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. Dressel, 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, Bayside, 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 Texter, 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°, 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 Antarctico, 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.)

GET YOUR ADVANCE COPY

of the General Program of the AAAS Chicago Meeting

by first class mail – early in December

The General Program of the 126th Meeting of the AAAS in Chicago, 26-31 Dec., 1959, will be available to you within the first week in December—whether you can attend the Meeting or not.

Effective this year, the former General Program-Directory, which had become an unwieldy book of more than 400 pages, has been separated into *two* publications, namely:

a) The Directory of AAAS Officers and Activities, 96 pp., already published; and

b) The General Program of the Annual Meeting, c. 200 pp., which will appear early in December

Both of these, sold at cost, may be purchased separately—in advance (see coupon below), or at the meeting. Some of their *respective* contents are:

The General Program

1. The two-session general symposium "Moving Frontiers of Science IV," arranged by the Committee on AAAS Meetings.
2. Programs of the 18 AAAS sections (symposia and contributed papers).
3. Programs of the more than 70 participating societies.
4. Sessions of the Conference on Scientific Communication, Conference on Scientific Manpower, and the Academy Conference.
5. The Special Sessions: AAAS Address and Reception, National Geographic Society, Phi Beta Kappa, Sigma Xi, RESA, Tau Beta Pi Association.
6. Details of the Morrison Hotel—center of the Meeting—and of the other session sites.
7. Titles of the latest foreign and domestic scientific films to be shown in the AAAS Science Theatre.
8. Exhibitors in the 1959 Annual Exposition of Science and Industry and descriptions of their exhibits.

The Directory

1. AAAS officers, staff, committees, for 1959.
2. Section committees and other AAAS Council members.
3. The 285 affiliated organizations.
4. Historical sketch and organization of the Association.
5. Complete roll of AAAS presidents and their fields.
6. Publications of the Association, including all symposium volumes.
7. AAAS Awards—including all past winners.
8. Future Meetings of the AAAS through 1963.
9. New and current activities of the AAAS.
10. Constitution and Bylaws.

Advance Registration

Advance registration has these decided advantages: 1) You avoid delay at the Registration Center upon arrival; 2) You receive the General Program in ample time to decide, unhurriedly, which events and sessions you particularly wish to attend; 3) Your name is posted in the Visible Directory as the Meeting opens.

The following coupon may be used both by advance registrants and by those who wish only the advance copy of the General Program; the Directory may also be ordered.

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AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE
1515 Massachusetts Avenue, NW, Washington 5, D.C.

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, Daloba, 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 $\times$ 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 ¼ 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-

centage of each component. The three models available can handle 4-, 8-, or 12-component mixtures. (Podbielniak, Dept. 106)

■ RESIDUAL CHLORINE ANALYZER generates a current, by means of two electrodes made of dissimilar metals, proportional to the amount of free or total residual chlorine in a line. Electrodes are kept clean by small glass spheres that circulate across their surfaces. Residual chlorine is recorded in parts per million on standard recorder charts. (Fischer and Porter, Dept. 111)

■ FILM CARD READER for large-size documents copied on 35 mm microfilm features an 18-by-24-in. screen. A 500-watt lamp provides illumination. Adapters are available for roll film. (Eugene Dietzgen, Dept. 103)

■ POWER SUPPLY for special tubes furnishes 500 to 5000 volts at 0 to 10 ma. Output is positive, negative, or floating. Maximum ripple is 10 mv peak-to-peak. Voltage may be reset within ±0.05 percent. (Alfred Electronics, Dept. 107)

■ AIRBORNE AMPLIFIER for thermocouple and strain-gage amplification and telemetering operations is designed to operate from 28-volt d-c or 6.3-volt, 400-cy/sec a-c. Input is ±5 ma at over 20 kohm impedance. Gain is 400 to 1000, and bandwidth is 0 to 1000 cy/sec. Output impedance is less than 10 kohm. Operating temperature range is −55° to +125°C; altitude range, up to 100,000 ft; vibration up to 10 grav at 2 kcy/sec. (Southwestern Industrial Electronics Co., Dept. 109)

■ ACCESSORIES FOR TISSUE GRINDERS include a motor, support, and cooling-chamber assembly. An adjustable-stroke mechanism permits up and down movement of the pestle within the homogenizer tube. The cooling chamber holds the tube firmly in an environment of crushed ice or other coolant. (Kontes Glass Co., Dept. 112)

■ VAPOR-PROOF EMERGENCY SUIT is opened and closed by a self-sealing slide fastener extending from the left knee, over the left shoulder, and around the head. A ratchet adjustment is provided for head-band size. All seams are cemented; no needle holes are present. Several types of respiratory apparatus are accommodated, and the suit may be furnished with a sound-powered communications system. The suit is designed to accommodate a man up to 6 ft 4 in. tall and weighing 250 lb. (Union Industrial Equipment Corp., Dept. 113)

■ COMMUNICATION MONITOR guards against failure of telephone communication lines. The instrument operates by sending an analog voice sample with the voice signal along a telephone line and comparing the two signals at the other end of the line being monitored. Differences in voltage between the compared signals indicate the degree of trouble. If service is unsatisfactory, the call is automatically switched to an alternate line. (International Telephone and Telegraph Corp., Dept. 110)

■ RECTIFIER TEST SET has forward-current ranges 0 to 1 and 0 to 5 amp. Reverse-voltage range is 0 to 1000 volts. Average forward voltage drop is measured from 0 to 1 volt, and average reverse current in four ranges from 0.1 to 100 ma. Four 1-percent meters are used for indication. (Wallson Associates, Dept. 118)

■ DEGAUSSER is designed to accommodate all sizes of instrumentation tapes and magnetic films. Tape is carried on a pushbutton-controlled, motor-driven turntable. Degaussing is accomplished in a predetermined 20-sec cycle. (Magnasync Manufacturing Co., Dept. 117)

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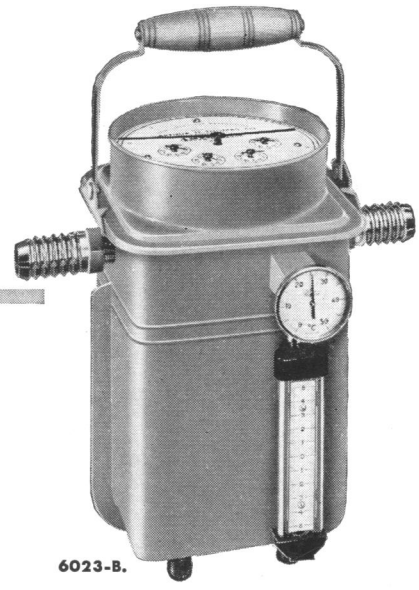

6023-B.

- *for basal metabolism tests*
- *for estimating pulmonary function*
- *for measurement of air flow in urea determinations*

Direct reading, low resistance type. Capacity 35 liters of air per minute, with dial graduated in 100 ml divisions. Convenient for measurement of large volumes in respiratory studies. This compact meter, weighing 11¾ lbs. and equipped with handle, can be carried during exercise tests. Manometer and thermometer, connecting to inlet chamber, are included to permit correction to standard conditions.

Applications. Usable for basal metabolism tests by the Douglas bag method, as originally suggested by H. S. Newcomer, *Journal of Biological Chemistry, Vol. XLVII, No. 3 (August, 1921);* for estimating pulmonary function as described by Frederick C. Warring, Jr., in *The American Review of Tuberculosis, Vol. 60, No. 2 (August, 1949), pp. 149-167;* for measurement of air flow in urea determinations by the aeration method, etc.

Accuracy. Travel of large dial pointer is not perfectly uniform, so that reading may be in error by as much as ±150 ml at 1/3rd maximum rated capacity. If used for other than large volume tests in which such an error would be negligible, it is recommended that the error be determined by displacing known volume of air with water or by reference to measuring instrument of known accuracy. Maximum accuracy is obtained by use at steady flow rate approaching the maximum capacity.

Meter Mechanism. Two-diaphragm, slide-valve, dry gas type, with soft, plastic bellows, 6 inches diameter, which drive the dial pointers with very little pressure. Residual air volume approximately 5.5 liters. At maximum flow rate, pressure difference between inlet and outlet is approximately 10 mm of water (0.7 mm of mercury).

Meter Dial. Horizontal, uncovered, recessed in protective well on top of case. Diameter 6 inches, graduated to 10 liters in 100 ml divisions, with four small inset dials totalizing to 100,000 liters. Pointers are exposed and can be turned directly to zero between tests without affecting accuracy of meter. Pointers of totalizing dials can be lifted off to facilitate resetting.

Manometer. U-type, for water filling. Attached to meter by threaded, swivel coupling. Adjustable scale is graduated on both edges to 50 mm above and below a central zero. Replaceable U-tube, made of Pyrex brand glass, 8 mm o.d. × 1 mm wall, is mounted in end brackets of phenolic plastic and is armored by lateral strips of chromium plated brass.

Thermometer. Dial type, 2 inches diameter, range 0 to 50°C in 1/2° divisions.

Case. Of tin coated sheet steel, sweated seam construction, finished in gray enamel, with rubber feet and carrying handle. Serrated inlet and outlet tubes are 2 inches long and fit rubber tubing 1 inch bore. Outside dimensions, excluding fixtures, 7¼ × 7¼ × 12½ inches high.

6023-B. Gas Meter, Dry Test, Portable, Laboratory Model, Thomas, as above described, complete with manometer, dial type thermometer, threaded cap for manometer port, and directions for use.....**195.00**

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