macy are cosponsored by the American Pharmaceutical Association, Scientific Section; American Association of Colleges of Pharmacy; American Society of Hospital Pharmacists; American College of Apothecaries; and the National Association of Boards of Pharmacy.

## Friday 29 December

**Contributed Papers.** Arranged by John E. Christian. John Autian, University of Texas, and Wayne Kessler, Purdue University, presiding.

# Meetings

# **Electron Microscopy**

The 19th annual meeting of the Electron Microscope Society of America was held in Pittsburgh, Pennsylvania, from 23 to 26 August 1961. This meeting brought together more than 706 active workers in electron microscopy from 24 states, Canada, Australia, Great Britain, Belgium, Germany, and



Japan. It was the largest meeting in the history of the society. There were ten general sessions of contributed papers (five in the biological fields, five in nonbiological areas), a special session on techniques, and three symposia. There were 19 scientific exhibits and some 180 contributed papers on the techniques and applications of the electron microscope to studies in biology, chemistry, medicine, cancer, metallurgy, electron diffraction, and related fields.

In the symposium on the contribution of electron microscopy to polymer morphology, organized by R. G. Scott (Du Pont Experimental Station), seven experts in this field discussed, respectively, x-ray diffraction as applied to polymers, spherulites, electron diffraction as applied to single crystals, the morphology of polymers, fiber microscopy, and electron diffraction as applied to synthetic fibers. This symposium summarized the new phases of technology and applications of electron microscopy in the field of polymer science.

Rubin Borasky (University of Illinois) arranged and directed the symposium on ultrastructure of protein fibers. The papers on physical, chemical, and mechanical properties of protein fibers in muscle and keratin summarized the recent contributions to the science of fiber structure.

The symposium on the fine structure of viruses, arranged by A. F. Howatson (University of Toronto), was especially noteworthy in that the presentation of papers on recent advances in fine structure, animal virus structure, electron microscopy of nucleic acids and proteins, structures of bacteriophages, and studies on the fine structure of footand-mouth-disease virus brought together, in a very logical sequence, information on the recent improvements in the techniques of replication, shadowcasting, thin sectioning, and "negativecontrast" staining and their application and interrelationships in obtaining new information on the structure of viruses.

President D. Maxwell Teague and president-elect Keith R. Porter and the organizing committee announced plans and arrangements for the 5th International Congress for Electron Microscopy, to be held in Philadelphia from 29 August through 5 September 1962.

The Electron Microscope Society of America will be host to the International Federation of Electron Microscope Societies at this congress, which will emphasize the new and unique contributions of electron microscopy in many areas of science. The organizing committee co-chairmen are T. F. Anderson and J. H. Reisner; S. S. Breese, Jr., is program chairman. Limited funds will be available to assist enrolled students of electron microscopy in the United States in attending the congress. Requests for information should be addressed to Fifth International Congress for Electron Microscopy, 7701 Burholme Ave., Philadelphia 11, Pa.

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## Forthcoming Events

#### November

29-1. Communication Wires and Cables, symp., Asbury Park, N.J. (H. Kingsley, U.S. Army Research and Development Laboratory, Fort Monmouth, N.J.)

29-1. Western Surgical Assoc., San Francisco, Calif. (W. W. Carroll, 700 N. Michigan Ave., Chicago 11, Ill.)

30. American Geographical Soc., New York, N.Y. (C. W. Bastable, Columbia Univ., New York 27)

30-1. Conference on Graduate Medical Education, Philadelphia, Pa. (P. Nemir, Jr., Dean, Graduate School of Medicine, Univ. of Pennsylvania, Philadelphia)

30-1. Vehicular Communications, Minneapolis, Minn. (J. Kahnke, Minneapolis-Honeywell, Aero Div., 1541 Edgewater Ave., St. Paul 13, Minn.)

## December

1. Symposium on Insulin, New York Diabetes Assoc., New York, N.Y. (New York Diabetes Assoc., 104 E. 40 St., New York 16)

1-2. Linguistic Circle of New York, 7th annual conf., New York, N.Y. (L. Urdang, Random House, Inc., 501 Madison Ave., New York 22)

2. International College of Surgeons, intern. executive council, Chicago, Ill. (H. E. Turner, 1516 Lake Shore Dr., Chicago)

2. New York State Registry of Medical Technologists, annual seminar, New York, N.Y. (S. H. Keeling, 1719 Midland Ave., Syracuse, N.Y.)

2-7. American Acad. of Dermatology and Syphilology, annual, Chicago, Ill. (R. R. Kierland, Mayo Clinic, Rochester, Minn.)

3-6. American Inst. of Chemical Engineers, New York, N.Y. (F. J. Van Antwerpen, AICE, 345 E. 47 St., New York 17)

4-6. Institute of the Aerospace Sciences, Aerospace Support and Operations, natl., Orlando, Fla. (R. J. Kotowski, 318 Virginia Dr., Melbourne, Fla.)

4-8. International Colloquium on Ionic Bombardment, Bellevue, France. (Natl. Scientific Research Center, 15 Quai Anatole France, Paris 7°, France)

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4-9. Mathematics Instruction at Secondary and University Levels, Inter-American conf., Bogota, Colombia. (M. Alonso, Div. of Science Development, Pan American Union, Washington 6)

4–9. World Federation of Neurology, Problem Commission of Tropical Neurology, Buenos Aires, Argentina. (P. Bailey, Natl. Inst. of Neurological Diseases and Blindness, Bethedsa, Md.)

4-16. Inter-American Conf. on Education and Economic and Social Development, Santiago, Chile. (U.S. National Commission for UNESCO, Dept. of State, Washington 25)

4-16. Latin American Phytotechnical Meeting, 5th, Buenos Aires, Argentina. (U. C. Garcia, Organizing Committee, Rivadavia 1439, Buenos Aires)

5-7. Building Research Inst., Washington, D.C. (Scientific Liaison Office, Natl. Research Council, Sussex Dr., Ottawa, Canada)

5-8. United States and Japan Atomic Industrial Forums on Nuclear Power, 2nd conf., Tokyo, Japan. (C. Robbins, Executive Manager, Atomic Industrial Forum, 3 E. 54 St., New York 22)

6-7. UNESCO Intern. Non-Governmental Organizations on Extension of Intern. Collaboration in Education, Science and Culture to Africa, Paris France. (Place de Fontenoy, Paris 7°)

6-8. Conference on Document Copying by Photography, London, England. (A. J. O. Axford, Ozalid Co., Longston Rd., Loughton, Essex, England)

6-8. Electrical Furnace Steel Conf., 19th, American Inst. of Mining, Metallurgical and Petroleum Engineers, Pittsburgh, Pa. (Scientific Liaison Office, Natl. Research Council, Sussex Dr., Ottawa, Canada)

6-8. Latin-American Congr. of Pathological Anatomy, 3rd, Medellín, Colombia. (A. C. Henao, Laboratorio de Anatomía Patológica, Rua Botucatu 720, São Paulo, Brazil)

6-8. National Institutes of Health Symp. on Neuroendocrinology, Miami, Fla. (A V. Nalbandov, 102 Animal Genetics, Univ. of Illinois, Urbana)

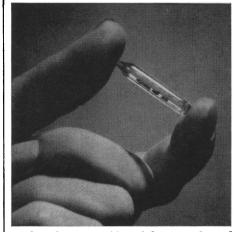
6-12. American Acad. of Optometry, Chicago, Ill. (C. C. Koch, 1506–08 Foshay Tower, Minneapolis 2, Minn.)

6-16. Food and Agriculture Organization of the U.N. World Health Organization, Nutrition Conf. for the Far East, 5th, Hyderabad, India. (Intern. Agency Liaison Branch, Office of Director General, FAO, Viale delle Terme di Caracalla, Rome, Italy)

6-16. Food and Agriculture Organization of the U.N., Far East Meeting on Animal Production and Health, 3rd, Bangkok, Thailand. (Intern. Agency Liaison Branch, Office of Director General, FAO, Viale delle Terme di Caracalla, Rome, Italy)

7-8. Symposium on Sintered High-Temperature Oxidation-Resistant Materials, London, England. (S. C. Guilan, Powder Metallurgy Joint Group, Inst. of Metals, 17 Belgrave Sq., London)

7-9. American Chemical Soc. Southwest-Southeast regional meeting, New Orleans, La. (P. D. Accardo, California Chemical Co., Oronite Div., Belle Chasse, La.) ISOTOPES for Your Development Work



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