SYNTHETIC POLYPEPTIDES

Polymers of the following L- α -amino acids are available from stock:

- ALANINE
- β -BENZYL ASPARTATE
- GLUTAMIC ACID, SODIUM SALT
- γ-BENZYL GLUTAMATE
- LEUCINE
- LYSINE HYDROBROMIDE
- «-CARBOBENZOXY LYSINE
- PHENYLALANINE
- TYROSINE
- O-CARBOBENZOXY TYROSINE

In addition to the above, PILOT can synthesize copolymers, special molecular weights and polymers of amino acids having unnatural configuration. Also available from PILOT is Woodward's Reagent K, a new peptide-former. For further information, write to Dept. S-622.



36 Pleasant St., Watertown 72, Mass.

WATER AND AGRICULTURE

A symposium presented at the AAAS Washington Meeting, December 1958. Published June 1960.

Roy D. Hockensmith, Editor 6 x 9, 206 pp., 21 illus., cloth \$5.00 AAAS members' cash orders, \$4.50

CONTENTS

Water for the future: E. A. Ackerman, C. A. Davis, C. B. Brown, and R. L. Nace

Water sources: W. C. Ackermann, H. T. Orville, C. H. M. Van Bavel, and G. L. Barger

Water planning and use: C. H. Wadleigh, H. C. Storey, W. D. Criddle, and W. I. Palmer

Water control: T. W. Edminster, F. L. Timmons, D. L. Klingman, G. E. Harbeck, Jr., and C. B. Tanner

> British agents: Bailey Bros. & Swinfen, Ltd. Warner House, 48 Upper Thames Street London, E.C.4

American Association for the Advancement of Science

1515 Massachusetts Avenue, NW Washington, D.C. 20005



TRI-R

Electronic THERMOMETER

VERSATILE LABORATORY INSTRUMENTS

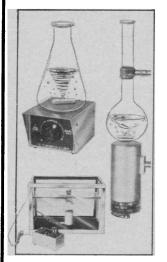
- Rapid, Accurate, Direct Reading
- Low cost, Portable, Thermistor type
- Many Ranges From -35 to +100°C.
- Interchangeable & Special Probes

TISSUE HOMOGENIZERS

- Interchangeable Teflon Pestles
- Precision Bore Pyrex Glass Tubes
- Direct & Flexible Drive Apparatus

TRI-R STIR-R

- Variable Speed Lab. Motor
- For Homogenizing or Stirring
- Adjustable Key Type Chuck



MAGNETIC STIRRERS

- 3 Compact, Cool Running Models
- Lab. Mounting or Bench Top Use
- Stir in Flasks or Test Tubes
- In Open or Closed Vessels
- Stir Under Water

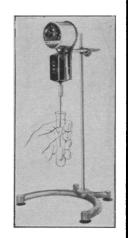
Automatic EGG PUNCH

- For Opening Embryonated Eggs
- Clean 1" Circular Fracture
- One Hand Efficient Operation



Write for individual bulletins or catalog to Dept. \$105

TRI-R INSTRUMENTS, Inc. Developers of Electronic and Mechanical Instruments for Scientific Research 144-13 JAMAICA AVENUE, JAMAICA, N.Y. 11435



INDEX TO ADVERTISERS

The Quest & the Gommitment

The Age of Space is also the Age of Land and Sea. At Lockheed there are no environmental limits to technological exploration and progress. On land: highly advanced vehicle systems for missions of the future. In the sea: deep submersibles to probe the ocean depths. In space: Agena, most versatile vehicle system of the age.

Engineers and scientists are invited to write Mr. K. R. Kiddoo, Professional Placement Manager, Sunnyvale, California. An Equal Opportunity Employer.

LOCKHEED MISSILES & SPACE COMPANY A GROUP DIMINION OF LOCKHEED AIRCRAFT COMPORTION

NEUROPHYSIOLOGIST

An attractive opening exists in our Neurobiology Department for a young Ph.D. with one to three years of post-doctoral experience. Versatility in neurophysiologic experimentation and interest in our complex program encompassing neuropharmacologic and neuroendocrine exploration of CNS drugs is desirable. Main emphasis is on basic research with steroid hormones. Send resume and inquiries in complete confidence to Personnel Department.



3401 Hillview Avenue Palo Alto, California

| Ace Glass Inc. | 246 |
|--|---------------------------|
| Aloe Scientific Alpha Scientific Laboratories, Inc. | 118 |
| Alpha Scientific Laboratories, Inc. | 111 |
| Applied Physics Corp American Optical Co | 231 |
| American Optical Co | 282 139 |
| ANS, Inc. Baird-Atomic, Inc | 139 |
| Baird-Atomic, Inc 144, Bausch & Lomb | 234 |
| B&B Motor & Control Corp. | 232 |
| Beckman Instruments, Inc. | 232 |
| Bel-Art Products | 270 |
| Blue M Corp. | 263 |
| Brinkmann Instruments, Inc. | 249 |
| Bronwill Scientific, Div. of Will Scientific, Inc. | 235 |
| | 235 244 |
| Cahn Instrument Co. Cambridge Crystals, Div. of | 244 |
| Cambridge Crystals, Div. of Cambridge Thermionic Corp. | 239 |
| Chemical Rubber Co. | 244 |
| Clav-Adams | 103 |
| Coleman Instruments Corp. | 102 |
| Coors Porcelain Co. | 236 |
| Corning Glass Works | 132 |
| Denominator Co., Inc. | 252 |
| Digital Equipment Co. | 122 |
| Dimco-Gray Co. | 252 |
| Economics Laboratory, Inc. E-C Apparatus Corp. 239, 255, 262, | 105 274 |
| E-C Apparatus Corp. 239, 255, 262, Edmund Scientific Co. | 248 |
| E & M Instrument Co., Inc. | 261 |
| Federal Pacific Electric Co. | 235 |
| Fish-Schurman Corp. | 2 53 261 |
| Fisher Scientific Co. | 245 |
| F & M Scientific Corp. | 133 |
| | 256 |
| Gelber Pump Co. Gencom Div., Whittaker Corp. | 236 |
| Gilford Instrument Laboratories Inc. | 112 |
| Hacker, William J., & Co., Inc. | 241 |
| Hamilton Co., Inc. | 253 |
| Hamner Electronics Co., Inc. | 272 |
| Harvard Apparatus Co., Inc. | 275 276 |
| Herner and Co. Hewlett-Packard, Mechrolab Div. | 119 |
| Hewlett-Packard, Sanborn Div. | 98 |
| Hoke Inc. | 269 |
| Honeywell Research Center | 134 |
| Hyland Laboratories | 233 |
| Industrial Instruments Inc. | 260 |
| Instrument Society of America | 271 |
| International Equipment Co. 130, | 261 |
| JEOLCO (U.S.A.), Inc. 242, | |
| Kewaunee Mfg. Co. | 241 |
| Kirschner Manufacturing Co. | 265 251 |
| Klett Manufacturing Co., Inc. | |
| Labindustries | 268 239 |
| Laboratory Construction Co. | 271 |
| Leitz. E., Inc. | 146 |
| LKB Instruments, Inc | 128 |
| London Co. | 136 |
| Macalaster Scientific Corp. | 257 |
| Manostat Corp. | 254 |
| Mark Co. | 256 |
| Maryland Plastics, Inc., | 251 |
| Econo-Lab Div. Matheson, Coleman and Bell, | 1 د س |
| Div. of Matheson Co. 104, 143, | 230 |
| Matheson Scientific | 250 |
| Mechanical Enterprises, Inc. | 232 |
| Mercer Glass Works Inc. | 275 91 |
| Mettler Instrument Corp. | 21 |

MicroTek Instruments, Inc. 129 Millipore Filter Corp. 240 Mistaire Laboratories 257 Nalge Co., Inc. 272 National Instrument Laboratories, Inc. 264 New Brunswick Scientific Co., Inc. 269 Nikon Inc., Instrument Div. 110 Nuclear Data Inc. 109 Ohaus Scale Corp. 101 Ohio Chemical Co. 247 Owens-Illinois 123 Oxford University Press 238, 254 Pace Engineering Co. 257 Parr Instrument Co. 240 Percival Refrigeration and Manufacturing Co. 265 Perkin-Elmer Corp. 117 Pharmacia Fine Chemicals Inc. 138 Philips Electronic Instruments 114 Phipps & Bird, Inc. 249 Phoenix Precision Instrument Co. 274 Photovolt Corp. 240 Picker Nuclear 124 Pilot Chemicals, Inc. 277 Precision Scientific Co. 116 Prentice-Hall 266 Professional Tape Co., Inc. 232 **Radiation Instrument Development** Laboratory 90 Radiochemical Centre 263 Reeve Angel 99 Revco Inc. 251 Rosenthal, Paul 97 Sargent, E. H., & Co. 133 Savant Instruments, Inc. 266 Scientific Glass Apparatus Co., Inc. 267 Sherer-Gillet Co. 233 Sigmamotor Inc. 252 Sobotka, Eric 265 Sorensen 100 Sorvall, Ivan, Inc. 108 Statham Instruments, Inc... 96 Stoelting, C. H., Co. 262 Systron Donner Corp. 121 Technicon Chromatography Corp. 95 Technical Measurement Corp. 148 Tekrtronix, Inc. 237 Texas Instruments Inc. 120 Thermolyne Corp. 238 Thermoplastic Processes, Inc. 230 Tri-R Instruments, Inc. 277 Tropel, Inc. 256 Ultra-Violet Products, Inc. 264 Unifab Cages 252 Union Carbide Corp., Linde Div. 127 137 Unitron Instrument Co. Vanguard Instrument Corp. 131 Varian Associates 113, 281 Victoreen Instrument Co. 135 Waring Products Co., Div. of Dynamics Corp. of America 140 Welch Scientific Co. 256 White, S. S., Co., Industrial Div. 273 Wild Heerbrugg Instruments, Inc. 259 Wiley, John, & Sons, Inc. 106, 107 Wilkens-Anderson Co. 125, 126 Will Scientific, Inc. Williams & Wilkins Co. 270 258 Worthington Biochemical Corp. 271 Yellow Springs Instrument Co. ... 258

SCIENCE, VOL. 150

PERSONNEL PLACEMENT

POSITIONS WANTED

Bio-organic Chemist. D.Sc. Male. Over 50. Seeks administrative, research, teaching position. Special interest in endocrinology, lipid and intermediate metabolism in arteriosclerosis, diabetes, cancer, human reproduction, and mental disease. Will establish facilities and train personnel. Box 250, SCIENCE. X

Business Administrator available. Science-oriented executive seeks challenge in university, medical college, or research organization. Significant back-ground in hospital, medical college, government, and industry. Am effective in administration, systems, and procedures, new construction, grant administration, personnel. Box 249, SCIENCE. 10/8 10/8

Editor, management and creative experience, seeks change. Worked in physical sciences, member AAAS and professional societies; 40; about \$15,000. Box 252, SCIENCE. 10/22

General Mammalian Physiologist, Ph.D. NIH post-doctoral fellow with teaching experience de-sires academic appointment allowing sufficient time to continue organized research program on the physiology of ovulation. Prefer western loca-tion. Lawrence Espey, Department of Physiology, University of Michigan, Ann Arbor 48014. Microbiologist, B.S., Male, over 10 years' exper-ience in public health seeks challenging position in laboratory or related field. Box 253, SCIin lab ENCE

Microbiologist, Ph.D., 1962. Microbial physiology and metabolism. Publications, teaching/research and contract research experience. Teaching/re-search position desired. Box 254, SCIENCE. 10/15 (a) Microbiology Ph.D.; pediatrics-infectious dis-ease postdoctoral research; seeks clinical or aca-demic position; (b) Biochemistry Ph.D.; 7 years' faculty leading university, heart research; avail-able for academic or research appointment. Write Woodward Medical Personnel Bureau, 185 North Wabash, Chicago 60601. X

(a) Ph.D. Anatomy (embryology, neuroanatomy); research, teaching experience; prefers academic appointment. (b) Ph.D. Biochemistry (organic chemistry minor); research, clinical, teaching ex-perience; desires West Coast. (c) M.S. Animal Ecology; biology teaching, research experience; seeks assignment in/near Ph.D.-granting institu-tion. Please write SCIENCE SERVICE, The Medical Bureau, Inc., 900 North Michigan Ave-nue, Chicago, Illinois 60611.

POSITIONS OPEN

POSITIONS OPEN Fisheries Research Board of Canada RESEARCH SCIENTISTS IN STATISTICAL ECOLOGY Applications are invited for positions as senior research scientists (biology, statistics, mathe-matics) in research laboratory being developed in the Halifax area of Nova Scotia to study mechanisms underlying natural marine production. Main program will be to outline the distribution, abundance, population dynamics, and trophic re-lations of major populations of pelagic and benthic fish species and to discover the biological basis for the observed relationship. Demonstrated ability for independent research and previous supervisory experience essential. Salary will be up to \$12,000 (Canadian) per year, depending on qualifications, with higher salaries in exceptional cases. Usual Canadian Government superannua-tion and other benefits available. Further en-quiries should be sent to: The Director Fisheries Research Board of Canada Atlantic Occeanographic Group Bedford Institute of Oceanography Box 1006 Dartmouth, N.S., Canada

Neuropharmacologist for The Merck Institute for Therapeutic Research in West Point, Pennsylvania (sub-urban Philadelphia). We invite you to take part in the develop-ment and application of neuropharmaco-logic and neurochemical approaches to the study of agents acting on the central nerv-ous system. To effectively contribute to such a program, qualified candidates must have a Ph.D. with up to 5 years experi-ence. ence. Please forward your resume and curriculum vitae to: Stanley R. Sawczuk Employment Supervisor Merck & Co., Inc. Rahway, New Jersey ME



POSITIONS OPEN

POSITIONS OPEN PHARMACOLOGIST— PHYSIOLOGIST Expanding activities have created the need for several Ph.D.'s in Pharmacology or Physiology with strong interests in participating in research programs leading to the development of new analgetics as well as agents influencing the cardio-vascular, nervous, gastrointestinal, and respiratory systems. Applicants receiving their degree in the coming year who plan to select a permanent posi-tion within the next 6 months will be given very serious consideration. Some experience and inter-est in basic biochemical procedures relating to the analysis of body fluids and tissues is preferred but not an absolute requirement. Please send résumé including a description of related experience and graduate courses to: Cruss M. Greenberg, Ph.D., Director of Scientific Em-ployment, SMITH KLINE & FRENCH LABO-RATORIES, 1594 Spring Garded Street, Philadelphia, Pa. 19101 An equal opportunity employer



Ph.D. or experienced M.S. in preclinical medical sciences to assist in preparing preclinical and clinical evaluation protocols, in pharmacological and toxicological evaluations of metabolic and pathological data, and in review and preparation of such data for I.N.D. and N.D.A. submission to the F.D.A. on chemicals, cosmetics and drugs. Send detailed resume to Personnel Director

GILLETTE MEDICAL RESEARCH INSTITUTE

A Subsidiary of The Gillette Company Dept. ME-2 6221 North Capitol Street, N.E. Washington, D. C. 20011

POSITIONS OPEN

SCIENTISTS

required by public health laboratory

Ottawa

Canada's Laboratory of Hygiene conducts research in public health and as a national reference centre provides highly skilled professional services to hospitals, research institutes and provincial departments of health.

Scientists interested in

Virology

Bacteriology

Zoonoses

Biologics Control

Clinical Chemistry

should send resumes to the Technical and Scientific Requirements Group, Civil Service Commission of Canada, Ottawa 4, Ontario, quoting file reference 65-1350E.

BACTERIOLOGIST

W^e are currently seeking a Ph.D. who can accept the challenge of combining technical knowledge with managerial ability. Individual selected will assume highly responsible position in Quality Control. This position requires a Ph.D. in a biological science and 3-5 years of Tissue Culture experience obtained in a commercial laboratory or research institute. Course work or experience in virology also helpful. In addition to excellent growth opportunity, we offer an attractive salary and an exceptionally liberal benefits program including stock purchase and educational assistance.

To explore the areas of your interest in confidence, please send resume to:

MR. GORDON L. GERHARD ----- Employment Supervisor



MERCK SHARP & DOHME DIVISION OF MERCK & CO., INC.

WEST POINT, PA. A suburb of Philadelphia

An Equal Opportunity Employer Under Title VII---Civil Rights Act of 1964

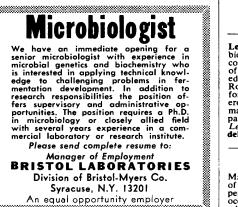
POSITIONS OPEN

(a) **Biochemist** direct dept 20 people, teach; admin. ability; 300-bed hosp bldg, 200-bed annex; MidW; \$15,000-\$20,000. (b) **Chief Microbiologist** large univ hosp; E: \$15,000-\$16,400. (c) **Physi-ologist**, human environmental effects, aerospace research; MidW; \$14,000-\$17,000. (d) **Microbiol-gist**, evaluate treatment agents for infections, direct dept; large drug mfr; MidW; \$14,000. Write Woodward Med. Pers. Bureau, 185 N. Wabash, Chicago 60601. Professional Placement Services for 69 Years

Chief, Bureau of Research in Higher and Pro-fessional Education. Opening in New York State Education Department in Albany for educa-tional research worker to direct the department's research projects and studies in higher and profressional education. Applicants for this posi-tion should have a doctoral degree and ap-propriate and extensive experience in higher education research which involved independent responsibilities for difficult and complex projects. Salary range \$13.170 to \$15,625 with appoint-ment possible above the minimum salary level. Excellent noncontributory retirement plan, pro-fessional development leave programs, health insurance and other fringe benefits. Send detailed résumé to:

Bureau of Personnel State Education Department Albany, New York 12224 10/8, 15

Albany, New York 12224 10/8, 15 Director—Product Development and Market Research. We seek a creative person to direct our product devel-opment and market research program. This is a new department. Therefore, person selected must perform in the following broad areas with only nominal supervision: New product planning conception Market Planning and Research Development of pricing recommendations Preparation of technical material for advertising and sales promotion. A qualified applicant should have a degree in Chemistry. Biology or a related discipline plus about five years experience in some aspect of the hospital, medical or industrial laboratory glassware. Please submit a resume in sufficient detail to justify an interview at our expense. Reply in confidence to: Mr. Edward G. Perkins, President Pieffer Glass Inc. 140 Bennington Drive Rochester, New York 14616



Ph.D. Electron Microscopist preferably familiar with viral work, for staff position open 1 No-vember in a new, completely equipped, hospital research institute, southern Vermont. Salary to \$10,000. New JEM 7. Beautiful surroundings, ex-cellent staff. Near six colleges. Write for details to: Dr. Helene W. Toolon Director

Dr. Helene W. Toolan, Director Putnam Memorial Hospital Institute for Medical Research Bennington, Vermont 05201

Requirement for Cancer Chemotherapy Project Leaders. Outstanding research opportunities with an unlimited future. Pharmacologist, Ph.D. with considerable experience in metabolism, distribu-tion and toxicity of drugs in large animals. Im-munologist, Ph.D., with excellent research back-ground to initiate studies in relation to immuno-therapy of neoplasia. Reply with complete résumé, recent publications, and salary requirements to Microbiological Associates, Inc., 4813 Bethesda Avenue, Washington 14, D.C. An equal opportunity employer

An equal opportunity employer (a) M.S./Ph.D. Physiologist, endocrine training; research; eastern university. (b) Ph.D. Micro-biologist/Virologist; pathogenic virus research; central university. (c) Health Physicist, safety officer; southeastern university. (d) Ph.D. Clinical Biochemist, isotope experience; northwest labo-ratory. (e) Ph.D. Immunochemistry Director, clinical, protein training. (f) B.S. Analytical Chemist, quality control; east. (g) Pharmacology Faculty Appointment, associate or full professor; mideast university. Write Science Service, The Medical Bureau, 900 North Michigan Avenue, Chicago, Illinois.

POSITIONS OPEN

Director. Division of Teacher Education and Certifica-tion. Opening in New York State Education Department in Albany for Director to manage the Division's ac-tivities relating to the registration of teacher education programs in colleges and universities, establishment and revision of teacher certification standards and directing a program of continuous registration of teachers. Appli-cants should have a doctoral degree and appropriate and extensive professional experience in institutions offering the bachelor's or higher degrees. Salary range \$15,420 to \$18,140, with appointment possible above the minimum professional development leave program, health insurance and other fringe benefits. Send detailed resume by No-vember 10 to. Bureau of Personnel, State Education Department, Albany New York 12224 (An Equal Opportunity Employer)

ENVIRONMENTAL PHYSIOLOGIST

ENVIRONMENTAL PHYSIOLOGIST Challenging research position in environmental physiology and human engineering as related to the improvement of naval textiles, clothing, and life support systems. B.S. minimum with experi-ence in human physiology or animal physiology as related to humans required. Salary to \$8,650 commensurate with experience and education. This position is in the competitive career federal civil service. Submit résumé to Administrative Division, U.S. Naval Supply Research and De-velopment Facility, U.S. Naval Supply Center, Bayonne, New Jersey. 10/8, 15

IMMUNOLOGIST

Opportunity for Ph.D. Immunologist, A knowledge of parasitology is desirable. Challenging work with emphasis on problems of major helminth and protozoan diseases. Send résumé in confidence to:

> Industrial Relations Dept. **Pitman-Moore Division** The Dow Chemical Company P.O. Box 1656 Indianapolis, Indiana 46206

An equal opportunity employer

Lea & Febiger, Publishers in medicine and the biological sciences, is looking for a personable college graduate, age 23 to 35, with knowledge of medical or biological sciences to fill college editorial position. Territory available is east of Rocky Mountains, and exact states are open for discussion. Liberal travel allowance and gen-erous fringe benefits Position includes securing manuscripts and teacher contacts. Write full particulars, including salary expected, to F. C. Lea, Jr., 600 South Washington Square, Phila-delphia, Pennsylvania 19106. 10/8, 15

MARINE BIOLOGIST-OCEANOGRAPHER

Marine Biologist-Oceanographer with knowledge of commercial fishing methods and deep-sea ex-perience to head a new biological division of oceanography company. An imaginative manager with science background and international out-look is required.

(M.S. Degree)

Excellent opportunity for capable individual interested in developing industrial hygiene pro-gram and quantitative instrumentation techniques in the modern progressive public health labora-tory, Milwaukee City Health Department.

Salary, \$6,429-\$7,663. Liberal fringe benefits in-clude Social Security and city annuity retirement, sick and annual leave, paid hospital, medical plan, and group life insurance. Excellent oppor-tunity for advancement.

Application to: E. R. Krumbiegel, M.D., Com-missioner of Health, Municipal Bidg,-Room 112, 841 N. Broadway, Milwaukee, Wisconsin 53202

FELLOWSHIPS

Traineeships for Graduate Work in Pharmacology. A 4-year program of course work and research training leading to the Ph.D. degree is offered. Research in fundamental mechanisms of drug Action. Starting annual stipend \$2400 plus tuition action. Starting annual stipend \$2400 plus tuition and \$500 per dependent. Early application for September 1966 strongly advised. Write Depart-ment of Pharmacology, School of Medicine, State University of New York at Buffalo, 122 Capen Hall, Buffalo, N.Y. 14214.

The Market Place

BOOKS • SERVICES • SUPPLIES • FOURPMENT

BOOKS AND MAGAZINES



Your book can be published, promoted, distrib-uted by a reliable company on a subsidized basis. Fiction, non-fiction, poetry, scholarly, sci-entific and even controversial manuscripts wel-comed. For Free Booklet write Vantage Press, Dept. SC, 120 W. 31 St., New York 10001.

WRITER N. Y. publisher wants books on all subjects, fiction, nonfiction. No fee for professional opinion. FREE: Brochures that show how your book can be published, publicized, seld; tips and article reprints on writing, publishing, contracts. Write Dept. 751 **EXPOSITION** 366 Park Ave. So.. N.Y. 16

SUPPLIES AND EQUIPMENT 攔扣

.

HYPOPHYSECTOMIZED RATS Shipped to all points via Air Express For further information write HORMONE ASSAY LABORATORIES, Inc. 8159 South Spaulding Ave., Chicago 29, III.

1919 - 1965 LaMotte Chemical Chestertown, Maryland, U.S.A. Specialists in **Colorimetric Techniques Reagents-Standards-Comparators** Send for illustrated Controls Handbook Dept. H



for best results try our

OPERATING TABLES

for small animals For Illustrated Literature

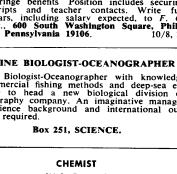
Write to:

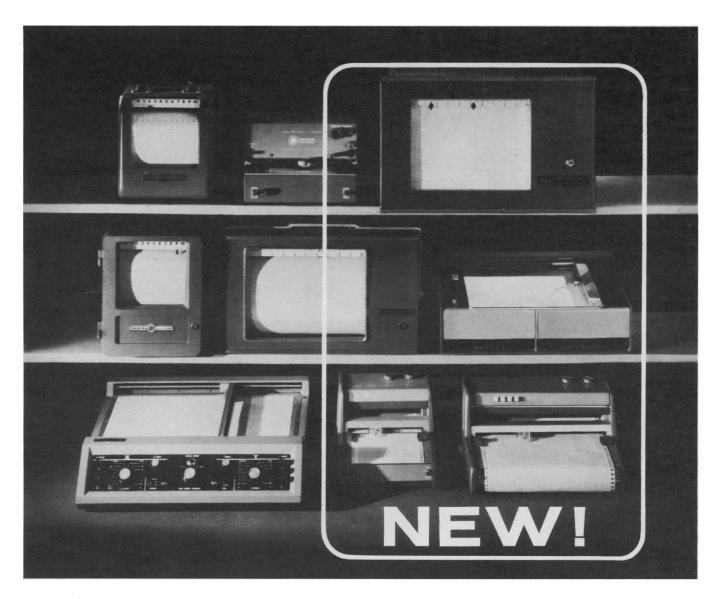
BROOKLINE SURGICAL SPECIALTIES

P.O. Box 118, Brookline 46, Mass., U.S.A.

SCIENCE, VOL. 150

280





VARIAN BUILDS RECORDERS THE WAY YOU WANT THEM

We've always made good recorders. Now we make more of them. In fact, our line has grown to 24 basic models, with a wide range of options and accessories for each of them, so you can choose the recorder that's exactly right for the job.

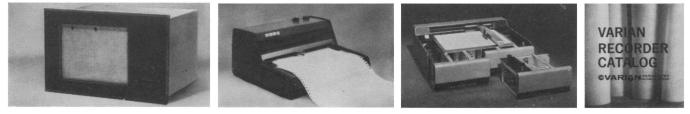
What else is new? Dozens of things. New features. New accessories. Even new prices. For example, we added a dual channel model—the G-42—to our popular G-40 series of 10-inch strip chart recorders. We have a new 5-inch chart series—the G-14A—with three models, and a companion desk-top series—the G-15 —with three 10-inch chart models.

Interested in X-Y recorders? Our F-70 and F-80 series

give you a wide variety of X-Y recorders with your choice of numerous options. We've also developed the new F-50—a unique modular design that provides tremendous versatility at low cost.

We'd like to send you our new catalog. Write now for your free copy. It's only 8 pages long, but it lists our complete line of recorders. And don't let all the numbers throw you. When you're thinking about buying a recorder, there's only one thing to remember: Varian.







Direct determinations of solution concentrations ... with a single drop of sample!



Optional Illuminated Table Stand provides utmost convenience for laboratory applications.

* The new Goldberg Refractometer and its use as a "concentrimeter" were developed in cooperation with Dr. A. V. Wolf, Head of the Dept. of Physiology, University of Illinois, College of Medicine. **Countless Applications:** The new Model 10402 Goldberg T/C^* Refractometer can be used as a "concentrimeter" to check and adjust concentrations of laboratory reagents and preparations, pharmacy batches and prescriptions. It's an ideal teaching and research tool for chemistry and physics laboratories.

Automatic Temperature Compensation: Unique, hermeticallysealed liquid prism eliminates error due to temperature changes. No water bath or temperature controller needed.

 $Ultra-Micro \ Analysis:$ Small sample needed, no more than 0.02 ml \ldots a single drop of solution.

Instant Readings: Read index of refraction and index of refraction difference direct from built-in double scale.

Accurate: Refractive index scale reads directly to 0.0002, comparable in accuracy to large bench-type Abbe refractometers.

Tables Available: Table of Properties of aqueous solutions related to index of refraction, consisting of 70 common laboratory reagents and other solutions is available from American Optical at \$15.00.

| | SION . BUFFALO, | |
|--------------------------------------|-----------------------|-----------------|
| Dept. V-2 Please send complete in | formation on the Mode | 10402 Goldberg |
| T/C Refractometer. | | i iona Gonaberg |
| Name | | |
| Address | | |
| City | State | Zin |