

environmental agents"; David L. Coffin, "Interaction of biological and chemical agents on the lung." (Edward D. Palmes, discussion leader): Horace W. Gerarde, "A minimal aural dose (MAD) of etymology."

6 August. (Leon Goldberg, discussion leader): Emil M. Mrak, "Implications for national policy of safety assessment of chemicals."

Forthcoming Events

April

6-8. **Methods in Air Pollution and Industrial Hygiene Studies**, 12th annual, Los Angeles, Calif. (E. Jeung, Air and Industrial Hygiene Lab., California State Dept. of Public Health, 2151 Berkeley Way, Berkeley 94704)

7-9. **Psychometric Soc.**, St. Louis, Mo. (W. B. Schrader, Educational Testing Service, Princeton, N.J. 08540)

10. **Paleontological Research Institution**, Ithaca, N.Y. (K. V. W. Palmer, PRI, 1259 Trumansburg Rd. Ithaca 14850)

12-15. **Air and Stream Improvement**, 6th annual conf., Quebec City, P.Q., Canada, (D. H. Paterson, Canadian Pulp and Paper Assoc., 2300 Sun Life Bldg., Montreal, 110, P.Q., Canada)

12-15. **National Telemetering Conf. and Exposition**, 21st annual, Washington, D.C. (H.B. Riblet, Johns Hopkins Univ., Applied Physics Lab., 8621 Georgia Ave., Silver Spring, Md. 20910)

12-16. **Federation of the American Societies for Experimental Biology**, Chicago, Ill. (J. F. A. McManus, 9650 Rockville Pike, Bethesda, Md. 20014)

12-16. **American Geophysical Union**, 52nd annual, Washington, D.C. (G. D. Mead, Lab. for Space Physics, NASA Goddard Space Flight Center, Greenbelt, Md. 20771)

12-16. **American Assoc. of Immunologists**, Chicago, Ill. (H. Metzger, AAI, 9650 Rockville Pike, Bethesda, Md. 20014)

12-17. **American Soc. for Experimental Pathology**, Chicago, Ill. (R. E. Kuntti, ASEP, 9650 Rockville Pike, Bethesda, Md. 20014)

12-17. **American Inst. of Nutrition**, Chicago, Ill. (J. Waddell, AIN, 9650 Rockville Pike, Bethesda, Md. 20014)

12-17. **American Soc. for Pharmacology and Experimental Therapeutics**, Chicago, Ill. (E. B. Cook, ASPET, 9650 Rockville Pike, Bethesda, Md. 20014)

12-17. **American Physiological Soc.**, Chicago, Ill. (R. G. Daggs, APS, 9650 Rockville Pike, Bethesda, Md. 20014)

13-15. **Frontiers in Education**, Atlanta, Ga. (B. J. Dasher, College of Engineering Georgia Inst. of Technology, Atlanta 30332)

13-15. **National Conf. and Exposition in Medicine**, Boston, Mass. (D. Christensen, Electronics in Medicine P-30, 330 W. 42 St., New York 10036)

13-15. **Microwave Research Inst.**, 21st

We decided to eliminate some limitations of Metallurgical Microscopes.



Now there's the Wild M50

Unprecedented versatility for investigating surface structures in incident light.

The stability to assure vibration-free observation even in photomicrography.

Combine these M50 features with 1. The world's finest optics and mechanical precision.

2. A complete range of accessories for photomicrography, projection, and discussion.

3. Fingertip switching from darkfield to brightfield. 4. Polarizing feature. 5. Inverted construction for all size specimens.

You'll conclude that in Metallurgical Microscopes, there's the Wild M50.

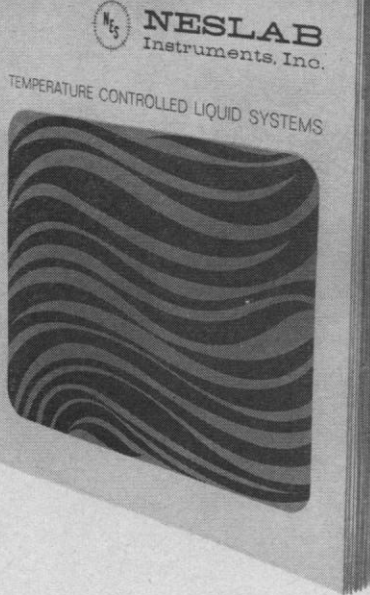
Write or call for Booklet M50.

WILD®
HEERBRUGG

WILD HEERBRUGG INSTRUMENTS, INC.
FARMINGDALE, NEW YORK 11743

Wild of Canada, Ltd.
881 Lady Ellen Place
Ottawa 3, Ontario

Wild de Mexico, SA
Londres 256
Mexico 6, D.F.



NESLAB
Instruments, Inc.
TEMPERATURE CONTROLLED LIQUID SYSTEMS

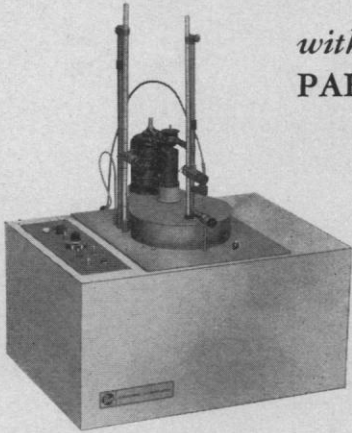
We don't
know all of
you...
but all of you
should know
us!

Write now for our catalog on
Temperature Controlled Liquid Systems!

NESLAB INSTRUMENTS, INC., 871 Islington St., Portsmouth, N. H. 03801

Circle No. 86 on Readers' Service Card

Measure Calories
QUICKLY • ACCURATELY • CONVENIENTLY



*with a fully automatic
PARR® Adiabatic Calorimeter*

*... and a PARR®
Digital Thermometer*



Parr now offers a completely new oxygen bomb calorimeter for measuring the calorific or Btu value of coal, oil, jet fuels, foods and other solid or liquid samples.

A new solid-state automatic temperature controller eliminates all time consuming temperature adjustments, doubles the output and improves the repeatability in calorimetric tests.

A new Parr Digital Thermometer and Printer add speed, convenience and accuracy to any bomb calorimeter by displaying temperatures in bright, easily seen numbers readable to .001° C, and producing a printed record of all readings taken during a calorific test.

Ask for our latest calorimeter catalog.



PARR INSTRUMENT COMPANY
211 Fifty-Third St. Moline, Ill. 61265
Telephone (309) 762-7716

annual intern. symp., New York, N.Y. (J. Fox, Polytechnic Inst. of Brooklyn, 33 Jay St., Brooklyn, N.Y. 11201)

13-16. **International Magnetism Conf.**, 9th annual, Denver, Colo. (G. Bate, IBM Corp., P.O. Box 1900, Boulder, Colo. 80302)

14-16. **American Soc. for Engineering Education**, Southeastern section, Clemson, S.C. (Mrs. L. Hitch, ASEE, Suite 400, 1 Dupont Circle, NW, Washington, D.C. 20036)

14-16. **Institute of Navigation**, natl. air mtg., Saddlebrook, N.J. (C. M. Waespy, ITT Avionics Div., 390 Washington Ave., Nutley, N.J. 07110)

14-16. **National Pollution Control Conf. and Exposition**, 4th annual, Detroit, Mich. (B. Reeves, 1107 S. Loop West, Houston, Tex. 77021)

14-16. **Symposium on Prescribed Burning in Forests of the Southeastern Coastal Plain**, Charleston, S.C. (Director, Southeastern Forest Experiment Station, P.O. Box 2570, Asheville, N.C. 28802)

14-17. **American Gynecological Soc.**, Phoenix, Ariz. (B. M. Peckham, University Hospital, 1300 University Ave., Madison, Wis. 53706)

15-17. **Symposium on Application of Artificial Satellites to Geodesy**, Washington, D.C. (W. M. Hollister, Massachusetts Inst. of Technology, Room 406, Bldg. 33, Cambridge 02139)

15-17. **Association of Southeastern Biologists**, Richmond, Va. (D. C. Bliss, Box 278, Randolph-Macon Woman's College, Lynchburg, Va. 24504)

15-17. **American Assoc. of Physical Anthropologists**, Boston, Mass. (E. L. Fry, Dept. of Anthropology, Southern Methodist University, Dallas, Tex. 75222)

15-17. **Eastern Psychological Assoc.**, New York, N.Y. (W. W. Cumming, 353 Schermerhorn Hall, Columbia Univ., New York 10027)

15-17. **Joint meeting of Northwest Scientific Assoc., Idaho Acad. of Science, and Washington State Entomological Soc.**, Moscow, Idaho. (L. W. Roberts, Dept. of Biological Sciences, Univ. of Idaho, Moscow 83843)

15-21. **American Leprosy Missions**, 12th annual, Carville, La. (O. W. Haselblad, 297 Park Ave., South, New York 10010)

16. **"Behavior" Symp.**, Fullerton, Calif. (L. A. Stevens, Life Science Symp., Fullerton Junior College, 321 E. Chapman Ave., Fullerton 92634)

16-17. **Idaho Acad. of Science**, Moscow, Idaho. (M. A. Fisher, Dept. of Physics and Mathematics, College of Southern Idaho, Twin Falls)

16-17. **American Burn Assoc.**, San Antonio, Tex. (J. A. Bostwick, Jr., 1825 W. Harrison St., Chicago, Ill. 60612)

16-17. **American Soc. for Engineering Education**, North Central section, Pittsburgh, Pa. (L. Hitch, ASEE, Suite 400, 1 Dupont Circle, NW, Washington, D.C. 20036)

16-17. **Northwest Scientific Assoc.**, Moscow, Idaho. (G. H. Deitschman, U.S. Forest Service, P.O. Box 469, Moscow 83843)

16-17. **American Assoc. of University Professors**, Philadelphia, Pa. (B. H. Davis, AAUP, 1785 Massachusetts Ave., NW, Washington, D.C. 20036)

18-19. **Montana Acad. of Sciences**,

Accurate Within $\pm 1\%$



HOLTER™ Precision Roller Pumps

Designed for versatility and accurate flow rates, the Holter RL175 Roller Pump offers virtually non-pulsatile performance and a wide range of flow rates—all in one compact unit.

Flow rates can be varied from .2–2500 cc/hr, with rates adjusted precisely and easily—and maintained within $\pm 1\%$. Two separate channels permit pumping of two dissimilar fluids simultaneously, at the same or different flow rates, depending on pumping chamber selection.

Unique design features include: silicone pumping chambers which maintain accuracy and elasticity for their full pumping life of up to 2,000 hours; no fluid flow when pump is turned off; solid state circuitry for reliability. Pump may be operated in refrigerated areas and is gas sterilizable.

Typical uses include:

- ☐ Liquid Chromatography
- ☐ Bio-medical Applications
- ☐ Organ Perfusion
- ☐ Pharmacological Research
- ☐ Precipitation Analysis
- ☐ Solubility Determination
- ☐ Food and Chemical Processing
- ☐ Water Pollution Monitoring

For further information, call or write:

EXTRACORPOREAL MEDICAL SPECIALTIES, INC.
Church Road, Mt. Laurel Township, N.J. 08057 (609) 235-7530



Circle No. 82 on Readers' Service Card

Butte. (R. E. Juday, Univ. of Montana, Missoula 59801)

18–21. **Diesel and Gas Engine Power Conf. and Exhibit**, American Soc. of Mechanical Engineers, Toronto, Ont., Canada. (A. B. Conlin, 345 E. 47 St., New York 10017)

18–21. **Association of American Geographers**, Boston, Mass. (J. W. Nystrom, AAG, 1146 16th St., NW, Washington, D.C. 20036)

18–21. **Neutron Sources and Application**, Augusta, Ga. (C. Ice, Savannah River Lab., Aiken, S.C. 29801)

18–21. **Off-Shore Technology Conf.** Houston, Tex. (H. S. Field, Geophysical Research Corp., 136 Mohawk Blvd., Tulsa, Okla. 74106)

18–21. **International Systems Meeting**, Chicago, Ill. (R. L. Irwin, Systems and Procedures Assoc., 24587 Bagley Rd., Cleveland, Ohio 44138)

18–22. **American Assoc. of Cereal Chemists**, Dallas, Tex. (R. J. Tarleton, 1821 University Ave., St. Paul, Minn. 55104)

18–22. **Illinois Acad of General Practice**, 23rd annual, Arlington Park. (H. M. Robinson, 14 E. Jackson Blvd., Chicago, Ill. 60604)

18–22. **Industrial Medical Assoc.**, Atlanta, Ga. (H. N. Schulz, IMA, 150 N. Wacker Dr., Chicago, Ill. 60606)

18–22. **American Assoc. of Neurological Surgeons**, 38th annual, Houston, Tex. (M. I. O'Connor, AANS, 428 E. Preston St., Baltimore, Md. 21202)

18–23. **American Assoc. of Anatomists**, 84th annual, Philadelphia, Pa. (J. C. Finerty, Louisiana State Univ. School of Medicine, 1542 Tulane Ave., New Orleans)

18–23. **Geoscience Electronics Symp.**, Inst. of Electrical and Electronics Engineers, Inc., Washington, D.C. (Office of the Technical Activities Board, IEEE, 345 E. 47 St., New York 10017)

18–23. **Society of Photographic Science and Engineering**, Chicago, Ill. (R. A. Eynard, SPSE, P.O. Box 2001, Teterboro, N.J. 07608)

18–24. **Council for Exceptional Children**, 49th annual, Miami Beach, Fla. (A. Gialas, CEC, 1411 S. Jefferson Davis Hwy., Arlington, Va. 20036)

18–25. **North American Clinical Dermatologic Soc.**, Ocho Rios, Jamaica. (E. F. Finnerty, 510 Commonwealth Ave., Boston, Mass. 02215)

19–20. **American Soc. for Artificial Internal Organs**, Chicago, Ill. (E. F. Leonard, Dept. of Chemical Engineering, Columbia Univ., New York 10027)

19–20. **Symposium on Excited States of Matter**, Lubbock, Tex. (J. N. Marx, Dept. of Chemistry, Texas Technological Univ., P.O. Box 4260, Lubbock 79409)

19–20. **Institute of Electrical and Electronics Engineers, Power Conditioning Specialists Conf.**, 2nd annual, Pasadena, Calif. (J. Dunlop, COMSAT Laboratories, Box 115, Clarksburg, Md. 20734)

19–20. **American Social Health Assoc.**, Detroit, Mich. (E. G. Lippincott, 1740 Broadway, New York 10019)

19–21. **Great Lakes Research**, 14th annual conf., Toronto, Ont., Canada. (J. S. Seddon, Great Lakes Inst., Univ. of Toronto, Toronto 5)

19–21. **Ocean Technology and Re-**

search, Houston, Tex. (P. Drummond, American Soc. of Mechanical Engineers, 345 E. 47 St., New York 10017)

19–21. **National Open Hearth and Basic Oxygen Steel Conf.** American Inst. of Mining, Metallurgical and Petroleum Engineers, 54th, Pittsburgh, Pa. (Meetings Officer, 345 E. 47 St., New York 10017)

19–21. **Railroad Conf.**, Inst. of Electrical and Electronics Engineers, Inc., and American Soc. for Mechanical Engineers, New York, N.Y. (Meetings Officers, 345 E. 47 St., New York 10017)

19–21. **Structural Dynamics, and Materials**, 12th annual symp., American Inst. of Aeronautics and Astronautics and American Soc. of Mechanical Engineers, Anaheim, Calif. (A. E. Johnson, Jr., Tele-dyne Materials Research, 303 Bear Hill Rd., Waltham, Mass. 02154)

19–22. **Southeastern Surgical Congr.**, Miami Beach, Fla. (A. H. Letton, SSC, 340 Boulevard, NE, Atlanta, Ga. 30312)

19–22. **Southwestern Surgical Congr.**, Las Vegas, Nev. (J. A. Barney, SSC, 301 Pasteur Bldg., Oklahoma City, Okla. 73103)

19–23. **Space Congr.**, Canaveral Council of Technical Soc., 8th annual, Cocoa Beach, Fla. (N. A. Stein, McDonnell Douglas Astronautics Co., Box 600, Titusville, Fla. 32780)

19–23. **Structural Engineering**, American Soc. of Civil Engineers, Baltimore, Md. (W. H. Wisely, 345 E. 47 St., New York 10017)

20–21. **Electric Process Heating in Industry**, Milwaukee, Wis. (F. Pycroft, Philadelphia Electric Co., 211 S. Broad St., Philadelphia 19105)

20–21. **Association for the Advancement of Psychoanalysis**, New York, N.Y. (A. Apolito, 80 Undercliff Rd., Montclair, N.J. 07042)

20–21. **Institute of Electrical and Electronics Engineers, Inc.—American Soc. of Technical Engineers joint Railroad Conf.**, New York, N.Y. (F. Farinella, Public Service Electric & Gas Co., Room 8339, 80 Park Pl., Newark, N.J. 07011)

20–22. **Composite Materials: Testing and Design**, 2nd annual conf., American Soc. for Testing and Materials, Anaheim, Calif. (H. T. Corten, Talbot Lab., Univ. of Illinois, Urbana 61801)

20–22. **Power Conf.**, Inst. of Electrical and Electronics Engineers, Inc., and American Soc. of Mechanical Engineers, Chicago, Ill. (Office of The Technical Activities Board, IEEE, 345 E. 47 St., New York 10017)

20–23. **Acoustical Soc. of America**, Washington, D.C. (B. H. Goodfriend, ASA, 335 E. 45 St., New York 10017)

21–23. **Society of Aerospace Material and Process Engineers**, 16th annual, Anaheim, Calif. (J. E. Gott, 1519 Padres Court, San Jose, Calif. 95125)

21–23. **Biometric Soc.**, eastern North American regional, University Park, Pa. (F. B. Cady, Jr., Dept. of Statistics, Univ. of Kentucky, Lexington 40506)

21–23. **Nondestructive Evaluation in Aerospace, Weapons Systems, and Nuclear Applications**, 8th annual symp., San Antonio, Tex. (C. G. Gardner, P.O. Drawer 28510, San Antonio 78228)

21–23. **Conference of the Soc. of Photographic Scientists and Engineers**, Chicago,

Ill. (C. S. Heinmiller, Research Lab. Bldg. 81, Kodak Park, Eastman Kodak Co., Rochester, N.Y. 14650)

21-23. **Technical Conf.**, Waynesboro, Va. (L. Rebenfield, P.O. Box 625, Princeton, N.J. 08540)

21-23. **Symposium on Testing for Prediction of Material Performance in Structures and Components**, Anaheim, Calif. (R. S. Shane, Natl. Materials Advisory Board, Natl. Academy of Sciences, 2101 Constitution Ave., NW, Washington, D.C. 20418)

21-24. **Southwestern and Rocky Mountain Div., AAAS**, Tempe, Ariz. (M. G. Anderson, P.O. Box 3 AF, Las Cruces, N.M. 88001)

21-1. **Society of Motion Picture and Television Engineers**, 109th annual, Los Angeles, Calif. (M. Denison, 9 E. 41 St., New York 10017)

22-23. **Fiber Soc.**, annual spring technical conf., Chattanooga, Tenn. (L. Rebenfield, Box 625, Princeton, N.J.)

22-23. **American Pediatric Surgical Assoc.**, Hamilton, Bermuda. (T. M. Holder, 39th and Rainbow, Kansas City, Kan. 66103)

22-23. **American Assoc. of Railway Surgeons**, Chicago, Ill. (C. Y. Werelius, 5800 Stony Island Ave., Chicago 60637)

22-24. **Illinois State Acad. of Science**, Peoria. (K. H. Harmet, Dept. of Biology Sciences, Northern Illinois Univ., De Kalb 60115)

22-24. **American Cleft Palate Assoc.**, Pittsburgh, Pa. (K. R. Bzoch, Dept. of

Communicative Disorders, College of Health Related Professions, University of Florida, Gainesville 32601)

22-24. **International Communication Assoc.**, 19th annual, Phoenix, Ariz. (R. L. Smith, Dept. of Communication and Organizational Behavior, General Materials Inst., Flint, Mich. 48502)

22-24. **Michigan Acad. of Science, Arts and Letters**, Kalamazoo. (T. G. Overmire, 2117 Washtenaw Ave., Ann Arbor, Mich. 48104)

22-24. **Ohio Acad. of Science**, Akron. (J. H. Melvin, OAS, 505 King Ave., Columbus 43201)

22-24. **Population Assoc. of America**, Washington, D.C. (A. L. Ferriss, P.O. Box 14182, Benjamin Franklin Sta., Washington, D.C. 20044)

22-25. **Association of Clinical Scientists**, spring mtg., Hartford, Conn. (F. W. Sunderman, ACS, 2 Holcomb St., Hartford 06112)

22-24. **Georgia Acad. of Science**, Carrollton. (E. A. Stanley, Dept. of Geology, Univ. of Georgia, Athens 30601)

23-24. **Iowa Acad. of Science**, Dubuque. (R. W. Hanson, Dept. of Chemistry, Univ. of Northern Iowa, Cedar Falls 50613)

23-24. **Louisiana Acad. of Sciences**, Natchitoches. (G. W. Cobb, Dept. of Biological Sciences, McNeese State Univ., Lake Charles 70601)

23-24. **Mississippi Acad. of Sciences**, Hattiesburg. (C. Q. Sheely, Drawer CQ, State College, Miss. 39762)

23-24. **South Dakota Acad. of Science**,

Rapid City. (W. L. Hoffman, Physics Dept., Univ. of South Dakota, Vermillion 57069)

23-24. **Society for Development Biology**, Midwest regional conf., Elmhurst, Ill. (R. Sweeney, Dept. of Biology, Elmhurst College, Elmhurst 60126)

23-24. **American Soc. for Engineering Education**, Rocky Mountain Section, Laramie, Wyo. (L. Hitch, ASEE, Suite 400, 1 DuPont Circle, NW, Washington, D.C. 20036)

23-24. **American Geriatrics Soc.**, Chicago, Ill. (E. Henderson, 10 Columbus Circle, New York, N.Y. 10019)

23-25. **Association of Clinical Scientists**, Hartford, Conn. (F. W. Sunderman, Univ. of Connecticut School of Medicine, 2 Holcomb St., Hartford 06112)

24-29. **American Ceramic Soc.**, 73rd annual mtg. and exposition, Chicago, Ill. (A. J. Metzger, Dept. of Ceramic Engineering, Ohio State Univ., 2401 N. College Rd., Columbus 43210)

25-28. **Society for Economic Botany**, Chicago, Ill. (L. Williams, New Crops Research Branch, U.S. Dept. of Agriculture, Beltsville, Md. 20705)

26-27. **Western States Section, Combustion Inst.**, spring mtg. Denver, Colo. (W. Unterberg, Western States Sec, Combustion Inst., 13433 Galewood St., Sherman Oaks, Calif. 91403)

26-28. **National Acad. of Sciences**, Washington, D.C. (B. Byers, NAS-NRC, 2101 Constitution Ave., NW, Washington, D.C. 20418)

Sub-Arctic Biological FREEZERS

-73, -80, -87, -90, -101, -112, -131, -151 °C.

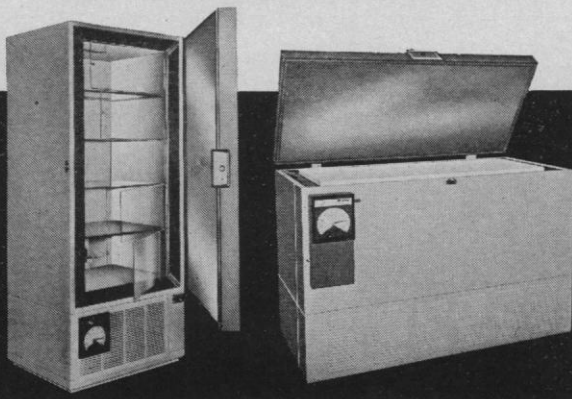
- Sizes: 7.4, 12 and 15 cubic foot.
- All stainless steel interiors standard.
- Maximum cooling output, excellent control, gradient and reliability.
- Fully hermetic refrigeration systems, thousands in use.

Write or Call for Details



Relialab
by **Tenney**
ENGINEERING, INC.

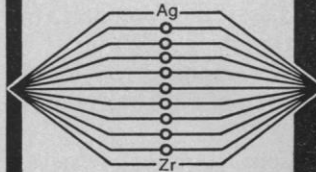
1090 Springfield Road, Union, N.J. 07083 • 201-686-7870
Western Division: 15721 Texaco St., Paramount, Calif. 90723
Oldest and largest manufacturer of environmental equipment



Circle No. 105 on Readers' Service Card

ORIGINAL HANAU

tomorrow's designs today

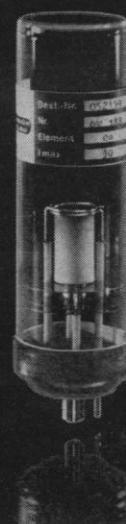


Outstanding for highest intensity of spectral lines, absence of background noise, excellent stability, long life. 47 different elements.

Also Deuterium Lamps, Mercury Vapor Lamps and Power Supplies.

And the most complete line of Spectrophotometer Cells: Standard, Flow-through, Constant-temperature, Anaerobic and Special Designs.

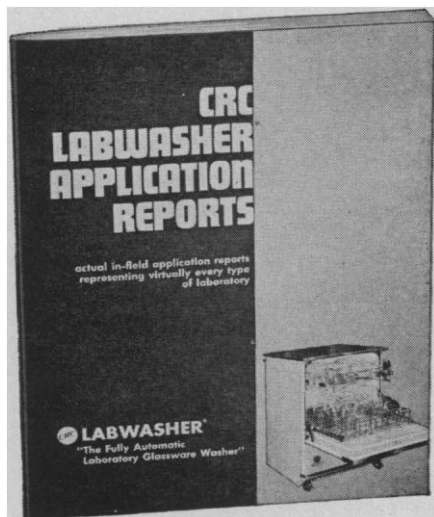
HELLMA
CELLS, INC.



Write for literature
Box 544
Borough Hall Station
Jamaica, New York 11424
Phone (212) 544-9534

Circle No. 100 on Readers' Service Card

FREE



PROFITABLE READING...

Forty-eight different laboratories report "in-use" experience with automatic glassware washing and drying systems. This invaluable compilation presents application data in compact outline format and is available *free of charge* to all laboratory personnel.

Type of laboratory, location, number of personnel served, average number of pieces washed daily, operating procedure, and general comment, are given in these application reports.

This information passes along time-saving and money-saving ideas that can solve all kinds of laboratory glassware cleaning problems. A handy index lists usage reports alphabetically, by both type of laboratory and name of user. A special report describes successful results of the Veterans Administration's official 90-day evaluation test and lists some of the many U.S. Governmental Agencies using CRC Labwashers.

You will profit by reading this valuable new report. Send for this free booklet. We'll include full descriptive literature on our Labwasher models.

A-13



THE **CHEMICAL RUBBER CO.**
18901 Cranwood Parkway
Cleveland, Ohio

Circle No. 88 on Readers' Service Card

26-28. **Frequency Control**, 25th annual symp., Atlantic City, N.J. (J. M. Stanley, Dept. of the Army, Headquarters U.S.A., Electronics Command, Fort Monmouth, N.J. 07703)

26-28. **Association of Iron and Steel Engineers**, spring conf., Cincinnati, Ohio. (W. C. Friesel, AISE, 1010 Empire Bldg., Pittsburgh, Pa. 15222)

26-28. **Canadian Inst. of Mining and Metallurgy**, 73rd annual, Quebec City, P.Q. (G. F. Skilling, 906-117, St. Catherine St., W, Montreal 2, P.Q., Canada)

26-28. **Radio Technical Commission for Marine Services**, Montreal, P.Q., Canada. (RTMCS Secretariat, P.O. Box 19087, Washington, D.C. 20036)

26-28. **Thermophysics**, 6th annual conf., American Inst. of Aeronautics and Astronautics, Tullahoma, Tenn. (E. Fried, General Electric Co., P.O. Box 8555, Philadelphia, Pa. 19101)

26-28. **American Assoc. for Thoracic Surgery**, Atlanta, Ga. (A. Hanvey, 7710 Carondelet Ave., St. Louis, Mo. 63105)

26-29. **Aerospace Medical Assoc.**, Houston, Tex. (M. H. Goodwin, Aerospace Medical Assoc., Washington National Airport, Washington, D.C. 20001)

26-29. **Society of Automotive Engineers**, air transportation mtg., New York, N.Y. (W. I. Marble, 2 Pennsylvania Pl., New York 10001)

26-29. **Civil Aviation Medical Assoc.**, Houston, Tex. (G. E. Henning, International Airport, San Antonio, Tex. 78216)

26-29. **Conference on the Management of Transmission and Distribution Systems**, London, England. (Inst. of Electrical and Electronics Engineers, Inc., Savoy Place, London W.C.2)

26-30. **Institute of Environmental Sciences**, 17th annual, Los Angeles, Calif. (R. T. Nichols, IES, 940 E. Northwest Hwy., Mount Prospect, Ill. 60056)

26-30. **Society of Manufacturing Engineers**, Philadelphia, Pa. (R. W. Taylor, SME, 20501 Ford Rd., Dearborn, Mich. 48128)

26-30. **Association for Research in Vision and Ophthalmology**, Sarasota, Fla. (H. E. Kaufman, Dept. of Ophthalmology, Univ. of Florida, College of Medicine, Gainesville 32601)

26-30. **American Welding Soc.**, San Francisco, Calif. (Meetings Officer, 345 E. 47 St., New York 10017)

26-1. **American Acad. of Neurology**, New York, N.Y. (S. A. Nelson, AAN, 4005 W. 65 St., Minneapolis, Minn. 55435)

27-28. **National Relay Conf.**, 19th annual, Stillwater, Okla. (D. D. Lingelbach, School of Electrical Engineering, Oklahoma State Univ., Stillwater)

27-30. **American Chemical Soc.**, Div. of Rubber Chemistry, 99th annual, Miami, Fla. (F. M. O'Connor, Harwick Standard Chemical Co., 60 S. Seiberling St., Akron, Ohio 44305)

27-30. **American College Health Assoc.**, San Francisco, Calif. (J. W. Dilley, 2807 Central St., Evanston, Ill. 60201)

28. **Habitability in Space Stations**, Aerospace Medical Assoc. and American Inst. of Aeronautics and Astronautics, Houston, Tex. [C. C. Johnson, Spacecraft Design Office (EW) NASA Manned Spacecraft Center, Houston 77058]

28-1. **Geology of Industrial Minerals**,

NEW LABELLED AMINO ACIDS

The following labelled amino acids are now available from stock. This unique group of new products reflects Amersham/Searle's unequalled selection of radiochemicals for research.

S-Adenosyl-L-methionine(carboxyl-C14)

Order No.: CFA-477

Specific Activity: >45mCi/mmol

Prices: 10uCi...\$45 50uCi...\$175

4-Amino-n-butyric acid-C14(U)

Order No.: CFB-148

Specific Activity: 4-6mCi/mmol

Order No.: CFB-151

Specific Activity: >150mCi/mmol

Prices: 50uCi...\$30 0.25mCi...\$110

L-Arginine-5-H3 monohydrochloride

Order No.: TRK-368

Specific Activity: >5,000mCi/mmol

Order No.: TRA-368

Specific Activity: 100-500mCi/mmol

Prices: 0.25mCi...\$40
1mCi...\$100 5mCi...\$300

DL-Carnitine(methyl-C14) hydrochloride

Order No.: CFA-475

Specific Activity: >45mCi/mmol

Prices: 50uCi...\$75 0.25mCi...\$290

L-Cystathionine-S35

Order No.: SJ-200

Specific Activity: 1-50mCi/mmol

Prices: 1mCi...\$375 then \$75/mCi

L-3(3,4-Dihydroxyphenyl)alanine-1-C14

Order No.: CFA-473

Specific Activity: 1-5mCi/mmol

Prices: 50uCi...\$140 2x50uCi...\$275

(Glycyl-1-C14)glycine hydrochloride

Order No.: CFA-478

Specific Activity: 10-20mCi/mmol

Prices: 50uCi...\$45 0.5mCi...\$300

L-Methionine-S35

Order No.: SJ-204

Specific Activity: 5,000-20,000mCi/mmol

Prices: 0.5mCi...\$70 1mCi...\$95
5mCi...\$250

L-Valine-2, 3-H3

Order No.: TRK-327

Specific Activity: >10,000mCi/mmol

Order No.: TRA-327

Specific Activity: 500-2000mCi/mmol

Prices: 0.25mCi...\$20
1mCi...\$50 5mCi...\$150

OUR SPECIFIC ACTIVITY IS SERVICE



Amersham/Searle

AMERSHAM / SEARLE CORPORATION:
An Activity of G. D. Searle & Co. and the Radiochemical Centre

2636 S. Clearbrook Drive
Arlington Heights, Illinois 60005

Telex: 72-6444

Telephone: (312) 593-6300

Circle No. 93 on Readers' Service Card

7th annual, Tampa, Fla. (H. S. Puri, Board of Conservation, Geology Div., Box 631, Tallahassee, Fla. 32302)

28-1. Society of **Pediatric Research**, Atlantic City, N.J. (R. E. Greenberg, Dept. of Pediatrics, Stanford Univ. School of Medicine, Stanford, Calif. 94305)

29-30. **Kansas Acad. of Science**, Manhattan. (J. Weis, Div. of Biology, Kansas State Univ. Manhattan 66502)

29-1. Southwestern **Anthropological Assoc.** and the **American Ethnological Soc.** Tucson, Ariz. (P. Nash, AES Program, 540 N St., SW, Washington, D.C. 20024)

29-1. **Geological Soc. of America**. Northcentral section, Lincoln, Neb. (F. Handy, GSA, P.O. Box 1719, Boulder, Colo. 80302)

29-1. American Assoc. for the **History of Medicine**, Colorado Springs, Colo. (C. W. Bodemer, Dept. of Biomedical History, Univ. of Washington, School of Medicine, Seattle 98105)

29-2. International Soc. for the **History of the Behavioral and Social Sciences**, New York, N.Y. (J. Sullivan, Dept. of Educational Psychology, 933 Commerce, New York Univ., New York 10003)

29-3. American **Psychoanalytic Assoc.**, Washington, D.C. (B. E. Moore, APA, 150 E. 73 St., New York, 10021)

30. **Oklahoma Acad. of Science**, Broken Bow. (J. T. Self, Dept. of Zoology, Oklahoma Univ., Norman 73069)

30-1. **Minnesota Acad. of Science**, Winona. (M. I. Harrigan, MAS, 3100 38th Ave., S. Minneapolis, Minn. 55406)

30-1. **Nebraska Acad. of Science**, Lincoln. (C. B. Schultz, 101 Morrill Hall, University Museum, Univ. of Nebraska, Lincoln 68508)

30-1. **North Carolina Acad. of Science**, Winston-Salem. (J. A. Yarbrough, Meredith College, Raleigh, N.C. 27602)

30-1. **North Dakota Acad. of Sciences**, Fargo. (B. G. Gustafson, Univ. of North Dakota, Grand Forks 58201)

30-2. Society of **Biological Psychiatry**, Washington, D.C. (C. Shagass, Eastern Pennsylvania Psychiatric Inst., Henry Ave. and Abbottsford Rd., Philadelphia 19129)

30-2. American Acad. of **Psychoanalysis**, Washington, D.C. (J. B. Miller, 510 E. 86 St., New York 10028)

May

1. **Arctic Inst. of North America**, Montreal, P.Q., Canada. (H. W. Love, AINA, 3458 Redpath St., Montreal)

1. American Soc. for **Clinical Nutrition**, Atlantic City, N.J. (C. E. Butterworth, Univ. of Alabama School of Medicine, Birmingham 35233)

1. Society for **Investigative Dermatology**, Atlantic City, N.J. (J. S. Strauss, Boston Univ. Medical Center, 80 E. Concord St., Boston, Mass. 02118)

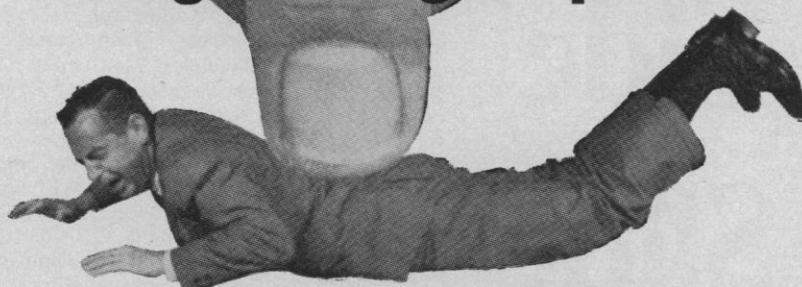
1. American College of **Psychiatrists**, Washington, D.C. (P. A. Martin, 857 Fisher Bldg., Detroit, Mich. 48202)

1-2. American Federation for **Clinical Research**, Atlantic City, N.J. (J. E. Bryan, 2011 Eye St., NW, Washington, D.C. 20006)

2-4. American Soc. for **Clinical Investigations**, Atlantic City, N.J. (D. H. Nelson, Latter-Day Saints Hospital, Salt Lake City, Utah 84103)

12 MARCH 1971

Feeling the budget squeeze?



Take new Heath Spectrophotometry for fast, fast relief

These are trying times... especially if you're squeezed between a shrinking budget and expanding equipment requirements. But now there's hope for the most beleaguered... a new, low cost series of Heath modules designed for special industrial, quality control and research use. It offers the same exceptional accuracy & repeatability as our famous "701" system, plus easy user modification. Choose only the modules that suit your requirements... and get a research-quality single beam UV or VIS-near IR system on a budget that even Scrooge would ok.

UV Light Source Modules. The EU-701-91 D; Light Source, in conjunction with the EU-45A Power Supply, produces high, constant intensity radiation between 1800 and 4500 Å; optical output stability 0.1%. Mechanical adjustments for precise alignment. Excellent source for high-precision UV spectrophotometry & kinetic studies.

EU-701-91, 3 lbs.\$195.00*
EU-45A, 9 lbs.\$100.00*

Visible Near IR Light Source Modules. The EU-701-90 Tungsten Light Source and its power supply, the EU-44A, provides constant intensity radiation from 3500 Å to 2 microns. Narrow bands can be maintained to $\pm 0.1\%$ for long periods. Horizontal & vertical adjustments. Excellent for kinetic studies and ordinary absorption measurements.

EU-701-90, 3 lbs.\$70.00*
EU-44A, 7 lbs.\$70.00*

EU-701-92 Sample Cell Modules. Removable self-aligning cell holder accepts two 1-cm cells. Unique baffle design... light leakage guaranteed less than 1% of photodetector dark current. Readily modified; filter holder & aperture plate included.

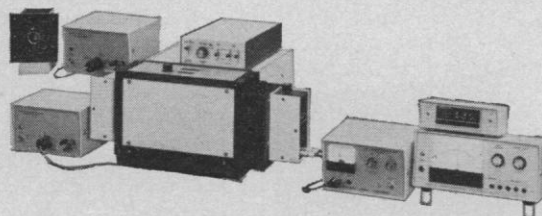
EU-701-92, 4 lbs.\$75.00*

PM Modules... EU-701-93 PM Housing and EU-42A HV power supply. Supplied with a selected 1P28A tube; others can be used. External programming, 20:1 to 100:1 ratio.

EU-701-93, 4 lbs.\$100.00*
EU-42A, 8 lbs.\$130.00*

EU-700 Scanning Monochromator. Precision Czerny-Turner optics, 350 mm, f/7. 1180 lines/mm grating. Digital remote scanning, 9 fixed rates to 20 Å/sec. Resolves to better than 1 Å; tracks within ± 1 Å. 70 lbs.\$1275.00*

Choice of readout. Options available include the EU-703-31 Photometric Meter Readout, EU-700-62 Photometric Digital Readout, EU-201V Multi-speed Log/Linear Recorder or EU-20V Multi-speed Servo Chart Recorder.



FREE

1971 Heath Scientific Instrumentation Catalog

Describes these and hundreds of other factory assembled instruments and systems... modular digital systems and plug-in logic circuit cards, spectroscopy systems and modules, Heath/Malmstadt-Enke laboratory and instruments, Heath test equipment and much more. Send coupon now or write:

Heath Company
Benton Harbor, Mich. 49022

HEATH COMPANY, Dept. 560-19
Benton Harbor, Michigan 49022

 **HEATH**
a Schlumberger company

☐ Please send free Heath Scientific Instrumentation Catalog

Name _____

Address _____

City _____

State _____

Zip _____

*Mail order prices; FOB factory.

Prices & specifications subject to change without notice.

EK-295

Circle No. 35 on Readers' Service Card

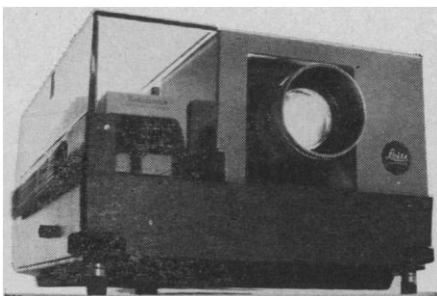
1069

Side -by- Side Slide -by- Slide

No other projector performs like the Pradovit® Color slide projector...because it's the only projector built like a Leica®.

You can count on the Pradovit to give back *exactly* what you put in ...brightly, brilliantly, honestly. Made with the same precise and meticulous care that has earned Leica its coveted reputation, the Pradovit stands alone as the only projector built like a fine camera.

See your slides in an entirely new light...your Leica specialist has one ready for you.



*Leitz®
Leica®*

E. LEITZ, INC. Rockleigh, N.J. 07647

121271

Circle No. 81 on Readers' Service Card

1070

2-6. American Oil Chemists Soc., Houston, Tex. (C. H. Hauber, AOCS, 35 E. Wacker Dr., Chicago, Ill. 60601)

2-6. American Assoc. of **Orthodontists**, 71st annual, New Orleans, La. (J. E. Brophy, AAO, 7477 Delmar Blvd., St. Louis, Mo. 63137)

2-7. Western Conf. on **Anesthesiology**, biennial mtg., Honolulu, Hawaii. (E. E. Smith, 2270 Kalahaua Ave., Honolulu 96815)

2-7. American Soc. for **Microbiology**, Minneapolis, Minn. (R. W. Sarber, ASM, 1913 I St., NW, Washington, D.C. 20006)

3-4. **Environmental Requirements for Laboratory Animals**, Manhattan, Kan. (Dr. Besch, Kansas State Univ., Dept. of Physiological Sciences, Leasure Hall, Manhattan 66502)

3-4. Symposium on **Metabolic Regulation**, Omaha, Neb. (M. A. Mehlman, Univ. of Nebraska College of Medicine, 42nd and Dewey, Omaha)

3-5. Rocky Mountain **Bioengineering** Symp., 8th annual, Fort Collins, Colo. (F. J. Gowen, U.S. Air Force Academy, Boulder, Colo. 80840)

3-5. Association for **Computing Machinery**, Symp. on Theory of Computing, 3rd annual, Shaker Heights, Ohio. (P. M. Lewis, General Electric Research and Advanced Development Center, Schenectady, N.Y. 12305)

3-5. Institute of **Mechanical Engineers**, intern. conf. on practical application of fracture mechanics to pressure vessel technology, London, England. (IME, 1 Birdcage Walk, Westminster, London, S.W.1)

3-5. Symposium on **Nonlinear Functional Analysis**, Madison, Wis. (E. H. Zarantonello, Mathematical Research Center, Univ. of Wisconsin, Madison 53706)

3-6. **Computer-Aided Design Symp.**, 3rd annual, Newport Beach, Calif. (C. J. Mauck, Sandia Corp., Div. 8175, P.O. Box 969, Livermore, Calif. 94550)

3-6. Institute of **Electrical and Electronics Engineers**, industrial and commercial power systems and electrical space heating and air conditioning, joint technical conf., Detroit, Mich. (Technical Activity Board, 345 E. 47 St., New York 10017)

3-6. American Soc. of **Lubrication Engineers**, Boston, Mass. (Meetings Officer, 838 Busse Hwy., Park Ridge, Ill. 60068)

3-7. International Symp. on **Man-Made Lakes, Their Problems and Environmental Effects**, Knoxville, Tenn. (W. C. Ackermann, Scientific Committee on Water Research, Illinois State Water Survey, Box 232, Urbana 61801)

3-7. American College of **Obstetricians and Gynecologists**, San Francisco, Calif. (M. Newton, 79 W. Monroe St., Chicago, Ill. 60603)

3-7. American **Psychiatric** Assoc., Washington, D.C. (B. W. Hogan, APA, 1700 18th St., NW, Washington, D.C. 20009)

4-5. **Appliance Technical** Conf., 22nd annual, Chicago, Ill. (S. Mazzoni, Underwriters Laboratories, Inc., 207 E. Ohio St., Chicago, Ill. 60611)

4-6. **Industrial Waste** Conf., 26th annual, Lafayette, Ind. (D. E. Bloodgood, Sanitary Engineering Dept., Purdue Univ. School of Civil Engineering, Lafayette 47907)

4-6. Society for **Information Display**,

intern symp., Philadelphia, Pa. (R. Glusick, General Electric Co., Electronics Park 3-252, Syracuse, N.Y. 13201)

4-8. Student American **Medical** Assoc., St. Louis, Mo. (C. Hewitt, SAMA, 2635 Flossmoor Rd., Flossmoor, Ill. 60422)

5-6. American Soc. of **Mechanical Engineers**, textile engineering conf., Auburn, Ala. (A. B. Conlin, ASME, 345 E. 47 St., New York 10017)

5-7. **Chemical Marketing Research** Assoc., New York, N.Y. (C. W. Slade, Jr., MRA, 100 Church St., New York 10007)

5-7. International Symp. on **Growth Hormone**, 2nd annual, Milan, Italy. (E. Trabucchi, Dept. of Pharmacology, School of Medicine, University of Milan, Milan)

5-7. **Operations Research** Soc. of America, 39th annual, Dallas, Tex. (H. J. Greenberg, Computer Science/Operations Research Center, Inst. of Technology, Southern Methodist Univ., Dallas 75222)

5-8. **Geological** Soc. of America, southeastern section, Blacksburg, Va. (F. Whitmore, Jr., U.S. Geological Survey, E-501 Natl. Museum, Washington, D.C. 20242)

5-8. Royal Soc. for the **Prevention of Accidents**, natl. industrial safety study conf. and trade exhibition, Scarborough, England. (G. W. Drewitt, Conf. Officer, RSPA, Terminal House, 52 Grosvenor Gardens, London, S.W.1, England)

5-9. Florida **Medical** Assoc., Bal Harbour. (W. H. Parham, FMA, 735 Riverside Ave., Jacksonville, Fla. 32203)

6-7. Canadian **Aeronautics and Space** Inst., Montreal. (Secretary, CASI, 77 Metcalfe St., Ottawa 4, Ont., Canada)

6-7. National **Information Retrieval** Colloquium, Philadelphia, Pa. (D. King, Graduate School of Library Services, Rutgers State Univ., New Brunswick, N.J. 08903)

6-8. Mid-Central States **Orthopaedic** Soc., Colorado Springs, Colo. (P. Lovan, 14 Douglas Pkwy., Wichita, Kan. 67206)

6-8. **Midwestern Psychological** Assoc., Detroit, Mich. (W. Hill, Dept. of Psychology, Northwestern University, Evanston, Ill.)

7-8. Red Cross Scientific Symp. of the American Natl. Red Cross on **Glycoproteins of Blood Cells and Plasma**, Washington, D.C. (G. A. Jamieson, American Natl. Red Cross, Blood Research Lab., 9312 Old Georgetown Rd., Bethesda, Md. 20014)

7-9. Pennsylvania Soc. of **Anesthesiologists**, Lancaster. (L. J. Hampton, 300 Highland Ave., Hanover, Pa. 17331)

7-9. Society of American **Archaeology**, Norman, Okla. (T. P. Culbert, Dept. of Anthropology, Univ. of Arizona, Tucson 85721)

8-11. German **Roentgen** Congr., 50th annual, Stuttgart. (Postanschrift, Deutsche Röntgengesellschaft, Konzerthaus, Stuttgarter Liederhalle, 7, Stuttgart N, Berliner Platz)

9-12. Symposium on **Measurements in Fluid Dynamics**, Pittsburgh, Pa. (H. E. Weber, Pennsylvania State Univ., Gulph and Hendersons Rds., King of Prussia, Pa. 19406)

9-12. **Neurosurgical** Soc. of America, Sea Island, Ga. (W. F. Collins, Jr., 789 Howard Ave., New Haven, Conn. 06510)

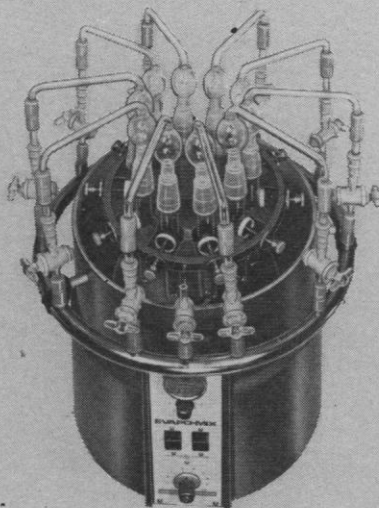
9-13. **Radiation Research** Soc., 19th

for Simultaneous Concentration or Evaporation
of Ten Samples in 10 to 20 Minutes

ROTARY EVAPO-MIX

For the evaporation of multiple samples of solutions, the Buchler Rotary Evapo-Mix is indispensable. It evaporates directly from test tubes or centrifuge tubes and is suitable for evaporation of acids, bases and organic solvents. The Rotary Evapo-Mix is equipped with a temperature-controlled water bath; it may be operated with an efficient water aspirator or mechanical pump.

Another outstanding feature of the Rotary Evapo-Mix is the swirling action in the test tubes which increases the surface exposed to vacuum thus increasing the speed of evaporation.



BUCHLER INSTRUMENTS DIVISION

NUCLEAR-CHICAGO CORP.

A SUBSIDIARY OF G. D. SEARLE & CO.

1327 SIXTEENTH STREET, FORT LEE, NEW JERSEY, 07024

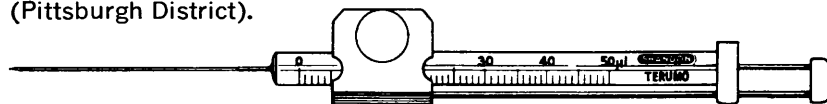
Request Bulletin S3-2100B

Circle No. 89 on Readers' Service Card

EN GARDE...

these low-cost
Shandon-Terumo Microlitre Syringes
promise to be equal to or better than
brands you are now using.

Meticulously inspected and individually tested, these syringes sport micro-lapped plungers, well-aged thermometer glass barrels, and assure reproducibility and accuracy of $\pm 1\%$ capacity for 10 μ l models. Sizes range from 10 μ l to 100 μ l. Order immediately in fixed (left) or interchangeable needle (right) types, with and without guide bars (below). Interchangeable needles are available in 2 styles, 5 lengths and 4 point styles. Send today for data folder and prices to Shandon Scientific Company, Inc., 515 Broad Street, Sewickley, Pa. 15143 (Pittsburgh District).



PITTSBURGH • LONDON • FRANKFURT

1072

Circle No. 87 on Readers' Service Card

annual, Boston, Mass. (R. J. Burk, Jr., RRS, 4211 39 St., NW, Washington, D.C. 20016)

9-14. Electronics Div., **Electrochemical Soc.**, spring mtg., Washington, D.C. (V. A. Phillips, General Electric R&D, P.O. Box 8, Schenectady, N.Y. 12301)

9-15. American **Gastroenterological Assoc.**, Bal Harbour, Fla. (J. A. Benson, 3181 SW Sam Jackson Park Rd., Portland, Ore. 97201)

9-16. World Union of **Prophylactic Medicine and Social Health**, 4th annual mtg., Venice, Italy. (Secretariat, Ospedale al Mare, 30126, Lido di Venezia, Venice)

10-12. American Inst. of **Aeronautics and Astronautics** joint strategic missile sciences mtg., Annapolis, Md. (R. Hartunian, Aerospace Corp., 1111 Mill St., San Bernadino, Calif. 92408)

10-12. **Aerospace Instrumentation Symp.**, 17th annual, Las Vegas, Nev. (J. F. Piccolo, EG&G, Inc., Las Vegas 89101)

10-12. American Soc. of **Mechanical Engineers**, natl. congr. on pressure vessels and piping, San Francisco, Calif. (A. B. Conlin, ASME, 345 E. 47 St., New York 10017)

10-12. **Radioecology**, 3rd annual symp., Oak Ridge, Tenn. (D. J. Nelson, Ecological Sciences Div., Oak Ridge National Lab., Oak Ridge, Tenn. 37820)

10-12. American College of **Sports Medicine**, Toronto, Ont., Canada. (D. E. Herrmann, 1440 Monroe St., Madison, Wis. 53706)

10-13. American **Proctologic Soc.**, Las Vegas, Nev. (H. Gibson, 320 W. Lafayette, Detroit, Mich. 48226)

10-13. National Conf. on **Static Electrification**, 3rd annual, London, England. (Secretary, Institute of Physics and the Physical Soc., 47 Belgrave Sq., London, S.W.1)

10-14. Symposium on **Measurement and Control of Flow**, Pittsburgh, Pa. (R. B. Dowdell, College of Engineering, Univ. of Rhode Island, Kingston 02881)

10-14. Society of **Plastics Engineers**, Washington, D.C. (C. C. Campbell, SPE, 656 W. Putnam Ave., Greenwich, Conn. 06830)

10-14. International **Solar Energy Soc.**, Greenbelt, Md. (B. Goldberg, Smithsonian Radiation Biology Lab., 12441 Parklawn Dr., Rockville, Md. 20852)

10-15. World Congr. on **Prevention of Occupational Accidents and Diseases**, Vienna, Austria. (E. Bakule, Allgemeine Unfall-Versicherungsanstalt, Webergasse 2, Vienna 20)

11-13. Institute of **Electrical and Electronics Engineers**, cement industry tech. conf., Seattle, Wash. (Technical Activities Office, 345 E. 47 St., New York 10017)

11-13. **Engineering for Conservation of Mankind**, 6th annual, Sacramento, Calif. (R. Soohoo, University of California, Dept. of Electrical Engineering, Davis, Calif. 95616)

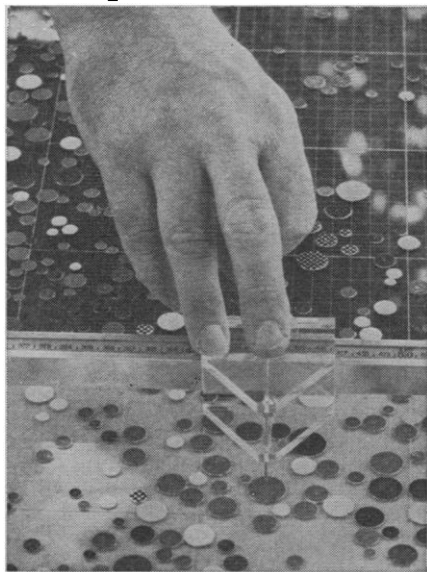
11-14. Virginia Acad. of **Science**, Blacksburg. (R. C. Berry, 5907 Brookfield Rd., Richmond, Va. 23227)

11-14. **World Future Soc.**, Washington, D.C. (J. A. Scott, WFS, Suite 578, 1629 K St., NW, Washington, D.C. 20006)

12. American Soc. for **Gastrointestinal Endoscopy**, Miami Beach, Fla. (J. A. Rinaldo, ASGE, 16001 W. Nine Mile Rd. Southfield, Mich. 48075)

SCIENCE, VOL. 171

artificial population sampler



A precision instrument developed at the University of California for teaching sampling techniques, statistics and pattern analysis. Carefully constructed aggregations (random and non-random) help students bridge the gap between mathematical theory and field experience. Students' sample estimates are measured against known parameters.

The ARTIFICIAL POPULATION SAMPLER is now used at universities and other institutions in ecology, environmental sciences, social sciences and resource management. Users report (a) students rapidly acquire basic understanding of statistical theory (b) field trip expense is significantly reduced.

Send coupon for free brochure.

schultz developments

2330 Walnut Blvd.
Walnut Creek, CA 94596

Please send Brochure S-3

Name _____

Institution _____

Address _____

City _____

State _____ Zip _____

Circle No. 91 on Readers' Service Card

1074

12-14. Institute of **Electrical and Electronics Engineers**, electron ion and laser beam technical conf., Boulder, Colo. (Technical Activities Board, 345 E. 47 St., New York 10017)

12-14. American Assoc. of **Genitourinary Surgeons**, Oakbrook, Ill. (O. S. Culp, AAG, 200 First St., SW, Rochester, Minn. 55901)

12-14. **Dialogues in Microscopy**, New York Microscopical Soc., New York, N.Y. (J. A. Reffner, Univ. of Connecticut, Storrs 06268)

12-15. **Geological Soc. of America**, Rocky Mountain section, Calgary, Canada. (F. Whitmore, Jr., U.S. Geological Survey, E-501, Natl. Museum, Washington, D.C. 20242)

12-15. American Inst. of **Industrial Engineers**, Boston, Mass. (J. F. Jericho, AIIE, 345 E. 47 St., New York 10017)

12-16. **Medical Assoc. of Georgia**, Atlanta. (E. F. Smith, 938 Peachtree St., NE, Atlanta 30309)

13-14. **Southern Textile Research Conf.**, 11th annual, Tilton Head Island, S.C. (W. N. Parsons, Lowenstein Research Center, Lyman, S.C.)

13-15. **Mineralogical Assoc. of Canada and Geological Assoc. of Canada**, joint annual mtg., Sudbury, Ont. (D. H. Williamson, Dept. of Geology, Laurentian Univ., Sudbury)

13-15. Society of **Research Administrators**, western section, Seattle, Wash. (K. B. Hobbs, Battelle Seattle Research Center, 4000 NE 41 St., Seattle, Wash. 98105)

13-15. Association of **University Radiologists**, Durham, N.C. (E. C. Lasser, University Hospital of San Diego County, San Diego, Calif. 92103)

14-15. American Soc. for **Engineering Education**, Pacific Northwest section, Alberta, Canada. (L. Hitch, ASEE, 1 Dupont Circle, Washington, D.C. 20038)

16-19. National Conf. on **Breast Cancer**, 2nd annual, Los Angeles, Calif. (R. N. Grant, American Cancer Soc., 219 E. 42 St., New York 10017)

16-19. **Illinois State Soc.**, Arlington Heights. (R. White, ISS, 360 N. Michigan Ave., Chicago 60601)

16-19. American Mining Congr., Pittsburgh, Pa. (Meetings Officer, AMC, 1100 Ring Bldg., Washington, D.C. 20036)

16-19. International **Pulp and Paper Instrumentation**, Philadelphia, Pa. (G. G. Eastwood, Engineering Research Dept., Kimberly-Clark Corp., Neenah, Wis. 54957)

16-19. National **Tuberculosis and Respiratory Disease Assoc.**, Los Angeles, Calif. (J. E. Perkins, NTRDA, 1740 Broadway, New York 10019)

16-20. American **Dermatological Assoc.**, Sky Top, Pa. (B. Kennedy, 1542 Tulane, New Orleans, La. 70112)

16-21. **Social Welfare, Human Aspirations and National Priorities**, 98th annual conf., Dallas, Tex. (J. R. Hoffer, Natl. Conf. on Social Welfare, 22 W. Gay St., Columbus, Ohio 43215)

17-19. National **Aerospace Electronics Conf.**, Dayton, Ohio. (P. J. Logus, Technical Program '71 NAECON, 265 Canterbury Dr., Dayton 45429)

17-19. **Instrument Soc. of America**, 14th annual, national power instrumenta-

tion symp., New York, N.Y. (P. J. Womel-dorff, Illinois Power Co., 500 S. 27 St., Decatur, Ill. 62525)

17-19. American **Thoracic Soc.**, Los Angeles, Calif. (L. G. Wayne, ATS, 1740 Broadway, New York 10019)

17-20. Australian **Biochemical Soc.**, Brisbane. (J. N. Mansbridge, Dept. of Biochemistry, Univ. of Queensland, St. Lucia, Q. 4067 Australia)

17-20. Symposium on **Blood Transfusion and Blood Utilization**, 7th annual. Tehran, Iran. (F. Ala, VIIIth Cong. of the World Federation of Haemophilia, P.O. Box 13/1438, C.I.C.I. Tehran, Iran)

17-20. American Soc. of **Mechanical Engineers**, design engineering conf. and show, New York, N.Y. (A. B. Conlin, ASME, 345 E. 47 St., New York 10017)

17-20. International **Microwave Symp.**, Washington, D.C. (R. V. Garver, Harry Diamond Labs., Washington, D.C. 20438)

17-20. American Inst. of **Mining Metallurgical and Petroleum Engineers and Metallurgical Soc.**, spring mtg., Atlanta, Ga. (A. B. Conlin, AIMMPE, 345 E. 47 St., New York 10017)

17-20. American **Urological Assoc.**, Chicago, Ill. (R. J. Hannigan, AUA, 1120 N. Charles St., Baltimore, Md. 21201)

17-21. Canadian Congr. of **Applied Mechanics**, 3rd annual, Calgary, Alberta. (L. G. Currie, Dept. of Mechanical Engineering, Univ. of Toronto, Toronto 5, Ont., Canada)

17-21. International Conf. on **Oral Surgery**, 4th annual, Amsterdam, Netherlands. (N. Rowe, Royal College of Surgeons, Lincoln Inn Fields, London, A.C.2, England)

17-21. **Otolaryngological Soc. of Australia**, Adelaide. (D. B. Arnott, 43 Lower Fort St., Sydney, Australia 2000)

17-21. International Symp. on **Remote Sensing of Environment**, 7th annual, Ann Arbor, Mich. (J. J. Cook, Center for Remote Sensing Information and Analysis, Willow Run Labs., P.O. Box 618, Ann Arbor 48107)

18-20. **Computer Conf.**, Atlantic City, N.J. (J. Moshman, Moshman Associates, Inc., 6400 Goldsboro Rd., Washington, D.C. 20034)

18-20. National Conf. on **Environmental Effects on Aircraft and Propulsion Systems**, 10th annual, Trenton, N.J. (R. J. Skeba, Dept. of the Navy, Naval Air Propulsion Test Center, Trenton 08628)

18-21. American Inst. of **Aeronautics and Astronautics** and Canadian **Aeronautics and Space Inst.**, London, England. (Secretary, AIAA, 1290 Ave. of the Americas, New York 10019)

18-21. International Instruments **Electronics and Automation** Exhibition, London, England. (Secretary, Inst. of Physics and Physical Soc., 47 Belgrave Sq., London, S.W.1)

18-21. Society for **Experimental Stress Analysis**, spring meeting, Salt Lake City, Utah. (Secretary, SESA, 21 Bridge Sq., Westport, Conn. 06880)

19-21. American **Helicopter Soc.**, 27th annual, Washington, D.C. (K. B. Amer, Aeronautical Engineering Div., Hughes Tool Co., Aircraft Div., Bldg. 2, T7B, Culver City, Calif. 90230)

19-21. British Congr. of **Obstetrics and Gynecology**, London, England. (J. Alvey, 47 Fitzwilliam Sq., Dublin, Ireland)