Meetings and Societies

American Bacteriologists

The 57th general meeting of the Society of American Bacteriologists was held 28 Apr.—2 May at the Sheraton-Cadillac and Statler hotels in Detroit, Mich. The attendance was approximately 2000, and 420 individual papers were presented in addition to numerous symposiums and round tables.

The meeting opened with a general address by A. A. Mossel (Utrecht, the Netherlands) on "The science of the interrelation between food and microorganisms." On the second day a symposium on "Microbial aerosols and respiratory infections" was convened by LeRoy D. Fothergill (Fort Detrick, Md.). Techniques and equipment were described and illustrated which make possible the exposure of experimental animals to aerosols of highly infectious organisms with complete safety to operating personnel. The optimum infection response was confirmed to be with particles in the size range of 1 to 5 microns in diameter.

Thomas C. Grubb (Vick Chemical Company) presided at a symposium on "Antimicrobial preservatives." Problems of testing the effectiveness of preservatives and selection of preservatives were discussed. The very timely subject of laboratory diagnosis of virus infections was covered in another symposium, convened by Gordon C. Brown (University of Michigan). Particular attention was given to the role of the public health laboratory in diagnosing virus diseases.

Milo Appeleman (University of Southern California) led a symposium on "Problems in the microbiological analysis of foods." Methods of analysis, standards, educational aspects, sampling, indicator organisms, and other phases were discussed. Other symposiums covered such topics as antiseptic and disinfectant testing, preparation of samples for microbiological assay, spore germination, and cell fragments.

Many outstanding and significant papers were presented to the general sessions of the society. In the field of viruses, Cora Downs and associates (University of Kansas) reported the successful cultivation of *Rickettsiae akari* in lifeless medium. In a similar vein, Dean Fraser and H. R. Mahler (Purdue University)

discussed the synthesis of bacteriophage by protoplasts of *Escherichia coli*, and Sol Spiegelman (University of Illinois) reported protein synthesis by noncellular preparations from bacteria. The latter two papers were part of the symposium on "The role of cell fragments in metabolic reactions."

Contact transmission of poliovirus among monkeys was announced by Don Craig (University of Michigan). Workers from Merck, Sharp and Dohme, the University of Southern California, and Parke, Davis and Company reported studies on measles virus which may lead in the near future to an effective measles vaccine.

Various aspects of the use of fluorescent antibodies for the identification of bacteria were discussed by Carrie C. Winter (Communicable Disease Center, U.S. Public Health Service, Atlanta, Ga.), John D. Marshall, Jr. (Armed Forces Institute of Pathology), and Charles H. Carter (Fort Detrick). The rapid identification of organisms of similar morphology by means of two dyes of contrasting color and the use of labeled antirabbit globulin were described.

A novel application of the principle of continuous-flow culture (chemostat) was reported by Leonard Zubrzycki and Earle Spaulding of Temple University. These workers were able to establish "steady-state" growth of human fecal flora and to use the method for study of microbial ecology.

The cell wall of the yeast phase of Histoplasma capsulatum has been shown to be composed of chitin. This was reported in a well-documented paper by Edgar Ribi, Bill Hoyer, and Granville Goode (Rocky Mountain Laboratory, Hamilton, Mont.). X-ray diffraction and electron microscope studies showed a distinct similarity to fibrils of regenerated cellulose or nylon.

Two papers concerned with tissue-culture techniques were of particular interest. These were the report, by Fred Giardinello and coworkers (Wistar Institute), of the cultivation of animal cells in a 5-liter fermenter and the report, by E. Z. Rope and associates (Parke, Davis and Company), of the use of tissue culture for the assay of toxins, toxoids, and antitoxins.

The Eli Lilly and Company research

award in bacteriology and immunology was presented to Henry Koffler (Purdue University) at the annual banquet. Koffler's work has dealt with the antibiotics streptomycin and circulin, the structure of the bacterial cell wall, the structure and function of bacterial flagella, and the mechanism of survival of bacteria at high temperatures. Koffler presented the Eli Lilly award address at a general session of the society.

The 1958 meeting of the Society of American Bacteriologists will be held in Chicago.

D. J. MERCHANT University of Michigan, Ann Arbor

International Cancer Congress

The seventh International Cancer Congress will be held in London, England, 6–12 July 1958, under the sponsorship of the International Union against Cancer. Scientists and physicians are invited to submit papers on experimental or clinical aspects of cancer or on cancer control. These papers should represent new contributions to knowledge and must not have been published or reported previously.

The deadline for registration without late fee, and also for submission of papers, is 1 Jan. 1958. A preliminary program and application forms for registration, submission of papers, and so forth, are available on request to either of the following: The Secretary General, Seventh International Cancer Congress, 45 Lincoln's Inn Fields, London, W.C. 2, England; or Dr. Harold F. Dorn, Secretary General, Union Internationale Contre Le Cancer, National Institutes of Health, Bethesda 14, Md.

Travel allotments of approximately \$530 each will be available to a limited number of scientists and physicians residing in the United States who may require such assistance. This amount is expected to provide payment of the following: a special 15-day overseas round trip, air tourist fares; a 6-day per diem allowance; and reimbursement for registration fees. Investigators who have been invited to participate in one of the symposia prior to or following the congress may apply for additional funds.

Applications for travel allotments should be submitted in sextuplet in the form of letters giving information on age, training, publications in cancer research or related fields, academic or professional title, and institutional affiliation. These letters should be countersigned by the department director or administrative officer.

Applicants for travel assistance who are submitting papers for presentation at the congress must include six copies of an abstract (not to exceed 250 words) of each such paper. An applicant who

does not plan to present a paper should include six copies of an outline of current investigative work. Such letters, abstracts, and outlines must be submitted to the International Union against Cancer, 2101 Constitution Ave., NW, Washington 25, D.C.

Applications for assistance toward travel expenses are entirely separate from the applications for registration for the congress and for the submission of papers to the Program Committee. All applicants will be responsible for their own passports, visas, registration, travel arrangements, and hotel reservations

Forthcoming Events

November

13-15. Society of Technical Writers, natl. conv., jointly with Assoc. of Technical Writers and Editors, New York. (A. M. Jupiter, P.O. Box 71, Edgewood, Md.)

14-16. American Inst. of Mining, Metallurgical and Petroleum Engineers, semiannual, Chicago, Ill. (H. N. Appleton, AIME, 29 W. 39 St., New York 18.)

14-16. Biology of Normal and Atypical Pigment Cell Growth, 4th conf., Houston, Tex. (M. Gordon, Genetics Lab., American Museum of Natural History, New York 24.)

14-16. Inter-Society Cytology Council, annual scientific, Augusta, Ga. (P. F. Fletcher, 634 N. Grand Ave., St. Louis 3, Mo.)

18-21. Magnetism and Magnetic Materials Conf., Washington, D.C. (L. R. Maxwell, U.S. Naval Ordnance Lab. White Oak, Silver Spring, Md.)

18-22. American Soc. of Agronomy, annual, jointly with Crop Science Soc. of America and Soil Science Soc. of America, Atlanta, Ga. (L. G. Monthey ASA, 2702 Monroe St., Madison, Wis.)

18-22. Citrus Virus Diseases Conf. Riverside, Calif. (J. M. Wallace, Dept. of Plant Pathology, Univ. of California, Riverside.)

18-9. Pacific Science Cong., 9th Bangkok, Thailand. (Pacific Science Board, National Research Council, 2101 Constitution Ave., NW, Washington 25.)

20-22. Structure of the Nucleus, chemical research conf., Houston, Tex. (W. O. Millgian, Rob't. A. Welch Foundation, P.O. Box 1892, Houston 1.)

20-24. National Assoc. for Mental Health, annual, Atlantic City, N.J. (NAMH), 10 Columbus Circle, New York 19.)

22. Tritium in Tracer Applications, symp., New York. (Symp. Committee, New England Nuclear Corp., 575 Albany St., Boston 18, Mass.)

22. Ultraviolet Scanning Microscopy Symp., Philadelphia, Pa. (H. K. Schlegelmilch, RCA Victor TV Div., Bldg. 204–2 Section 219, Cherry Hill, Camden 8, N.J.)

22-23. Tennessee Acad. of Science, 67th annual, Memphis. (W. G. Holladay, Physics Dept., Vanderbilt Univ., Nashville, Tenn.)

25-27. American Acad. for Cerebral Palsy, 11th annual, New Orleans, La. (R.

R. Rembolt, Iowa Hospital-School State University of Iowa, Iowa City.)

25-27. Physics and Dynamics of Fluids, APS, Bethlehem, Pa. (F. N. Frenkiel, Applied Physics Lab., Johns Hopkins Univ., Silver Spring, Md.)

26-28. Central Assoc. of Science and Mathematics Teachers, 57th annual, Chicago, Ill. (L. Panush, Henry Ford High School, Detroit 19, Michigan.)

28–29. American Physical Soc., St. Louis, Mo. (K. K. Darrow, Columbia Univ., New York 27.)

29-30. American Soc. of Animal Production, annual, Chicago, Ill. (H. H. Stonaker, Animal Husbandry Dept., Colorado State Univ., Fort Collins.)

December

1-6. American Soc. of Mechanical Engineers, annual, New York, N.Y. (C. E. Davies, ASME, 29 W. 39 St., New York 18.)

1-15. Bahamas Medical Conf., 4th,
 Nassau, Bahamas. (B. L. Frank, 1290
 Pine Ave., W. Montreal, Que., Canada.)

2-5. American Rocket Soc., annual, New York. (J. J. Harford, ARS, 500 Fifth Ave., New York 36.)

2-5. Entomological Soc. of America, annual, Memphis, Tenn. (R. H. Nelson, ESA, 1530 P St., NW, Washington 5.)

3-4. Human Factors in Systems Engineering, symp., Philadelphia, Pa. (C. Fowler, American Electronic Labs., 121 N. 7 St., Philadelphia.)

4-8. American Psychoanalytic Assoc., New York, N.Y. (J. N. McVeigh, APA, 36 W. 44 St., New York 36.)

4-10. American Acad. of Optometry, annual, Chicago, Ill. (C. C. Koch, 1506-1508 Foshay Tower, Minneapolis 2, Minn)

5-7. Texas Acad. of Science, annual, Dallas. (G. C. Parker, Education Dept., Texas A&M College, College Station.)

6-7. Oklahoma Acad. of Science, annual, Enid. (J. T. Self, Dept. of Zoology, Univ. of Oklahoma, Norman.)

7-8. American Acad. of Dental Medicine, New York, N.Y. (S. Ross, 136 E. 36th St., New York 16.)

8-11. American Inst. of Chemical Engineers, annual Chicago, Ill. (F. J. Van Antwerpen, AIChE, 25 W. 45 St., New York 36.)

9-11. Fluorides Symp., Cincinnati, Ohio. (Secretary, Inst. of Industrial Health, Kettering Laboratory, Eden and Bethesda Aves., Cincinnati 19.)

9-13. Eastern Joint Computer Conf., Washington, D.C. (H. H. Goode, Dept. of Electrical Engr., Univ. of Michigan, Ann Arbor.)

9-22. Southeast Asia Soil Science Conf., 1st, Manila, Philippines. (I. G. Valencia, Bureau of Soils, P.O. Box 1848, Manila.)

10-11. Water Quality Control for Subsurface Injection, 2nd annual conf., Norman, Okla. (M. L. Powers, Extension Div., Univ., of Oklahoma, Norman.)

13-14. Association for Research in Nervous and Mental Disease, 37th annual, New York, N.Y. (R. J. Masselink, 700 W. 168 St., New York 32.)

15-18. American Soc. of Agricultural Engineers, Chicago, Ill. (J. L. Butt, ASAE, St. Joseph, Mich.)

17-19. Nuclear Sizes and Density Dis-

tributions Conference, Stanford, Calif. (R. Hofstadter, Stanford Univ., Stanford, Calif.)

19-21. American Physical Soc., Stanford, Calif. (W. A. Nierenberg, Univ. of California, Berkeley 4.)

26-27. Northwest Scientific Assoc., annual, Spokane, Wash. (W. B. Merriam, Geography Dept., State College of Washington, Pullman.)

26-30. American Assoc. for the Advancement of Science, annual, Indianapolis, Ind. (R. L. Taylor, AAAS, 1515 Massachusetts Ave., NW, Washington 5.)

The following 43 meetings are being held in conjunction with the AAAS annual meeting.

AAAS Acad. Conference, annual (Father P. H. Yancey, Spring Hill College, Mobile, Ala.). 28 Dec.

AAAS Cooperative Committee on the Teaching of Science and Mathematics (F. B. Dutton, Dept. of Chemistry, Michigan State Univ., East Lansing). 27 Dec.

Alpha Chi Sigma (R. L. Hicks, 1130 E. Jefferson St., Franklin, Ind.).

Alpha Epsilon Delta (M. L. Moore, 7 Brookside Circle, Bronxville, N.Y.). 28 Dec.

American Assoc. of Hospital Consultants (J. B. Norman, 8 South Church St., Greenville, S.C.).

American Astronomical Soc. (J. A. Hynek, Smithsonian Astrophysical Observatory, 60 Garden St., Cambridge 38, Mass.). 27–30 Dec.

American Geophysical Union (E. M. Brooks, Dept. of Geophysics, St. Louis Univ., St. Louis 8, Mo.).

American Medical Assoc. Committee on Cosmetics (Mrs. V. L. Conley, AMA, 535 N. Dearborn St., Chicago, Ill.). 28–29 Dec.

American Meteorological Soc. (K. C. Spengler, AMS, 3 Joy St., Boston, Mass.).

American Nature Study Soc., annual (R. L. Weaver, School of Natural Resources, Univ. of Michigan, Ann Arbor). 26–30 Dec.

American Physiological Soc. (F. A. Hitchcock, Dept. of Physiology, Ohio State Univ., Columbus 10).

American Psychiatric Assoc. (M. Greenblatt, Massachusetts Mental Health Center, 74 Fenwood Rd., Boston 15). 29–30 Dec.

American Soc. of Hospital Pharmacists (G. E. Archambault, Pharmacy Branch, U.S. Public Health Service, Washington 25).

American Soc. of Naturalists (B. Wallace, Biological Lab., Cold Spring Harbor, Long Island, N.Y.).

American Statistical Assoc. (V. L. Anderson, Statistical Lab., Purdue Univ., Lafayette, Ind.).

Association of American Geographers (L. L. Ray, U.S. Geological Survey, Washington 25).

Association for Computing Machinery (J. E. Robertson, Digital Computer Lab., Univ. of Illinois, Urbana).

Astronomical League (W. Garnatz, 2506 South East St., Indianapolis.)

Beta Beta Beta (Mrs. F. G. Brooks, P.O. Box 336, Madison Sq. Station, New York 10). 27 Dec.

Biometric Soc., ENAR (T. A. Ban-



croft, Dept. of Statistics, Iowa State College, Ames).

Conference on Scientific Editorial Problems, annual (G. L. Seielstad, Applied Physics Lab., Johns Hopkins Univ., Silver Spring, Md.). 26-30 Dec.

Conference on Scientific Manpower, annual (T. J. Mills, National Science Foundation, Washington 25). 30 Dec.

Ecological Soc. of America (A. A. Lindsey, Dept. of Biological Sciences, Purdue Univ., Lafayette, Ind.). 27-29 Dec.

Metric Assoc. (J. T. Johnson, 694 West 11 St., Claremont, Calif.).

National Acad. of Economics and Political Science (D. P. Ray, Hall of Government, George Washington Univ., Washington, D.C.).

National Assoc. of Biology Teachers, annual (Miss I. Hollenbeck, Southern Oregon College of Education, Ashland). 26-31 Dec.

National Assoc. for Research in Science Teaching (G. G. Mallinson, Western Michigan College, Kalamazoo). 26-30 Dec.

National Assoc. of Science Writers (J. Troan, Pittsburgh Press, Pittsburgh, Pa.).

National Council of Teachers of Mathematics (P. Peak, College of Education, Indiana Univ., Bloomington). 27 Dec.

National Geographic Soc. (W. R. Gray, NGS, 16th and M Sts., NW, Washington 6). 29 Dec.

National Science Teachers Assoc. (R. W. Schulz, Emmerich Manual Training High School, 2405 Madison Ave., Indianapolis 25). 26-30 Dec.

National Speleological Soc. (Brother G. Nicholas, LaSalle College, 20th and Olney Aves., Philadelphia 41, Pa.). 28 Dec.

Philosophy of Science Assoc. (C. W. Churchman, Case Inst. of Technology, Cleveland, Ohio).

Scientific Research Soc. of America, annual (D. B. Prentice, 56 Hillhouse Ave., New Haven 11, Conn.). 27 Dec.

Sigma Delta Epsilon, annual (Miss M. Chalmers, Dept. of Chemistry, Purdue Univ., Lafayette, Ind.). 26-30 Dec.

Sigma Pi Sigma (M. W. White, Pennsylvania State Univ., University Park). 27 Dec.

Society for the Advancement of Criminology (D. E. J. MacNamara, New York Inst. of Criminology, 40 E. 40 St., New York 16). 27-28 Dec.

Society for General Systems Research, annual (R. L. Meier, Mental Health Research Inst., Ann Arbor, Mich.).

Society for Industrial Microbiology, Washington Section (W. N. Ezekiel, Bureau of Mines, Washington 25).

Society for Investigative Dermatology (H. Beerman, Univ. of Pennsylvania School of Medicine, Philadelphia 3). 28-29 Dec.

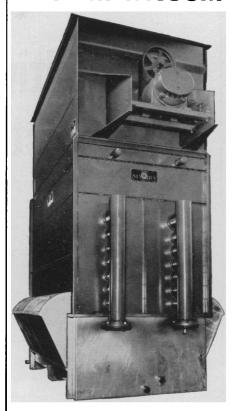
Society of the Sigma Xi, annual (T. T. Holme, 56 Hillhouse Ave., New Haven 11, Conn.). 27 Dec.

Society of Systematic Zoology, annual (R. E. Blackwelder, Box 500, Victor, N.Y.). 26-31 Dec.

United Chapters of Phi Beta Kappa, annual address (C. Billman, 1811 Q St., NW, Washington, D.C.). 27 Dec.

27. Association for Symbolic Logic., Cambridge, Mass. (J. Barlaz, Rutgers Univ., New Brunswick, N.J.)

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