

THE AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE

and

THE NATIONAL SCIENCE FOUNDATION

announce the publication of revised editions of two popular booklists, and the issuance of three new publications of the Science Library Program:

THE TRAVELING HIGH SCHOOL SCIENCE LIBRARY (5th edition, 1959), an annotated catalog of the 200 books in a special loan collection being sent to 1700 schools this year, 25¢ a copy.

THE TRAVELING ELEMENTARY SCHOOL SCIENCE LIBRARY (1st edition), an annotated catalog of the 160 books in a special collection being sent to 800 selected elementary schools, 25¢ a copy.

AN INEXPENSIVE SCIENCE LIBRARY (3rd edition, 1959), a selected and annotated list of over 400 paperbound science books suitable for high-school students and non-specialist adult readers, 25¢ a copy.

THE AAAS SCIENCE BOOK LIST (1959), an annotated checklist of about 900 books recommended for high-school and public libraries prepared with the collaboration of members of the AAAS Council and other scientists and educators, \$1.00 per copy, net.

A SELECTED LIST OF CAREER GUIDANCE PUBLICATIONS, prepared for high school students and teachers. Single copy free.

A discount of one-third is offered on orders for 25 or more copies of all lists, *except The AAAS Science Book List*, if sent to a single address. Remittances should accompany orders totalling less than \$5.00. *Do not send postage stamps in payment.*

Address orders to AAAS PUBLICATIONS
1515 Massachusetts Avenue, N.W.
Washington 5, D.C.

Meetings

Forthcoming Events

November

1-4. Society of Economic Geologists, Pittsburgh, Pa. (H. M. Bannerman, U.S. Geological Survey, Washington 25.)

2-4. American Clinical and Climatological Assoc., Hot Springs, Va. (F. T. Billings, 420 Medical Arts Bldg., Nashville, Tenn.)

2-4. Atomic Industrial Forum, annual conf., Washington, D.C. (Atomic Industrial Forum, Inc., 260 Madison Ave., New York 16.)

2-4. Geochemical Soc., Pittsburgh, Pa. (K. B. Krauskopf, Geology Dept., Stanford Univ., Stanford, Calif.)

2-4. Geological Soc. of America, Pittsburgh, Pa. (H. R. Aldrich, 419 W. 117 St., New York 27.)

2-4. Mineralogical Soc. of America, Pittsburgh, Pa. (C. S. Hurlbut, Jr., 12 Geological Museum, Harvard Univ., Oxford St., Cambridge 38, Mass.)

2-4. National Assoc. of Geology Teachers, Pittsburgh, Pa. (F. Foote, Dept. of Geology, Williams College, Williamstown, Mass.)

2-4. Paleontological Soc., Pittsburgh, Pa. (H. B. Whittington, Museum of Comparative Zoology, Harvard Univ., Cambridge 38, Mass.)

2-5. Physical and Extractive Metallurgy, symp., Chicago, Ill. (Metallurgical Soc. of AIME, 29 W. 39 St., New York 18.)

2-6. American Inst. of Mining, Metallurgical, and Petroleum Engineers and Inst. of Metals, fall, Chicago, Ill. (E. O. Kirkendall, AIME, 29 W. 39 St., New York 18.)

2-6. Collegium Internationale Allegalogicum, 4th symp., Rome, Italy. (A. Cerletti, Pharmacological Laboratories, Sandoz, Ltd., Basel, Switzerland.)

4-5. Diffraction, 17th annual conf., Pittsburgh, Pa. (P. K. Koh, Allegheny Ludlum Steel Corp., Research and Development Laboratories, Brackenridge, Pa.)

4-6. American Nuclear Soc., conf., Washington, D.C. (American Nuclear Soc., John Crerar Library, 86 E. Randolph St., Chicago 1, Ill.)

4-6. Antibiotics, 7th annual symp., Washington, D.C. (H. Welch, Div. of Antibiotics, Food and Drug Administration, Dept. of Health, Education, and Welfare, Washington 25.)

4-6. Design of Experiments in Army Research, 5th conf. (by invitation only), Fort Detrick, Frederick, Md. (F. G. Dresel, Office of Ordnance Research, Box CM, Duke Station, Durham, N.C.)

4-6. Eastern Analytical Symp., New York, N.Y. (P. Lublin, Publicity Chairman, Sylvania Research Laboratories, Bay-side, N.Y.)

4-6. Industrial management Soc., Chicago, Ill. (R. J. Mayer, IMS, 330 S. Wells St., Chicago 6.)

4-6. National Automatic Control Conf., Dallas, Tex. (G. L. Turin, Hughes Research Laboratories, Culver City, Calif.)

4-6. Society of Rheology, 30th anniversary, Bethlehem, Pa. (J. T. Bergen, Armstrong Cork Co., Lancaster, Pa.)

4-6. Technical Assoc. of the Pulp and

Paper Industry, 13th alkaline pulping conf., Jacksonville, Fla. (TAPPI, 155 E. 44 St., New York 17.)

5-8. Group for the Advancement of Psychiatry, New York, N.Y. (American Psychiatric Assoc., 1700 18 St., NW, Washington 9.)

6. Gastroenterology Research Group, 9th semi-annual, Chicago, Ill. (E. Clinton Dexter, Jr., Ward Memorial Bldg., Medical School, Northwestern Univ., 303 E. Chicago Ave., Chicago 11.)

8-13. International Rubber Conf., Washington, D.C. (B. S. Garvey, Jr., Pennsalt Chemical Corp., Industrial Chemicals Div., 813 Lancaster Pike, Wayne, Pa.)

9-11. American Petroleum Inst., 39th annual, Chicago, Ill. (API, 50 W. 50 St., New York 20.)

9-11. Association of Military Surgeons, 66th annual conv., Washington, D.C. (R. E. Bitner, AMS, Suite 718, 1726 Eye St., NW, Washington 6.)

9-11. Chemical Engineering, symp., Hamilton, Ontario, Canada. (Chemical Inst., 18 Rideau St., Ottawa 2, Ontario.)

9-11. Institute of Radio Engineers—Electronics Industries Assoc., fall, Syracuse, N.Y. (L. G. Cumming, IRE, 1 E. 79 St., New York 21.)

9-11. Instrumentation Conf., 4th, Atlanta, Ga. (W. B. Jones, Jr., School of Electrical Engineering, Georgia Inst. of Technology, Atlanta 13.)

9-12. Society of Exploration Geophysicists, 29th annual intern, Los Angeles, Calif. (B. Roberts, SEG, 1544 N. Highland Ave., Los Angeles 28.)

10-12. Electrical Techniques in Medicine and Biology, 12th annual conf., Philadelphia, Pa. (D. A. Holaday, College of Physicians and Surgeons, Columbia Univ., New York 32.)

10-15. Laboratory Measurement and Automation Techniques in Chemistry, intern. cong., Basel, Switzerland. (ILMAC, 61 Clarastrasse, Basel, Switzerland.)

11-12. Clinical Anticancer Drug Research, Washington, D.C. (B. H. Morrison, III, Cancer Chemotherapy National Service Center, National Cancer Inst., Bethesda 14, Md.)

11-13. Gerontological Soc., Detroit, Mich. (R. W. Kleemeier, Dept. of Psychology, Washington Univ., St. Louis 5.)

11-14. Society of Naval Architects and Marine Engineers, annual, New York, N.Y. (W. N. Landers, SNAME, 74 Trinity Pl., New York 6.)

12-13. Cardiology in Aviation, intern. symp., Brooks Air Force Base, Tex. (L. E. Lamb, Dept. of Internal Medicine, School of Aviation Medicine, Brooks Air Force Base.)

12-13. Operations Research Soc., natl., Pasadena, Calif. (D. A. Katcher, 4608 Morgan Drive, Chevy Chase 15, Md.)

12-13. Utilization of Atomic Energy, 2nd annual conf., College Station, Tex. (G. M. Krise, Radiation Biology Laboratory, Texas Engineering Experiment Station, College Station.)

12-18. International Odontological Session (with 64th Paris Dental Congress), Paris, France. (J. Charon, Secretary-General, 31, rue Tronchet, Paris 8^e, France.)

15-18. Society of American Foresters, 59th, San Francisco, Calif. (Soc. of American Foresters, Mills Bldg., 17th and Pennsylvania Ave., NW, Washington 6.)

15-19. American Soc. of Agronomy, Cincinnati, Ohio. (L. G. Monthey, 2702 Monroe St., Madison 5, Wisc.)

15-20. Radiological Soc. of North America, conf., Chicago, Ill. (Radiological Soc. of North America, 815 Medical Arts Bldg., Fort Worth, Tex.)

16-18. Molecular Structure, 3rd conf., Houston, Tex. (Robert A. Welch Foundation, 2010 Bank of the Southwest Bldg., Houston 2.)

16-19. Magnetism and Magnetic Materials, 5th conf., Detroit, Mich. (D. M. Grimes, Dept. of Electrical Engineering, Univ. of Michigan, Ann Arbor.)

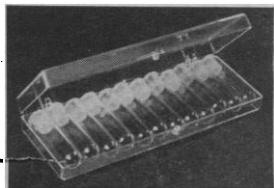
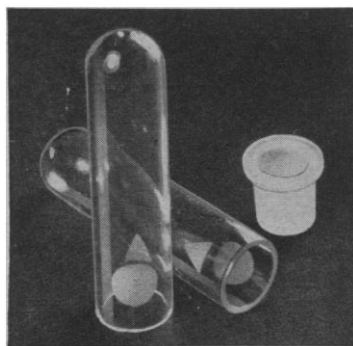
16-20. American Rocket Soc., annual meeting, Washington, D.C. (J. J. Harford, ARS, 500 Fifth Ave., New York 36.)

16-20. Automation Cong., 5th intern., New York, N.Y. (R. Rimbach, 845 Ridge Ave., Pittsburgh 12, Pa.)

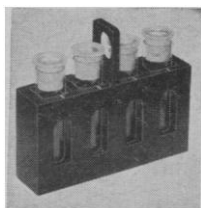
16-21. Antarctic Symp., Buenos Aires, Argentina. (R. N. Panzarini, Instituto Antartico, Argentino, Cerrito 148, Buenos Aires.)

16-21. Disposal of Radioactive Waste, conf., Monaco. (Intern. Atomic Energy Agency, 11-13 Kärntner Ring, Vienna 1, Austria.)

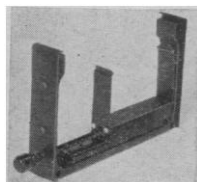
17-19. Building Research Inst. (NAS-NRC), fall conf., Washington, D.C. (J. H. Houtchens, Information Services, BRI, NAS-NRC, 1145 19 St., NW, Washington 25.)



74147B



74217E



74217D

LOW COST / ALOE U-V CUVETTES

ROUND / MATCHED / ULTRAVIOLET TRANSMITTING

For use with
Beckman DU Spectrophotometers

Available for the first time, these low cost, Aloe, ultraviolet transmitting, round cuvettes offer distinct advantages to all educational, industrial and other research laboratories. Multiple problem of low cost, accurate U-V cuvettes now solved with these round, matched cuvettes. Proven in laboratory use over a year. No unusual etching noted when 4 normal acid or alkali concentrations were allowed to stand for as long as two hours.

They compare most favorably in accuracy, to say nothing of cost, with conventional square "quartz" cuvettes in the 235-340 mμ range where 95% of all U-V measurements are made.

74147A — Aloe U-V Cuvettes, round, set of 4, matched to tolerance of 1/2% T.....\$20.00

74147B — Aloe U-V Cuvettes, round, set of 12, matched to tolerance of 1% T.....\$24.00

Accessories:

Precision Molded Adapter — holds cuvettes in firm position.

74217F — Aloe U-V Cuvette Adapter, Each.....\$5.00

74217E — Aloe U-V Cuvette Adapter with matched set of 4 cuvettes. \$25.00

Aloe U-V Cuvette Adapter Carriage — precision made, yet versatile.

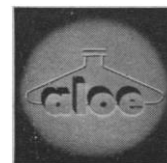
74217D — Aloe U-V Cuvette Adapter Carriage, Each.....\$32.00

Direct your order or request for additional information to:

aloe scientific 5655 Kingsbury, St. Louis 12, Mo.

DIVISION OF THE BRUNSWICK-BALKE-COLLENDER COMPANY

FULLY STOCKED DIVISIONS COAST-TO-COAST



17-19. Northeast Electronics Research and Engineering Meeting, Boston, Mass. (Miss S. Whiteker, Inst. of Radio Engineers, 73 Tremont St., Boston, Mass.)

17-20. National Assoc. for Mental Health, annual, Philadelphia, Pa. (American Psychiatric Assoc., 1700 18 St., NW, Washington 9.)

18. Association for Psychiatric Treatment of Offenders, New York, N.Y. (M. Schmideberg, New York Acad. of Sciences, 2 E. 63 St., New York 21.)

19-21. Inter-Society Cytology Council, annual, Detroit, Mich. (P. A. Younge, ISCC, 1101 Beacon St., Brookline 46, Mass.)

20-21. American Mathematical Soc., Winston-Salem, N.C. (J. W. Green, Univ. of California, Los Angeles 24.)

20-21. Nuclear Fusion, symp., Austin, Tex. (Texas Symp. on Nuclear Fusion, P.O. Box 8005, University Station, Austin, Tex.)

22-24. American Soc. of Hematology, 2nd annual, St. Louis, Mo. (J. W. Rebuck, Henry Ford Hospital, Detroit, Mich.)

22-29. Pan American Child Cong., 11th, Bogotá, Colombia. (Office of Intern. Conferences, Department of State, Washington 25.)

23-24. Solid-State Techniques in Modern Instrumentation, symp., Philadelphia, Pa. (G. L. Eberly, 12 S. 12 St., Philadelphia 7.)

23-25. Fluid Dynamics (APS), Ann Arbor, Mich. (R. J. Emrich, Dept. of Physics, Lehigh Univ., Bethlehem, Pa.)

23-26. Technical European Conf. on Standards Applicable to Water (by invitation only), Copenhagen, Denmark. (World Health Organization, Regional Committee for Europe, 8 Scherfigsvej, Copenhagen.)

23-3. Inter-African Soils Conf., 3rd, Dalaba, Guinea. (Committee for Technical Cooperation in Africa South of the Sahara, Abbey House, 2-8 Victoria St., London, S.W.1, England.)

25. Association for the Advancement of Psychoanalysis, New York, N.Y. (New York Acad. of Medicine, 2 E. 103 St., New York, N.Y.)

26-27. Association for the Utilization of Atomic Energy in Ship-Building and Navigation, Hamburg, Germany, Gesellschaft für Kernenergieverwertung in Schiffbau m.b.H., Hamburg.)

26-28. Central Assoc. of Science and Mathematics Teachers, Chicago, Ill. (G. G. Mallinson, Western Michigan Univ., Kalamazoo.)

26-28. Ceylon Assoc. for the Advancement of Science, Colombo. (K. Arumugam and S. Wijesundera, General Secretaries, Univ. of Ceylon, Colombo 3.)

26-29. Legal and Administrative Problems of Peaceful Use of Nuclear Energy, intern. conf., Rio Piedras, Puerto Rico. (J. Mayda, Faculty of Law, Univ. of Puerto Rico, Rio Piedras.)

27-28. American Mathematical Soc., Detroit, Mich. (J. W. Green, Univ. of California, Los Angeles 24.)

27-28. American Physical Soc., Cleveland, Ohio. (K. K. Darrow, Columbia Univ., New York 27.)

27-28. American Soc. of Animal Production, Chicago, Ill. (H. H. Stonaker, Colorado State University, Fort Collins.)

(See issue of 18 September for comprehensive list)

New Products

The information reported here is obtained from manufacturers and from other sources considered to be reliable. Neither Science nor the writer assumes responsibility for the accuracy of the information. All inquiries concerning items listed should be addressed to Science, Room 740, 11 West 42 St., New York 36, N.Y. Include the name(s) of the manufacturer(s) and the department number(s).

■ **NEUTRON DETECTION FOILS** permit measurement of neutron-energy spectra as follows: gold and cobalt for thermal flux; Pu^{239} , energies greater than 1 kev; U^{235} , energies greater than 1.5 Mev; S^{32} , energies greater than 2.9 Mev; Al^{27} , using products of (n, p) reaction, energies greater than 5.3 Mev; Al^{27} and products of (n, α) reaction, energies greater than 8.6 Mev. (Aerojet-General Nucleonics, Dept. 99)

■ **SCRATCH INVESTIGATION MICROSCOPE** can be used to measure the depths of scratches on flat or curved surfaces. Range of measurement is 0.5 to 12×10^{-3} in. Oblique illumination of the object produces a magnification in depth of 4 times the lateral magnification. The instrument is portable and has battery-powered illumination. A camera attachment is available. (Hilger and Watts, Dept. 100)

■ **WATER DEMINERALIZER** of mixed-bed type connects directly to the tap to deliver water at full line pressure. Exchanger container may be removed and discarded or regenerated for reuse. Capacity is approximately 1500 grains of total solids as CaCO_3 . A conductivity meter is included. (Pfaudler Permutit, Dept. 101)

■ **NUMERAL INDICATOR TUBE** provides 1.5-in. high numerals said to be readable at distances up to 50 ft at a 160-deg angle with ambient illumination brighter than normal room illumination. The numeral to be illuminated is selected by grounding the appropriate connection. (Baird Atomic, Dept. 104)

■ **CHROMATOGRAM SCANNER** includes a synchronous stepping mechanism that advances the strip to be scanned in finite steps from 0 to $\frac{1}{4}$ in., as selected. At each step the strip is counted to preset time or preset count. A record of step number, elapsed time, count, and count rate is printed. (Tracerlab, Dept. 105)

■ **ANALOG COMPUTER** for gas chromatography is said to make possible the calculation of a complete analysis in less than 3 min with accuracy within ± 0.1 percent. The computer corrects peak areas or peak heights for differences in detector response and normalizes corrected areas to 100, thereby giving mole percentage or weight per-

Do you know that ...

SOLID MATTER is more than 99.99% empty space?
ELECTRONIC BRAINS solve all problems with only two figures: 0 and 1?
MAN has not five but at least ten physical senses?
THE MOON is better known to us than the interior of the earth?
COLOR exists only in the eye of the observer?
A STRAIGHT LINE is not always the shortest distance between two points?

You can find the answers to thousands of questions on science quickly and easily with

The Concise Dictionary of Science by Frank Gaynor

An up-to-date dictionary providing concise definitions of terms and concepts pertaining to all fields of science. Full coverage is given to the newer sciences.

\$10.00

Philosophical Library, Publishers
15 East 40 Street, New York 16

STEREOSCOPIC MICROSCOPE for the budget-minded!

Designed and sturdily built for educational or industrial use, UNITRON Model MSL has the same optical and mechanical features found in higher priced instruments.

- Erect, three-dimensional image
- Coated optics and prisms
- Achromatic 2X paired objectives, paired wide field eyepieces
- Working distance 75mm.
- Vertical binocular body with interpupillary and diopter adjustments
- Total focusing excursion 70mm.
- Heavy base, removable glass stage plate, stage clips
- Choice of one magnification 10X, 20X or 30X, extra eyepieces available

Complete in fitted hardwood cabinet

FREE 10 DAY TRIAL

ALSO AVAILABLE

Model MSL-A with magnifications —
5X or 10X or 15X \$120.00
Extra eyepieces Pair \$19.50
Model LS Stereoscopic Microscope Lamp \$14.75

\$110.00
FOB Boston

UNITRON

INSTRUMENT DIVISION OF UNITED SCIENTIFIC CO.
204-206 MILK STREET • BOSTON 9, MASS.

Please rush to me, UNITRON's Microscope Catalog, 4-V1

Name _____
Company _____
Street _____
City _____ State _____