

## • Local Section News

### Northeast Section

Members and associates of the Northeast section will convene in Philadelphia on October 28, 1969. The place of gathering will be at the Franklin Motor Inn at the intersection of Benjamin Franklin Parkway and 22nd Street. The social hour will start at 6:00 P.M. and the dinner is scheduled for 6:45 P.M.

The Chairman of the meeting, Glen Jacobson, informs us that the after dinner lecture on High Speed Liquid Chromatography will be presented to the members in the form of a discussion between John West, Product Manager for Waters Associates, Inc., and W. C. Deans, Product Manager of Liquid Chromatography for Dupont Instruments. Both speakers are recognized leaders in recent advances in fast liquid chromatography. The merits of low pressure techniques versus high pressure column chromatography will be explored. We expect a large turnout from members and their friends.

### North Central Section

The North Central Section held its first meeting of the season, on September 17, 1969, at the Swedish Club of Chicago. Eugene Nesom, Division Manager of the Quality Assurance Division at Swift and Company, presented the predinner talk. Mr. Nesom's talk entitled "Use and Misuse of Product Specifications," discussed the various criteria required for setting up product specifications. He critically reviewed a number of quality control techniques customarily used for setting up specifications in the fats and oils business. Mr. Nesom emphasized that quality should not be influenced by the size of the plant or the production volume.

After dinner, the section president, G. C. Rimnae of Kraftco Corp., welcomed the guests to the first meeting. David Erickson of Swift & Co. gave the treasurer's report. An excellent, although quite controversial, film entitled "Eat to Your Heart's Content" was shown. The film, released by the American Heart Association, warns against the excess use of such normally consumed food items as fluid whole milk, ice cream, eggs, butter and high fat-containing meats.

Following the movie, program chairman R. Anderson of Swift & Co. introduced the speaker of the evening, Franklin Schwartz, M.D. Dr. Schwartz commented on the film and gave a quick summary of our present-day knowledge in the field of heart disease and arteriosclerosis. He pointed out that much of the research carried out on arteriosclerosis was not conclusive. According to Dr. Schwartz, more attention should be given to the role that genetics plays in the arteriosclerosis problem. A question and answer period followed the talk, and the meeting was adjourned.

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## • New Products

A new ITLC Kit available from GELMAR INSTRUMENT COMPANY, Ann Arbor, Mich., offers all materials needed to start using the unique instant thin layer chromatography technique. Three types of ITLC media, in  $5 \times 20$  cm strips, are contained in the kit. Most sensitive and versatile is Type SG (silica gel), used for lipids, barbiturates and steroids. Type SA (silicic acid) is the medium for detection of amino acids, sugars, vitamins and thin layer electrophoresis. Other kit items are a one-piece, solvent-resistant plastic chamber, 50 sheets,  $13.6 \times 21.9$  cm, of reusable saturation pads, a 25 ml bottle of chromatography dye and one aerosol spray can of each of four reagents suitable for most clinical laboratory separations. Among the many substances for which ITLC has been used are lipids, amino acids, steroids, toxins, sugars, VMA and nucleic acids. Detailed instructions for sample preparation, detection methods and chromatography are given in the 187 page illustrated book included in the kit. Speed, convenience and ease of handling are among the advantages claimed for ITLC. Preparation of slurries and coating of glass slides are eliminated and superior separations are obtained in less time than is possible by column and paper chromatography.

LKB INSTRUMENTS, INC., announces the introduction of a new variable speed peristaltic pump to its line of laboratory instrumentation. The LKB 12000 Vario Perpex Pump is a continuously adjustable peristaltic pump covering a range of about 2 to 200 ml/hr with the standard gear box provided with the pump. Other pumping ranges are obtainable by the choice of other standard gear boxes available from LKB. In addition to its continuously adjustable feature this new pump has two switch selectable pumping ranges. One range is from 0.8% to 10%, and the other from 8% to 100% of maximum flow rate. The pumping action is also reversible by a switch.

The development of a new pressure reducing regulator series was announced by TESCOM CORPORATION, Fluid Systems Division, Minneapolis, Minn. Designed for gas sampling systems, pressure transfer systems for corrosive gases or liquids, diffusion furnaces, doping modules, crystal growing, chromatography and ammonia plants, this series is ideally suited for low to medium flow applications of highly corrosive media. The 26-1500 series corrosion resistant regulator may be equipped with an optional preset relief valve with provisions for capturing and venting away the relief fluids.

A new programming unit, the Programmer 300, has been developed by CARLO ERBA S.p.A., Milan, in order to coordinate the automatism assembled on a laboratory gas chromatograph, such as sample injection, column switching valves, attenuator of the detector output signal. The Programmer 300 has five independent useful channels, each regulating the preset operation time. The total analytical time is preset by means of synchronous motors, a wide range of which are available for analysis time from 1 to 60 min per cycle. For more information contact: Carlo Erba S.p.A., Scientific Instruments Division, Via C. Imbonati 24, 20159 Milano, Italy.

A low cost method of ensuring accurate quantitative control of sample streaking for thin layer, preparative layer and paper chromatography has been developed by SHANDON SCIENTIFIC COMPANY, Sewickley, Pa. The new Shandon Sample Streaker after Bacon enables untrained personnel to apply thin, unbroken sample streaks precisely positioned, quantitatively uniform throughout their length, and highly reproducible. Two models are available, one for use with Agla micrometer syringes, and the other for hypodermic or microliter syringes. Each consists of a trackboard with two guide rails, a baseplate with attachments to retain the syringe, and an appropriate syringe drive unit. Conversion kits are also available to enable either model to be used with both types of syringes.

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## F. P. Khym Succeeds J. G. Gibson at Anderson, Clayton & Co.

J. G. Gibson ('28) retired August 1, 1969 from Anderson, Clayton & Co. after 42 years of service with the company in positions of major responsibility, first in Abilene, Texas, followed by transfers to Brazil, Argentina, Paraguay and Mexico. During the last five years, he has been the Manager of the Foods Division's largest industrial unit, the Leona Plant near Monterrey in the state of Nuevo Leon, Mexico.



F. P. Khym (Left) presenting J. G. Gibson with a symbolic silver tray at a banquet held in his honor.

F. P. Khym ('44) has been appointed to succeed Mr. Gibson as Manager of the Leona Plant. Mr. Khym, who joined Anderson, Clayton & Co.'s Finished Products Department, Houston, Texas in 1946, has been Production Manager at the Monterrey, Mexico Plant. He is a past president of the AOCS Monterrey Local Section and was General Chairman of the First Latin American Short Course.

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A microdensitometer which reads mass spectrometer plates at speeds of up to 40 measurements per second, depending upon the densities being scanned, has been linked by a British company to a digital computer which automatically selects the relevant details for analysis. The AutoDensiDater Type CC Mk II will considerably increase the speed and accuracy of analysis, according to the manufacturer, JOYCE LOEBL AND CO. LTD., New York, and is expected to be particularly useful in the chemical and petrochemical industries and in laboratories using mass spectrometers. The usual method of measuring density distributors is manual, from a graphic recording, which takes much longer and may lead to inaccuracies. A typical spectrometer plate contains about 1,400,000 bits of information, of which all but around 4,400 bits are discarded by the computer. These 4,400 are printed or punched out in digital form, providing full information about density distributions on the plate.

PACKARD INSTRUMENT COMPANY, INC., Downers Grove, Ill., has just introduced its Model 300 Tri-Carb sample oxidizer. This new and revolutionary instrument prepares, through oxidation, biological and plant samples for liquid scintillation counting. A new 4 page specification sheet listing the various applications and advantages of this new instrument has just been published. It highlights the benefits of the sample oxidizer which provides the speed of closed system flame combustion, while having the advantages of handling essentially unlimited size of tritium samples.

The HAMILTON COMPANY introduces a new, miniature valve which provides a reliable, inert flow system control for laboratory work and equipment. The body of the new, Model 2X valve is made of Kel-F. It has a Teflon rotor plug that is spring loaded and leak-tight up to 100 psi. It has a sturdy, metal case and an extra-large, easy to turn handle. The Model 2X valve is available in 2, 3, 4 and 5 way configurations with a .090" standard porting diameter.

DIAMOND SHAMROCK CHEMICAL COMPANY recently introduced Duolite CC-3, a high capacity, weak-acid cation-exchange resin containing carboxylic acid groups. In water treatment the outstanding acid efficiency of the resin offers substantial savings in operating costs when used in conjunction with standard deionization systems. In addition to water treatment, Duolite CC-3 can be applied to the recovery of polyvalent metals, the deionization of sugar bearing solutions, antibiotic purification and isolation of basic amino acids. The company has prepared engineering information, including resin properties, characteristic reactions, operating capacity, regeneration dosages and supporting charts. Duolite Tech Sheet No. 180 is available by writing Diamond Shamrock Chemical Company, Redwood City, Calif. 94063.

The Scientific Instruments Division of CARLO ERBA, S.p.A., Milan, Italy, announces a new automatic sampling device for amino acids. The new sampler allows full automatic sample sequential injection. The sample can be cooled in order to preserve the thermo-labile substance; it houses a special 12 sample container.

ELECTRON TECHNOLOGY, INC., Kearny, N.J., has released a new line of increased capacity Helium Diffusion Cells in four standard laboratory models; Model SLM-1A with standard output, SLM-2A with twice standard output, SLM-6A with six times and SLM-8A with eight times standard output. Each unit is equipped with ETI's Model TCR Temperature Controller. All models require no liquid nitrogen and feature continuous purification with outputs exceeding research grade purity. Other advantages include unattended operation, wide operating range, long life and low operating cost.