

## Calendar of Events

### National Meetings

#### February

16-20. Soc. of Economic Geologists, Washington, D.C. (R. A. Laurence, P.O. Box 1549, Knoxville, Tenn. 37901)

16-20. American Inst. of Mining, Metallurgical, and Petroleum Engineers, 98th, Washington, D.C. (W. V. O'Connell, Public Relations, The Institute, 345 E. 47 St., New York 10017)

18-22. American College of Radiology, Atlanta, Ga. (W. C. Stronach, 20 N. Wacker Dr., Chicago, Ill. 60606)

19-21. Solid State Circuits Conf., Philadelphia, Pa. (Office of Technical Activities, Inst. of Electrical and Electronics Engineers, 345 E. 47 St., New York 10017)

20-22. Catalysis Soc., 1st North American mtg., Atlantic City, N.J. (J. H. Sinfelt, Central Basic Research Lab., Esso Research and Engineering Co., P.O. Box 45, Linden, N.J. 07036)

20-22. Central Surgical Assoc., Chicago, Ill. (V. L. Williams, 1325 S. Grand Blvd., St. Louis, Mo. 63104)

23-28. Intersociety Committee on Pathology, Los Angeles, Calif. (O. Neibel, CAP, 230 N. Michigan Ave., Chicago, Ill. 60601)

26-1. Biophysical Soc., Los Angeles, Calif. (W. A. Brodsky, Univ. of Louisville, Reynolds Bldg., Louisville, Ky. 40208)

26-2. American College of Cardiology, New York, N.Y. (W.D. Nelligan, 9650 Rockville Pike, Bethesda, Md. 20014)

27-1. Experimental Nuclear Magnetic Resonance Conf., 10th, Pittsburgh, Pa. (J. M. Anderson, Dept. of Chemistry and Chemical Engineering, Univ. of Illinois, Urbana 61801)

27-1. American Physical Soc., St. Louis, Mo. (W. W. Havens, Jr., The Society, 335 E. 45 St., New York 10017)

#### March

1-7. American Concrete Inst., 65th, Chicago, Ill. (The Institute, 22400 W. Seven Mile Rd., Detroit, Mich. 48219)

2-7. Pittsburgh Conf. on Analytical Chemistry and Applied Spectroscopy, Inc., 20th, Cleveland, Ohio. (W. M. Hickam, 1969 Pittsburgh Conf., Westinghouse Research Labs., Pittsburgh, Pa. 15235)

3-5. National Conf. on Underwater Technology, 3rd, San Diego, Calif. (J. T. Quirk, Ocean Engineering Div., U.S. Naval Civil Engineering Lab., Port Huene, Calif. 93041)

3-6. American Assoc. of Junior Colleges, Education Material and Equipment Exposition, Atlanta, Ga. (American Junior College Exposition, P.O. Box 1016, Alexandria, Va. 22313)

3-7. Symposium on Arthritis and Related Disorders, New York, N.Y. (Office of the Recorder, New York Univ. Post-Graduate Medical School, 550 First Ave., New York 10016)

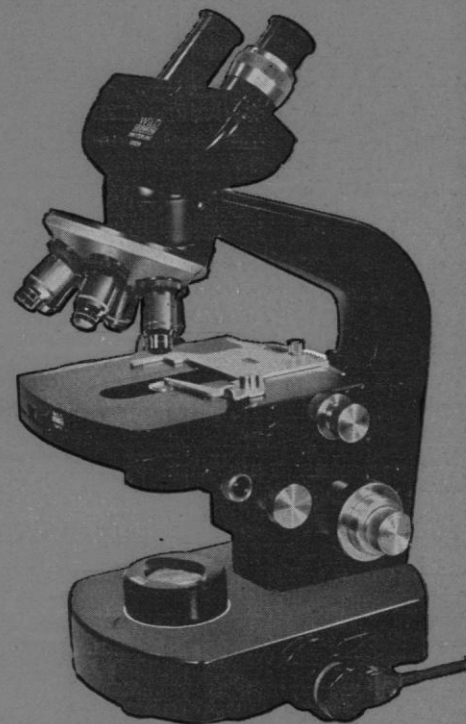
4-6. National Space Mtg. of the Inst. of Navigation, Houston, Tex. (R. H. Battin, M.I.T. Instrumentation Lab., 75 Cambridge Parkway, Cambridge, Mass. 02139)

4-7. Offshore Exploration Conf., 4th,

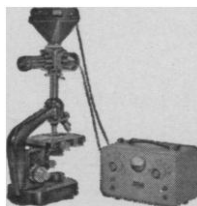
17 JANUARY 1969

Some things any optical  
microscope can do.  
Other things some can do.  
A few things a few can do.

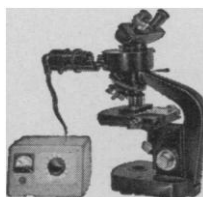
This one  
does  
the most.  
The Wild\*  
M-20  
Research Microscope



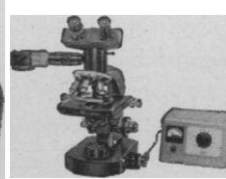
Photoautomat



EPI Attachment



Drawing Tube



Projection Head



Illustrated are a few of the numerous accessory combinations. Permits every observation method for your field of research. Precisely. Conveniently.

Write for Bulletin M-20

\*First name in a complete line of instruments for Surveying, Photogrammetry and Microscopy.

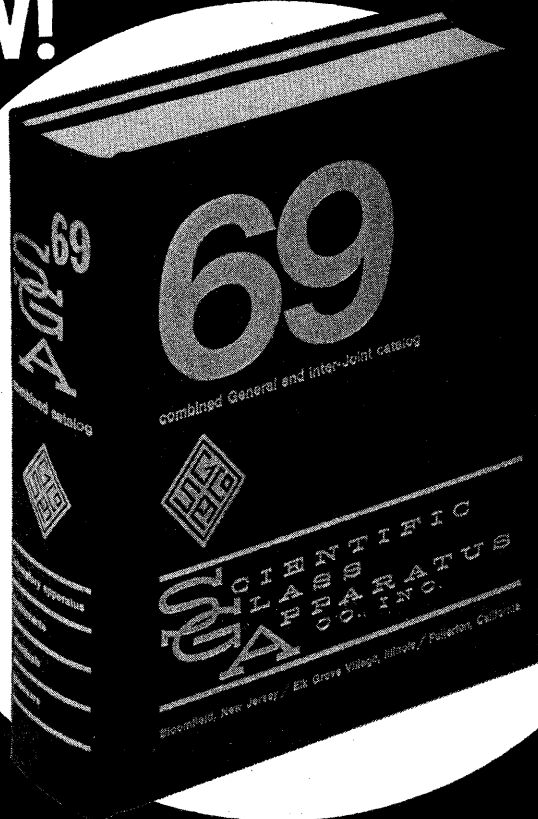
**WILD**  
HEERBRUGG

Full  
Factory Services

**WILD HEERBRUGG INSTRUMENTS, INC.**  
FARMINGDALE, NEW YORK 11735  
In Canada: Wild of Canada Ltd.,  
881 Lady Ellen Place, Ottawa 3, Ontario

Circle No. 27 on Readers' Service Card

# NEW!



1528 Pages  
Size 8"x10"

## TWO CATALOGS IN ONE!

Over 30,000 stock items are listed in this new comprehensive laboratory supply catalog.

Like our previous catalog 66, this new edition contains two separate volumes bound together for your convenience. The 1124-page *General Section* lists thousands of modern scientific instruments, apparatus, appliances and general laboratory glassware and supplies. The 340-page *Inter-Joint Section* covers our entire line of interchangeable glassware. A 64-page cross-referenced index separates the two sections. General information is given in the 8-page preface.

To receive this valuable buying guide (mailed without charge), please write to us on your official letterhead.

- *Easy to Use*
- *Numbers in Sequence*
- *Page Headings Alphabetized*
- *Thousands of Illustrations*
- *Helpful Tables and Charts*
- *Cross-referenced Index*

**SCIENTIFIC GLASS APPARATUS CO. INC.**  
BLOOMFIELD, NEW JERSEY

**LABORATORY...**

- ◆ APPARATUS
- ◆ INSTRUMENTS
- ◆ CHEMICALS
- ◆ GLASSWARE

Branches: Boston 16 Mass. Danbury Conn. Elk Grove Village Ill. Fullerton Calif. Philadelphia 2 Penna. Silver Spring Md. Syracuse 2 N.Y.

Circle No. 30 on Readers' Service Card

San Diego, Calif. (OECON IV, P.O. Box 88, Palos Verdes Estates, Calif. 90274)

5-7. **Fundamental Cancer Research**, 23rd symp., Houston, Tex. (D. E. Anderson, Univ. of Texas, M. D. Anderson Hospital and Tumor Inst., Houston)

5-7. **Particle Accelerator Conf.**, Washington, D.C. (E. H. Eisenhower, Center for Radiation Research, Natl. Bureau of Standards, Washington, D.C. 20234)

9-11. American Assoc. of **Pathologists and Bacteriologists**, San Francisco, Calif. (K. M. Brinkhous, Dept. of Pathology, Univ. of North Carolina School of Medicine, Chapel Hill 27514)

9-14. American Soc. of **Photogrammetry**, Washington, D.C. (G. L. Loelkes, 8608 Cherry Valley Lane, Alexandria, Va. 22309)

10-12. **Flight Test, Simulation, and Support Conf.**, 3rd., Houston, Tex. (J. C. McLane, Jr., Structures and Mechanics Div., Engineering and Development Directorate, NASA Manned Spacecraft Center, Houston 77058)

10-12. Society of **Toxicology**, Williamsburg, Va. (J. F. Borzelleca, Dept. of Pharmacology, Medical College of Virginia, Richmond 23219)

10-13. Conference on **Electric Fields in the Magnetosphere**, Houston, Tex. (J. W. Freeman, Jr., Dept. of Space Science, Rice Univ., P.O. Box 1892, Houston 77001)

10-13. American **Nuclear Soc.**, Idaho Falls, Idaho. (J. E. Kunze, General Electric Co., P.O. Box 2147, Idaho Falls 83401)

10-14. National Assoc. of **Corrosion Engineers**, 25th, Houston, Tex. (Publication Director, 980 M & M Bldg., No. 1, Main St., Houston)

11-14. **Optical Soc. of America**, San Diego, Calif. (M. E. Wurga, The Society, 2100 Pennsylvania Ave., NW, Washington, D.C. 20037)

13-14. Symposium on **Automated, High-Resolution Analyses in the Clinical Lab.**, Oak Ridge, Tenn. (Oak Ridge Natl. Lab., P.O. Box X, Oak Ridge 37830)

13-15. Conference on **Nuclear Isospin**, 2nd, Asilomar, Calif. (S. D. Bloom, Lawrence Radiation Lab., P.O. Box 808, Livermore, Calif. 94550)

14-15. American **Burn Assoc.**, Atlanta, Ga. (J. A. Boswick, Cook County Hospital, 1835 W. Harrison, Chicago, Ill. 60612)

15-19. American Acad. of **Allergy**, Bal Harbour, Fla. (J. O. Kelly, 756 N. Milwaukee St., Milwaukee, Wis. 53202)

16-20. American Inst. of **Chemical Engineers**, 64th, New Orleans, La. (R. M. Persell, U.S. Dept. of Agriculture, Southern Utilization R&D Div., Box 19687, New Orleans 70119)

16-20. American Soc. of **Mechanical Engineers**, Cleveland, Ohio. (The Society, 345 E. 47 St., New York 10017)

18-19. Central States Section of the **Combustion Inst.**, Minneapolis, Minn. (B. Schukraft, Inst. of Gas Technology, 3424 S. State St., Chicago, Ill. 60616)

20-22. American Acad. of **Facial Plastic and Reconstructive Surgery**, New Orleans, La. (J. R. Anderson, 111 Tulane Ave., New Orleans 70112)

23-29. American **Crystallographic Assoc.**, Seattle, Wash. (W. L. Kehl, Gulf Research and Development Co., P.O. Box 2038, Pittsburgh, Pa. 15230)



## Measuring low light levels

...requires extremely low dark currents coupled with maximum useful sensitivity. The EMI 6256, a 13-stage venetian blind 2" photomultiplier tube has the essential characteristics that are necessary for low light level applications. The unique 10mm cathode-DI geometry, together with the ultra-stable EMI venetian blind design, has resulted in its widely successful use in astronomy, biology and spectrophotometry. The EMI 6256B has a quartz window and the S-11 cathode (S-13) which has a peak quantum efficiency of 17% at 4,200 Å. The EMI type 6256S has 5 to 10 times lower dark current than the 6256B, and should be used when system performance is dark current limited. This type is also available for visible light applications as 9502B/9502S, or with 11 dynodes as 6094B/6094S. Many other EMI photomultiplier tubes are available for special applications from stock in sizes from 1" to 12". EMI photomultiplier tubes are available through qualified engineering representatives located in major marketing areas throughout the United States. A request on your company letterhead will bring you the name of your nearest representative as well as a copy of our latest catalog.



**Whittaker**  
CORPORATION  
**GENCOM DIVISION**

80 Express St., Plainview, L.I., N.Y.  
516-433-5900 TWX 516-433-8790  
\*EMI ELECTRONICS, LTD.  
Circle No. 80 on Readers' Service Card

24-25. **Laser Safety Conf. and Workshops**, 2nd, Cincinnati, Ohio. (L. Goldman, Laser Lab., Children's Hospital Research Foundation of the Medical Center of the Univ. of Cincinnati, Cincinnati)

24-27. **American Physical Soc.**, Philadelphia, Pa. (W. W. Havens, Jr., The Society, 335 E. 45 St., New York 10017)

24-28. **Desalination: Methods and Applications**, Berkeley, Calif. (Continuing Education in Engineering, Univ. Extension, Univ. of California, 2223 Fulton St., Berkeley 94720)

25-27. **American Laryngological, Rhinological and Otolological Soc., Inc.**, New Orleans, La. (V. R. Alfaro, 917 20th St., NW, Washington, D.C. 20006)

26-28. **National Business Aircraft Mfg. and Engineering Display**, Wichita, Kan. (A. J. Favata, SAE Headquarters, 2 Pennsylvania Plaza, New York 10001)

26-28. **Symposium on the Engineering Aspects of Magnetohydrodynamics**, 10th, Cambridge, Mass. (J. Klepeis, Arrangements Committee, Avco Everett Research Lab., 2385 Revere Beach Parkway, Everett, Mass. 02149)

26-28. **George H. Hudson Symp.**, 4th, Plattsburgh, N.Y. (M. H. Tourin, State Univ. College of Arts and Sciences, Plattsburgh 12901)

27-28. **Technical Writing Inst.**, Lubbock, Tex. (M. Miles, Technical Writing Inst., Dept. of English, Texas Technological College, Lubbock 79409)

27-29. **Geological Soc. of America**, South-Central Section, Lawrence, Kans., "Basement Rocks of the Mid-Continent" and "Paleo-Environmental Implications of Palynology." (W. M. Merrill, Dept. of Geology, Univ. of Kansas, Lawrence 66044)

28-29. **American Otological Soc., Inc.**, New Orleans, La. (W. H. Bradley, 1100 E. Genesee St., Syracuse, N.Y.)

28-30. **American Psychosomatic Soc., Inc.**, 26th, Cincinnati, Ohio. (H. Weiner, 265 Nassau Rd., Roosevelt, N.Y. 11575)

30-2. **American Orthopsychiatric Assoc.**, New York, N.Y. (M. F. Langer, Room 1313, 1790 Broadway, New York 10019)

31-2. **Advances in Water Quality Improvement-Physical and Chemical Processes**, Austin, Tex. (Center for Research in Water Resources, Univ. of Texas, Rt. 4, Box 189, Austin 78757)

31-2. **Metals Engineering Conf.**, Washington, D.C. (R. J. Cepulch, Hartford Steam Boiler Inspection and Insurance Co., 56 Prospect St., Hartford, Conn. 06102)

31-2. **American Assoc. of Thoracic Surgery**, San Francisco, Calif. (T. B. Ferguson, Suite 311, 7730 Carondelet Ave., St. Louis, Mo. 63110)

### International and Foreign Meetings

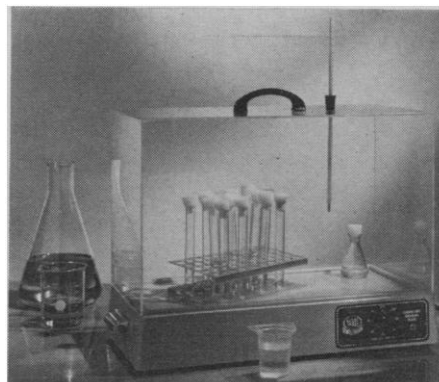
#### February

19-21. **International Solid-State Circuits Conf.**, Philadelphia, Pa. (J. H. Wuorinen, Bell Telephone Labs., Murray Hill, N.J.)

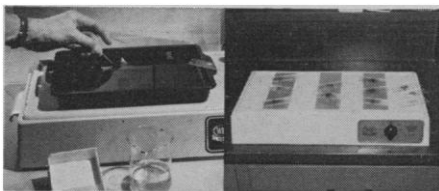
23-27. **Pan American Congr. for Psychoanalysis**, 4th, New York, N.Y. (H. Montessori, Intern. Psychoanalytical Assoc., 2B Prins Hendriklaan, Amsterdam Z, Netherlands)

27-28. **Congress of Intern. Inst. for Sugar Beet Research**, 32nd, Brussels, Belgium. (The Institute, 150 rue Beauduin, Tirlemont, Belgium)

## WHY BUY 3 HEATING DEVICES?



ONE  
**GENTL-THERM™**  
does all...  
and more!



1. **Need a dry-bath incubator?** Gentl-Therm with hood gently warms several dozen slides for albumen fixing.

3. **A tissue flotation bath.** Accessory slide plate or tray for safe, easy mounting of tissue sections.

Gentl-Therm is all this and more! . . . Ideal for safe warming of any biological material . . . no chance of overheating or scorching. Warms media, safely dissolves heat-labile substances. Warms gels for immunoelectrophoresis, etc.

#### Order now from:

**Will Scientific, Inc.**  
Box 1050, Rochester, New York 14603

16054 Gentl-Therm, with stepless control from ambient to 270°F, 200 watts, 115 volts A.C. . . . \$67.00  
16056 Acrylic Plastic Hood . . . \$31.00  
16057 Set of 3 Aluminum Slide Plates . \$ 6.75  
11506 Tissue Flotation Tray . . . \$ 2.75

Laboratory  
heating equipment  
from ...



Rochester, N.Y. 14603  
Ann Arbor, Mich. 48107  
Atlanta, Ga. 30325  
Baltimore, Md. 21224

Bronx, N.Y. 10452  
Buffalo, N.Y. 14240  
Cambridge, Mass. 02139  
Columbus, Ohio 43216

Circle No. 92 on Readers' Service Card

## March

2-6. International Soc. of **Anesthesia Research**, 43rd, Bal Harbour, Fla. (B. B. Sankey, 3645 Warrensville Center Rd., Cleveland, Ohio 44122)

3-6. Symposium on **Protein Structure and Function**, St. Marguerite, P.Q., Canada. (T. H. G. Michael, Chemistry Inst. of Canada, 151 Slater St., Ottawa 4, Ont.)

7-12. International Acad. of **Pathology**, 58th, San Francisco, Calif. (P. K. Mostofi, % Armed Forces Inst. of Pathology, Washington, D.C. 20305)

9-11. International Conf. and Exposition on **Urban Transportation**, Pittsburgh Pa. (Pittsburgh Urban Transit Council, 945 Union Trust Bldg., Pittsburgh 15219)

9-22. International Postgraduate Congr. for **Practical Medicine**, Daves, Switzerland. (W. Brune, Kongressburo der Bundesärztekammer, Haedenkampstr. 1 5000 Köln-Lindenthal, Germany)

10-12. International Conf. on **Urban Transportation**, 4th, Pittsburgh, Pa. (G. R. Schaefer, WABCO Mass Transit Center, Westinghouse Air Brake Co., Pittsburgh)

12-13. Conference on **Safety on Construction Site**, London, England. (Institution of Civil Engineers, Great George St., London, S.W.1)

17-18. International Symp. of **High-speed Testing: The Rheology of Solids**, Boston, Mass. (R. H. Supnik, % Plas-Tech Equipment Corp., 4 Mercer Rd., Natick, Mass. 01760)

20-23. International Assoc. for **Dental Research**, 47th, Houston, Tex. (A. D. Frechette, 211 E. Chicago Ave., Chicago, Ill. 60611)

24-27. International Convention of Inst. of **Electrical and Electronics Engineers**, New York, N.Y. (The Convention, 345 E. 47 St., New York 10017)

25-28. **Autoclaved Building Products**, 2nd intern. symp., Hanover, Germany. (Secretary, Second Intern. Symp. 1969, "Haus der Kalksandstein-industrie," Postfach 66, 3 Hanover-Herrenhausen)

25-28. **Liquefied Natural Gas**, London, England. (Conference Dept., Inst. of Mechanical Engineers, 1 Birdcage Walk, Westminster, London, S.W.1)

27-28. International Congr. for **Heating, Ventilating, Air Conditioning**, 19th, Frankfurt am Main, Germany. (S. Ausschuss, Kongress für Heizung, Lüftung, Klimatechnik, Kongressburo, Königstr. 5, 4 Dusseldorf 1, Germany)

31-4. International Symp. on **Concrete Bridge Design**, 2nd, Chicago, Ill. (American Concrete Inst., P.O. Box 4754, Redford Sta., 22400 W. Seven Mile Rd., Detroit, Mich. 48219)

## April

7-11. Federation of European **Biochemical Societies**, 6th, Madrid, Spain. (Secretariat, Centro de Investigaciones Biológicas, Velazquez, 144, Madrid 6)

8-11. International Symp. on **Laboratory Animals**, Washington, D.C. (B. F. Hill, Charles River Breeding Labs., Inc., Wilmington, Mass.)

9-12. **British Medical Assoc.**, clinical mtg., Valletta, Malta. (British Medical Assoc. House, Tavistock Sq., London, W.C.1, England)

17 JANUARY 1969



## with solid-state heat control and Nucerite top plate

**NUCERITE TOP PLATE** — a ceramic-metal (Inconel) combination with noncorrodible advantages of glass and supporting strength of Inconel . . . with ceramic sealed heating element.

**SOLID STATE TEMPERATURE CONTROL** — Control is assured with demand type bi-metallic thermostat and triac. This control will give virtually indefinite contact life. Pilot light shows when temperature level is reached. Temperature accuracy-plus/minus 3°F.

**FAST HEAT-UP** — Maximum temperature of 320°C (600°F) is reached in 3-4 minutes. Nucerite top plate gives broad and even heat distribution. Unit cools rapidly for storing.

**UNIQUE SPEED CONTROL** — Constant speed motor and mechanical control (not rheostat) offer fluctuation-free, constant speed stirring action - 60 to 1100 RPM . . . no stalling at low speeds. Separate on-off switch permits duplication of tests.

**MODERN, LOW SILHOUETTE DESIGN** — A height of 4 7/8", width of 7 3/4" and depth of 7 1/4" means solid tip-proof operation. 6 1/2" dia. top plate gives efficient heating. Pastel green vinyl covered steel case and dark green top are resistant to substances that affect ordinary stir-plates.

**NUCERITE STIR-PLATE** — Model SP-11715 complete — \$125.00

Model HP-11415B, identical except without stirring features; matched in color and compatible in size — \$34.50



Write today for  
FREE  
68 catalog



**THERMOLYNE**  
SYBRON CORPORATION

2555 Kerper Blvd. Dubuque, Iowa 52001

Circle No. 26 on Readers' Service Card

# New Inlets



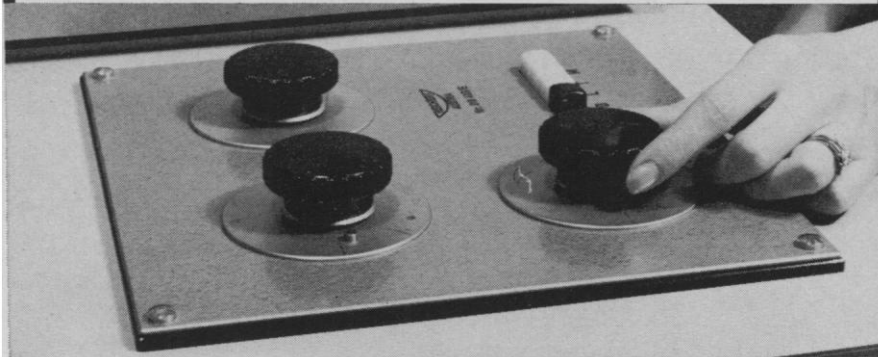
Two new ways to introduce samples into capillary or high resolution chromatographic columns. Write for literature.

**HAMILTON**

HAMILTON COMPANY, P.O. BOX 307, WHITTIER, CALIFORNIA 90608

Circle No. 78 on Readers' Service Card

**MOST ADVANCED...EASIEST TO OPERATE**



## "DIAL" ULTRA-THIN SECTIONS?

Precisely . . . since the new Reichert "Om U2" ultramicrotome is automated. Now you just dial for single or continuous ultra-thin sections for electron microscopy. With all controls dial or push-button operated, you merely "select" speed, sequence and thickness of sections. The completely inertia-free thermal advance of the "Om U2" represents a major breakthrough in ultramicrotomy.

The "Om U2" gives you the accuracy of the thermal advance and the advantages of a precision, mechanical advance in one instrument. The tedious task of producing useful ultra-thin sections is now a thing of the past.

*Hacker*



Request literature and a free demonstration.

**William J. Hacker & Co., Inc.**

Box 646

W. Caldwell, N.J. 07006

(201) 226-8450

14-17. **Cleft Palate**, intern. congr., Houston, Tex. (B. J. McWilliams, Cleft Palate Research Center, Univ. of Pittsburgh, 313 Salk Hall, Pittsburgh, Pa. 15213)

15-17. **Civil Engineering Problems of the South Wales Valleys**, Cardiff, England. (Institution of Civil Engineers, Great George St., London, S.W.1, England)

15-18. **International Magnetism Conf.**, Amsterdam, Netherlands. (T. Holtwijk, Philips Research Labs., Eindhoven, Netherlands)

17-18. **British Inst. of Radiology**, London, England. (British Inst. of Radiology, 32 Welbeck St., London, W.1)

19-27. **Yugoslav Seminar and Exhibition of Regulation, Measuring and Automation-Jurema 1969**, 14th, Zagreb. (Jurema, Unska U1, P.O.B. 123, Zagreb)

21-23. **Canadian Inst. of Mining and Metallurgy**, 71st, Montreal, Canada. (Executive Director, The Institute, Suite 906, 1117 St. Catherine St. W., Montreal 2, P.Q.)

21-25. **Switching Techniques for Telecommunication Networks**, London, England. (Conference Dept., Institution of Electrical Engineers, London, W.C.2)

21-26. **Canadian Pulp and Paper Assoc.**, 10th, Vancouver, B.C. (W. K. Voss, Ontario Paper Co. Ltd., Thorold, Ont.)

22-25. **Cotton Textile Research**, 1st intern. symp., Paris, France. (Institut Textile de France, 23 rue des Abondances, 92, Boulogne, France)

22-29. **Hydrology of Deltas**, intern. symp., Bucharest, Rumania. (A. I. Johnson, Water Resources Div., U.S. Geological Survey, Federal Center, Denver, Colo. 80225)

28-2. **Symposium on Radiation-Induced Carcinogenesis**, Athens, Greece. (R. N. Mukherjee, Unit of Radiation Biology, Intern. Atomic Energy Agency, Karntner Ring 11-13, A-1010 Vienna, Austria)

## May

5-8. **Instrumentation in Aerospace Simulation Facilities**, 3rd intern. congr., Farmingdale, N.Y. (C. R. Spitzer, MS 236, NASA Langley Research Center, Hampton, Va. 23365)

5-8. **International Microwave Symp.**, Dallas, Tex. (J. B. Horton, MS 905, Texas Instrument Co., Box 5012, Dallas 75222)

5-9. **Commonwealth Mining and Metallurgical Congr.**, 9th, London, England. (Congress Secretary, Commonwealth Council of Mining and Metallurgical Institutions, 44 Portland Pl., London, W.1, England)

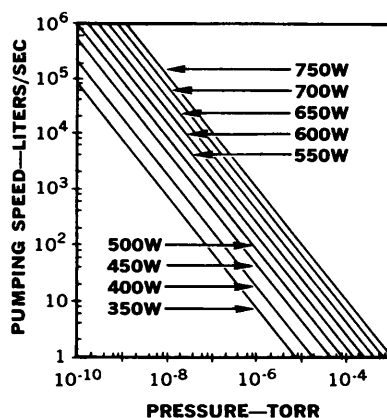
6-8. **Nuclear Electronics Symp.**, Ispra, Italy. (L. Stanchi, C.C.R. Euratom, 21020 Ispra)

6-8. **Power Thyristors and Their Applications**, London, England. (Conference Dept., Institution of Electrical Engineers, Savoy Pl., London, W.C.2, England)

6-8. **Radiosensitizing and Radioprotective Drugs**, 2nd intern. symp., Rome, Italy. (H. Moroson, Sloan-Kettering Inst. for Cancer Research, Donald S. Walker Lab., 145 Boston Post Rd., Rye, N.Y.)

6-9. **Fluid Sealing**, 4th intern. conf., Philadelphia, Pa. (J. J. Sherlock, Midwest Aero Industries, Inc., P.O. Box 536, Oak

# New Titanium Sublimation Pump



Pumping speeds vs. system pressure for getterable gasses at various power inputs to Granville-Phillips new Titanium Sublimation Pump (Assuming negligible conductance limitations).

**gives your vacuum system an extra 1,000 to 100,000 liters per second.**

- **Very High Pumping Speeds**—Intrinsic speeds greater than 100,000 liters/sec for N<sub>2</sub> at 1 x 10<sup>-8</sup> Torr.
- **Continuous Operation** — Eliminates the need for frequent sublimator replacement and pressure fluctuations due to intermittent operation.
- **Long Life** — Operates continuously for over one year at low pressure.
- **Automatic Sublimation Rate Control** — Sublimation rate unaffected by sublimator aging or line voltage changes.

Write for Bulletin 287004



**GRANVILLE-PHILLIPS COMPANY**

5675 EAST ARAPAHOE AVENUE  
BOULDER, COLORADO 80302 U.S.A.

Circle No. 85 on Readers' Service Card

Ridge Sta., 4834 Delemere Ave., Royal Oak, Mich. 48073)

7-9. International Joint Conf. on **Artificial Intelligence**, Washington, D.C. (D. E. Walker, Mitre Corp., Bedford, Mass. 01730)

10-11. International Soc. for the Study of **Social and Behavioral Sciences**, Princeton, N.J. (J. Jaynes, Dept. of Psychology, Princeton Univ., Princeton 08540)

11-18. International Exhibition on **Diagnostics**, Munich, Germany. (Munchener Messe-und Ausstellungs-Gesellschaft MBH, Theresienhohe 13, 8 Munich 12)

15-18. International **Revolving-Shutter** Products Fair, Stuttgart, Germany. (Stuttgarter Ausstellungs GMBH, Postfach 990, 700 Stuttgart 1)

26-30. **Spectroscopy**, 15th intern. colloquium, Madrid, Spain. (Secretary, XV Colloquium Spectroscopium Internationale, Serrano 119, Madrid-6)

27-31. International Assoc. of **Thalassotherapy**, 14th, Eforie Nord, Roumania (Prof. Biculescu, Strada Transilvaniei 47, Bucharest, Roumania)

27-1. German Congr. for **Medical Continuation Studies**, 18th, Berlin. (Kongressgesellschaft fur Artliche Fortbildung, Klingsortstr. 21, Berlin 41)

28-7. **Pro Aqua** Congr., 4th, Basel, Switzerland. (O. Jaag, % Secretariat Pro Aqua, Basel 21)

29-3. International Assoc. for **Accident and Traffic Medicine**, 3rd, New York, N.Y. (M. Helpert, % Office of Chief Medical Examiner, 520 First Ave., New York 10016)

29-19. General Assembly of Pan-American Inst. of **Geography and History**, Washington, D.C. (C. A. Forray Rojas, Ex-Arzobispado 29, Mexico, D.F. Mexico)

## June

1-12. Symposium on **Non-Destructive Testing of Concrete and Timber**, London, England. (Institution of Civil Engineers, Great George St., London, S.W.1)

2-6. International Symp. on **Yeasts**, Delft and The Hague, Netherlands. (L. Rodrigues de Miranda, Organizing Committee, Julianalaan 67A, Delft)

3-13. International Conf. on **Arid Lands in a Changing World**, Tucson, Ariz. (International Arid Lands Conf., % Dept. of Geochronology, Univ. of Arizona, Tucson 85721)

4-6. **Automated Analysis**, intern. congr., Chicago, Ill. (J. E. Golin, Technicon Corp., Ardsley, N.Y. 10502)

4-7. Union of Textile **Chemists and Colorists**, 21st congr., Baden-Baden, Germany. (Rohrbacherstr. 78, Heidelberg, Germany)

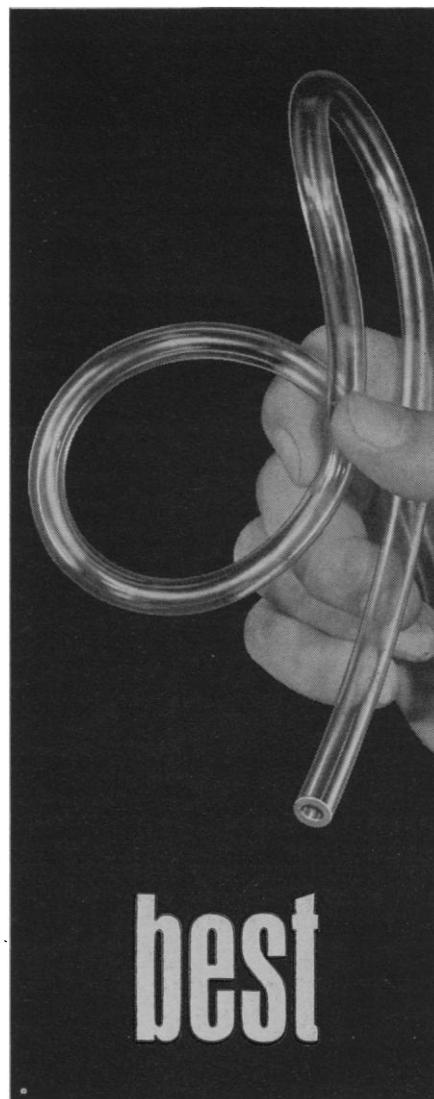
5. European Federation of Intern. College of **Surgeons**, London, England. (F. P. Fitzgerald, 129 Harley St., London, W.1)

5-7. **Mineralogical** Assoc. of Canada, Montreal, P.Q. (J. Beland, Dept. of Geology, Univ. of Montreal, Montreal)

5-11. **Forensic Sciences**, 5th intern., Toronto, Ont., Canada. (L. Ball, Center of Forensic Sciences, Dept. of Attorney General, 8 Jarvis Street, Toronto 2)

6-9. Canadian **Pediatric** Soc., Montreal, P.Q. (J. H. V., Marchessault, 14 Green Ave., St. Lambert, Quebec City, P.Q.)

8-14. Canadian **Medical** Assoc., 102nd, Toronto, Ont., Canada. (The Association,



Day in and day out, the reliability, long life and versatility of Tygon flexible plastic Tubing proves over and over that it's your best laboratory tubing investment.

## TYGON® TUBING

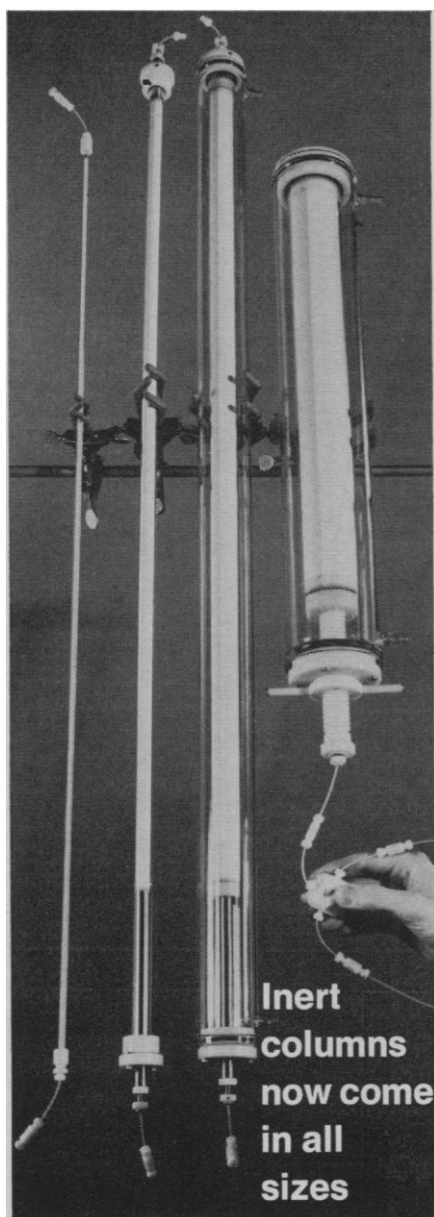
**Crystal-clear  
Flexible  
Chemically inert  
Non-oxidizing  
74 standard sizes**

At laboratory supply houses everywhere, or write Norton Plastics and Synthetics Division, Akron, Ohio 44309.

32-114

**NORTON PLASTICS AND SYNTHETICS DIVISION**  
A DIVISION OF THE NORTON COMPANY

Circle No. 83 on Readers' Service Card



Chromatronix now offers chemically inert columns with bores from 1 mm to 2 inches for all types of chromatography: ion exchange, gel filtration, gel permeation, adsorption and partition. All columns can produce rapid, high-resolution separations using fine packings and pressures up to 500 psi. □ Available for use with the columns are water jackets, flow switching valves, sample injection valves, fittings, tubing, and constant-flow pumps. The assembled equipment will handle nearly any solvent, since only glass, Teflon and Kel-F touch the stream. □ Send for 8-page technical bulletin on methods of increasing the resolution and speed of chromatography using the most advanced equipment available today.



**CHROMATRONIX**

Chromatronix, Incorporated, 2743 Eighth St., Berkeley, Calif. 94710. Phone (415) 841-7221.

Circle No. 87 on Readers' Service Card

170 St. George Street, Toronto, Canada)

9-11. **International Communications Conf.**, Boulder, Colo. (M. Nesenbergs, Environmental Science Services Administration, Inst. for Telecommunication Sciences, R614, Boulder 80302)

9-12. **International Food Congr. and Exhibition**, 7th, Madrid, Spain. (L. Naranon, % Federacion Nacional de Almacenistas de Alimentacion, Paseo del Prado 18-20, Planta 11, Madrid)

9-13. **Clean Air Congr. and Exhibition**, Dusseldorf, Germany. (V. Deutscher, Postfach 1139, 4 Dusseldorf 1)

9-14. **Canadian Assoc. of Pathologists**, Toronto, Ont., Canada. (D. W. Penner, Winnipeg General Hospital, Winnipeg 3, Manitoba)

10-20. **International Marine and Shipping Conf.**, London, England. (Inst. of Marine Engineers, 76 Mark Lane, London, E.C.3)

11-13. **Canadian Federation of Biological Societies** (Canadian Physiological Soc., Pharmacological Soc. of Canada, Canadian Assoc. of Anatomists, Canadian Biochemical Soc.), 12th, Univ. of Alberta, Edmonton. (A. H. Neufeld, Univ. of Western Ontario, London, Ont., Canada)

11-14. **Canadian Psychiatric Assoc.**, 19th, Toronto, Ont. (W. A. Blair, 225 Lisgar St., Ottawa, Ont.)

14-20. **Canadian Assoc. of Gastroenterology**, 8th, Toronto, Ont. (The Association, 426 170 St. George St., Toronto 5)

15-18. **Chemical Inst. of Canada**, 19th, Montreal, P.Q. (The Institute, 151 Slater St., Ottawa 4, Ont.)

15-20. **Canadian Anaesthetists Soc.**, 20th, Toronto, Ont. (E. R. Campbell, 178 St. George St., Toronto 5)

15-20. **International Data Processing Conf.**, Montreal, Canada. (M. Rafferty, Data Process Managing Assoc., 505 Busse Highway, Park Ridge, Ill. 60068)

15-22. **World Medical Assoc.**, 23rd, Paris, France. (M. Poumailloux, Domus Medica, 60 Blvd. de Labour-Maubourg, Paris 15)

16-18. **Thermophysics Conf.**, 4th, San Francisco, Calif. (E. R. Streed, Vehicle Systems Design Branch, NASA Ames Research Center, N244-6, Moffett Field, Calif. 94035)

16-21. **Triennial Congr. of Intern. Federation of Automatic Control**, Warsaw, Poland. (Organizing Committee, Ul Czackiego 3/5, P.O. Box 903, Warsaw 1)

16-21. **Sarcoidosis**, 5th intern. conf., Prague, Czechoslovakia. (L. Levinsky, University Clinic for Tuberculosis and Respiratory Diseases, 19 Katerinska, Prague 2)

21-29. **Quadrennial Congr. of Intern. Council of Nurses**, Montreal, Canada. (H. M. Nussabaum, P.O. Box 42, 1211 Geneva 20, Switzerland)

22-29. **Application of Mathematics in Engineering**, 5th biennial intern. congr., Weimar, Germany. (H. Matzke, Weimar College of Architecture and Building, Karl-Marx-Platz 2, 53 Weimar)

22-29. **Nephrology**, 4th intern. congr., Stockholm, Sweden. (F. Berglund, Post-fack 272, Stockholm 1)

23-25. **Shock Tube**, 7th intern. symp., Toronto, Canada. (I. I. Glass, Inst. for Aerospace Studies, Univ. of Toronto, Toronto)

## Signal averaging... plus

- 10 usec. sweep speed
- 800 or 4000 addresses
- 4-input histograms
- Integration and differentiation
- Auto- and crosscorrelation

Physioscope is more than a fast 4-input signal averager. For amplitude, peak amplitude, time or time interval histogram computing, simply insert the appropriate program plug—no auxiliary modules needed. Also included as *standard features* are pushbutton integration, differentiation, normalizing, preset sweep counting and selective readout.

Interested in on-line correlation? Just add a single module. Modular design and built-in computation capabilities make the Physioscope the most economical *full capability* statistical data processor on the market. For full details, contact: Intertechnique Instruments Inc., Randolph Industrial Park/Dover, N.J. 07801/Tel. (201) 361-5550 • (212) 267-1698



**INTERTECHNIQUE**

**INSTRUMENTS INC.**

Factories in United States and France.

Affiliates in Germany, United Kingdom and Sweden. Sales and Service Representatives throughout the world.

WORLD'S LARGEST PRODUCER OF MULTICHANNEL ANALYZERS

Circle No. 90 on Readers' Service Card