

1969. xiv + 274 pp., illus. \$25. Ultrasonic Technology.

State Universities and Black Americans. An Inquiry into Desegregation and Equity for Negroes in 100 Public Universities. John Egerton. Southern Education Foundation, Atlanta, Ga., 1969. 96 pp., illus. \$1.

Synthesis of Polymers by Polycondensation. L. B. Sokolov. Translated from the Russian edition (Moscow, 1966) by J. Schmorak. Israel Program for Scientific Translations, Jerusalem; Davey, Hartford, Conn., 1968. x + 260 pp., illus. \$17.50.

Techniques of Metals Research. R. F. Bunshah, Ed. Vol. 2, part 2, Techniques for the Direct Observation of Structure and Imperfections. Interscience (Wiley), New York, 1969. xiv + pp. 501-952 + appendices, illus. \$24.95.

Thesaurus of Textile Terms. Covering Fibrous Materials and Processes. Stanley Backer and Emery I. Valko, Eds. M.I.T. Press, Cambridge, Mass., ed. 2, 1969. xvi + 448 pp. \$25.

Troubleshooters' Handbook for Mechanical Systems. Robert Henderson Emerick. McGraw-Hill, New York, 1969. xvi + 512 pp., illus. \$12.50. McGraw-Hill Handbook Series.

Une Communauté Rurale de l'Irlande. Robert Cresswell. Institut d'Ethnologie, Musée de l'Homme, Paris, 1969. vi + 586 pp., illus. Paper, 100 F. Université de Paris, Travaux et Mémoires de l'Institut d'Ethnologie, No. 74.

Upper Devonian Ostracoda and Eridostraca from the Bonaparte Gulf Basin, Northwestern Australia. P. J. Jones. Bureau of Mineral Resources, Geology and Geophysics, Canberra, Australia, 1968. vi + 112 pp., illus. BMR Bulletin No. 99.

Urban Dynamics. Jay W. Forrester. M.I.T. Press, Cambridge, 1969. xiv + 290 pp., illus. \$12.50.

Vermes. Stephen Prudhoe, Colin G. Ogden, R. W. Sims, E. G. Easton, and S. Ware. Zoological Society of London, 1969. vi + 146 pp. Paper, \$8.40. Zoological Record, vol. 103, section 6, 1966.

Viruses, Vectors, and Vegetation. U.S.-Japan Conference on Interactions between Arthropods and Plant-Pathogenic Viruses, Tokyo, 1965. Karl Maramorosch, Ed. Interscience (Wiley), New York, 1969. xii + 668 pp., illus. \$29.95.

Wallace and Bates in the Tropics. An Introduction to the Theory of Natural Selection. Based on the Writings of Alfred Russel Wallace and Henry Walter Bates. Barbara G. Beddall, Ed. Macmillan, New York; Collier-Macmillan, London, 1969. xii + 244 pp. \$5.95.

Water Supply. Economics, Technology, and Policy. Jack Hirshleifer, James C. De Haven, and Jerome W. Milliman. University of Chicago Press, Chicago, 1969. xiv + 386 pp., illus. \$10. Reprint, with new postscript, of the 1960 edition.

The World of Dragonflies and Damselflies. Ross E. Hutchins. Dodd, Mead, New York, 1969. 128 pp., illus. \$3.75.

Yearbook of International Organizations. The Encyclopaedic Dictionary of International Organizations, Their Officers, Their Abbreviations. 12th (1968-69) edition. Eyvind S. Tew, Ed. Union of International Associations, Brussels, 1969. 1220 pp. \$24.

*Performs
up to* **300**
**ROUTINE ANALYSES
PER HOUR
AUTOMATICALLY**

Programmed to YOUR routine procedures!



**New Lab-Line Automatic
CLINO-MAK**

The versatile Clino-Mak can automate all those clinical colorimetric analyses you're doing manually now. There are Clino-Mak methodologies for the 21 most frequent clinical analyses—or—your own procedures can be adapted. No other automatic analyzer can offer the Clino-Mak's versatility . . . ease . . . low cost!

Mail the coupon today!

See the Clino-Mak at Sept. ASCP Show, Booths 200-201

LAB-LINE
BIOMEDICAL PRODUCTS, Inc.

Division of Lab-Line
Instruments, Inc.

Lab-Line Plaza,
Melrose Park, Ill. 60160

- ☐ Send complete details on Clino-Mak, including leasing costs.
☐ Please call for an appointment to discuss Clino-Mak.

NAME _____

TITLE _____

FIRM/INSTITUTION _____

ADDRESS _____

CITY _____ STATE _____ ZIP _____

Unlimited Volume Syringe Pump



**Pulse-Free
Uniform Flow
Pumps From A Reservoir
Flow Rates Up To 29 ml/min**

Dial any flow rate from 0.007 to 29 ml/min for pulse-free uniform flow. Pumps continuously at precise flow rate desired. Unique design eliminates transients, even from valving. Add small volumes to streams on a continuous basis, or feed samples to analytical instruments. Use in chemistry, tissue culture, bacteriology, pilot plant studies, process applications. Write for complete data — Sage Model 220 Pump. \$985.00

SAGE INSTRUMENTS, INC.

Subsidiary of Orion Research Incorporated
230 Ferris Avenue, White Plains, N.Y. 10603 ■ 914 949-4121

Circle No. 79 on Readers' Service Card

Reprints from Science

The following reprints are now available from AAAS Reprints, 1515 Massachusetts Ave., NW., Washington, D.C. 20005.

- H. J. Brudner, "Computer-Managed Instruction" (29 Nov. 1968), 8 pages
- C. A. Doxiadis, "Man's Movement and His City" (18 Oct. 1968), 12 pages
- M. F. Gilula and D. N. Daniels, "Violence and Man's Struggle To Adapt" (25 Apr. 1969), 12 pages
- G. Hardin, "The Tragedy of the Commons" (13 Dec. 1968), 8 pages
- L. D. Harmon and K. C. Knowlton, "Picture Processing by Computer" (4 Apr. 1969), 12 pages
- L. D. Jaffe, "Surveyor Lunar Landings" (16 May 1969), 16 pages
- R. E. Schultes, "Hallucinogens of Plant Origin" (17 Jan. 1969), 12 pages
- A. T. Weil, N. E. Zinberg, J. M. Nelsen, "Clinical and Psychological Effects of Marihuana in Man" (13 Dec. 1968), 12 pages

Reprints of other articles published since 1 September 1968 can be made available in quantities of 25 or more for classroom use. Identify each article by author, title, page number, and issue date.

Prices and Terms

One reprint—\$1.00

	10 reprints	25 reprints	50 reprints	100 reprints
4 pages	\$4.00	\$ 8.00	\$15.00	\$25.00
8 pages	\$5.00	\$11.00	\$20.00	\$35.00
12 pages	\$5.50	\$13.00	\$25.00	\$45.00
16 pages	\$5.50	\$13.00	\$25.00	\$45.00

Two to nine reprints—60¢ each

Please enclose payment with order. Do not send currency.

Index of Advertisers

Academic Press	1290
American Optical Corp.	1302
Amicon Corp.	1280
Baker, J. T., Chemical Co.	1294
Barnstead Still & Sterilizer Co.	1193, 1194
Barry Controls	1189
Bausch & Lomb,	
Analytical Systems Div.	1205
Beckman Instruments, Inc.,	
Cedar Grove Operations	1201
Beckman Instruments, Inc.,	
Schiller Park Operations	1183
Beckman Instruments, Inc., Scientific	
Instruments Div.	1175, 1176, 1186
Bel-Art Products	1282
Brinkmann Instruments	1184, 1199
Corning Scientific Instruments	1283
Digital Equipment Corp.	1172
E-C Apparatus Corp.	1191
Electronic Associates, Inc.	1185
E & M Instrument Co., Inc.	1178
Esterline Angus,	
Div. of Esterline Corp.	1281
Fabri-Tek Instruments, Inc.	1295
Gencom Div., Varian/EMI	1296
Gilford Instrument Laboratories,	
Inc.	1195
Hamilton Co.	1173
Harvard Apparatus Co., Inc.	1284
Heinecke Instruments Co.	1299
Hewlett-Packard, Avondale Div.	1192
Hewlett-Packard,	
Loveland Div.	1170, 1171
Hewlett-Packard, San Diego Div.	1301
Honeywell Test Instruments Div.	1282
Intertechnique Instruments, Inc.	1197
ISCO	1290
Kay Electric Co.	1190
Klett Manufacturing Co., Inc.	1287
Lab-Line Instruments, Inc.	1297
Labtron Scientific Corp.	1206
Lea & Febiger	1294
Leitz, E., Inc.	1208
LKB Instruments Inc.	1166
London Co.	1179
Matheson Gas Products,	
Div. of Will Ross Inc.	1187
Mettler Instrument Corp.	1289
Milton Roy Co.	1296
Nalgene Labware Div., Nalge Co.,	
Div. of Sybron Corp.	1204
Neslab Instruments, Inc.	1288
New Brunswick Scientific Co., Inc.	1287
Orion Research, Inc.	1184A
Paillard Inc.	1210
Pall Corp.	1287
PhotoMetrics Inc.	1295
Photovolt Corp.	1200
Princeton Applied Research Corp.	1202
Professional Tape Co., Inc.	1281
Quigley Rochester, Inc.	1182, 1206
Ralston Purina	1295
Reeve Angel	1279
Regis Chemical Co.	1289
Saunders, W. B., Co.	1167
Sage Instruments, Inc.	1298
Schwarz BioResearch, Inc.	1177
Scientific Products Div., American	
Hospital Supply Corp.	1198
Sherer-Gillett Co.,	
Environmental Div.	1289
Sigma Chemical Co.	1279
Sobotka, Eric, Co., Inc.	1286
Sorg Paper Co.	1288
Teachers Insurance and	
Annuity Assoc.	1285
Technical Equipment Leasing Corp.	1196
Technicon Corp.	1174
Thermolyne, Sybron Corp.	1207
Thermovac Industries Corp.	1281
Tracerlab, Div. of International	
Nuclear and Chemical Corp.	1284
Varian Techtron	1282A
Western Electric	1180, 1181
Wild Heerbrugg Instruments, Inc.	1291
Yellow Springs Instrument Co.	1286
Zeiss, Carl, Inc.	1188

Personnel Placement

POSITIONS OPEN

ANATOMIST, HISTOCHEMIST, ELECTRON MICROSCOPIST, Ph.D. To supervise Histopathology Laboratory in 800-bed hospital with associated well-equipped Research Institute in New York City. Participation in research program encouraged. Pleasant working conditions, good salary, and fringe benefits.
Box 340, SCIENCE

MANAGEMENT R&D

SALARY TO \$22,000

Positions with major Pharmaceutical company, requires Ph.D. in Science or Engineering.

- **Dir Of Product Development**
Experience in food or Pharmaceutical R & D
- **R & D Managers**
to develop plastic products for hospital use

Send resume in confidence to

Scott, Quinn & Co.

**MANAGEMENT RECRUITMENT CONSULTANTS
PHARMACEUTICAL DIVISION
103 Park Ave., N.Y., N.Y. 10017**

Merck

Sr. Research Microbiologists & Biochemists

Ever think where you will be and what you'll be doing professionally a year from now or five years from now?

While we don't make promises at Merck, we believe the forward looking scientist has a far better chance to achieve his objectives with our diversified and expanding research organization.

If you are seeking a position where your future is limited only by the horizon of your imagination and ability, you are invited to investigate the below listed openings.

MICROBIOLOGIST, OR BIOCHEMIST-PhD,
to investigate oral and dental diseases.

MICROBIAL PHYSIOLOGIST-PhD,
familiar with fermentation techniques.

BIOCHEMISTS-PhD,
to participate in programs to study the biochemistry and physiology of skin; for work on lipid nerve or muscle metabolism.

Your rewards? An excellent starting salary and benefits. The most up-to-date equipment and facilities, PLUS individual recognition and growth opportunity.

Please send confidential resume to D. B. James

Merck & Co., Inc.
Rahway, N. J. 07065
An Equal Opportunity Employer



laboratory
glassware,
surgical
instruments,
tissue culture
glassware,
animal cages,
central
supply washing



They all come
clean in a
Heinicke

Pulsonic
machine!

The All-New Heinicke Pulsonic Washers completely wash, rinse, and final rinse all types of laboratory glassware without hand washing.

Heinicke says "NO" to:

- Hand Washing
- Heavy, awkward spray headers
- Changing spray headers for different types of glassware
- Spray headers requiring excessive storage space

All the operator has to do is load the light, stainless steel baskets and close the door. Pulsating jet streams take over, completing the cleaning process, and yielding consistent results at low initial and operating costs.

Rinsing immediately follows the pulsating wash, eliminating the possibility of contaminants drying or baking on between cycles. Separate plumbing for each cycle eliminates cross contamination.

Look into the patented "Pulsonic" process now. Write to:



heinicke

INSTRUMENTS CO.
P.O. Box DDD
Hollywood, Fla. 33022

MEDICAL SCIENCES REGISTER

The first professionally operated employment communications center for professionals in medicine and medical services.

The Register is operated by a professional team consisting of a practicing M.D. and an Executive Recruiter.

Companies and institutions register their openings with us. Range: \$15,000-\$75,000. Here are two typical positions:

Laboratory Supervisor

For community hospital of 500 beds. Should have experience in all phases of clinical chemistry, including operation and maintenance of automated apparatus. Ample opportunities available for research and teaching. Excellent fringe benefits. Salary commensurate with training and experience.

Biochemist/Pharmacologist

For research and development by pharmaceutical organization. Training in pharmaceuticals, diagnostics, and microanalytical methods preferred. Opportunities available for pursuit of theoretical and applied research interests. Excellent salary, working conditions, and benefits.

We contact registrants whose backgrounds fit the company specifications. You need not read ads once you have registered with us. We'll put you in touch with the employer.

No individual fees—employers pay all fees.

How to register? Just send in your resume, if available, or a letter with your education, position, types of institution, and salary range. That's all there is to it! If you have not yet decided to change your position, but have unanswered career questions, you may write us for answers regarding such matters as: When should I consider a change? What alternate career paths are open to me?

Write M.D., Dept. T-1

MEDICAL SCIENCES REGISTER

Box 68, Scarsdale, N.Y. 10583

BIOCHEMIST OR MICROBIOLOGIST

Recent Ph.D. to participate in productive research concerning bacterial lytic enzymes, cell growth and cell division. Laboratory of Dr. G. D. Shockman. Send résumé to:

J. L. GREENBAUM
DEPT. OF MICROBIOLOGY

TEMPLE UNIVERSITY
SCHOOL OF MEDICINE

Philadelphia, Pa. 19140

ELECTRON MICROSCOPY SPECIALIST

... for Administrative position involving supervision of new electron microscope facility in medical school. To assist with training of graduate students and postdoctoral fellows in basic techniques of electron microscopy of biological materials. College graduate with Science major plus experience in electron microscopy will be considered. A Master's Degree is preferred. Starting salary commensurate with training and experience. Excellent benefits and faculty club privileges. Send complete résumé including salary requirements to:

S-7, P.O. BOX 2069
Philadelphia, Pa. 19103

An Equal Opportunity Employer

NUTRITIONAL RESEARCH

The Mead Johnson Research Center, expanding its preeminent nutritional research, has new openings for scientists at all levels of training and experience. Our Department of Nutritional Research carries out fundamental research on absorption, metabolism and utilization of nutrients, especially as related to nutrition in pregnancy, in growth and development of infants, and in other segments of the population with special metabolic or therapeutic dietary needs. Openings are available for individuals with backgrounds and interests as follows:

Experienced Ph.D. in Nutrition and/or Biochemistry

To plan and direct the basic research and applied nutritional studies of a section of our expanding Nutritional Research Department. Opportunity to collaborate with product development, clinical research and marketing groups—and to work with research management on over-all responsibilities of the nutritional sciences area. This is a position for a leader, and will report directly to the Vice President, Nutritional Sciences Division. At least 10 years of related research experience required.

Recent Ph.D. in Nutrition and/or Biochemistry

To conduct research in important nutritional and biochemical areas and relate findings to human nutritional needs. No post-doctorate experience is required, although the position can prove challenging to someone with a few years of experience.

B.S. or M.S. degree in Chemistry and/or Biological Sciences

To work on nutritional studies involving laboratory animals and related biochemical analyses. Experience helpful, but not required.

These positions offer a stimulating research environment, excellent starting salaries and liberal benefit program, which includes relocation expenses. Please direct resume and inquiries in complete confidence to:

Manager, Executive
Employment

MeadJohnson

Evansville, Indiana 47721

We are an equal opportunity employer.

PROTEIN CHEMIST, Ph.D. or M.D. with experience. To work on isolation and structure of brain proteins. Full-time research position at hospital-affiliated Research Institute in New York City. **SALARY:** Dependent on qualifications. Includes fringe benefits and increments. Send detailed curriculum vitae and references to

Box 335, SCIENCE

RESEARCH ASSISTANT

Bachelors or Masters degree for Research in Microbial physiology and biochemistry. Salary commensurate with experience. Send resume to:

J. L. GREENBAUM
DEPT. OF MICROBIOLOGY

TEMPLE UNIVERSITY
SCHOOL OF MEDICINE

Philadelphia, Pa. 19140

SCIENTIFIC EDITORS

Senior Scientific Editor/Writer required by National Center for Atmospheric Research to prepare for publication a wide range of scientific reports. Work involves close liaison with research scientists and development engineers. Thorough knowledge of basic science essential. Some supervisory experience desirable. Minimum qualifications: B.S. in scientific field plus 2 years' experience in scientific editing and research. Also available: temporary appointment as writer/editor September 1969 through August 1970. Apply **Personnel Office, National Center for Atmospheric Research, Boulder, Colorado 80302.**

(An Equal Opportunity Employer)