand Pipets," from FISHER SCIENTIFIC Co., Pittsburgh, Pa., describes and illustrates dozens of precision tools: pipets for bacteriology, blood diluting, and blood sedimentation, blood chemistry tubes, hemoglobin, micro, Mohr, prothrombin, and serological pipets, chemistry pipets, volumetric pipets, water-analysis pipets. Over 50 different major kinds are listed, including designs not available elsewhere. The introduction discusses the anatomy of the typical Fisherbrand pipet, the quality control employed, and the properties of the glass in this pipet product line. A handy feature is the page on pipeting techniques that concludes the catalog.

New Fluid Analyzer Bulletin T300, from GAM RAD, Inc., Detroit, Mich., completely describes Model 150, a radically different turbidimeter. The new instrument is a back-scatter fluid analyzer which incorporates a unique optical system for continuously monitoring up to 15% suspended solids in fluid process materials. It is adaptable for most processing and industrial uses, including chemicals, petroleum, food, beverages, cosmetics, pharmaceuticals, paper, biological research, water treatment, waste treatment and sewage treatment. Bulletin T300 is available from Gam Rad, Inc., 16825 Wyoming Avenue, Detroit, Michigan 48221.

Detailed application data and engineering drawings contained in a new instruction bulletin from AMERCOAT CORP., Brea, Calif., describe material requirements and installation techniques developed for the application of T-Loek

(Continued on page 119A)

• *New Literature . . .*

(Continued from page 113A)

Amer-Plate protective lining system to a wide variety of concrete tanks and structures for industrial and municipal use. Long in use as an outstanding lining for concrete sewer lines and structures subject to continuous exposure to high concentrations of H_2S , the ribbed PVC sheet is also readily applied and equally successful when used as a locked-in, highly chemical resistant liner for industrial concrete structures as well. The sheet is unaffected by continuous exposure to dilute solutions of most mineral and organic acids, alkalis, salts, vegetable and animal oils, and fungus and bacteria. It also resists most dilute solutions of alcohols and petroleum products normally found in water treatment and waste collection, storage and disposal systems.

A comprehensive bulletin covering fatty chemical products available from ASHLAND CHEMICAL Co., Columbus, Ohio, is now being distributed nationally. The bulletin provides technical information, including carbon chain compositions, on the wide range of fatty chemicals manufactured by Ashland Chemicals. These include high-purity glycerides; fatty acids, esters, alcohols and nitrogens; polyoxyalkylated products; and specialized industrial fatty chemicals. Copies of the publication, Technical Bulletin 1165, are available from Ashland Chemical Company's Chemical Products Division, 8 East Long St., Columbus, Ohio 43216.

Bulletin No. 83-A, a discussion of the latest advancements in automated laboratory glassware procedures, is now available from The Chemical Rubber Co., Cleveland, Ohio. This newly published bulletin treats on all phases of glassware cleansing and problems encountered in laboratory processing of dirty labware. Subjects covered include: economics of glassware cleansing, reduction of glassware breakage, establishing and maintaining cleanliness levels, cleansing procedures. Also described in the publication are the latest CRC Automatic Labwashers including under-counter, free-standing and mobile units which require no installation. A 52 page book listing 48 successful field applications is included free with each Labwasher Bulletin No. 83-A. Requests for this free information can be sent to The Chemical Rubber Co., 18901 Cranwood Parkway, Cleveland, Ohio 44128.

New catalog information is now available from the Industrial Instruments Division of the BARBER-COLMAN Co. This catalog describes the many models, features and specifications of the many pyrometers which are available for industrial and laboratory work. Included as part of this new catalog is descriptive information and specifications on the Model 105A. This instrument incorporates a compact thin line horizontal design and is a companion instrument from an appearance standpoint, for use with the popular 170 Series Indicating Controller. Also included is descriptive information on the Model 2865, the Barber-Colman portable pyrometer as well as the various holders and sensing tips which can be used with the instrument.

A new 4 page technical bulletin on two rotameter kits designed for laboratory bench type flow metering operations has been announced by Brooks Instrument Division, EMERSON ELECTRIC Co., Hatfield, Pa. Designated the Brooks E/C Laboratory Rotameter Kits, each kit contains 16 rotameter tube and float combinations to provide accurate flow measurement in laboratory experimental work. These instruments measure a wide range of flow rates from 0.06 to 1944 cc/min of water and from 5.1 cc/min to 129 SCFH of air at STP. Included in the new bulletin is information on design, materials of construction, kit contents, standard capacities, and ordering. Copies of the new 4 page technical bulletin (DS-1214-1500) on the Brooks E/C Laboratory Rotameter Kits may be obtained by writing to Brooks Instrument Division, Emerson Electric Co., Hatfield, Pennsylvania.

• *Names in the News*

N. T. JOYNER ('32), executive vice president for the last six years, has been promoted to president of the Votator division, Louisville. Votator is a leading producer of



N. T. Joyner

processing machinery and equipment for the food, chemical, plastics, textile and other industries. Mr. Joyner has been with the company since 1951. He was manager of Votator's overseas operations, general sales manager and later vice president of sales. He is a native of Columbia, South Carolina and a chemical engineering graduate of Virginia Military Institute. Mr. Joyner is a long-time member, current treasurer and a member of the governing board of the American Oil Chemists Society and a director and first vice president of the University of Louisville's International Center. He is a founder of the Anchorage, Kentucky Civic Club and a member of the town council there. He is the author of several papers on fats and oils technology.



W. A. Cochran

W. A. COCHRAN ('69) has been named Executive Vice President of Sesler Corporation, Los Angeles based engineer-constructor of plant facilities for the process industries. Mr. Cochran's primary responsibilities will be in the areas of client relations and as the Administrative Assistant to the President. Mr. Cochran's career in the engineering and construction field spans more than two decades, and includes both domestic and foreign experience in petroleum refining, chemicals, petrochemicals, minerals, mining, and power plant projects as Vice President of Jacobs Engineering Co. and on senior project engineering assignments with C. F. Braun and Co. A registered professional engineer, he is a member of the American Oil Chemists Society, the American Society of Mechanical Engineers, Western Gas Processors and Oil Refiners Association and the Colorado Mining Association.

H. GLADYS SWOPE, Consulting Chemist, has joined Water Pollution Research and Applications, Inc. (WAPORA), Washington, D.C., as a Regional Associate. In this capacity Miss Swope will engage in cooperative work with WAPORA on research and consulting projects in the field of environmental management. Miss Swope maintains an office and an analytical laboratory in Madison, Wisconsin. Until entering private practice as a consultant Miss Swope served as Assistant Professor of Water Chemistry at the University of Wisconsin. Her previous positions include: Chief Chemist, Allegheny County, Pittsburgh, Pa.; Fellow Mellon Institute; Senior Chemist and group leader, Argonne National Laboratory, Illinois; Assistant Chemist, the Sanitary District of Greater Chicago; Chief Chemist, Division of Sanitation, Kansas State Board of Health; and Chemist, Nalco Chemical Co. She currently serves as a consulting editor for Water & Sewage Works. Her areas of special expertise include waste surveys, treatment plant troubleshooting, new plant start-up, radioactive waste monitoring, and personnel training.