seminar is designed for technical writers, editors, administrators, educators, and those concerned with the presentation of specialized communications to a selected audience. Fee: \$100. (Director, Institute in Technical and Industrial Communications, C-225 Social Science Building, Colorado State University, Fort Collins 80521)

Chemical Reaction Engineering, Glen Arbor, Mich., 20-26 July. An advanced seminar on experimental method, data sources, modeling and technique in the design and analysis of reacting systems. Fee: \$375 (includes American plan accommodations at the Homestead Inn on Lake Michigan). (Dr. Robert E. C. Weaver, Department of Chemical Engineering, Tulane University, New Orleans,

Biological Electron Microscopy, Los Angeles, Calif., 2-13 September. For professional and laboratory personnel who desire knowledge and experience in tissue preparation and ultrathin sectioning for electron microscopy. Fee: \$250. Limited to 12 participants. (Dr. Robert F. Bils, Hancock Foundation, University of Southern California, Los Angeles 90007)

National Meetings

July

5-11. Tri-Organizational Science and Clinical Rehabilitation Conf., 13th, Albany, N.Y. (J. Timmerman, 1520 Van Hoesen Rd., Castleton-on-Hudson, N.Y.)

6-10. Forest Products Research Soc., 23rd, San Francisco, Calif. (K. E. Huddleston, The Society, 2801 Marshall Court, Madison, Wis. 53705)

7-18. Conference on Environmental Effects on Antenna Performance, Boulder, Colo. (P. Blacksmith, AFCRL (CRD), L. G. Hanscom Field, Bedford, Mass. 01730)

7-18. Science for Clergymen, Oak Ridge, Tenn. (Special Projects Office, Oak Ridge Associated Universities, P.O. Box 117, Oak Ridge 37830)

8-11. Nuclear and Space Radiation Effects, University Park, Pa. (E. A. Burke, AFCRL (CRWH), Stop 30, L. G. Hanscom Field, Bedford, Mass. 01730)

9-12. National Soc. of Professional Engineers, Kansas City, Mo. (P. H. Robbins, The Society, 2029 K St., NW, Washington, D.C. 20006)

10-13. American Therapeutic Soc., 70th, New York, N.Y. (R. T. Smith, The Society, 37 Narbrook Park, Narberth, Pa.)

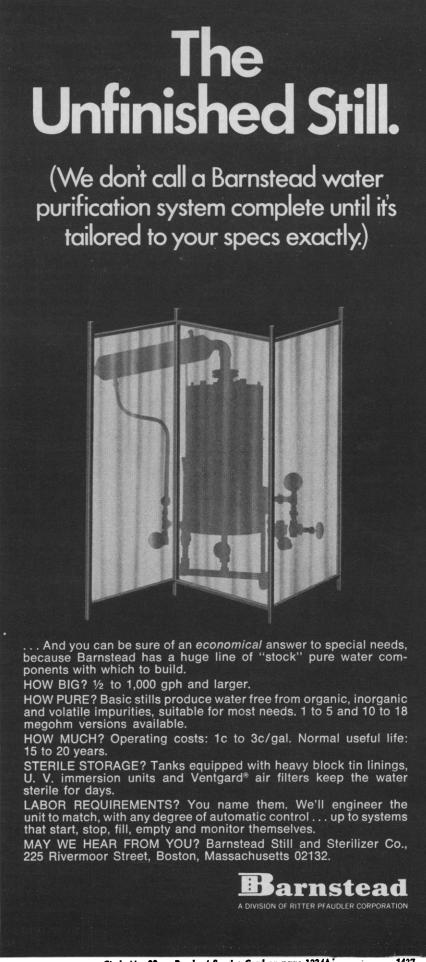
11-12. Programming Language Users Conf., Binghamton, N.Y. (J. A. Higgins, Computer Center, State Univ. of New York, Binghamton 13901)

12-13. Society for Surgery of the Ali-

mentary Tract, 10th, New York, N.Y. (J. V. Prohaska, The Society, 950 E. 59 St., Chicago, Ill. 60637)

12-13. Society for Vascular Surgery, New York, N.Y. (R. M. Nelson, Surgical Research Lab., Latter-Day Saints Hospital, Salt Lake City, Utah 84103)

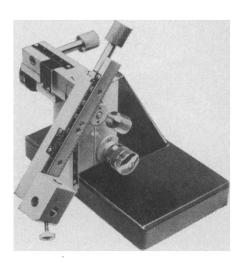
13-16. Physiology and Biochemistry of Muscle as a Food, Madison, Wis. (E. J. Briskey, Muscle Biology Lab., College of Agricultural and Life Sciences, Univ. of Wisconsin, Madison 53706)



3-DIRECTIONAL HIGH RESOLUTION



MICRO-MANIPULATORS



Offering resolutions of 0.0001" in the vertical plane and 0.004" in the two horizontal planes, the Micromanipulator has both coarse and vernier controls in all directions. Available accessories include Ball & Socket Joints and Adjustable Needle Holders.

Right or left hand model with standard base\$200
Right or left hand model with tilt movement\$225
Right or left hand model with magnetic base\$250
Right or left hand model with magnetic base and tilt movement \$275

Promptly obtainable from:

eric sobotkā company, inc.

112 Finn Ct., Farmingdale, N.Y. 11735 (516) 293-9272



Circle No. 87 on Readers' Service Card on page 1334A

13-17. American Medical Assoc., New York, N.Y. (W. E. Burmeister, The Association, 535 N. Dearborn St., Chicago, Ill.)

14-16. Sanitary Engineering Research, Development, and Design, 2nd natl. symp., Ithaca, N.Y. (A. W. Lawrence, 219 Hollister Hall, Cornell Univ., Ithaca 14850)

14-18. Symposium on Ecology as a Guide to Social Change, New Haven, Conn. (Z. W. White, Yale Univ., New Haven 06511)

14-18. Symposium on the Nature, Induction, and Utilization of Mutations in Plants, Pullman, Wash. (J. H. Kane, Div. of Technical Information, U.S. Atomic Energy Commission, Washington, D.C. 20545)

14-18. Persistence of Food Habits: Problem in the War on Hunger, Milwaukee, Wis. (Engineering Foundation Research Conf., Room 308, 345 E. 47 St., New York 10017)

16-18. Electron Probe Analysis Soc. of America, 4th, Pasadena, Calif. (A. A. Chodos, Geology Dept., California Inst. of Technology, Pasadena 91109)

18-19. Rocky Mountain Cancer Conf., Denver, Colo. (D. G. Derry, Colorado Medical Soc., 1809 E. 18th Ave., Denver 80218)

20-25. Association for the Advancement of Medical Instrumentation, Chicago, Ill. (J. J. Post, 19 Brook Rd., Needham Heights, Mass. 02194)

21. Group Representations in Mathematics and Physics, Seattle, Wash. (R. S. Paul, Battelle Memorial Inst., 4000 NE 41st St. Seattle 89105)

41st St., Seattle 89105)
21-25. Transportation Systems Analysis,
Milwaukee, Wis. (Engineering Foundation
Research Conferences, Room 308, 345
E. 47 St., New York 10017)

23-25. Montana Radiological Soc. Symp., Glacier National Park. (C. H. Agnew, 1231 N. 29th St., Billings, Mont. 50101)

25-26. Linguistic Soc. of America, Urbana, Ill. (R. B. Lees, Dept. of Linguistics, Univ. of Illinois, Urbana 61801)

28-29. Society of Research Administrators, San Francisco, Calif. (K. Hartford, Biology Dept., Yale Univ., 102 Kline Biology Tower, New Haven, Conn. 06520)

28-30. Society of Research Administrators, 3rd annual, San Francisco, Calif. (K. Hartford, Yale Univ., 102 Kline Biology Tower, New Haven, Conn. 06520)

28-1. Instrumentation Science, research conf., Geneva, N.Y. (T. E. Tremellen, Education and Research Services, Instrument Soc. of America, 530 William Penn Pl., Pittsburgh, Pa. 15219)

28-1. Quality Engineering and Research, Milwaukee, Wis. (Engineering Foundation Research Conferences, Room 308, 345 E. 47 St., New York 10017)

August

3-6. National Heat Transfer Conf., 11th, Minneapolis, Minn. (D. C. Kelly, American Inst. of Chemical Engineers, 345 E. 47 St., New York 10017)

3-7. Society for Cryobiology, 6th annual, Buffalo, N.Y. (R. E. Greco, 3175 Staley Rd., Grand Island, N.Y. 14072)

4-5. Aerospace Structures Design Conf., Seattle, Wash. (J. R. Fuller, Boeing Co., P.O. Box 707, Orgn. 6-8650, M/S 77-89, Renton, Wash. 98055)



Circle No. 88 on Readers' Service Card on page 1334A

4-6. Deterioration and Preservation of Library Materials, 34th annual conf., Chicago, Ill. (H. W. Winger, Graduate Library School, Univ. of Chicago, 1116 E. 59 St., Chicago 60637)

4-8. Molecular Biology and Pathology, 2nd conf., Saratoga Springs, N.Y. (K. T. Lee, Dept. of Pathology, Albany Medical College, Albany, N.Y. 12208) 5-8. World Conf. on Records, Salt Lake

5-8. World Conf. on Records, Salt Lake City, Utah. (S. E. Beesley, 1030 S. Orchard Dr., Bountiful, Utah 84010)

6-8. Applications of X-Ray Analysis Conf., Denver, Colo. (B. L. Henke, Div. of Metallurgy, Denver Research Inst., Denver 80210)

10-13. Soil Conservation Soc. of America, Fort Collins, Colo. (H. W. Pritichard, 7515 NE Ankeny Rd., Ankeny, Iowa 50021)

11-13. Symposium on Crystal Growth, Washington, D.C. (H. S. Peiser, Room B316, Bldg. 223, National Bureau of Standards, Washington, D.C. 20234)

11-14. Society of Photo-Optical Instrumentation Engineers, 14th annual technical symp., San Francisco, Calif. (H. L. Kasnitz, SPIE Symposium, P.O. Box 288, Redondo Beach, Calif. 90277)

12. American Astronomical Soc., Albany, N.Y. (G. C. McVittie, Univ. of Illinois Observatory, Urbana 61801)
13-24. Frontier Topics in Crystallog-

13-24. Frontier Topics in Crystallography, Stony Brook, L.I., N.Y. (E. H. Kone, American Inst. of Physics, 335 E. 45 St., New York 10017)

17-22. Animal Behavior Soc., Burlington, Vt. (B. Dane, Tufts Univ., Medford, Mass.)

17–22. American Inst. of **Biological Science**, Burlington, Vt. (J. R. Olive, 3900 Wisconsin Ave., NW, Washington, D.C. 20016)

17-22. American Soc. of **Zoologists**, Burlington, Vt. (J. R. Shaver, Dept. of Zoology, Michigan State Univ., East Lansing 48823)

18-20. Genetics Soc. of America, Madison, Wis. (B. Wallace, Dept. of Genetics, Cornell Univ., Ithaca, N.Y. 14850)

18-21. American Hospital Assoc., Chicago, Ill. (E. L. Crosby, 840 N. Lake Shore Dr., Chicago 60611)

18-22. New England Assoc. of Chemistry Teachers, 31st summer conf., Plymouth, N.H. (M. P. Olmsted, Publicity Chairman, NEACT, 9 Brookmont Dr., Wilbraham, Mass. 01095)

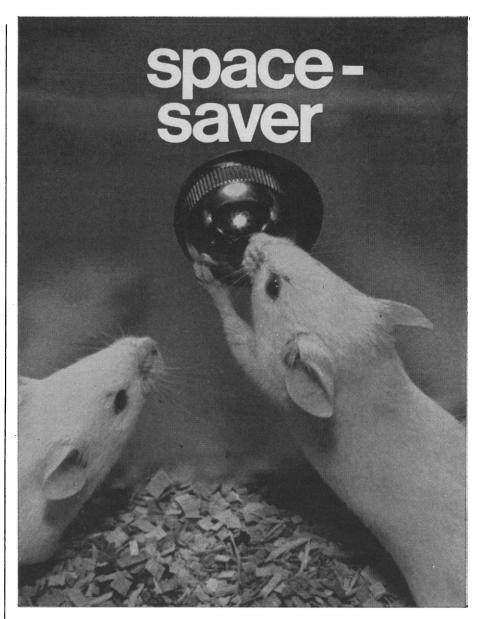
18-22. American Soc. of **Pharmacognosy**, 10th annual, Corvallis, Ore., with **Marine Biomedicinals** Symp. (P. Catalfomo, School of Pharmacy, Oregon State Univ., Corvallis 97331)

18-22. American Phytopathological Soc., Spokane, Wash. (J. P. Fulton, Dept. of Plant Pathology, Univ. of Arkansas, Fayetteville 72701)

18-22. National Goals in Water Pollution Control, Santa Barbara, Calif. (F. A. Butrico, Coordinator of Environmental Sciences Programs, Battelle Memorial Inst., Columbus Laboratories, Washington, D.C.)

19. Biometric Soc., western North American regional, Pullman, Wash. (J. S. Williams, Statistical Lab., Colorado State Univ., Fort Collins)

19-21. Birch Symp., Durham, N.H. (R. R. Weyrick, Dept. of Forest Re-



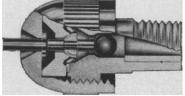
CAREMATIC™ANIMAL WATERING SYSTEM

The space you'll save with a Carematic Automatic Animal Watering System is just one of its important benefits. The first thing to consider, of course, is the space you may be currently using for bottle storage and handling. With Carematic, you also have a great degree of flexibility. For example, there are special threaded couplings which accept valves for either single- or double-faced systems without drilling holes. A variety of piping, fittings and hardware facilitates installation on mobile cage racks—on walls—wherever the space is available. You'll find a Carematic System can be a real *space-saver* for you! Send today for details.

NOW...a reliable drinker valve

Precision engineered, and produced under rigid specifications, this remarkable valve operates on the diaphragm principle and makes all others appear obsolete. After proper installation, reliable performance is assured by the Teflon valve seat which provides a positive water seal and is resistant to build-up of deposits from material common in most water.





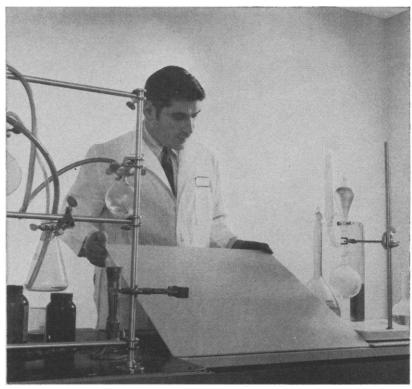
U.S. PAT. D-212,622 OTHER PATENTS PENDING

CAREMATIC SYSTEMS

The Upjohn Company, Kalamazoo, Michigan 49001 Circle No. 27 on Readers' Service Card on page 1334A CA-31B

20 JUNE 1969

ALCHEMY 1969...



CORNING Labtop from Fisher transmutes old workbench surfaces into brand-new supertops.

Just cement CORNING™ Labtop to any benchtop material. At once, that worn, scarred, burned or gouged surface is covered with a Space Age glass-ceramic in handsome matte gray. *Permanently*.

Labtop is tough as case-hardened steel (it can't dent), has a mechanical strength about 20 times greater than conventional stone tops. It's extremely resistant to acids, alkalies and solvents, abrasion, and thermal shock (it's recommended for fume hoods). High in stain resistance too, and it wipes clean for a crisp new look, year in, year out.

Corning Labtop comes in 20 stock sizes for benchtops, three additional ones for reagent shelves (special sizes on request). Bulletin? Write Fisher Scientific Company, 1395 Fisher Building, Pittsburgh, Pennsylvania 15219. Or phone your Fisher representative—he can give you the details, plus a free Labtop sample that you can put through the paces for yourself.



sources, Univ. of New Hampshire, Durham 03824)

19-22. **Biometric** Soc., eastern North American regional, New York, N.Y. (D. G. Gosslee, P.O. Box 713, Oak Ridge, Tenn. 37830)

19-22. American Assoc. of Clinical Chemists, 21st natl. mtg., Denver, Colo. (J. Preston, P.O. Box 18323, Capitol Hill Station, Denver 80218)

19-22. Western **Electronic** Show and Convention, San Francisco, Calif. (D. W. Martin, WESCON, 3600 Wilshire Blvd., Los Angeles, Calif. 90005)

19-22. American Soc. for Horticultural Science, 44th annual, Pullman, Wash. (C. Blackwell, The Society, 615 Elm St., St. Joseph, Mich. 49085)

19-22. American Statistical Assoc., 129th, New York, N.Y. (D. C. Riley, The Association, 810 18th St., NW, Washington, D.C. 20006)

19-23. American Fern Soc., Seattle, Wash. (A. M. Evans, Dept. of Botany, Univ. of Tennessee, Knoxville 37916)

20-22. American Soc. of Civil Engineers, Hydraulics Conf., Logan, Utah. (ASCE Hydraulics Conf., % Utah Water Research Lab., Utah State Univ., Logan 84321)

21-23. American Nature Study Soc., Pullman, Wash. (J. Geisler, Milewood Rd., Verbank, N.Y. 12585)

24–25. Programming Languages Definition, San Francisco, Calif. (J. A. Painter, IBM Corp., Research Lab., Dept. 978, Bldg. 025, Monterey and Cottle Rds., San Jose, Calif. 95114)

24-27. Alaska Div., AAAS, College. (V. Fisher, Inst. of Social, Economic and Government Research, Univ. of Alaska, College 99701)

24-27. Defects in Electronic Materials for Devices, Boston, Mass. (D. P. Seraphim, IBM Components Div., Bldg. 300, Hopewell Junction, N.Y. 12533)

24-27. Conference on Food-Drugs from the Sea, Kingston, R.I. (G. F. Greene, Jr., % Professional Services, Abbott Labs., North Chicago, Ill. 60064)

24-29. Gerontological Soc., Washington, D.C. (E. Kaskowitz, The Society, 660 S. Euclid St., St. Louis, Mo. 63110)

24-2. Botanical Soc. of America, Seattle, Wash. (R. C. Starr, Dept. of Botany, Indiana Univ., Bloomington 47401)

25-27. Applied Mechanics Western Conf., Albuquerque, N.M. (A. B. Conlin, Jr., Technical Depts., 345 E. 47 St., New York 10017)

25-27. Mathematical Assoc. of America, Eugene, Ore. (A. B. Willcox, The Association, 1225 Connecticut Ave., NW, Washington, D.C. 20036)

25-28. Chromosphere-Corona Transition, Boulder, Colo. (J. W. Evans, Sacramento Peak Observatory, Sunspot, N.M. 88349)

26-28. Engineering Applications of Electronic Phenomena Conf., Ithaca, N.Y. (H. J. Carlin, School of Electrical Engineering, Cornell Univ., Ithaca 14850)

26-29. Electron Microscope Soc. of America, St. Paul, Minn. (G. G. Cocks, Olin Hall, Cornell Univ., Ithaca, N.Y. 14850)

28-1. Society of **Petroleum Engineers**, Denver, Colo. (J. B. Alford, 6200 N. Central Expressway, Dallas, Tex. 75206)

31-4. American **Psychological** Assoc., Washington, D.C. (K. Goodall, The Society, 1200 17th St., NW, Washington, D.C. 20036)

31-4. Psychometric Soc., Washington, D.C. (W. B. Schrader, Educational Testing Service, Princeton, N.J. 08540)

31-6. Quantum Solids: Hydrogen and Helium, Aspen, Colo. (J. C. Raich, Colorado State Univ., Fort Collins 80521)

International and Foreign Meetings

August

4-7. International Conf. on Raman Spectroscopy, Ottawa, Ont., Canada. (J. A. Koningstein, Chemistry Dept., Carleton Univ., Ottawa)

4-9. International Rhinologic Soc., Mexico, D.F. (G. H. Drumheller, 1515 Pacific, Everett, Wash. 98201)

4-15. Vertebrate Evolution: Mechanism and Process, Istanbul, Turkey. (M. K. Hecht, Dept. of Biology, Queens College, Flushing, N.Y. 11367)

6-12. International Congr. of Crystallography, 8th, Buffalo, N.Y. (E. H. Kone, American Inst. of Physics, 335 E. 45 St., New York 10017)

10-14. International Conf. on Medical Physics, 2nd, Boston, Mass. (E. W. Webster, Dept. of Radiology, Massachusetts General Hospital, Boston 02114)

10-15. Chemotherapy, 6th intern. congr., Tokyo, Japan. (W. P. Boger, P.O. Box 265, Princeton, N.J. 08540)

11-15. International Conf. of Medical Physics, Boston, Mass. (W. T. Maloney, Suite 620, 6 Beacon St., Boston 02108)

12-15. International **Photoconductivity** Conf., 3rd, Palo Alto, Calif. (G. S. Picus, Hughes Research Labs., 3011 Malibu Canyon Rd., Malibu, Calif. 90265)

17-21. International Assoc. of Milk, Food and Environmental Sanitarians, Louisville, Ky. (H. L. Thomasson, Box 437, Shelbyville, Ind. 46176)

20-21. International Electronic Circuit Packaging Symp., San Francisco, Calif. (IECPS Papers Selection Committee, % WESCON, 3600 Wilshire Blvd., Los Angeles, Calif. 90005)

20-27. International Union of Pure and Applied Chemistry, 22nd, Sydney, Australia. (J. R. Price, Box 2249U, G.P.O. Melbourne, Australia 3001)

21-28. International Symp. on Statistical Ecology, New Haven, Conn. (G. P. Patil, Dept. of Statistics, 302 McAllister Bldg., Pennsylvania State Univ., University Park 16802)

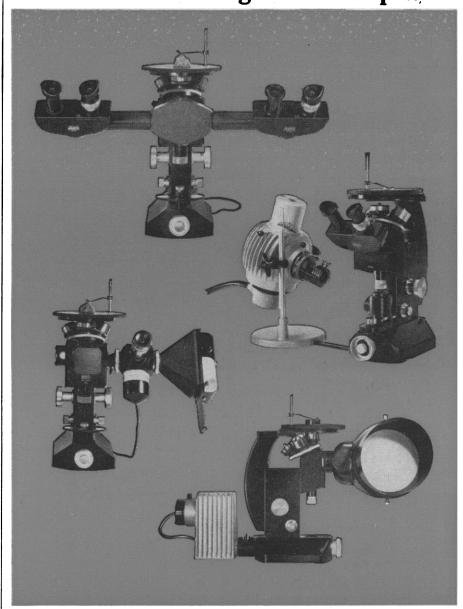
24-26. Laurentian Hormone Conf., Mont Tremblant, P.Q., Canada. (Laurentian Hormone Conf. Office, 222 Maple Ave., Shrewsbury, Mass. 01545)

24–28. Mobilizing Canada's Agricultural Resources, 49th, Saskatoon, Sask. (R. H. Burrage, 1969 AIC Convention Committee, Box 800, Sub. P.O. No. 6, Saskatoon)

24-29. Gerontology, 8th intern. congr., Washington, D.C. (N. W. Shock, 9650 Rockville Pike, Bethesda, Md. 20014)

25-29. International Conf. on Luminescence, Newark, Del. (F. Williams, Dept. of Physics, Univ. of Delaware, Newark 19711)

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.



Circle No. 26 on Readers' Service Card on page 1334A