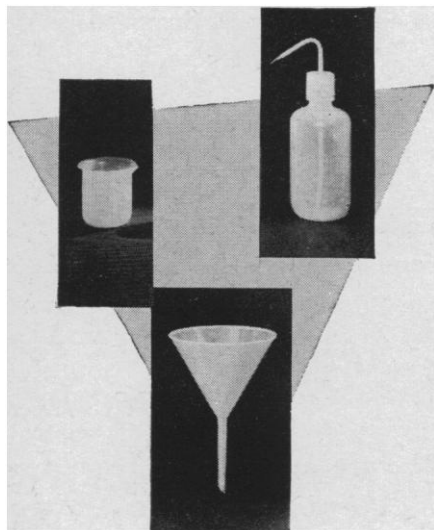


Thomas assortment of POLYETHYLENE POLYPROPYLENE TEFLON

and other Plastic Laboratory Ware



Unbreakable • Chemically Resistant

Our new 24-page bulletin No. 114-A illustrates and describes 406 items of laboratory ware fabricated from plastic materials, some of the newer items being:

- Aspirator Bottles, Polyethylene
- Centrifuge Tubes, Polypropylene and Teflon
- Cylinders, Graduated, Polypropylene
- Dishes, Teflon
- Filter Pump, Polyethylene
- Policemen, Polyethylene and Teflon

Included in the bulletin is data as to the physical and chemical properties of the various plastics, with information as to the purposes for which each is most suitable.

Polyethylene is now available in a higher density type than heretofore. This new type is more rigid than the former lower density type and can be used up to 100°C. Polypropylene is harder, with greater strength than either type of polyethylene and can be used up to 130°C.

Teflon is the most resistant chemically of any material now used in laboratory ware and can be used at temperatures from -265° to +315°C.

Copy of Bulletin No. 114-A sent upon request.

ARTHUR H. THOMAS CO.

*Laboratory Apparatus
and Reagents*

VINE ST. AT THIRD
PHILADELPHIA 5, PA.

More and more laboratories RELY ON THOMAS

Meetings

Laboratory Animal Breeders

The charter meeting of the Laboratory Animal Breeders Association was held in Chicago on 2 December 1958. A large number of the breeders of the country attended. The membership, which now numbers 56, includes most of the large commercial breeding organizations of the country, in addition to many producers who operate on a smaller scale. In order that the attitudes of all breeders may be represented, the constitution of the association provides that each member organization shall have one vote. The excellent attendance at the first meeting indicates that within another year almost 100 percent of the commercial breeders in the United States will be members.

The membership as a whole participated in the development and adoption of the constitution and bylaws and elected officers as follows: president, J. C. Kile, Jr.; vice president, Henry L. Foster; second vice president, Clyde K. Miller; and secretary, Elizabeth J. Simonsen. Regional representatives to the executive committee were appointed.

There has been much consideration given over the past several years to establishment of a program for accrediting the facilities of laboratory animal breeders. It is hoped that in the next few years the Laboratory Animal Breeders Association will be able to sponsor and participate in establishing a program such as this. A committee to consider regulatory activities was appointed.

Since there is a need for expansion of knowledge in the field of laboratory animal husbandry, a committee on research was designated to consider animal-husbandry projects which the organization or the members may undertake and to coordinate such activities and accumulate information relative to the many problems involved.

An extremely important consideration is the relationship of the association with other areas of the laboratory-animal industry. An editorial and publicity committee was appointed to advise members of the industry other than the commercial breeders of the existence of the organization and to keep them abreast of activities as the program develops.

A committee on shipping relations was appointed to study current rates for shipping laboratory animals.

Book Preview

SPORES—FERNS **MICROSCOPIC ILLUSIONS**

• • •

New 3-D. approach

Finest existing collection

MODELS—PHOTOMICROGRAPHS

Spores—Tetrad to Maturity

Fertile Areas • Cell Structure

See our Exhibit Booth 71, AAAS Convention

• • •

MISTAIRE LABORATORIES

152 Glen Ave., Millburn, N. J.

GRASSLANDS

Editor: Howard B. Sprague 1959

6" x 9", 424 pp., 37 illus., index, cloth.
Price \$9.00, AAAS members' cash orders \$8.00. AAAS Symposium Volume No. 53.

This volume is intended as a review of knowledge on many aspects of grasslands resources. The 44 authors were selected by their own professional colleagues as being particularly competent to present the respective subjects. Thirty-seven papers are arranged under these chapter headings:

1. Sciences in Support of Grassland Research
2. Forage Production in Temperate Humid Regions
3. Engineering Aspects of Grassland Agriculture
4. Forage Utilization and Related Animal Nutrition Problems
5. Evaluation of the Nutritive Significance of Forages
6. Grassland Climatology
7. Ecology of Grasslands
8. Range Management

British Agents: Bailey Bros. & Swinfen, Ltd.,
Hyde House, W. Central Street,
London, W.C.1

**AAAS, 1515 Mass. Ave., NW,
Washington 5, D.C.**

Guest speakers at the charter meeting were L. R. Christensen (director of the Berg Institute, New York University); Berton F. Hill (executive secretary of the Institute of Laboratory Animal Resources); and W. T. S. Thorp (dean, College of Veterinary Medicine, University of Minnesota).

ELIZABETH SIMONSEN

*Simonsen Laboratories,
Gilroy, California*

Forthcoming Events

January

18-21. American Astronautical Soc., 6th annual, New York, N.Y. (A. P. Mayer-nik, AAS, 6708 53 Rd., Maspeth 78, N.Y.)

19-21. American Meteorological Soc., 40th annual, Boston, Mass. (K. C. Spengler, 3 Joy St., Boston.)

19-21. Congenital Malformations, CIBA symp. (by invitation only), London, Eng-land. (G. E. W. Wolstenholme, 41 Portland Pl., London, W.1.)

21-23. American College of Surgeons, Louisville, Ky. (H. P. Saunders, 40 E. Erie St., Chicago 11, Ill.)

23-28. American Acad. of Orthopedic Surgeons, Chicago, Ill. (J. K. Hart, 116 S. Michigan, Chicago 3.)

24-29. American Rocket Soc., Princeton, N.J. (J. J. Harford, ARS, 500 Fifth Ave., New York 36.)

25-28. Institute of the Aeronautical Sciences, 28th annual, New York, N.Y. (IAS, 2 E. 64 St., New York 21.)

25-28. Plant Maintenance and Engineer-ing Show, Philadelphia, Pa. (R. S. Wol-cott, Clapp & Poliak, 341 Madison Ave., New York 17.)

25-29. Stress Measurement Methods, symp., Tempe, Ariz. (P. K. Stein, Strain Gage Readings, 5602 East Monte Rosa, Phoenix, Ariz.)

27-28. College-Industry Conf., Amer. soc. for Engineering Education, St. Louis, Mo. (W. L. Collins, ASED, Univ. of Illinois Urbana.)

27-28. Group Therapist, His Personal-ity, Training, and Functions, 4th annual, AGPA, New York, N.Y. (American Group Psychotherapy Assoc., Inc., 1790 Broadway, New York 19.)

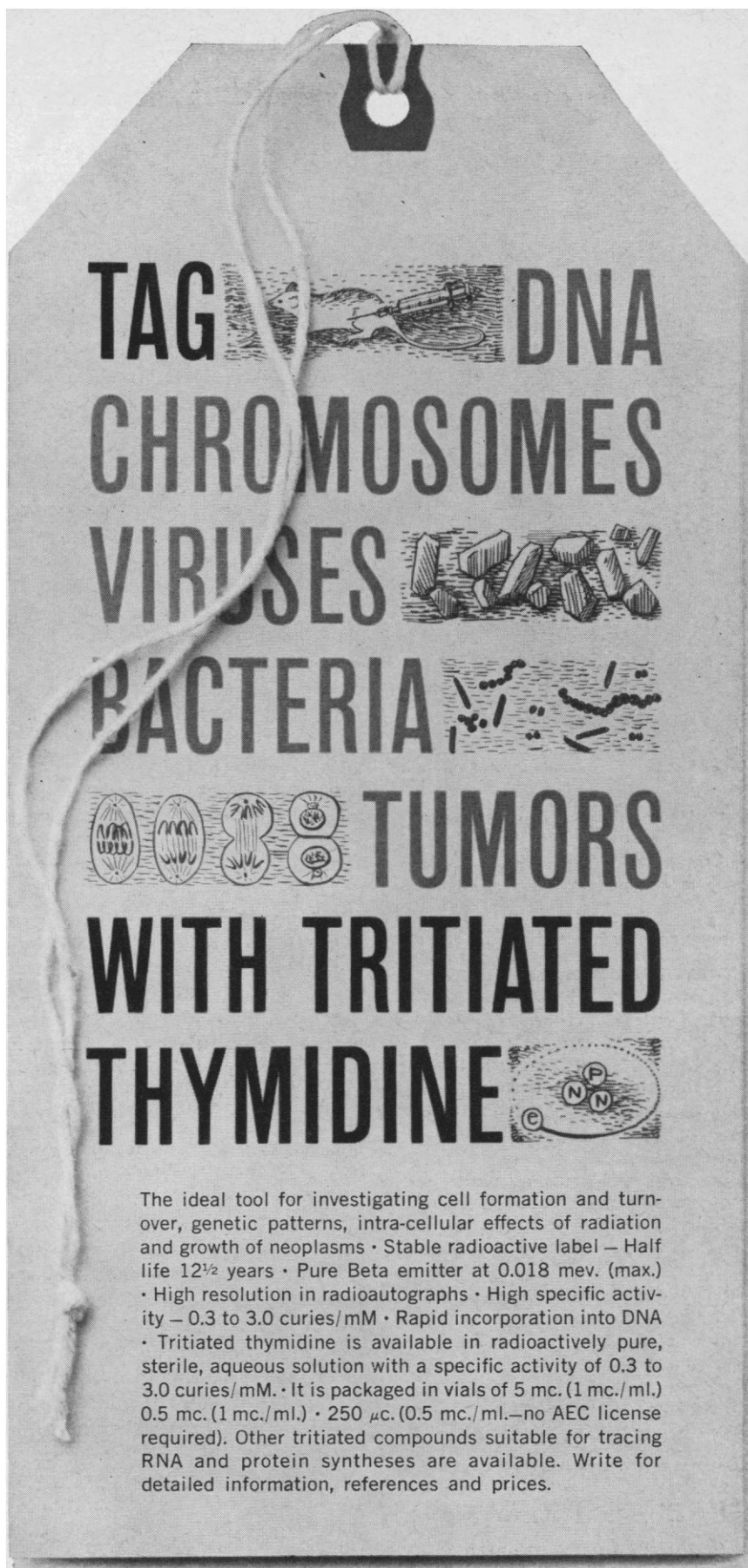
27-29. American Mathematical Soc., 66th annual, Chicago, Ill. (J. W. Green, Univ. of California, Los Angeles 34.)

27-30. American Physical Soc., annual, New York, N.Y. (K. Darrow, APS, Co-lumbia Univ., 116 St. and Broadway, New York.)

28-30. Mathematical Assn. of America, 43rd annual, Chicago, Ill. (H. M. Geh-man, Univ. of Buffalo, Buffalo 14, N.Y.)

28-30. Western Soc. for Clinical Re-search, 13th annual, Carmel-by-the-Sea, Calif. (W. N. Valentine, Western Soc. for Clinical Research, Univ. of California Medical Center, Dept. of Medicine, Los Angeles 24.)

29-30. American Group Psychotherapy Assoc., Inc., 17th annual conf., New York, N.Y. (American Group Psychotherapy Assoc., Inc., 1790 Broadway, New York 19.)



TAG DNA

CHROMOSOMES

VIRUSES

BACTERIA

TUMORS

WITH TRITIATED

THYMIDINE

The ideal tool for investigating cell formation and turn-over, genetic patterns, intra-cellular effects of radiation and growth of neoplasms • Stable radioactive label — Half life 12½ years • Pure Beta emitter at 0.018 mev. (max.) • High resolution in radioautographs • High specific activity — 0.3 to 3.0 curies/mM • Rapid incorporation into DNA • Tritiated thymidine is available in radioactively pure, sterile, aqueous solution with a specific activity of 0.3 to 3.0 curies/mM. • It is packaged in vials of 5 mc. (1 mc./ml.) 0.5 mc. (1 mc./ml.) • 250 µc. (0.5 mc./ml.—no AEC license required). Other tritiated compounds suitable for tracing RNA and protein syntheses are available. Write for detailed information, references and prices.

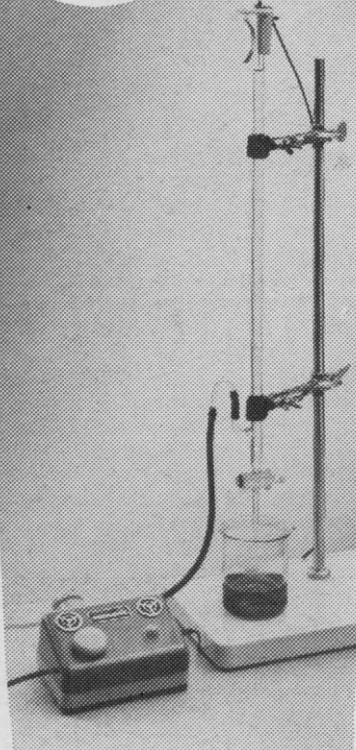


SCHWARZ BIORESEARCH, INC.

Dept. 12B • Mount Vernon, New York

BIOCHEMICALS • RADIOCHEMICALS • PHARMACEUTICALS
for research, for medicine, for industry

COLEMAN



AUTOFILLER

The push-button
burette filler
*automatically fills
burette to zero mark*

The Coleman Model 27 Autofiller eliminates two of the most irksome and time-consuming operations in titrating . . . refilling the burette and adjusting the volumetric zero. It increases accuracy too—by always refilling to exactly the same titrant level. The Autofiller works with any standard, side-fill burette.

only \$75⁰⁰

write for full details
BULLETIN B-256

*Order and simplification
are the first steps toward
mastery of any science*

**COLEMAN INSTRUMENTS, INC.
MAYWOOD, ILLINOIS**

31-5. American Inst. of Electrical Engineers, New York, N.Y. (N. S. Hibshman, AIEE, 33 W. 39 St., New York 18.)

31-7. Pan American Cong. of Ophthalmology, 6th, Caracas, Venezuela. (J. W. McKinney, 921 Exchange Bldg., Memphis, Tenn.)

February

1-4. American Soc. of Heating, Refrigerating and Air Conditioning Engineers, semi-annual, Dallas, Tex. (Miss J. I. Szabo, ASHRAE, 234 Fifth Ave., New York 1.)

1-4. Instrument-Automation Conf., Houston, Tex. (Director, Technical and Educational Services, Instrument Soc. of America, 313 Sixth Ave., Pittsburgh 22.)

1-5. American Inst. of Electrical Engineers, winter general, New York, N.Y. (N. S. Hibshman, AIEE, 33 W. 39 St., New York 18.)

2-4. Haemopoiesis—Cell Production and Its Regulation, Ciba Foundation symp. (by invitation only), London, England. (G. E. W. Wolstenholme, Ciba Foundation, 41 Portland Pl., London, W.1, England.)

2-4. Society of the Plastics Industry (Reinforced Plastics Div.), Chicago, Ill. (W. C. Bird, SPI, 250 Park Ave., New York 17.)

3-5. Military Electronics, IRE winter conv., Los Angeles, Calif. (G. B. Knoob, Motorola, Inc., Military Electronics Div., 1741 Ivar Ave., Hollywood 28, Calif.)

3-6. Parathyroid Research, symp., Houston, Tex. (R. V. Talmage, Dept. of Biology, Rice Inst., Houston.)

4-6. American Soc. for Metals, San Francisco, Calif. (R. Huggins, ASM, Stanford Univ., Stanford, Calif.)

4-6. Congress on Administration, 3rd annual, Chicago, Ill. (R. E. Brown, American College of Hospital Administrators, 840 N. Lake Shore Drive, Chicago 11.)

7-10. Radioactive Isotopes in Clinical Medicine and Research, 4th intern. symp., Bad Gastein, Austria. (R. Höfer, 2nd Medical Univ. Clinic, 13 Garnisongasse, Vienna 1X, Austria.)

10-11. Gas Cooled Reactor, symp., Philadelphia, Pa. (F. L. Jackson, Franklin Inst., Philadelphia, Pa.)

10-12. Solid States Circuit Conf., Philadelphia, Pa. (T. R. Finch, Bell Telephone Laboratories, Murray Hill, N.J.)

10-13. National Assoc. for Research in Science Teaching, 33rd annual, Chicago, Ill. (C. M. Pruitt, Univ. of Tampa, Tampa, Fla.)

10-13. National Soc. of College Teachers of Education, Chicago, Ill. (E. J. Clark, Indiana State Teachers College, Terre Haute.)

11. Protein and Amino Acid Requirements of Swine, Chicago, Ill. (J. T. Sime, Assoc. of Vitamin Chemists, Evaporated Milk Assoc., 228 N. La Salle St., Chicago 1.)

14-18. American Inst. of Mining, Metallurgical and Petroleum Engineers, annual, New York, N.Y. (E. O. Kirkendall, AIME, 29 W. 39th St., New York 18.)

16. Astronomical Soc. of the Pacific annual, San Francisco, Calif. (S. Einarsson, Leuschner Observatory, Univ. of California, Berkeley 4.)

18-19. Chemical Inst. of Canada (Protective Coatings Div.), Toronto, Ont., and Montreal, Que., Canada. (Scientific Liaison Office, National Research Council, Sussex Drive, Ottawa, Canada.)

18-20. National Soc. of Professional Engineers, winter, Wichita, Kan. (P. H. Robbins, NSPE, 309 Bancroft Bldg., Univ. of Nebraska, Lincoln.)

21-24. American Inst. of Chemical Engineers, Atlanta, Ga. (F. J. Van Antwerp, AIChE, 25 W. 45 St., New York 36.)

22-25. Technical Assoc. of the Pulp and Paper Industry, annual, New York, N.Y. (J. Winchester, TAPPI, 155 E. 44 St., New York 17.)

22-4. Scientific Management, 12th intern. cong., Sydney and Melbourne, Australia. (C. M. Gray, Federal Council of the Australian Inst. of Management, Western House, 83 William St., Melbourne, C.1, Victoria, Australia.)

24-26. Biophysical Soc., 4th annual, Philadelphia, Pa. (O. H. Schmitt, Biophysical Soc., Chairman, Program Committee, Univ. of Minnesota, Minneapolis.)

25-27. Cell Physiology of Neoplasia (14th annual symp. on fundamental cancer research), Houston, Tex. (Editorial Office, Univ. of Texas M. D. Anderson Hospital, Texas Medical Center, Houston 25.)

26. Highway Geology, 11th annual symp., Tallahassee, Fla. (W. F. Tanner, Geology Dept., Florida State Univ., Tallahassee.)

29-4. Pittsburgh Conf. on Analytical Chemistry and Applied Spectroscopy, Pittsburgh, Pa. (L. P. Melnich, U.S. Steel Corp., Monroeville, Pa.)

March

3-5. American Acad. of Forensic Sciences, Chicago, Ill. (W. J. R. Camp, AAFS, 1853 W. Polk St., Chicago 12.)

4-6. National Wildlife Federation, Dallas, Tex. (C. H. Callison, 232 Carroll St., NW, Washington 12.)

7-9. Wildlife Management Inst., Dallas, Tex. (C. R. Gutermuth, 709 Wire Bldg., Washington 5.)

7-11. American Soc. of Civil Engineers, New Orleans, La. (E. S. Kirkpatrick, ASCE, 33 W. 39 St., New York 18.)

10. Recent Developments in Poultry Nutrition (Assoc. of Vitamin Chemists), Chicago, Ill. (J. T. Sime, Director of Research, Evaporated Milk Assoc., 228 N. La Salle St., Chicago 1.)

14-16. American Railway Engineering Assoc., annual conv., Chicago, Ill. (N. D. Howard, AREA, 59 E. Van Buren St., Chicago 5.)

14-17. Positive Health of Older People, forum, Miami Beach, Fla. (A. Mallach, National Health Council, 1790 Broadway, New York 19.)

15-21. Nondestructive Testing, 3rd intern. conf., Tokyo and Osaka, Japan. (S. Ishizaka, Scientific Attaché, Embassy of Japan, 2514 Massachusetts Ave., NW, Washington 8.)

17. Congress for Pharmacists, 2nd annual, Jamaica, N.Y. (Congress for Pharmacists, Public Relations Office, St. John's Univ., Jamaica 32.)

17-19. American Radium Soc., conf., San Juan, Puerto Rico. (ARS, 635 East Union, Pasadena, Calif.)