

Meetings and Societies

New York Meetings of the AAAS; 1887-1956

The 123rd meeting of the American Association for the Advancement of Science this coming 26-31 December, is also the seventh New York meeting. The previous New York meetings were held in 1887, 1900, 1906, 1916, 1928, and 1949. A brief comparison of the meetings indicates not merely the growth of the Association and the societies that participate but also provides an interesting indication of the shifts in emphasis in scientific research. The city's own development over 70 years, the influence of the times and of great personalities of the past are quite apparent in the programs and proceedings of the earlier conventions.

For some years the AAAS postponed a New York meeting because it was considered that the scientific population was smaller than in other centers. The first New York meeting, held 10-16 August 1887 at Columbia College, proved, however, to be a worth-while "experiment," and "the fear of hot weather [was not] fulfilled." There were 729 registrants from 31 states, Washington, D.C., and Canada, and 250 papers were read. Most of the sessions of the eight sections were held in Columbia's Hamilton Hall, then at 49 Street and Madison Avenue, and the "Programme" appropriately had a light blue cover. Samuel P. Langley, great physicist of the Smithsonian Institution, was president of the Association, which at that time had 1956 members; the retiring president's address, given by Edward S. Morse, summarized the many contributions of American zoologists to organic evolution during the preceding decade. F. W. Putnam was permanent secretary of the Association. The general chairman was F. A. P. Barnard, Episcopal clergyman and astronomer, president of Columbia, who had been president of the Association 21 years before, in 1866. The local committees of more than 500 prominent persons included Chauncey M. Depew, J. Pierpont Morgan, and Theodore Roosevelt.

Among the several participating organizations, the Torrey Botanical Club sponsored a field trip on Staten Island and a reception on the campus. The eve-

ning lecture, "The heart of Africa," by Henry Drummond of Glasgow, Scotland, was followed by a general reception for the Association with the New York Academy of Sciences as host.

After an interval of 13 years, the second New York meeting, 25-30 June, 1900, was held at Columbia University, which by then had been moved to its present location on Morningside Heights. The headquarters hotel was the Majestic at 72 Street and Central Park West, where the rates were "\$1.50 and upwards." The local committee, composed of all AAAS members within a 25-mile radius of the city and headed by J. J. Stevenson, together with the AAAS Council, announced their intention "... to reduce the excursions and other social features ... so prominent at many previous meetings, to such a point that there [would] be no possible interruption to the scientific sessions." In this they were but partly successful. Fifteen societies participated, including two that had also met the two preceding days, and 253 papers were read. Although the official registration was only 447, it was estimated that some 300 other scientists were present, making the combined attendance of the AAAS and the societies about as large as usual. R. S. Woodward, Columbia mathematician, was the 52nd president of the Association, and L. O. Howard, eminent entomologist, was the permanent secretary. The retiring president's address, "Rhythms and geologic time," was given at the American Museum of Natural History by Grove K. Gilbert, who had succeeded his fellow geologist, Edward Orton, the third AAAS president to die in office. At this meeting resolutions were passed in favor of preserving the redwoods of California, creating a national forest reserve in the southern Appalachians, and establishing a National Bureau of Standards. The Council's action in making *Science*, owned and edited by J. McKeen Cattell, an official journal of the Association, included with the dues, was destined to result in a rapid increase in AAAS members from the static figure of 1925 that year. A new section on physiology and experimental medicine was authorized.

The third New York Meeting, once more at Columbia, was held 27 Decem-

ber 1906 to 2 January 1907. Again J. J. Stevenson served as general chairman, and J. McKeen Cattell was secretary of the local executive committee. The full local committee consisted of all members within a radius of 50 miles. The permanent secretary, L. O. Howard, asked for the early submittal of titles because an effort was to be made to publish the entire program prior to the opening date; many titles, however, came in late. Hotel headquarters were at the Belmont across from Grand Central Station; the special rates to AAAS members for single rooms were \$3 with bath, \$2.50 without. There was now a subway, the trains of which, in this pre-shuttle period, ran directly to Columbia University. In the 6 years since the previous New York meeting, the Association, with 4498 members, had more than doubled in size; 19 societies participated, and 360 papers were read. The authors included virtually all the prominent scientists of the day and many younger men who were destined to achieve lasting recognition. Genetics was becoming a science in its own right. In most fields, experimental work was taking the lead over purely descriptive observations.

At this meeting, there were 934 who registered, and the total attendance was "conservatively estimated" at not less than 1500 scientists, which would make it the largest AAAS meeting up to that time. W. H. Welch, noted medical scientist from Johns Hopkins, took the gavel of the presidency of the Association from Calvin M. Woodward, mathematician, whose retiring address was "The science of education." Principal of the numerous social events was the reception that followed, given by the president of Columbia, Nicholas Murray Butler, in Earl Hall. Another feature of the meeting was the unveiling of ten busts of pioneer American scientists which were presented by Morris K. Jesup to the American Museum of Natural History. In addition to the sessions at Columbia and at the Museum, some sessions were held at the New York Botanical Garden and in the new building of the Rockefeller Institute for Medical Research. A new section on education was approved.

It was at the third New York meeting that the present Botanical Society of America was founded, on 27 Dec. 1906, by the merger of several botanical societies. The golden anniversary of the society will be appropriately celebrated at the 1956 New York meeting on the same day in December.

The Association's 69th meeting—the fourth New York meeting—26-30 December 1916, was described by J. McKeen Cattell as "the largest and most important gathering of scientific men hitherto held in this country or elsewhere." Twelve sections and 52 societies

participated, and 1252 papers were read. The registration was about 2100, and the total attendance was estimated as perhaps 8000; in 10 years AAAS membership, approximately 11,000, had more than doubled. Although the meeting was held principally at Columbia and at the American Museum of Natural History, numerous other sessions were widely scattered because of the preferences of so many societies. In addition to the Belmont, once again AAAS headquarters, the Astor, Waldorf, Biltmore, and seven other hotels were used.

World War I was in its third year in Europe, and a number of the programs reflected the emotions of the period. The symposium of the American Society of Naturalists, for instance, was "Biology and the national existence," and several vice-presidential addresses referred to preparedness. Two public lectures were given: A. A. Noyes of Massachusetts Institute of Technology spoke on "Nitrogen and preparedness," and Simon Flexner, in this epidemic year, spoke on "Infantile paralysis and the public health." The AAAS retiring president's address, "The nebulae," was given by astronomer W. W. Campbell; president Charles R. Van Hise, prominent geologist, presided. Henry Fairfield Osborn was general chairman, and L. O. Howard was still permanent secretary. A feature of the meeting, at the Engineering Building, was the symposium, "The interrelations of engineering and science," jointly sponsored by the ASCE, AIME, ASME, and AIEE. The scientific exhibits in University Hall attracted much attention.

During the 1920's the AAAS inaugurated a plan to make every fourth meeting, to be held in a major city, a particularly large and diversified one. The fifth New York meeting of 26 December 1928 through 2 January 1929 was the second in this pattern. With a registration of 3935—AAAS membership then stood at 16,328—and several thousand other scientists who attended, this 85th meeting of the Association was exceeded only, and then but slightly, by the 1924 meeting in Washington, D.C. On the programs of the 15 sections and 45 societies that participated were more than 2000 papers. The approximately 250 sessions once more were held principally at Columbia University, but the American Museum of Natural History, the Metropolitan Museum of Art, the headquarters of the American Geographical Society, and the Engineering Building were also used rather intensively. Despite the size and complexity of the meeting, however, it was exceptionally well organized and successful. Henry Fairfield Osborn, president of the American Museum of Natural History and current president of the Association, took an active personal interest, and the 11 local committees

were under the able leadership of George B. Pegram of Columbia. The General Program of 344 pages was edited for the Association by Sam F. Trelease of Columbia; the permanent secretary of the AAAS, Burton E. Livingston, was ably assisted by Sam Woodley, in charge of meeting details, by H. S. Kimberley as exhibit manager, and by Austin H. Clark, who directed the Press Room.

The meeting was memorable for an unusual number of social events and general evening sessions, which included the AAAS presidential address of A. A. Noyes, "The story of the chemical elements"; the seventh annual Sigma Xi lecture, "What is light?" by Arthur H. Compton; and an address, "The scientific retrospect," by the noted astronomer, H. H. Turner, official representative of the British Association for the Advancement of Science. Other evening speakers were C. E. K. Mees, Charles P. Berkey, C. A. Kofoed, Franz Boas, W. M. Wheeler, and Harlow Shapley. Daily teas at Columbia, five receptions at the American Museum of Natural History, a Sunday largely devoted to tours of the city's scientific institutions, and an endowed, complimentary concert by the New York Philharmonic Orchestra added to the enjoyment of the registrants. The sixth AAAS Thousand Dollar Prize was awarded to Oliver Kamm for a paper on pituitary hormones, which was read before Sections C and N. Thirty-six commercial exhibitors participated in the Association's fifth official Exhibition of Science.

The sixth New York meeting—the 116th AAAS annual meeting—26–31 December 1949, was delayed for 21 years through a combination of circumstances that included World War II and the Centennial Meeting of the preceding year. It was by far the largest meeting in the long annals of the Association. Sixteen sections and 61 societies—including groups in the social fields which seldom meet with the AAAS—participated, and many of these experienced a larger attendance than they anticipated. There were 398 sessions (294 with projection) in 63 rooms, one-third of these on the campus of Columbia University, the others in the same Penn Zone hotels as the 1956 meeting. Registrations were 7014, but very probably at least another 12,000 attended some phase of the meeting. In addition to every section of the nation, 30 foreign countries were represented. The American Museum of Natural History was the site of a particularly pleasant Biologists' Smoker. The 102nd president of the Association was Elvin C. Stakman. The AAAS presidential address, "Ten million scientists," which pointed out the pleasures and importance of scientific observations by laymen, was given by Edmund

W. Sinnott. Joseph W. Barker was general chairman, and the administrative secretary, who had just succeeded F. R. Moulton, was Howard A. Meyerhoff. It was the first AAAS meeting for the arrangements of which I was responsible.

Among the outstanding features of the meeting were the address on infrared studies by G. B. B. M. Sutherland, official representative of the British Association; the Sigma Xi address, "Evolution in the tropics," by Th. Dobzhansky; the first RESA address, "Recent advances in nuclear physics," by John R. Dunning; the lecture and film of the National Geographic Society on Arnhem Land by Frank M. Setzler; and the Josiah Willard Gibbs lecture of the American Mathematical Society by Norbert Wiener, "The mathematics of sensory prosthesis." Nuclear physics and engineering, the adrenal cortex, and television were the subjects of prominent and timely symposia. The 22nd AAAS Thousand Dollar Prize was awarded to Armin C. Braun for a paper on the tumor-inducing principle in crown gall, which was read before the American Phytopathological Society; the winner of the sixth Theobald Smith award, given by Eli Lilly and Company, was Seymour S. Kety of the University of Pennsylvania School of Medicine. The 26th edition of the Annual Exposition of Science and Industry, with 68 commercial exhibitors, was substantially larger than ever before. A feature, new since the previous meeting—the AAAS Science Theater—was popular throughout the period.

In summary, the records of all previous meetings in New York do not fail to mention the warm spirit of hospitality and interest in the Association and its work shown by the people of this great city.

In the 7 years since the last New York meeting, the membership of the Association has grown from 44,947 to more than 51,000, and there are now 264 organizations affiliated with the AAAS (with action on seven others pending this December) compared with the 214 in 1949. The two journals of the Association have gained in circulation correspondingly; *Science*, with its size and format changed in July 1955, has increased its text coverage more than 50 percent. Some 20 symposium volumes have been published since the sixth New York meeting and nine others are in press and in preparation at this time.

At this year's meeting Section P—Industrial Science, activated in 1951, will hold its sixth program and Section Nd—Dentistry and Section Np—Pharmacy have had full status as independent sections since 1954. In addition to its usual activities, the AAAS has undertaken new responsibilities, including the sponsorship of the International Arid Lands Meet-

ings in New Mexico in 1955. In the current Science Teaching Improvement Program, supported by a grant from the Carnegie Corporation of New York, and the continuation of the Traveling Science Libraries for Small High Schools, financed by the National Science Foundation, the Association has demonstrated its abiding concern for the advancement of science, of science education, and of a better public understanding of the importance and promise of science.

In 7 years, the character of the annual meeting, too, has evolved in line with the thinking of the Arden House Conference. Added to the familiar pattern of many participating societies with their numerous sessions for short reports of current research, the 18 sections of the Association provide strong programs of invited papers in each of the principal fields of science. These symposia, traditionally associated with the AAAS meetings and often aggregating half a thousand speakers, have shown an increased emphasis on important interdisciplinary subjects. The distinguished evening lectures of Sigma Xi, RESA, the National Geographic Society, and Phi Beta Kappa have continued without interruption; the recurrent conferences on academy of science problems, on scientific manpower, and on scientific and technical editorial problems have developed, and meet, a continued interest.

Among the societies participating in 1956 but not present at the 1949 New York meeting are the American Association of Clinical Chemists, American Association of Hospital Consultants, American Astronomical Society, American Documentation Institute, American Psychiatric Association, American Society of Range Management, Association for Computing Machinery, Entomological Society of America, History of Science Society, New York Academy of Sciences, and the Society of General Physiologists. The Society for the Study of Evolution, participating in December 1956, last met with the AAAS in 1949.

Other features of this seventh New York meeting include the two-afternoon general symposium, "Moving frontiers of science," organized by the relatively new standing Committee on AAAS Meetings; the silver anniversary of the AAAS-Gordon Research Conferences—a dinner with an address by Glenn T. Seaborg; the centennial anniversary symposia honoring Sigmund Freud (in the program of the American Philosophical Association) and commemorating Kraepelin (in the program of the American Psychiatric Association); Section G's symposium in honor of the golden anniversary of the Botanical Society of America; and the tenth annual Junior Scientists Assembly—a carefully planned afternoon for high-school science students, with the theme, "What makes a scientist?" The AAAS

Science Theater, with its showing of the latest foreign and domestic scientific films, and the 33rd AAAS Annual Exposition of Science and Industry—a large-scale exhibit of the tools and techniques of science—will be well worth the consideration of all who attend.

RAYMOND L. TAYLOR
Associate Administrative Secretary,
AAAS

Meeting Notes

■ Progress in preventing health hazards and diseases that range from highway accidents to the common cold will be reviewed by more than 4000 public health specialists at the 84th annual meeting of the American Public Health Association that will take place in Atlantic City, N.J., 12–16 Nov. Organizations scheduled to meet simultaneously include the American School Health Association, Association of Business Management in Public Health, Commissioned Officers Association of the U.S. Public Health Service, Conference for Health Council Work, American Association of Hospital Consultants, Association of Labor-Management Medical Care Program Administrators, American Association of Public Health Physicians, National Association of Sanitarians, Association of Schools of Public Health, American College of Preventive Medicine, and National Citizens Committee for the World Health Organization.

■ The Research Committee of the International Association of Gerontology is organizing symposia for the international congress that will take place at Merano, Italy, 14–19 July 1957. The topics for the symposia will be aging of cells, intercellular matrices, and connective tissues; aging of adaptive mechanisms; genetic studies of aging; and the processes of learning and use of information in aging organisms.

Research workers who will have completed new work in these fields since the last congress and who wish to present papers are asked to communicate with either Dr. A. I. Lansing, Department of Anatomy, University of Pittsburgh, Pittsburgh 13, Pa., or Dr. J. F. Danielli, Department of Zoology, King's College, Strand, London W.C.2, England.

■ The fifth International Conference on Low Temperature Physics and Chemistry will be held at the University of Wisconsin, 26–31 Aug. 1957. The earlier conferences were held at Cambridge, Mass., (M.I.T.) in 1949; Oxford, England, in 1951; Houston, Tex., in 1953; and at Paris, France, in 1955. For information about next year's meeting, write to Joseph R. Dillinger, associate professor of physics at the University of Wisconsin.

Forthcoming Events

October

21–23. American College of Apothecaries, Dallas, Tex. (R. E. Abrams, Hamilton Court, 39th & Chestnut St., Philadelphia 4, Pa.)

21–27. Iberian-Latin American Cong. of Dermatology, 3rd, Mexico City, Mexico. (Centro Dermatológico Pascua, Calle Dr. Garciadiego 21, Mexico 7, D.F., Mexico.)

22–24. American Standards Assoc., 38th annual, New York, N.Y. (ASA, 70 E. 45 St., New York 17.)

22–25. American Soc. for Pharmacology and Experimental Therapeutics, Louisville, Ky. (H. Hodge, Dept. of Pharmacology, Univ. of Rochester, Rochester, N.Y.)

22–26. National Safety Cong., Chicago, Ill. (R. L. Forney, National Safety Council, 425 North Michigan Ave., Chicago 11.)

22–27. Endocrine Soc., 8th annual postgraduate assembly, Houston, Tex. (Office of Dean, Univ. of Texas, Postgraduate School of Medicine, Texas Medical Center, Houston 25.)

22–2. Industrial Forestry Seminar, New Haven, Conn. (E. T. F. Wohlenberg, Industrial Forestry Dept., Yale Univ., New Haven.)

23. American Soc. of Safety Engineers, annual, Chicago, Ill. (J. B. Johnson, ASSE, 425 N. Michigan Ave., Chicago 11.)

24–25. Solid Fuels Conf., 19th annual, sponsored jointly by American Inst. of Mining, Metallurgical and Petroleum Engineers and American Soc. of Mechanical Engineers, Washington, D.C. (ASME, 29 W. 39 St., New York 18.)

25–26. National Soc. of Professional Engineers, White Sulphur Springs, W.Va. (P. H. Robbins, 2029 K St., NW, Washington 6.)

26–27. Kentucky Academy of Science, annual, Richmond, Ky. (Mary E. Wharton, Georgetown College, Georgetown, Ky.)

26–29. American Heart Assoc., annual, scientific sessions, Cincinnati, Ohio. (Medical Director, AHA, 44 E. 23 St., New York 10.)

27. Eastern Psychiatric Research Assoc., New York, N.Y. (T. R. Robie, 676 Park Ave., East Orange, N.J.)

28–1. American Council of Independent Laboratories, 29th meeting, New York, N.Y. (H. M. Dudley, 4302 East-West Highway, Washington 14.)

29–30. American Cancer Soc., scientific session, New York, N.Y. (ACS, Professional Education Section, 521 W. 57 St., New York 19.)

29–30. East Coast Conf. on Aeronautical and Navigational Electronics, 3rd annual, Baltimore, Md. (W. D. Crawford, Westinghouse Electric Corp., Air Arm Div., Friendship International Airport, Baltimore 27.)

29–31. Energy Resources Conf., Denver, Colo. (Energy Resources Conf., c/o Denver Chamber of Commerce, 1301 Welton St., Denver 4.)

29–1. Conference on Climatology sponsored by American Meteorological Soc.,

Asheville, N.C. (K. C. Spengler, 3 Joy St., Boston 8, Mass.)

29-1. Society of Exploration Geophysicists, annual, New Orleans, La. (G. A. Grimm, Tide Water Associated Oil Co., Box 2131, Midland, Tex.)

29-2. Convention on Ferrites, Institution of Electrical Engineers, London, England. (Secretary, IEE, Savoy Place, London, W. C.2.)

31. Society of Vertebrate Paleontology, Minneapolis, Minn. (J. T. Gregory, SVP, Peabody Museum of Natural History, Yale Univ., New Haven, Conn.)

31-1. Western Area Development Conf., 3rd, Phoenix, Ariz. (C. Green, Mountain States Office, Stanford Research Inst., Phoenix.)

31-2. Geological Soc. of America, annual, Minneapolis, Minn. (H. R. Aldrich, GSA, 419 W. 117 St., New York 27.)

31-2. Mineralogical Soc. of America, Minneapolis, Minn. (C. S. Hurlbut, Jr., 12 Geological Museum, Oxford St., Cambridge 38, Mass.)

31-2. Soc. of Economic Geologists, annual, Minneapolis, Minn. (O. N. Rove, 30 E. 42 St., New York 17.)

31-2. Society for Experimental Stress Analysis, annual, Columbus, Ohio (W. M. Murray, Massachusetts Inst. of Technology, Cambridge 39.)

31-3. American Soc. of Tropical Medicine and Hygiene, New Orleans, La. (J. E. Larsh, Jr., School of Public Health, Univ. of North Carolina, Chapel Hill.)

31-3. Gaseous Electronics Conf., 9th annual, Pittsburgh, Pa. (A. V. Phelps, Westinghouse Research Laboratories, Beulah Rd., Pittsburgh 35.)

November

1-2. Society for Applied Spectroscopy, 11th annual, New York, N.Y. (F. M. Biffen, Johns-Manville Research Center, Manville, N.J.)

1-3. Association of Geology Teachers, annual, Chicago, Ill. (C. E. Prouty, Dept. of Geology, Univ. of Pittsburgh, Pittsburgh 13, Pa.)

5-7. Paleontological Soc., annual, Minneapolis, Minn. (H. B. Whittington, Museum of Comparative Zoology, Harvard Univ., Cambridge, Mass.)

6-15. International Grassland Cong., 7th, Palmerston, New Zealand. (S. H. Saxby, P.O. Box 2298, Wellington, New Zealand.)

7-9. Electrical Techniques in Medicine and Biology, 9th annual conf., New York, N.Y. (E. D. Trout, X-Ray Dept., General Electric Co., Milwaukee 1, Wis.)

7-9. Society of Rheology, annual, Pittsburgh, Pa. (W. R. Willets, Titanium Pigment Corp., 99 Hudson St., New York 13.)

8-9. Canadian High Polymer Forum, 7th, Sarnia, Ont. (M. H. Jones, Ontario Research Foundation, 43 Queen's Park, Toronto 5, Ont.)

8-10. Gerontological Soc., annual, Chi-

cago, Ill. (N. W. Shock, Baltimore City Hospitals, Baltimore 24, Md.)

10. Society for the Scientific Study of Religion, fall meeting, Cambridge, Mass. (R. W. Burhoe, American Acad. of Arts and Sciences, Cambridge 36.)

11-12. American Soc. for the Study of Arteriosclerosis, annual, Chicago, Ill. (R. G. Gould, P.O. Box 1663, Los Alamos, N.M.)

11-17. Cardiology, 5th Inter-American cong. of, Havana, Cuba. (I. Chavez, Calzada de la Piedad 300, Mexico, D.F., Mexico.)

12-14. Association of Military Surgeons of the U.S., annual, Washington, D.C. (S. E. Womeldorph, AMSUS, Suite 718, 1726 Eye St., NW, Washington 6.)

12-15. American Petroleum Inst., 36th annual, Chicago, Ill. (API, 50 W. 50 St., New York 20.)

12-16. American Public Health Assoc., 84th annual, Atlantic City, N.J. (R. M. Atwater, 1790 Broadway, New York 19.)

12-16. American Soc. of Agronomy, annual, Cincinnati, Ohio. (L. G. Monthey, 2702 Monroe St., Madison 5, Wis.)

13-15. Historical Development of Physiological Thought, symposium, Brooklyn, N.Y. (E. Goodwin, State Univ. of New York, College of Medicine, Brooklyn 3.)

14-16. Optics and Microwaves, symp., Washington, D.C. (Symp. on Optics and Microwaves, P.O. Box 355, Falls Church, Va.)

14-16. Newer Developments in the Diagnosis and Management of Cancer, symp., Duarte, Calif. (J. Love, Director, Div. of Postgraduate Medical Education, City of Hope Medical Center, Duarte.)

15-16. American Philosophical Soc., Philadelphia, Pa. (APA, 104 S. 5 St., Philadelphia 6.)

15-16. Operations Research Soc. of America, 10th natl., San Francisco, Calif. (T. E. Oberbeck, U.S. Naval Post Graduate School, Monterey, Calif.)

15-16. Society of Technical Writers, jointly with Assoc. of Technical Writers and Editors, New York, N.Y. (S. F. Shapiro, STW, P.O. Box 22, Newton Centre 59, Mass.)

15-17. Acoustical Soc. of America, Los Angeles, Calif. (W. Waterfall, ASA, 57 E. 55 St., New York 22.)

18-25. National Meeting of Surgeons, Mexico City, Mexico. (Intern. Acad. of Proctology, 147-41 Sanford Ave., Flushing, N.Y.)

19-20. Entomological Soc. of America, Eastern Branch, Atlantic City, N.J. (B. F. Driggers, Experiment Station, New Brunswick, N.J.)

22-23. Calder Hall Nuclear Power Station, conf., London, England. (Secretary, British Nuclear Energy Conference, 1-7 Great George St., London, S.W.1.)

22-3. International Cong. of Industrial Chemistry, 29th, Paris, France. (J. Gerard, Société de Chimie Industrielle, 28, rue Saint-Dominique, Paris VII.)

23-24. American Mathematical Soc., Evanston, Ill. (E. G. Begle, 207 Leet Oliver Memorial Hall, Yale Univ., New Haven 11, Conn.)

23-24. American Physical Soc., Chicago, Ill. (K. K. Darrow, APS, Columbia Univ., N.Y. 27.)

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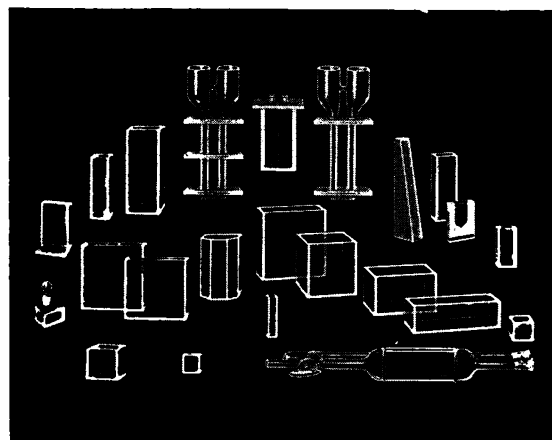
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23-24. American Soc. of Animal Production, annual, Chicago, Ill. (W. M. Beeson, Dept. of Animal Husbandry, Purdue Univ., W. Lafayette, Ind.)

24. American Ethnological Soc., New York, N.Y. (A. G. James, Hunter College, Bronx 68, N.Y.)

25-30. American Rocket Soc., annual, New York, N.Y. (J. J. Harford, ARS, 29 W. 39 St., New York 18.)

25-30. American Soc. of Mechanical Engineers, annual, New York, N.Y. (C. E. Davies, ASME, 29 W. 39 St., New York 18.)

26-28. American Soc. of Refrigerating Engineers, Boston, Mass. (R. C. Cross, ASRE, 234 Fifth Ave., New York 1.)

26-30. Automation Exposition, 3rd intern., New York, N.Y. (TIAE, Richard Rimbach Associates, Inc., 845-A Ridge Ave., Pittsburgh 12, Pa.)

27-30. American Medical Assoc., clinical, Seattle, Wash. (G. F. Lull, AMA, 535 N. Dearborn St., Chicago 10, Ill.)

27-30. National Chemical Exposition, 9th, Cleveland, Ohio. (American Chemical Soc., 1155 16 St., NW, Washington 6.)

28-30. American College of Cardiology, 5th interim, Pittsburgh, Pa. (P. Reichert, ACC, Empire State Bldg., New York, N.Y.)

28-30. International Conf. on Ozone, 1st, Chicago, Ill. (C. E. Thorp, Armour Research Foundation, 35 W. 33 St., Chicago 16.)

30. American Rheumatism Assoc., Be-

thesda, Md. (E.F. Hartung, 580 Park Ave., New York, N.Y.)

30-1. Oklahoma Acad. of Science, Stillwater. (D. E. Howell, Entomology Dept., Oklahoma A. & M. College, Stillwater.)

30-1. Tennessee Acad. of Science, Murfreesboro. (D. Caplenor, Dept. of Biology, Peabody College, Nashville 4, Tenn.)

December

2. American Acad. of Dental Medicine, 11th mid-annual, New York, N.Y. (A. Reiner, 114-01 201 St., St. Albans 12, N.Y.)

2-7. Radiological Soc. of North America, Inc., annual, Chicago, Ill. (D. S. Childs, 713 E. Genesee St., Syracuse 2, N.Y.)

5-7. Instrumentation Conf., 2nd, Inst. of Radio Engineers, Atlanta, Ga. (M. D. Prince, Engineering Experiment Station, Georgia Inst. of Technology, Atlanta.)

6-7. American Astronautical Soc., 3rd annual, New York, N.Y. (N. V. Petersen, AAS, 516 Fifth Ave., New York 36.)

6-8. American Phytopathological Soc., annual, Cincinnati, Ohio. (G. S. Pound, Dept. of Plant Pathology, Univ. of Wisconsin, Madison.)

6-9. American Psychoanalytic Assoc., New York, N.Y. (J. N. McVeigh, APA, 36 W. 44 St., New York 36.)

7-11. American Acad. of Optometry, annual, Houston, Tex. (C. C. Koch, 1506 Foshay Tower, Minneapolis 2, Minn.)

9-12. American Inst. of Chemical Engineers, annual, Boston, Mass. (F. J. Van Antwerpen, AICE, 25 W. 45 St., New York 36.)

9-12. American Soc. of Agricultural Engineers, Chicago, Ill. (J. L. Butt, ASAE, St. Joseph, Mich.)

10-12. American Nuclear Soc., winter meeting, Washington, D.C. (ANS, P.O. Box 963, Oak Ridge, Tenn.)

10-12. Eastern Joint Computer Conf., New York, N.Y. (J. R. Weiner, Remington Rand, Inc., 315 Fourth Ave., New York, N.Y.)

13-15. Texas Acad. of Science, annual, Brownwood, Tex. (G. C. Parker, Texas A.&M. College, College Station.)

26-31. American Assoc. for the Advancement of Science, annual, New York, N.Y. (R. L. Taylor, AAAS, 1515 Massachusetts Ave., NW, Washington 5.)

The following 55 meetings are being held in conjunction with the AAAS annual meeting.

AAAS Academy Conference (L. Taylor, West Virginia Univ., Morgantown). 29-30 Dec.

AAAS Cooperative Committee on the Teaching of Science and Mathematics (M. Meister, Bronx High School of Science, New York 68). 27 Dec.

AAAS-Gordon Research Conferences (W. G. Parks, Univ. of Rhode Island, Kingston). 27 Dec.

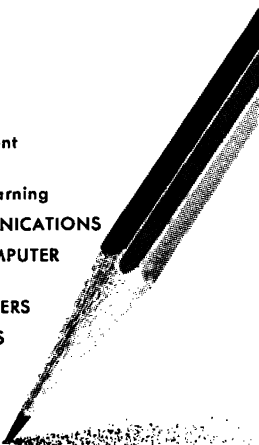
Alpha Chi Sigma (H. G. Seavey, 30



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Church St., Room 340, New York 7).
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Alpha Epsilon Delta (M. L. Moore, 7
Brookside Circle, Bronxville, N.Y.). 29
Dec.

American Assoc. of Clinical Chemists
(A. E. Sobel, Jewish Hospital of Brooklyn,
Brooklyn 16, N.Y.).

American Assoc. of Hospital Consult-
ants (E. D. Barnett, School of Public
Health, Columbia Univ., New York 32.)

American Assoc. of Scientific Workers
(R. J. Rutman, 6331 Ross St., Philadel-
phia 44, Pa.). 29 Dec.

American Astronomical Soc. (J. A.
Hynek, Harvard College Observatory,
Cambridge 38, Mass.). 26-29 Dec.

American Documentation Inst. (J. Hil-
senrath, National Bureau of Standards,
Washington 25). 27-29 Dec.

American Educational Research Assoc.
(A. G. Wesman, Psychological Corp., 522
Fifth Ave., New York 36). 29 Dec.

American Meteorological Soc. (R. J.
Roth, Crop-Hail Insurance Actuarial As-
soc., 209 W. Jackson Blvd., Chicago, Ill.).
28 Dec.

American Museum of Natural History
(G. Reekie, AMNH, Central Park West at
79 St., New York, N.Y.). 26 Dec.

American Nature Study Soc. (R. L.
Weaver, Univ. of Michigan, Ann Arbor).
26-30 Dec.

American Philosophical Assoc., Eastern
Div. (J. Wild, Harvard Univ., Cambridge
38, Mass.). 27 Dec.

American Psychiatric Assoc. (B. Pasa-
manick, Ohio State Univ., Columbus 10).
28-29 Dec.

American Soc. of Hospital Pharmacists
(G. E. Archambault, U.S. Public Health
Service, Washington 25). 29 Dec.

American Soc. of Range Management
(F. G. Renner, Soil Conservation Service,
U.S. Dept. of Agriculture, Washington
25). 28 Dec.

American Statistical Assoc. (R. E. John-
son, Western Electric Co., New York 7).

Association for Computing Machinery
(J. P. Nash, Univ. of Illinois, Urbana).

Association of American Geographers
(P. M. Stern, Conservation Foundation,
30 E. 40 St., New York, N.Y.).

Astronomical League (H. B. Davidson,
812 Park Ave., New York 21.)

Conference on Scientific Editorial Prob-
lems (J. G. Adashko, Ford Instrument
Co., Long Island City, N.Y.). 26-28 Dec.

Conference on Scientific Manpower (T.
J. Mills, National Science Foundation,
Washington 25). 26 Dec.

Ecological Soc. of America (M. F.
Buell, Rutgers Univ., New Brunswick,
N.J.). 26-30 Dec.

Entomological Soc. of America (P. W.
Oman, Plant Industry Sta., Beltsville,
Md.). 27-30 Dec.

Genetics Soc. of America (A. W. Pol-
lister, Columbia Univ., New York 27).
28 Dec.

History of Science Soc. (Miss P. Kibre,
Hunter College, New York, N.Y.). 27-29
Dec.

Institute of Mathematical Statistics
(Miss E. Scott, Univ. of California, Berke-
ley 4).

International Council for Exceptional
Children (M. H. Fouracre, Columbia
Univ., New York 27). 26 Dec.

International Union for the Study of
Social Insects, North American Section
(T. C. Schneirla, American Museum of
Natural History, Central Park West at 79
St., New York, N.Y.). 26-27 Dec.

Mountain Lake Biological Sta. (B. D.
Reynolds, Univ. of Virginia, Charlottesville).

Mycological Soc. of America (L. S.
Olive, Columbia Univ., New York 27).
26 Dec.

National Acad. of Economics and Po-
litical Science (D. P. Ray, George Wash-
ington Univ., Washington, D.C.). 27 Dec.

National Assoc. for Gifted Children
(Miss A. F. Isaacs, 409 Clinton Springs
Ave., Cincinnati, Ohio).

National Assoc. for Research in Science
Teaching (N. Washton, Queens College,
Flushing 67, L.I., N.Y.). 27 Dec.

National Assoc. of Biology Teachers (J.
Breukelman, State Teachers College, Em-
poria, Kan.). 26-30 Dec.

National Assoc. of Science Writers (J.
E. Pfeiffer, New Hope, Pa.).

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

National Speleological Soc. (Brother G.
Nicholas, LaSalle High School, Cumber-
land, Md.). 29 Dec.

New York Acad. of Sciences (R. F.
Nigrelli, New York Zoological Soc. and
M. Kopac, New York Univ., Washington
Sq., New York, N.Y.). 29 Dec.

Philosophy of Science Assoc. (C. W.
Churchman, Case Inst. of Technology,
Cleveland, Ohio). 29-30 Dec.

Pi Gamma Mu (B. H. Williams, Indus-
trial College of the Armed Forces, Wash-
ington 25). 26 Dec.

Scientific Research Soc. of America (D.
B. Prentice, Yale Univ., New Haven,
Conn.). 26-27 Dec.

Sigma Delta Epsilon (C. Chandler,
Boyce Thompson Inst. for Plant Research,
1086 N. Broadway, Yonkers 3, N.Y.).

Sigma Pi Sigma (M. W. White, Penn-
sylvania State Univ., University Park).

Society for the Advancement of Crimi-
nology (D. E. J. MacNamara, New York
Inst. of Criminology, 2109 Broadway, New
York, N.Y.). 29 Dec.

Society for the Advancement of General
Systems Theory (L. von Bertalanffy, Mt.
Sinai Hospital, Los Angeles 48, Calif.).
29-30 Dec.

Society for the Study of Evolution (H.
Lewis, Univ. of California, Los Angeles
24). 27-29 Dec.

Society of General Physiologists (A.
Shanes, National Institutes of Health,
Bethesda, Md.).

Society of Systematic Zoology (R. E.
Blackwelder, Box 500, Victor, N.Y.).
27-30 Dec.

Society of the Sigma Xi (T. T. Holme,
Yale Univ., New Haven, Conn.). 27 Dec.

Society of Vertebrate Paleontology, an-
nual (J. T. Gregory, Peabody Museum of
Natural History, Yale Univ., New Haven,
Conn.). 28-30 Dec.

Torrey Botanical Club (David Keck,
New York Botanical Garden, Bronx Park,
New York 58). 26-27 Dec.

United Chapters of Phi Beta Kappa (C.
Billman, PBK, 1811 Q St., NW, Wash-
ington 6). 27 Dec.