

The meetings were stimulating, and the hospitality and arrangements were unusually pleasant. Most of the participants were quartered in the same hotel in Paris, with bus transportation provided to and from Gif-sur-Yvette. One morning was set aside for visits to various laboratories in Paris, with an afternoon visit to the host Laboratory of Acoustic Physiology at Jouy-en-Josas. In the evening, the Palace of Versailles was opened and lighted especially for the conferees, and shown by French- and English-speaking guides. The final banquet was held on a *bateau mouche* on the Seine.

An outcome of the conference was the naming of an international commission which will concern itself with matters of common concern, such as the standardization of terminology, definitions, techniques, and experimental animals. The members of this commission are Servit (chairman), Sterc (secretary), Ginsburg, Swinyard, Chance, Wilson, Soulairac, Nellhaus, and Busnel.

The colloquium volume, containing the text of the papers and discussion, will be published by the Centre National de la Recherche Scientifique.

DOROTHEA STARBUCK MILLER
Division of the Biological Sciences,
University of Chicago, Chicago, Illinois

Forthcoming Events

April

27-28. Idaho Acad. of Science, annual, Moscow. (L. M. Stanford, College of Idaho, Caldwell)

27-29. Oklahoma Acad. of Science, Woodward. (A. D. Buck, Northern Oklahoma Junior College, Tonkawa)

27-29. West Virginia Acad. of Science, Bethany. (J. D. Draper, Dept. of Chemistry, West Virginia Univ., Morgantown)

28. Mississippi Acad. of Sciences, Inc., Jackson. (C. Q. Sheely, Mississippi State Univ., State College)

29-2. International Acad. of Pathology-American Assoc. of Pathologists and Bacteriologists, Montreal, Canada. (F. K. Mostofi, c/o Armed Forces Inst. of Pathology, Washington 25)

29-2. National Workshop on Aging, American Home Economics Assoc., Lafayette, Ind. (A. J. Bricker, AHEA, 1600 20th St., NW, Washington 9)

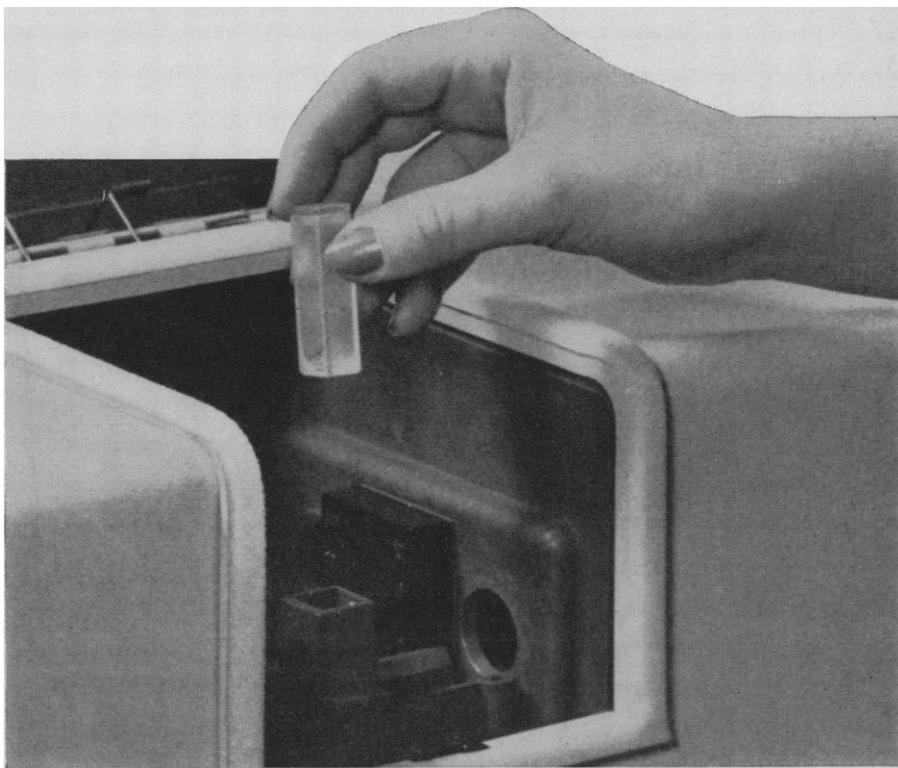
29-3. American Ceramic Soc., annual, New York, N.Y. (C. S. Pearce, ACS, 4055 N. High St., Columbus 14, Ohio)

29-4. Society of Motion Picture and Television Engineers, annual, Los Angeles, Calif. (H. Teitelbaum, SMPTE, 55 W. 42 St., New York 36)

30-1. International Acad. of Pathology, annual, Montreal, Canada. (M. Davis, Intersociety Committee on Pathology Infor-

TEST IT!

WITH YOUR TOUGHEST ANALYSIS PROBLEMS...



Bausch & Lomb Spectronic 505 Recording Spectrophotometer

This versatile instrument could be cutting the time of some of your most complex analyses, from days to hours or minutes . . . right now! It could be giving you the dependably accurate answer to just about any qualitative or quantitative problem you want to feed into it . . . at far less than half the cost of comparable instruments.

But you'll never know until you try. That's why we invite you to give it a really thorough test . . . try it with the type of work you'll want it to do . . . in your own lab or your dealer's showroom . . . at your own convenience . . . without any obligation whatsoever. Don't you owe it to yourself at least to find out?

BAUSCH & LOMB



**BAUSCH & LOMB
INCORPORATED
85628 Bausch Street
Rochester 2, N.Y.**

Please schedule an obligation-free demonstration of the Spectronic 505 in my lab at my dealer's
 Please send me a copy of "Fundamentals of Spectrophotometry"

NAME
PROFESSIONAL
ADDRESS

mation, 1785 Massachusetts Ave., NW, Washington 6)

30-1. International Acetylene Assoc., annual, Toronto, Canada. (L. Matthews, 30 E. 42 St., New York 17)

30-2. American Soc. of Mechanical Engineers, Design Engineering Div., Philadelphia, Pa. (A. B. Conlin, Jr., ASME, 29 W. 39 St., New York 18)

30-2. Association of Iron and Steel Engineers, Detroit, Mich. (T. J. Ess, AISE, 1010 Empire Building, Pittsburgh 22, Pa.)

30-2. Instrumental Methods of Analysis, natl. symp., Instrument Soc. of America, Pittsburgh, Pa. (E. E. Buckston, Works Engineering Dept., Union Carbide Chemicals Co., P.O. Box 8004, S. Charleston 3, W.Va.)

30-2. Role of Food in World Peace, intern. symp., Columbus, Ohio. (R. M. Kottman, College of Agriculture, Ohio State Univ., Columbus 10)

30-3. Mid-America Spectroscopy, annual symp., Soc. for Applied Spectroscopy, Chicago, Ill. (J. R. Ferraro, Argonne, Natl. Laboratory, 9700 S. Cass Ave., Argonne, Ill.)

30-4. Compressed Air and Hydraulics, intern. conf. and exhibition, London, England. (W. G. H. Chesher, c/o John Trundell and Partners Ltd., St. Richard's House, Eversholt St., London, N.W.1)

30-5. Automobile Technical Congr., intern., London, England. (Automobile Div., Institution of Mechanical Engineers, 1 Birdcage Walk, London, S.W.1)

May

1-3. Biologistics for Space Systems, symp. and workshop, Dayton, Ohio. (Col. A. I. Karstens, Aerospace Medical Research Laboratories, Aeronautical Systems Div., Wright-Patterson Air Force Base, Ohio)

1-3. Joint Computer Conf., San Francisco, Calif. (R. I. Tanaka, Computer Systems-Logical Design, Lockheed Missiles & Space Co., Palo Alto, Calif.)

1-4. Conference on Radiodiagnosis and Radiotherapy, Southern Rhodesia. (P. E. S. Palmer, P.O. Box 958, Bulawayo, Southern Rhodesia)

1-4. Gamma Alpha Graduate Scientific Fraternity, St. Paul, Minn. (W. T. Keeton, Dept. of Entomology, Cornell Univ., Ithaca, N.Y.)

1-4. Permeability, intern. symp., Wageningen, Netherlands. (Centrum voor Plantenfysiologisch Onderzoek, Landbouwhogeschool, Herenstraat 18, Wageningen)

1-5. Latin American Iron and Steel Inst., Buenos Aires, Argentina. (F. A. Tupper, Moneda 1140-6° Piso, Casilla 13810, Santiago, Chile)

2. International Symp. on Crop Protection, Ghent, Belgium. (I. J. Van den Brande, Institut Agronomique de l'Etat, Coupure Gauche 233, Ghent)

2-3. Iron and Steel Inst., annual, London, England. (ISI, 4 Grosvenor Gardens, London, S.W.1)

2-4. American Assoc. of Pathologists and Bacteriologists, annual, Montreal, Canada. (Intersociety Committee on

Pathology Information, 1785 Massachusetts Ave., NW, Washington 6)

2-4. European Corrosion Conf., Paris, France. (Société de Chimie Industrielle, 28, rue St. Dominique, Paris 7^e)

2-4. Institute of Management Sciences, Toronto, Canada. (T. Fabian, c/o *Matematica*, 76 Nassau St., Princeton, N.J.)

2-5. Air Force Systems Command Management Conf., Monterey, Calif. (Office of Information, AFSC, Andrews AFB, Washington 25)

2-5. Midwestern Psychological Assoc., Chicago, Ill. (D. R. Meyer, 1314 Kinnear Rd., Columbus 12, Ohio)

2-5. National Science Fair-International, Seattle, Wash. (Science Service, 1719 N St., NW, Washington 6)

2-6. Film Techniques, conf., Budapest, Hungary. (Hungarian Soc. of Optics, Acoustics and Film Techniques, Szabad-ság tér 17, Budapest V)

2-8. Space Science Symp., intern., Washington, D.C. (Secretary, Committee on Space Research, 28 Nieuwe Schoolstraat, The Hague, Netherlands)

3. Electronic Marketing Seminar, intern., San Diego, Calif. (E. T. Clare, Cohu Electronics, Inc., Box 623, San Diego)

3-4. Human Factors in Electronics, intern., Long Beach, Calif. (C. Hopkins, Hughes Aircraft Co., Culver City, Calif.)

3-5. Institute of Hospital Administrators, annual, Cardiff, Wales, England. (J. F. Milne, 75 Portland Pl., London, W.1, England)

3-5. Kansas Acad. of Science, Pittsburgh. (G. A. Leisman, Dept. of Biology, Kansas State Teachers College, Emporia)

3-5. Ohio Acad. of Science, Toledo. (G. W. Burns, 505 King Ave., Columbus 1, Ohio)

3-5. Society for American Archaeology, Tucson, Ariz. (J. B. Wheat, Univ. of Colorado Museum, Boulder)

3-5. University Computing Centres, intern. conf., Mexico, D.F., Mexico. (Centro Electrónico de Cálculo, Universidad Nacional Autónoma de México, México, D.F.)

3-7. German Soc. of Metallurgy and Mining, Berlin. (Gesellschaft Deutscher Metallhütten und Bergleute, Schliessfach 51, Clausthal-Zellerfeld, Germany)

4. North Carolina Acad. of Science, Winston-Salem. (J. A. Yarbrough, Meridith College, Raleigh, N.C.)

4-5. Colorado-Wyoming Acad. of Science, Greeley, Colo. (R. G. Beidleman, Zoology Dept., Colorado College, Colorado Springs)

4-5. Minnesota Acad. of Science, annual, Winona. (J. P. Emanuel, 206 E. Howard, Winona)

4-5. North Dakota Acad. of Science, Fargo. (B. G. Gustafson, Box 573, Union Station, Grand Forks, N.D.)

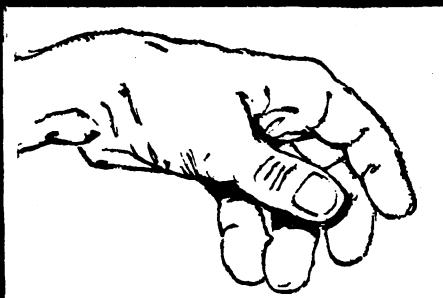
4-5. Population Assoc. of America, Madison, Wis. (K. B. Mayer, Dept. of Sociology and Anthropology, Brown Univ., Providence, R.I.)

4-5. South Dakota Acad. of Science, Vermillion. (T. Van Bruggen, Dept. of Botany, Univ. of South Dakota, Vermillion)

4-6. Protides of the Biological Fluids, colloquim, Bruges, Belgium. (H. Peeters, Sint Jans Hospitaal, Bruges)

4-6. Wisconsin Acad. of Sciences, Arts

INNOCENT GUILT! ... hands ... spreaders of hepatitis ... cross-infection



Minimize cross-infection with "no-lick" Time Tapes and Labels. Every dressing, every collection of specimen, blood, sputum, etc., requires hand service. Eliminate contact by using satin finish, vinyl coated Time Tapes or Labels. Labels will accept any pen or pencil marking or may be pre-printed to your specifications.

Write for samples and catalog today!

PROFESSIONAL TAPE CO., INC.

Dept. N.S.P. 365N Burlington, Riverside, Illinois



Dajac LABORATORIES

Over 300 New Reagents for Medical Research and Biochemical Testing

Trimethylamine Sulfur Trioxide
Sulfonating agent
5-Bromoindoxyl acetate
Esterase
2-Hydroxy-3-Naphthaldehyde
Amino groups
Fluorescein Isothiocyanate
Fluorescence microscopy
Nitro BT®
Dehydrogenase
2-[4-Hydroxybenzeneazo] benzoic acid
Albumen in plasma
LNA®, Leucine Amino Peptidase Substrate
Liver function test
PAM Iodide, PAM Chloride
Anti-cholinergic agent
6-Bromo-2-Naphthyl-β-D-Glucuronide
B-Glucuronidase
1, 4-Naphthoquinone Sulfonate, Potassium
Creatinine
Carbonathoxy Choline Chloride
Choline esterase
DDD, [2,2-Dihydroxy-6,6-Dinaphthyl
Disulfide]
Sulphydryl groups
Tetrazolium Salts
Enzyme systems

Write for catalog S-42 today.
Custom Syntheses Invited.

THE Borden CHEMICAL COMPANY
5000 LANGDON STREET • P. O. BOX 9522
PHILADELPHIA 24, PA.

Speaking
of
Millipore®
Filters

Recommended Practice for Biological Analysis of Water-Flood Injection Waters

A membrane filter technique for the biological examination of water is described. Iron bacteria, algae and protozoa are concentrated on the filter, the filter is then dried, cut into squares and individually mounted on glass slides. By rendering the squares transparent with immersion oil, microscopic examination with transmitted light is possible.

American Petroleum Institute, 1959
API RP 38, May

.....

Millipore® filters are available in eleven pore-size grades from 5 μ down to 10 μ. They retain on their surfaces all particles larger than rated pore size.

When writing for technical information please state your fields of interest.

Millipore® FILTER CORPORATION
Dept. S, Bedford, Massachusetts

and Letters, La Crosse. (T. J. McLaughlin, Univ. of Wisconsin, 3203 N. Downer Ave., Milwaukee 11)

5-6. Academy of Psychoanalysis, annual, Toronto, Canada. (J. H. Merin, 125 E. 65 St., New York 21)

5-6. Society of Biological Psychiatry, annual, Toronto, Canada. (G. N. Thompson, 2010 Wilshire Blvd., Los Angeles 57, Calif.)

5-7. International Congr. of Medical Laboratory Technologists, Cologne, Germany. (M. Gesundheitsverwaltung, Intern. Assoc. of Medical Laboratory Technologists, Cologne)

6-9. Bockus Alumni Intern. Soc. of Gastroenterology, annual, Geneva, Switzerland. (J. L. A. Roth, Graduate Medical Bldg., Suite 302, 419 S. 19 St., Philadelphia 46, Pa.)

6-9. National Power Instrumentation Symp., Fort Worth, Tex. (C. W. Macune, Westronics, Inc., 3605 McCart, Fort Worth 10)

6-10. American Soc. for Microbiology, annual, Kansas City, Mo. (P. Gerhardt, Dept. of Bacteriology, Univ. of Michigan, Ann Arbor)

6-10. Electrochemical Soc., annual, Los Angeles, Calif. (R. K. Shannon, 1860 Broadway, New York 23)

6-10. French Soc. of Ophthalmology, Paris. (M. A. Dollfus, FSO, 27, rue du Faubourg-Saint-Jacques, Paris 16^e)

6-12. World Congr. of Gastroenterology, Munich, Germany. (G. A. Martini, Martinstr. 52, Hamburg 20, Germany)

7. League against Trachoma, annual, Paris, France. (J. Sédan, Ligue contre le Trachoma, 94, rue Sylvabelle, Marseilles, France)

7-8. American Inst. of Mining, Metallurgical and Petroleum Engineers, Soc. of Petroleum Engineers' Secondary Recovery Symp., Wichita Falls, Tex. (E. O. Kirkendall, AIME, 29 W. 39 St., New York 18)

7-9. American Oil Chemists' Soc., annual, New Orleans, La. (W. O. Lundberg, Hormel Inst., Univ. of Minnesota, 801 16 Ave., NE, Austin)

7-9. Implications of Organic Peroxides in Radiobiology, intern. symp., Argonne, Ill. (R. N. Feinstein, Div. of Biological and Medical Research, Argonne Natl. Laboratory, Argonne)

7-9. National Watershed Congr., annual, Columbus, Ohio. (C. R. Gutermuth, Wildlife Management Inst., Washington, D.C.)

7-11. American Psychiatric Assoc., Toronto, Canada. (C. H. H. Branch, 156 Westminster Avenue, Salt Lake City, Utah)

7-11. American Soc. of Tool and Manufacturing Engineers, annual convention and tool exposition, Cleveland, Ohio. (A. Cervenka, Vanderbilt Blvd., Oakdale, N.Y.)

7-11. Radiation Damage in Solids and Reactor Materials, symp., Intern. Atomic Energy Agency, Venice, Italy. (IAEA, 11 Kärntner Ring, Vienna 1, Austria)

7-11. Society of Photographic Scientists and Engineers, annual, Boston, Mass. (E. S. Cobb, Box 1609, Main Post Office, Washington, D.C.)

7-12. International Conf. of Marine Engineers, London, England. (Inst. of Ma-

rine Engineers, Memorial Bldg., 76 Mark Lane, London, E.C.3)

7-12. International Seed Testing Assoc., annual congr., Lisbon, Portugal. (A. F. Schoorel, ISTA, Binnenhaven 1, Wageningen, Netherlands)

8. American Soc. of Safety Engineers, Chicago, Ill. (A. C. Blackman, ASSE, 5 N. Wabash Ave., Chicago 2)

8. World Health Assembly, annual, Geneva, Switzerland. (World Health Organization, Palais des Nations, Geneva)

8-10. American Soc. of Lubrication Engineers, annual, St. Louis, Mo. (A. E. Cichelli, Bethlehem Steel Co., 701 E. Third St., Bethlehem, Pa.)

8-10. World Commission on Vocational Rehabilitation, annual, Washington, D.C. (D. Warms, Intern. Soc. for Rehabilitation of the Disabled, 701 First Ave., New York 17)

8-19. Latin American Meeting on Higher Agricultural Education, Medellín, Colombia. (Intern. Agency Liaison Branch, Office of Director General, U.N. Food and Agriculture Organization, Viale delle Terme di Caracalla, Rome, Italy)

9-11. Conference on Mucous Secretions, New York, N.Y. (S. Jakowska, Natl. Cystic Fibrosis Research Foundation, 521 Fifth Ave., New York 17)

9-11. Operations Research Soc. of America, Washington, D.C. (G. D. Shellard, New York Life Insurance Co., 51 Madison Ave., New York 10)

9-12. Glass Technology Conf., Baden-Baden, Germany. (Deutsche Glastechnische Gesellschaft, Bockenheimer Landstr. 126, Frankfurt am Main)

9-12. Science Writers Seminar, intern., Seattle, Wash. (Intern. Press Inst., Münsterstrasse 9, Zurich 1, Switzerland)

9-12. Virginia Acad. of Science, Norfolk. (P. M. Patterson, Hollins College Branch, Roanoke)

9-19. Prediction of Volcanic Eruptions and the Relationship between Magmas and the Nature of Volcanic Eruptions, symp., Tokyo, Japan. (Secretary, Organizing Committee, c/o Science Council of Japan, Ueno Park, Tokyo)

10-12. Meetings on Diabetes, University of Paris, Paris, France. (M. Rathery, Hotel-Dieu, Paris)

10. Glass Container Technology, seminar, New York, N.Y. (Packaging Inst., 342 Madison Ave., New York 17)

10. Vitamins and Transplantation Immunity, Assoc. of Vitamin Chemists, Chicago, Ill. (H. S. Perdue, Abbott Laboratories, N. Chicago)

10-11. American Inst. of Chemists, Inc., Chicago, Ill. (J. Kotrady, c/o AIC, 60 E. 42 St., New York 17)

10-12. Food Protection, intern. symp., Ames, Iowa. (J. C. Ayres, Dept. of Dairy and Food Industry, Iowa State Univ., Ames)

12. International College of Surgeons, clinical meeting, London, England. (Secretary, ICS, 1516 Lake Shore Dr., Chicago 10, Ill.)

13-16. American Acad. of Dental Medicine, annual, Baltimore, Md. (P. Block, 36 N. Luzerne Ave., Baltimore)

13-16. Transfer of Calcium and Strontium across Biological Membranes, conf., Ithaca, N.Y. (R. H. Wasserman, Dept.

WHAT'S NEW

Measuring dark, fuzzy-edged absorption bands against the usual spectroscope hairline is akin to finding black cats in coal mines.

But in a *reversion* spectrometer there are *two* brilliant identical spectra running one next to the other in opposite directions. You seek no *hairline*.

Rotating the wavelength micrometer head slides the two spectra along in *opposite* directions. Locating the wavelength of a particular absorption (or emission) band requires only matching of the band with *itself*—a task at which the eye excels. One then simply reads the wavelength directly from the micrometer head. It reads immediately to 1 Angstrom!

There are many applications. The *quantitative* measurement of carbon monoxide in blood is a snap; the shift in wavelength of an absorption band (referenced to normal blood) being proportional to the carbon monoxide content. For bio-medical uses order the complete *Clinical Hartridge Reversion Spectrometer Set*, Model 26-410, price \$548.50 (Spectrometer alone is \$299.50).

Want to quickly check interference filter peaks and bandwidths? Or measure wavelength shift as a function of filter angle? Want to make fast, positive inspection of metal stock for particular alloy elements? Order the general purpose Model 26-380 *Direct Reading Reversion Spectrometer*, price \$495.

The striking, unambiguous spectral presentation of both instruments is ideal for rapid teaching demonstrations. Get full details in our **Spectroscopes, Spectrometers & Spectral Sources Brochure**. It's free.

THE EALING CORPORATION

33 University Road,
Cambridge 38, Massachusetts
Telephone: 617-KI 7-5760
Cable: Ealing

27 APRIL 1962

of Physical Biology, New York State Veterinary College, Cornell Univ., Ithaca)
13-17. American Industrial Hygiene Assoc., conf., Washington, D.C. (W. S. Johnson, Bethlehem Steel Co., Bethlehem, Pa.)

14-16. National Aerospace Electronics Conf., Dayton, Ohio. (Inst. of the Aerospace Sciences, 2 E. 64 St., New York 21)

14-16. Technical Assoc. of the Pulp and Paper Industry, coating conf., annual, Cincinnati, Ohio. (TAPPI, 155 E. 44 St., New York 16)

14-18. American Soc. of Civil Engineers, convention, Omaha, Neb. (W. H. Wisely, 345 E. 47 St., New York 17)

14-18. Hormonal Steroids, intern. congr., Milan, Italy. (L. Martini, Instituto de Farmacologia e Terapia, 21 Via A. del Sarto, Milan)

14-19. International Office of Epizootics, Paris, France (Office Internationale des Epizooties, 12, rue de Prony, Paris)

15-16. Council on Medical Television, annual, Bethesda, Md. (J. F. Huber, CMT, Inst. for Advancement of Medical Communication, 33 E. 68 St., New York 21)

15-16. Injury, Inflammation, and Immunity, intern. symp., Elkhart, Ind. (L. Thomas, Dept. of Medicine, New York Univ., Bellevue Medical Center, New York, N.Y.)

15-17. World Food Forum, Washington, D.C. (J. K. McClaren, U.S. Dept. of Agriculture, 409 Administration Bldg., Washington 25)

15-19. International College of Surgeons, European federation, surgical congr., Amsterdam, Netherlands. (J. Blazenburg, ICS Netherlands Section, A. Perkstraat 57, Hilversum, Netherlands)

16. Design of Talking and Writing Machines for the Rehabilitation of Communication Disabilities, conf., New York, N.Y. (C. Berkeley, Foundation for Medical Technology, 2 E. 63 St., New York 21)

16-17. Navy Medical-Dental TV Workshop, Bethesda, Md. (Inst. for Advancement of Medical Communication, 33 E. 68 St., New York 21)

16-18. Conference on Dust, Scheveningen, Netherlands. (Fachgruppe Staubtechnik, Prinz-Georg-Str. 77/79, Düsseldorf 10, Germany)

16-18. Noise Abatement, intern. congr., Salzburg, Austria. (Oesterreichischer Arbeitsring für Lärmbekämpfung, Stubenring 1, Vienna 1, Austria)

16-26. Large Electric Systems, intern. conf., Paris, France. (ICLES, 112 Boulevard Haussmann, Paris 8^e)

17-18. Regional Implications of Space Research, symp. (by invitation), Durham, N.C. (C. E. Whitefield, Bureau of Public Information, Duke Univ., Durham)

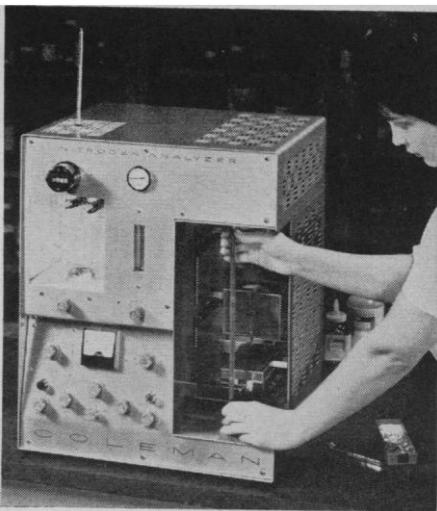
17-19. American Inst. of Industrial Engineers, annual, Atlantic City, N.J. (W. J. Jaffe, Newark College of Engineering, Newark, N.J.)

17-19. Eccrine, Apocrine, and Holo-crine Glands, symp., Madison, Wis. (Div. of Postgraduate Medical Education, University of Wisconsin Medical School, Madison 6)

17-19. Nepiology, intern. conf., Catania, Sicily. (S. Rapisardi, Via Mavilla 37, Catania)

17-19. Paralanguage and Kinesics, conf.,

COLEMAN



Proven in automated nitrogen analysis

Now in use in hundreds of laboratories, the automated Coleman Nitrogen Analyzer is providing rapid and exacting results for an almost unlimited range of materials.

From foods to fertilizers, from plastics to petroleum derivatives, from biological materials to organic intermediates—the instrument is supplementing or replacing both the manual Dumas and the Kjeldahl methods.

Operation of the instrument is simple. The operator is required merely to weigh and install the sample, to actuate the instrument, and 8 minutes later to read and record nitrogen volume from a digital counter.

Thus, an analyst without extensive training in microchemistry can produce excellent results in both routine investigations and in research.

Find out how the Coleman Nitrogen Analyzer can benefit your laboratory — ask for Bulletin SB-258A and a demonstration.

COLEMAN

COLEMAN INSTRUMENTS, INC.
MAYWOOD, ILLINOIS

Bloomington, Ind. (T. A. Sebeok, Research Center in Anthropology, Ray House, Indiana Univ., Bloomington)

17-20. International Medical Soc. of Endoscopic Photocinematography, Television and Radiocinematography, Louvain, Belgium. (J. M. Dubois de Montreynaud, Société Médicale Internationale d'Endoscopie et de Radiocinématographie, 4, rue du Général-Baratier, Rheims, France)

17-31. Special Libraries Assoc., Washington, D.C. (J. B. North, Missile and Space Div., Lockheed Aircraft Corp., 50-14, Palo Alto, Calif.)

18. Problems of Finding and Using the Chemical Literature, symp., Columbus, Ohio. (B. S. Youngblood, Columbus Section, Amer. Chemical Soc., 2835 Pontiac Ave., Columbus 11)

18-19. Indiana Acad. of Science, Mitchell. (W. W. Bloom, Valparaiso Univ., Valparaiso, Ind.)

18-29. European Plastics and Rubber Conf., Paris, France. (Du Mont Publicity Co., 18 Queensberry Place, London, S.W.7, England)

19-20. International Assoc. for the Study of the Liver, Munich, Germany. (G. A. Martini, c/o Universitäts Krankenhaus, Eppendorf, Hamburg, Germany)

20-23. American Inst. of Chemical Engineers, natl., Baltimore, Md. (F. J. Van Antwerpen, AICE, 345 E. 47 St., New York 17)

20-23. Humidity and Moisture, intern. symp., Washington, D.C. (W. A. Wildhack, Office of Basic Administration, Natl. Bureau of Standards, Washington 25)

20-23. Radiation Research Soc., annual, Colorado Springs, Colo. (E. L. Powers, RRS, Argonne Natl. Laboratory, Argonne, Ill.)

20-24. Air Pollution Control Assoc., annual, Chicago, Ill. (D. A. Sullivan, APCA, 4400 Fifth Ave., Pittsburgh, Pa.).

20-24. American Assoc. of Cereal Chemists, Saint Louis Park, Minn. (B. S. Miller, Dept. of Flour and Feed Milling, Kansas State Univ., Manhattan)

21-22. Society of American Military Engineers, annual, Washington, D.C. (SAME, 808 Mills Bldg., Washington 6)

21-23. National Aerospace Instrumentation Symp., Washington, D.C. (C. Creveling, Goddard Space Flight Center, Greenbelt, Md.)

21-24. Air Pollution Instrumentation Symp., Chicago, Ill. (D. F. Adams, Div. of Industrial Research, Washington State Univ., Pullman)

21-25. Max Planck Inst. for the Advancement of Science, general assembly, Düsseldorf, Germany. (MPIAS, Kaiserswerther Str. 164, Düsseldorf)

21-25. Plastic and Reconstructive Surgery of the Eye and Adnexa, intern. symp., New York, N.Y. (R. Troutman, Manhattan Eye, Ear & Throat Hospital, 210 E. 64 St., New York 21)

21-25. Thermodynamics of Nuclear Materials, symp., Vienna, Austria. (Intern. Atomic Energy Agency, 11 Kärntner Ring, Vienna 1)

21-26. Ceramic Congr., intern., Copenhagen, Denmark. (Arbejdsgivere, Indenfor de Keramiske Industrier, Nørre Volgade 34, Copenhagen K)

21-26. Rubber Technology Congr., annual, London, England. (Secretary, Insti-

tution of the Rubber Industry, 4, Kensington Palace Gardens, London, W.8)

22-24. National Microwave Theory and Techniques, symp., Inst. of Radio Engineers, Boulder, Colo. (L. G. Cumming, IRE, 1 E. 79 St., New York 21)

22-24. Self-Organizing Systems, conf., Chicago, Ill. (G. T. Jacobi, Armour Research Foundation, 10 W. 35 St., Chicago 16)

22-25. Rationalizing Consumption of Electric Power, intern. symp., Warsaw, Poland. (Ministry of Mines and Power, Krucza 36, Warsaw)

22-25. Rubber Technology Conf., Scarborough, England. (Institution of the Rubber Industry, 4 Kensington Palace Gardens, London, W.8)

22-26. Disposal and Utilization of Solid Domestic and Industrial Wastes, intern.

congr., Essen, Germany. (Haus der Technik, Schliessfach 668, Essen)

22-26. International Medico-Athletic Federation, congr., Santiago, Chile. (G. La Cava, Via A. Serra, 104, Rome, Italy)

23-24. Forming and Testing of Sheet Metal, intern. colloquium, Düsseldorf, Germany. (J. Hooper, Intern. Deep Drawing Research Group, John Adam St., Adelphi, London, W.C.2, England)

23-25. American Soc. for Quality Control, annual, Cincinnati, Ohio. (A. W. Wortham, Texas Instruments, Inc., P.O. Box 5474, Dallas 22)

24-26. Institute of Radio Engineers, conf. on space communications, Seattle, Wash. (IRE, 1 E. 79 St., New York 21)

24-26. International Assoc. for Bronchology, Bruges, Belgium. (R. Pannier,

NEW!
Automatic
pH
Controller

with Autoclavable
pH Electrodes

Indicating pH Meter
Strip-Chart Recorder-
Controller
Peristaltic Addition Pump
Addition and Stirring
Cycle Timers



CONTROLS and RECORDS pH AUTOMATICALLY

The New Brunswick Automatic pH Controller provides continuous regulation, monitoring and recording of pH in any active fermentation or chemical process at laboratory, pilot plant or production levels.

This compact unit controls pH at any pre-selected level throughout the entire acid-base range with an accuracy of ± 0.1 pH. Specially constructed electrodes with

insulated wire leads withstand repeated steam sterilization at temperatures up to 250°F and pressures to 100 psi.

The mobile apparatus, with electrodes, is readily integrated in New Brunswick Fermentors as well as most other fermentation vessels. Find out how this apparatus can solve your individual pH control problems. Unconditional One Year Warranty.

Write for Catalog PHS/4272



NBS

New Brunswick Scientific Co., Inc.
1130 Somerset Street, New Brunswick, New Jersey

Manufacturers and Distributors of Precision Laboratory Apparatus

c/o Service de Pneumo-Phtisologie, Hôpital Saint-Jean, Bruges)

26-30. International Federation for Hygiene and Preventive Medicine, intern. congr., Vienna, Austria. (E. Musil, IFHPM, Mariahilfer Strasse 177, Vienna)

27-30. Chemical Inst. of Canada, annual conf. and exhibition, Edmonton. (CIC, 48 Rideau St., Ottawa 2, Ont.)

27-2. International Federation of Pre-stressing, 4th congr., Rome, Italy. (IFP, 6, rue Paul Valéry, Paris, 16^e)

28-30. American Assoc. for Contamination Control, 1st annual, San Francisco, Calif. (D. M. Petersen, Central Vacuum Corp., 3008 E. Olympic Blvd., Los Angeles 23, Calif.)

28-30. Biology of the Transuranic Elements, symp., Richland, Wash. (R. C. Thompson, Hanford Biology Laboratory, General Electric Co., Richland)

28-30. Heavy Water Reactors, Canadian Nuclear Assoc., annual conf., Ottawa, Ont., (CNA, 19 Richmond St. West, Toronto 1)

28-30. International Discussion on Heat Treating, Lausanne, Switzerland. (Institut für Härtereite-Technik, Postfach 13, Bremen-St. Magnus, Germany)

28-1. Modern Techniques of Computation and Industrial Automation, colloquium, Paris, France. (Assoc. Française de Régulation et d'Automatisme, 19, rue Blanche, Paris 9^e)

28-2. International Ophthalmic Optical Congr., Berlin, Germany. (G. H. Giles, Intern. Optical League, 65 Brook St., London, W.1, England)

28-2. United Nations Scientific Committee on the Effects of Atomic Radiation, New York, N.Y. (UN, New York)

29-2. American College of Cardiology, Inc., Denver, Colo. (I. Brotman, 1746 K St., NW, Washington, D.C.)

29-22. World Meteorological Organization, congr., Geneva, Switzerland. (WMO, 41, Avenue Giuseppe Motta, Geneva)

29-31. Tissue Culture Assoc., annual, Washington, D.C. (R. E. Stevenson, Natl. Cancer Inst., Bethesda 14, Md.)

31-3. European Symp. on Fresh Water from the Sea, Athens, Greece. (P.O. Box 1199, Omonoia, Athens)

31-3. German Bunsen Soc. for Physical Chemistry, general assembly, Münster. (F. Vorländer, Varrentrappstr. 40-42, Frankfurt am Main, Germany)

31-7. Television Conf., intern., London, England. (Secretary, Institution of Electrical Engineers, Savoy Place, London, W.C.2)

June

1-2. European Acad. of Allergy, Prague, Czechoslovakia. (C. Hersheimer, Theyss-Str. 23, Berlin, Germany)

3-8. American Soc. for Testing and Materials, Committee on Mass Spectrometry, annual, New Orleans, La. (G. Crable, Physics Dept., Geneva College, Beaver Falls, Pa.)

4-6. Association of Iron and Steel Engineers, Colorado Springs, Colo. (T. J. Ess, AISE, 1010 Empire Bldg., Pittsburgh 22, Pa.)

4-6. Chemistry and Technology of Chlorine and Chloroderivatives, mtg., Szczecin. Polish Chemical Soc. (A. Z. Zieliński, Politechnika Szczecinska, U1. Pułaskiego 10, Szczecin 3)

4-6. Edison Electric Inst., annual, Atlantic City, N.J. (A. B. Morgan, EEI, 750 Third Ave., New York 17)

4-6. International Water Study Sessions, Liège, Belgium. (CEBEDEAU, 2, rue Armand Stévert, Liège)

4-7. Nuclear Congr. and Intern. Atomic Exposition, biennial, New York, N.Y. (Engineers Joint Council, 29 W. 39 St., New York 18)

4-8. Medical Library Assoc., annual, Chicago, Ill. (D. Washburn, American Dental Assoc., 222 E. Superior St., Chicago 11)

4-8. Modern Thermal and Hydraulic Power Plants, intern. study days, Liège, Belgium. (Secretary, Assoc. des Ingénieurs Électriciens sortis de l'Institut Electrotechnique Montefiore, rue Saint-Gilles, 31, Liège)

4-8. Society of Chemical Industry, overseas section, annual, Stockholm, Sweden. (G. P. Armstrong, c/o Distillers Co. Ltd., 21 St. James Sq., London, England)

4-8. Society of Physical Chemistry, annual, Paris, France. (O. Emschwiller, Ecole Supérieure de Physique et de Chimie, 10 rue Vauquelin, Paris 5^e)

4-10. Corrosion of Reactor Materials, conf., Intern. Atomic Energy Agency, Salzburg, Austria. (IAEA, 11 Kärntner-ring, Vienna 1, Austria)

5-6. International Neurological Meeting, Paris, France. (J. Sigwald, Société Française de Neurologie, 68, Boulevard de Courcelles, Paris 17^e)

5-8. Microwave Communication, Budapest, Hungary. (G. Bognár, Hungarian Acad. of Sciences, Akadémia utca 2, Budapest V)

5-8. Group for the Advancement of Spectrographic Methods, annual congr., Paris, France. (Groupement pour l'Avancement des Méthodes Spectrographiques, 1, rue Gaston-Boissier, Paris 15^e)

6-8. American Scientific Glassblowers Soc., annual symp. and exposition, Washington, D.C. (G. A. Sites, ASGS, 309 Georgetown Ave., Wilmington 3, Del.)

6-8. Canadian Federation of Biological Societies, annual, Quebec. (A. H. Neufeld, Dept. of Pathological Chemistry, Univ. of Western Ontario, London, Ont., Canada)

6-9. International Assoc. for Cereal Chemistry, Vienna, Austria. (F. Schweitzer, Maurer, Heudöfelgasse 41, Vienna 23)

7-9. Manufacturing Chemists' Assoc., Inc., White Sulphur Springs, W.Va. (R. D. Lambert, MCA, 1825 Connecticut Ave., NW, Washington 9)

7-9. U.N. Food and Agriculture Organization—Intern. Union of Forest Research Organizations, Joint Committee on Bibliography, Freiburg, Switzerland. (Intern. Agency Liaison Branch Office of Director General, FAO, Viale delle Terme di Caracalla, Rome, Italy)

8-9. Nutrition Soc. of Canada, annual, Quebec City. (E. V. Evans, Dept. of Nutrition, Ontario Agricultural College, Guelph, Ont., Canada)

10-14. Institute of Food Technologists, Miami Beach, Fla. (C. L. Willey, 176 W. Adams St., Chicago 3, Ill.)

A COMPLETE POLAROGRAPH
Every Seven Seconds...

The entire change of potential is effected during the lifetime of a single mercury drop...and the entire polarogram is reproduced on the screen once every 7 seconds, cutting analysis time to a fraction!

The Cathode Ray
POLAROTRACE
WITH ELECTRODE STAND

New available with ANODIC CONVERSION UNIT to make possible measurement of anodic waves. Camera attachment also available.

Polarotrace is a product of SOUTHERN ANALYTICAL, LIMITED CAMBERLEY, SURREY, ENGLAND

Determines concentrations OVER A THOUSAND TIMES LOWER than conventional types of polarographic instruments.
For DIRECT or Derivative Operation • Faster • More Sensitive
Greater Resolution • Easier to Operate • Ruggedly Designed
Cat. No. S-83725 — POLAROTRACE,
with Electrode Stand \$4,500.
DETAILED INFORMATION AVAILABLE UPON REQUEST
Our application laboratory is at your disposal to run test specimens.

STANDARD SCIENTIFIC
Supply Corp.

808 BROADWAY
NEW YORK 3, N.Y.

LABORATORY APPARATUS
REAGENTS AND CHEMICALS