

Preview of the 114th Meeting, AAAS:

Chicago, December 26–31, 1947

General Information

Sixty-five Association sections and affiliated societies will present programs at the Chicago meeting. In addition, meetings have been scheduled for the organization of two new scientific societies, one in the field of systematic zoology and the other in the field of the social and economic sciences, specifically the study of invention. Other groups, such as the Natural Resources Council of America, Grassland Research Foundation, and Ecologists' Union, are meeting jointly with related societies.

The physical arrangements for the meeting were made with the help of Fred Puffer, of the Chicago Convention Bureau, and local committees; in several cases arrangements were made by representatives of the cooperating societies. Through the Convention Bureau the Association obtained commitments for about 4,000 hotel rooms. Commitments for session rooms were obtained from the sales managers of the Blackstone, Congress, Palmer House, Sherman, and Stevens Hotels. Officers of The University of Chicago generously provided meeting rooms for societies desiring to meet on the campus of the University. In every case, societies having closely related interests have been assigned meeting rooms in the same or adjacent hotels, in order that their members may mingle conveniently with a minimum of outdoor travel.

The following institutions in the Chicago area named representatives to organize the local committees: Chicago Academy of Science, Chicago Historical Society, Chicago Natural History Museum, Chicago Technical Societies Council, DePaul University, Elmhurst College, George Williams College, Illinois Institute of Technology, Lake Forest College, Museum of Science and Industry, National College of Education, Northwestern University, Roosevelt College, Saint Xavier College for Women, John G. Shedd Aquarium, University of Chicago, University of Illinois, and Wheaton College. At a meeting of committee members early in 1947, Paul Jenkins, secretary of the Chicago Technical Societies Council, was elected general chairman. His tasks have been to coordinate the activities of the subcommittees and to serve as their intermediary with the administrative officers of the Association. The five subcommittees are: *Finance*: W. P. Cortelyou, Roosevelt College, chairman; Gilbert A. Force, Illinois Institute of Technology, treasurer; *Equipment*: R. T. Van Niman, Chicago Technical Societies Council, chairman; *Publicity*: Jeannette Lowrey, The University of Chicago, chairman; *Reception and Entertainment*: Margaret Scriven, Chicago Historical Society, chairman; *Registration*: Hans O. Hoepfner, The

University of Chicago, chairman. The general functions of these committees include raising funds to defray local committee expenses, providing equipment for the meetings of the sections and societies, aiding in the direction of press room activities, arranging for the general reception, and facilitating registration.

Reservations for sleeping accommodations may yet be made through the AAAS Reservation Center, Chicago Convention Bureau, 33 N. La Salle Street, Chicago 2. When writing for reservations, give your home address, dates of arrival and departure, and three hotels in order of preference. The hotel headquarters for all sections and societies meeting with the Association follow:

The Sherman Hotel will be the general headquarters of the Association, housing the Press Room (Parlors L, M, and O) and the business meetings of the Association.

Congress Hotel: American Association of Economic Entomologists, American Microscopical Society, American Society of Naturalists, American Society of Parasitologists, Beta Beta Beta, Ecological Society of America, Entomological Society of America, Society for the Study of Evolution, Society of Systematic Zoologists.

Continental Hotel: Econometric Society.

Palmer House: Section B (Physics), Section O (Agriculture), American Association of Physics Teachers, American Dietetic Association, American Meteorological Society, American Physical Society, American Society for Horticultural Science, Honor Society of Phi Kappa Phi, Philosophy of Science Association, Pi Lambda Theta, Potato Association of America, Society for Research in Child Development. (Meetings of Section B, American Association of Physics Teachers, American Meteorological Society, and American Physical Society will be held on the campus of The University of Chicago.)

Sherman Hotel: Section A (Mathematics), Section C (Chemistry), Section D (Astronomy), Section E (Geology and Geography), Section H (Anthropology), Section I (Psychology), Section K (Social and Economic Sciences), Section L (History and Philosophy of Science), Section M (Engineering), Subsection Nd (Dentistry), Subsection Nm (Medicine), Subsection Np (Pharmacy), Section Q (Education), American Chemical Society (Chicago Section), American Nature Study Society, Cooperative Committee on Science Teaching of AAAS, National Association of Biology Teachers, National Science Teachers Association, Pi Gamma Mu, Research Council on Problems of Alcohol, Sigma Delta Epsilon, Society of the Sigma Xi.

Stevens Hotel: Section F (Zoology), Section G (Botany), American Fern Society, American Phytopathological

Society, American Society of Plant Physiologists, American Society of Professional Biologists, American Society of Plant Taxonomists, American Society of Zoologists, Biometric Society (Eastern North American Region), American Statistical Association (Biometrics Section), Botanical Society of America, Inc., Genetics Society of America, Herpetologists League, Limnological Society of America, Mycological Society of America, Phycological Society of the Americas, Sullivant Moss Society.

The main registration center will be located adjacent to the Exposition Hall in the Stevens Hotel and will be open from 8:30 A.M. to 9:00 P.M. daily. Hours for supplementary registration desks in other hotels are: *Congress Hotel*, Monday and Tuesday, December 29 and 30, 8:30 A.M. to 5:00 P.M.; *Palmer House*, Monday and Tuesday, December 29 and 30, 8:30 A.M. to 5:00 P.M.; *Sherman Hotel*, Friday, December 26 through Wednesday, December 31, 8:30 A.M. to 9:00 P.M.

The registration fee is \$2.00 for members and college students and \$3.00 for nonmembers. Upon payment of the correct registration fees, members and guests will receive copies of the *General Program* and Convention Badges. Display of the AAAS Convention Badge is required for admission to the scientific sessions of nearly all sections and societies.

Advance registrants who have received their programs and badges prior to the meeting are asked to call at the AAAS Information Desk in the main registration area, in the Stevens Hotel, where maps and special literature may be obtained which will guide the visitor about Chicago. Other desks for the sale of meal tickets for breakfasts, luncheons, and dinners sponsored by the affiliated societies will be found in the main registration area, as well as booths for the distribution of tickets to entertainment features. Persons who did not receive definite hotel reservations at the time of advanced registration should, on their arrival, notify the attendant at the Information Booth in the Stevens Hotel of their local addresses for posting in the Visible Directory.

The Visible Directory will be located in the Stevens Hotel, basement elevator lobby, adjacent to the registration desks, and will be open for inspection 24 hours a day. The Registration Cards of all who register will be in the Visible Directory.

Mail and telegrams addressed in care of the AAAS will be delivered by the Post Office and wire services to the AAAS Information Desk in the Stevens Hotel. While every effort will be made to notify addressees who are listed in the Visible Directory, the Association assumes no responsibility for the delivery of mail and telegrams. Items not called for will be returned to the sender at the close of the meeting, December 31. Telephone and personal messages will be filed alphabetically at the AAAS Information Desk, which may be reached by telephone through the Stevens Hotel.

Transportation facilities are abundant in Chicago—

streetcar, bus, subway, elevated, and taxi. Economical travel in the "Loop Area," in which most of the meetings will be held, may be made for 10¢ car fare. Maps of the "Loop Area" will be available for ready orientation (see General Program). Members of societies meeting on the campus of The University of Chicago may travel from the "Loop" to the 59th Street Station on the Illinois Central Railway at a fare of 11¢ one way, 20¢ round trip.

Press Service. All persons who will deliver addresses or present papers at the Chicago meeting are requested to provide the Press Service with copies of abstracts of their papers as far as possible in advance of the meeting. Complete manuscripts are required of papers presented by officers of the Association and by officers and invited speakers appearing on the programs of the affiliated and associated societies. All abstracts and manuscripts available in advance of the meeting should be sent to the AAAS Press Director, Dr. Sidney Negus, Medical College of Virginia, Richmond, preferably before mid-December, so that copies may be mailed to the science writers in time for them to examine and interpret the subject matter and to seek authoritative advice if necessary.

The Press Room at the Chicago meeting will be in the Sherman Hotel, Parlors L, M, and O, and will be equipped with duplicating machines to reproduce copies of papers delivered to the Press Director during the meeting, as well as with tables, bulletin boards, telephone outlets, reference texts, etc., to facilitate the work of the science writers. A pneumatic tube system for handling wire service is installed in the Sherman Hotel.

AAAS Business Sessions

The Executive Committee of the Association's Council will hold its first session in the Administrative Secretary's suite at the Sherman Hotel at 10:00 A.M. on Saturday, December 27.

The Council of the Association will meet on Sunday, December 28, at 3:00 P.M., in the Club Room of the Sherman Hotel. A second session of the Council will be held in the Club Room at 9:00 A.M. on Tuesday, December 30.

The Academy Conference will be held in Room 110, Sherman Hotel, at 4:00 P.M. on Saturday, December 27. Conferees will discuss the development of scientific personnel for industry and educational institutions, full subsistence science scholarships, the influence of academies on better science teaching, and the obligation of the State Academy to the Junior Academy. At 6:00 P.M. the group will attend the Academy Conference Dinner sponsored by the AAAS.

AAAS Prize Awards

The Annual One Thousand Dollar Prize, established in 1923, will be awarded to the author of a notable contribution to science presented on a regular program of the Chicago meeting. The Prize will be awarded upon the

recommendation of the Prize Committee: Fernandus Payne (zoology), Indiana University, chairman; Malcolm Dole (chemistry), Northwestern University; A. J. Dempster (physics), The University of Chicago; and William R. Taylor (botany), University of Michigan. It is not necessary that the prizewinner be a member of the Association. All papers appearing in the *General Program*, except presidential and vice-presidential addresses and invited papers, are eligible for the Prize.

The AAAS-George Westinghouse Science Writing Awards will be presented at a ceremony to be held in the West Ballroom of the Stevens Hotel at 6:15 P.M. on Saturday, December 27. Awards of \$1,000 each will be made to two writers, one for superior science reporting in newspapers, the other for an article on science published in a magazine. The judges of the awards are: H. L. Mencken, of the Baltimore *Sun* papers; Benjamin M. McKelway, editor, Washington *Star*; Edward Weeks, editor, *Atlantic Monthly*; Clifton Fadiman, literary critic; Rudolf Flesch, author of *The art of plain talk*; Kenneth Olson, dean, Northwestern University School of Journalism; Edward Weidlein, director, Mellon Institute; Detlev W. Bronk, chairman, National Research Council; and Morris Meister, principal, Bronx High School of Science, chairman of the Committee of Judges.

The First International Salon, "Photography in Science," sponsored by *The Scientific Monthly* and the Smithsonian Institution, is under way. For judging on October 27, competitors from 38 states and 3 foreign countries submitted 361 prints, 243 in the black-and-white division and 118 in the color division. Most of the prints were on display during November in the Arts and Industries Building of the Smithsonian Institution of Washington. During the Chicago meeting they will be shown at the International Science Exhibition in the Stevens Hotel. Later they may be seen at the Buhl Planetarium, Pittsburgh, and at the Cranbrook Institute of Science, Bloomfield Hills, Michigan. In the color division first place was awarded to Thomas C. Poulter, Armour Research Foundation; in the black-and-white division first place went to Edwin R. Willis, The Ohio State University.

AAAS Special Sessions

At each of its annual meetings the Association schedules a number of special sessions for the presentation of broad surveys of important fields of science. On Saturday morning, December 27, the Office of Naval Research (ONR) will present a report to scientists on research and Navy policy, Admiral Paul F. Lee, Chief, ONR, presiding. The ONR-University sciences programs will be reviewed, followed by a discussion led by Karl T. Compton, president of M.I.T.

On Saturday afternoon, December 27, the annual National Geographic-AAAS illustrated popular lecture

will feature Harold F. Weaver in a report of the Brazilian Eclipse Expedition. Colored motion pictures will show the total eclipse of the sun and the preparations made by the Expedition to observe it in Brazil.

James B. Conant, president of Harvard University, will deliver his address as retiring president of the Association, on Saturday evening, December 27. The subject of Dr. Conant's address will be, "The Role of Science in Our Unique Society." Members of the Executive Committee of the Association and eminent scientists and citizens of Chicago have been invited by the Local Committees to be present on the Speaker's Platform. Following the address, the officers of the Association and the Chicago hosts for the occasion will receive members and guests at a general reception to be held in the Louis XVI Room of the Sherman Hotel. All members and guests of the Association are cordially invited to attend the Presidential Address and the Reception which will follow it.

On Sunday evening, December 28, the AAAS Cooperative Committee on Science Teaching will present a forum on "The Effectiveness of Science Teaching." The forum is based on a report by the Committee to the President's Scientific Research Board. Topics to be discussed will be the shortage of scientific personnel, particularly of science teachers, and methods for making up the deficiencies. Karl Lark-Horovitz, General Secretary of the Association and chairman of the Cooperative Committee, will preside. The panel of participants includes Philip Powers, R. W. Lefler, Morris Meister, Raleigh Schorling, Glen Blaydes, and L. V. Domm.

A full day's symposium on "Science in National Affairs" has been arranged for Monday, December 29. At the morning session, which will be devoted to "Atomic Energy Developments," W. Zinn will discuss "Developments of Atomic Energy at the Argonne National Laboratory"; L. J. Haworth will report on "The Brookhaven Laboratory and Plans for Fundamental Research in the Atomic Energy Commission"; Paul Aebersold will discuss "Radioactive Isotopes and Their Application to Peacetime Use of Atomic Energy"; and Philip Morrison will give an "Appraisal of Atomic Energy Progress."

The Monday afternoon session has been built around the President's Scientific Research Board Reports. E. U. Condon, National Bureau of Standards, will interpret the reports in relation to the "Federal Research Program in the Civilian Agencies." L. R. Hafstad will report similarly on the "Federal Research Program in the Armed Services." W. W. Lambert and D. W. Bronk will describe, respectively, "The Administration of Federal Research" and "The National Medical Research Program."

National Welfare and Science will be the theme of the evening session on "Science in National Affairs." J. Donald Kingsley, will speak on "Scientists and Federal Research," followed by W. W. Waymack, member of the

U. S. Atomic Energy Commission, whose subject will be "Scientists and the Atomic Energy Program."

On Tuesday morning, December 30, a symposium on "Insuring Adequate Scientific Personnel Resources" will be presented under the auspices of the National Security Resources Board, Executive Office of the President. The schedule of titles includes "Forecasts of Probable Supply and Demand," by Ewan Clague, Bureau of Labor Statistics; "Programs for Full Utilization of Present Resources," by A. H. Hausrath, Office of Naval Research; "Promising Innovations in University Programs to Meet Current Demands," by A. B. Bonds, Jr., President's Commission on Higher Education; and "Needed Adjustments in University Plans and Programs to Meet Long Range Needs," by Arthur Adams, Provost, Cornell University.

On Tuesday evening, December 30, the AAAS-Sigma Xi lecture will be presented by Glenn T. Seaborg in the Grand Ballroom of the Sherman Hotel. Dr. Seaborg will address the meeting on "The Eight New Synthetic Elements."

Programs of the AAAS Sections and the Societies

Section A (Mathematics) and the *Institute of Mathematical Statistics* will meet jointly in sessions for contributed papers on Monday and Tuesday, December 29 and 30. R. E. Langer, retiring vice-president of the Section, will present an address on "The Solution of Differential Equations in the Presence of Turning Points" at the Monday afternoon session.

Section B (Physics) will present two symposia jointly with the *American Physical Society* on Monday and Tuesday, December 29 and 30: "High Altitude Research by Rockets" and "The Physics of Polymers of Biological Interest." On Tuesday afternoon, L. A. DuBridge, retiring vice-president of the AAAS and chairman of Section B, will speak on "The Physics of Radar." In addition to contributed papers, the program of the American Physical Society includes invited papers of the Division of High-Polymer Physics. Among titles selected at random from the program of the APS are: "Beta Spectra of Cu(64) as a Test of the Fermi Theory," "Introduction of Two Neutrons Into Atomic Nuclei Under H(3) Bombardment," "Adsorption Analysis of High-Molecular Substances," "Radioactive Selenium 73 and 75," "The Effects of Pile Bombardment on Uncured Elastomers," "Mesotrons in the Stratosphere," "The Magnetic Susceptibility of Uranium Oxalate," "Dynamic Mechanical Properties of Rubber-like Materials," "Low-Temperature Transformations in Lithium and Some of Its Alloys," "Theoretical Analysis of the Effect of Imperfections in Diffraction-Gratings," and "Absorption of Microwaves by Hydrogen Atoms." The American Physical Society will also participate jointly with the American Association of Physics Teachers in the pres-

entation of a symposium on "Microwaves and Their Uses." All meetings of the physical science societies will be held at The University of Chicago.

The American Association of Physics Teachers and the *American Physical Society* will also meet jointly for a dinner session at the International House, The University of Chicago, 7:00 P.M., Tuesday, December 30. Paul E. Klopsteg will present the evening address, "Bows and Arrows." The general business session of the Society will be held in Kent Theater on Tuesday morning, December 30. At this session Marsh M. White will discuss "The Utilization of Physicists by the Army of World War II." In addition to a program of contributed papers to be presented on Monday afternoon and the joint session with the American Physical Society, the American Association of Physics Teachers will meet jointly with the AAAS Section on Physics at the Oriental Institute, Tuesday afternoon, December 30.

The American Meteorological Society plans to meet on Monday morning and afternoon and Tuesday morning, December 29 and 30. In addition to contributed papers, the Monday afternoon session will be a symposium on "Experimental Meteorology and Instrumentation." All meetings will be held in Room 122, Social Science Research Building, 59th Street near University Avenue, The University of Chicago.

Sigma Pi Sigma will hold its annual luncheon in conjunction with the meeting of the American Physical Society at 12:30 P.M., Tuesday, December 30, in the Quadrangle Club of The University of Chicago. Advance reservations may be made by writing to M. W. White, Executive Secretary of the Sigma Pi Sigma, Physics Department, Pennsylvania State College, State College, Pennsylvania. During the meetings tickets may be obtained at the registration desk in the Palmer House Hotel until 10:00 A.M., Tuesday morning.

Section C (Chemistry) will meet jointly with the American Chemical Society, Chicago Section, on Friday, December 26. Special symposia sponsored by the Section will be held on Friday afternoon, and Saturday and Sunday mornings and afternoons. These include "Industrial Processes," "Mechanisms of Hydrocarbon Reactions," and "Photosynthesis." The symposium on "Photosynthesis" is divided into three subheadings: "Mechanisms in Photosynthesis," "Isotopic Tracers in Photosynthesis," and "Quantum Efficiencies in Photosynthesis." Titles of the program of Section C selected at random include: "Attempts to Synthesize Large Conjugated Ring Systems," "Some Recent Developments in Antibiotics," "Free Radical Additions to Unsaturated Compounds," "The Mechanism of Isomerization of Saturated Hydrocarbons," "The Addition of Aromatic Compounds to the Carbon-Carbon Double Bond," "Chlorophyll Studies," "Chlorophyll Formation and Related Processes," "Theories of Photosynthesis," "Problems in Photosynthesis." The Section will hold a luncheon

each day of the meeting period and jointly with the American Chemical Society, Chicago Section, on Friday.

The American Chemical Society, Chicago Section, will hold its annual meeting jointly with the AAAS Section on Chemistry (C) on Friday, December 26. Sessions will be held on Agricultural and Food Chemistry, Chemical Education, Industrial and Engineering Chemistry, Organic Chemistry, Petroleum Chemistry, Radiochemistry, Biological and Pharmaceutical Chemistry, Physical Chemistry, and Inorganic and Analytical Chemistry. Titles from among these sessions include: "A New Method for Determining Storage Changes and Quality of Foods," "Science in Liberal Education," "Destructive Alkylation of Hydrocarbons," "Polymerization of Olefins in Cracked Gases," "A New Radioactive Series," "Progress in Histamine and Antihistamine Research," "A New Method for the Titration of Basic Groups of Amino Acids and Proteins," and "Statistical Analysis of Physical Constant Data of Hydrocarbons." All meetings will be held in the Sherman Hotel.

Section D (Astronomy) will meet on Friday and Saturday, December 26 and 27, at the Sherman Hotel. The Friday afternoon session includes such titles as "On the Origin of Meteorites" and "A Theory of the Origin of Cosmic Rays." On Saturday morning G. Van Biesbroeck will present an address as retiring vice-president of the AAAS and chairman of Section D, entitled "The Einstein Shift in the Sun's Gravitational Field." A symposium on "The Origin of the Earth" will be held on Saturday afternoon, F. R. Moulton, presiding. The titles include "Facts of Geology and the Origin of the Earth," "Structure of Earth's Interior and the Origin of the Earth," "Elements in Meteorites and the Earth's Origin," "Theories of the Origin of the Earth," and "A New Theory of the Origin of the Earth." This symposium will be held jointly with the AAAS Section on Geology and Geography.

Section E (Geology and Geography) will meet on Friday and Saturday, December 26 and 27. The Friday sessions will be devoted to a symposium on "Problems of Mississippian Stratigraphy and Correlation," and the Saturday sessions to "Methods of Ground-Water Investigation." A joint session will also be held on Saturday afternoon with the Section on Astronomy (see above). On Friday afternoon John L. Rich will present an address as retiring vice-president of the AAAS and chairman of Section E, on "Goals and Trends in Geological and Geographical Research." Among the papers to be presented at the sessions are "Status of Mississippian Stratigraphy in the Appalachian Region," "Problems of Mississippian Stratigraphy in Southwestern United States," "Paleontological Comparison of American and European Mississippian Sections," "Ground-Water Exploration by the Electrical Resistivity Method," and "The Use of Soil Maps in Ground-Water Investigations in Indiana."

Section F (Zoological Sciences) will hold no formal sessions of its own aside from a brief business meeting at 12:00 noon, Tuesday, December 30, in the French Room, Blackstone Hotel, and the retiring address of the vice-president of the AAAS and chairman of Section F, Franz Schrader. Dr. Schrader will speak on "Three Quarter-Centuries of Cytology," following the Zoologists' Dinner Tuesday evening.

The American Association of Economic Entomologists will meet Saturday through Tuesday, December 27-30, at the Congress Hotel. The opening joint session with the Entomological Society of America on Saturday afternoon will be on training teachers in entomology, methods of teaching entomology, and the professional placement of graduate students in entomology. Running concurrently with this session will be the AAEE Section of Insecticides, including the chemistry, bioassay, formulation, and manufacture of insecticides. On Saturday evening the Section of Extension will meet concurrently with a session on Insecticides and Equipment. On Sunday morning Ernest N. Cory, president of the AAEE, will address a joint session with the Entomological Society of America on "Totalitarian Insects." Immediately following the address, a meeting will be held on "Insects Affecting Livestock and Man." In the afternoon this meeting will be continued concurrently with meetings of the Section of Plant Pest Control and Quarantine, Section of Apiculture, and a session on "Insects Affecting Miscellaneous Crops." The Entomologists' Banquet will be held in the Casino Room of the Congress Hotel on Sunday evening, December 28. On Monday morning Stephen S. Easter, of the United Nations Food and Agriculture Organization, will present a general address which will be followed by a symposium on "The Toxicity of Insecticides to Plants, and Animals Other Than Man." Three concurrent sessions will be held Monday afternoon: "Administrative Problems of Airplane Application of Insecticides," "Insects Affecting Fruit Crops," and "Insects Affecting Cereal and Forage Crops." Alfred E. Emerson, of The University of Chicago, will address a joint session with the Entomological Society of America on Monday evening, December 29. The title of Dr. Emerson's address is "The Zoogeography of the Termite." The final sessions on Tuesday afternoon include a symposium on the "Effects of Insecticides on Biological Control" and contributed papers on "Insects Affecting Truck and Vegetable Crops."

The American Society of Parasitologists will hold its 22nd annual meeting on Monday and Tuesday, December 29 and 30, at the Congress Hotel. Monday's sessions will be devoted to contributed papers. The principal paper of the Tuesday morning session will be an address by Harley J. Van Cleave, president of the American Society of Parasitologists. Dr. Van Cleave will speak on "Expanding Horizons in the Recognition of a Phylum." The Parasitologists' Luncheon will be held at

12:30 P.M. in the Stevens Building Restaurant, 17 N. State Street. The annual business session will be held in the Francis I room of the Congress Hotel at 1:30 P.M., followed by a demonstration program commencing at 3:00 P.M. General papers on parasitology will form the bulk of the morning's program on Wednesday, the concluding session in the afternoon being a symposium on "Exoerythrocytic Forms of Malarial Parasites."

The American Society of Zoologists will meet Monday through Wednesday, December 29–31, at the Blackstone Hotel. Concurrent sessions on Monday morning include "Cytology and Cellular Physiology," "Embryology," "Endocrinology," "General Physiology," and a joint symposium with the American Society of Naturalists, *et al.*, on the "Genetics of Microorganisms." The Monday afternoon session will be held jointly with the Genetics Society of America for the presentation of a symposium on "Plasmagenes, Genes, and Characters in *Paramecium aurelia*." Four concurrent sessions have been planned for Tuesday morning: "Cytology," "Embryology," "Endocrinology," and "General and Cellular Physiology." The annual business meetings of Section F and the Society will be held at 12:00 noon in the French Room of the Blackstone Hotel. A general demonstration program will be held in Room 24, Hull Zoological Laboratory, The University of Chicago, on Tuesday afternoon, and motion pictures will be shown in Room 14. At 3:00 P.M. the motion-picture program will be repeated in Room 106 of the Hull Botanical Laboratory. The Zoologists' Dinner will be held in the Crystal Ballroom of the Blackstone Hotel at 7:00 P.M. on Tuesday, December 30. Franz Schrader, chairman of Section F, AAAS, will speak on "Three Quarter-Centuries of Cytology." On Wednesday morning there will be concurrent sessions on "Cellular Physiology and Protozoology," "Embryology and General Morphology," "Evolution and Ecology," and "General Physiology." The closing session on Wednesday afternoon will be a joint symposium with the Genetics Society of America on "Methods for the Genetic Improvement of Farm Animals."

The Entomological Society of America will hold its 42nd annual meeting from Saturday through Monday, December 27–29, at the Congress Hotel. In addition to the joint sessions enumerated under the American Association of Economic Entomologists, there will be an Executive Committee meeting on Saturday evening, sessions of contributed papers Sunday morning and afternoon, a session on "Taxonomy and Physiology" Monday afternoon, a joint session with the Ecological Society of America on Tuesday morning, and a Business Session on Tuesday afternoon. The annual Entomologists' Banquet will be in the Casino Room, Congress Hotel, Sunday evening, December 28.

The Herpetologists League will hold one joint session with the Ecological Society of America on Monday at 2:00 P.M. in the Casino Foyer of the Congress Hotel.

The Society of Systematic Zoologists has scheduled a preliminary meeting in Parlor D of the Congress Hotel on Monday morning, December 29, to consider the organization of a society of animal taxonomists. All individuals interested in the proposed society are cordially invited to attend. On Monday afternoon Dr. Francis Hemming, secretary of the International Commission on Zoological Nomenclature, will address a meeting to be held at 3:30 in the Upper Tower Room of the Stevens Hotel. Dr. Hemming's visit to this country is under the auspices of the Smithsonian Institution, Washington, D. C.

The American Microscopical Society will hold a luncheon for its Executive Committee at 1:00 P.M. on Monday, December 29, in the Pompeian Room of the Congress Hotel. On Wednesday at 4:00 P.M. the 64th annual meeting will be held in the Casino Foyer of the Congress Hotel.

The American Society of Naturalists will meet on Monday, December 29, and Wednesday, December 31, in the Congress Hotel. The program of the 63rd annual meeting includes a symposium on "The Genetics of Microorganisms," to be held on Monday morning in the Stevens Hotel, H. A. Rodenhiser presiding. The papers include "Mutations in Viruses," by W. M. Stanley and C. A. Knight; "Bacteriophage Mutations and Interactions Between Bacteriophage Particles Inside the Host Cell," by S. E. Luria; "Spontaneous and Induced Mutations in Bacteria," by M. Demerec; "Chromosome Behavior in *Neurospora* During Ascosporeogenesis," by B. McClintock and J. R. Singleton; "Genetics of the Smut and Rust Fungi," by E. C. Stakman; and "Inheritance of Pathogenicity in *Venturia inaequalis*," by G. W. Keitt. Participating in this session are the American Phytopathological Society, American Society of Zoologists, Botanical Society of America, Ecological Society of America, National Research Council Committee on the Genetics of Microorganisms, and Society for the Study of Evolution.

The Biologists' Smoker, sponsored by the American Society of Naturalists, will be held in the Chicago Natural History Museum, Monday, December 29, at 9:00 P.M. All biologists are cordially invited to attend. Refreshments will be available. Since city bus service to the Museum is suspended at 6:30 o'clock daily, special bus transportation will be provided for the smoker. At 10-minute intervals between the hours of 9:00 P.M. and 12:00 P.M. buses will leave for the Chicago Natural History Museum (Field Museum) from in front of the Stevens Hotel, and also for return from the Museum to the Stevens Hotel. Bus tickets may be purchased at the ticket booth located in the registration area of the Stevens Hotel. On Wednesday morning the Naturalists will meet jointly with the Ecological Society of America and the Society for the Study of Evolution, for a round-table discussion on "Bird and Mammal Population Mechanisms." The Florentine Ballroom, Congress Hotel,

will be the site of the Naturalists' Dinner on Wednesday at 6:00 P.M.

Beta Beta Beta Biological Fraternity will hold a luncheon session in the North Pompeian Room, Congress Hotel, at 1:00 P. M. on Monday, December 29.

The Biometric Society (Eastern North American Region) will meet jointly with the Biometrics Section of the American Statistical Association on Friday and Saturday, December 26 and 27, at the Stevens Hotel.

The Biometrics Section of the American Statistical Association will present a joint symposium with the Biometric Society on "Mathematical Biology." Representative papers include "Recent Advances in Mathematical Biophysics," "Mathematics in Radiobiology," "Mathematical Theory of Perception," "The Kinetics of Blood Coagulation," and "The Physical Aspect of Organic Evolution."

The Ecological Society of America will hold its 32nd annual meeting from Monday to Wednesday, December 29-31, at the Congress Hotel. Three concurrent sessions on Monday morning will include "Plant Ecology," "Animal Ecology," and a joint symposium with the American Society of Naturalists, *et al.*, on "The Genetics of Microorganisms." The Monday afternoon program includes joint sessions with the Herpetologists League, the Botanical Society of America, and the Committee for the Study of Animal Societies. Tuesday morning's concurrent sessions include "Plant Ecology" and a joint meeting with the Entomological Society of America; the afternoon sessions include a joint meeting with the Society for the Study of Evolution, "Applied Ecology," and the annual business meeting of the Society at 4:00 P.M. in the English-Walnut Room of the Congress Hotel. The dinner of the Ecological Society of America will be held in the Florentine Ballroom of the Congress Hotel on Tuesday at 7:30 P.M. The Wednesday morning sessions include joint sessions with the American Society of Naturalists and Society for the Study of Evolution ("Bird and Mammal Population Mechanisms"), the Limnological Society of America (symposium on "Bottom Sediments"), and the Natural Resources Council of America (symposium on "Conservation and a Stable Society"). The final concurrent sessions on Wednesday afternoon include "Animal Ecology," symposium on "The Biota of Mexico and Guatemala," the business meeting of the Grassland Research Foundation, and the business meeting of the Ecologists' Union.

The Genetics Society of America will meet Monday through Wednesday, December 29-31, at the Stevens Hotel. The opening session on Monday morning will be a joint symposium with the American Society of Naturalists, *et al.*, on the "Genetics of Microorganisms." A joint symposium with the American Society of Zoologists will be held in the afternoon on "The Plasmagenes, Genes, and Characters in *Paramecium aurelia*." On Tuesday the Society will meet on the campus of The University of

Chicago for sessions of short papers in Mandel Hall, morning and afternoon, and a demonstration program in Room 13 of the Zoology Building. Concurrently with the morning sessions at the University, the Genetics Society is sponsoring a joint symposium on "Natural Hybridization" with the Society for the Study of Evolution, in the Congress Hotel. The annual luncheon and business meeting will be held in Hutchinson Commons, The University of Chicago, at 12:00 noon, Tuesday. Sessions on the last day of the three-day meeting period will be held in the Stevens Hotel. The morning session will consist of short papers and the afternoon session will be a symposium on "Methods for the Genetic Improvement of Farm Animals," held jointly with the American Society of Zoologists.

The Limnological Society of America will meet Monday through Wednesday, December 29-31. Monday's sessions of contributed papers will be held at the Chicago Natural History Museum. On Tuesday the Society will meet jointly with the AAAS Section on Engineering for the presentation of a symposium on "Limnological Aspects of Water Supply and Waste Disposal," at the Stevens Hotel. The sessions on Wednesday will be held in the West Ballroom of the Stevens Hotel, the morning program being a symposium on "Bottom Sediments," held jointly with the Ecological Society of America, and the afternoon being devoted to general papers.

The National Association of Biology Teachers will meet Sunday through Tuesday, December 28-30, at the Sherman Hotel. From 9:00 A.M. to 3:00 P.M., Sunday, the Association will participate with the American Nature Study Society in a joint field trip to Dune State Park. The two societies will reconvene Monday afternoon in the Sherman Hotel for a panel discussion on "What Is Resource-Use Education and How Does It Fit Into Our School Program?" On Tuesday a joint symposium on "Teaching Behavior in High School Biology" with the American Nature Study Society will be held in the morning and afternoon, followed by the Biology Teachers' Dinner in the evening. Dr. A. L. Windsor will address the dinner session on "The Selection and Maintenance of Science Teachers."

The National Research Council Committee on the Genetics of Microorganisms is sponsoring with the American Society of Naturalists, *et al.*, a symposium on "The Genetics of Microorganisms," Monday morning, December 29, in the Stevens Hotel. Members of the Committee include H. A. Rodenhiser, chairman, M. Demerec, H. H. McKinney, A. J. Riker, E. C. Stakman, and W. H. Taliaferro.

The Society for the Study of Evolution will meet Monday through Wednesday, December 29-31, at the Congress Hotel. In addition to papers on zoology Monday afternoon and on botany Wednesday afternoon, the Society will jointly sponsor 5 symposia: "Genetics of Microorganisms," Monday morning; "Natural Hybridization"

and "Evolution and Classification of Angiosperms," Tuesday morning; "Evolution and Classification of Gymnosperms," Tuesday afternoon; and "Bird and Mammal Population Mechanisms," Wednesday morning. J. T. Patterson, L. R. Dice, H. N. Andrews, Thomas Park, Aldo Leopold, and Howard K. Gloyd will serve as presiding officers.

The American Society of Professional Biologists will meet on Sunday afternoon in Private Dining Room 4, Stevens Hotel, to discuss objectives and future plans of the Society. All biologists are cordially invited to attend.

Section G (Botanical Sciences) will hold a joint session with all plant science societies on Saturday afternoon, December 27, in the North Ballroom, Stevens Hotel. Walter F. Loehwing, as chairman of the Section on Botany, will present the AAAS vice-presidential address, entitled "The Developmental Physiology of Seed Plants." Also scheduled on the afternoon program are: "Correlations Between Growth, Metabolism, and Salt Accumulation," by F. C. Steward; "Nutrient Requirements of Fungi," by W. J. Robbins; and "Correlation at the Community Level," by Paul B. Sears.

The American Fern Society, in addition to participating in the joint session with Section G, will hold a single session on Saturday morning, December 27, in Room 20, Stevens Hotel. R. M. Tryon, Jr., will present a paper on "Ferns of the Sleeping Giant, Thunder Bay, Ontario," followed by a round-table discussion on "Recent Discoveries; Range Extensions," with a display of fern specimens.

The American Phytopathological Society will meet Saturday through Tuesday, December 27-30, at the Stevens Hotel. Business meetings will be held on Saturday. The general sessions will commence Sunday afternoon with concurrent programs on "Diseases of Corn and Small Grains," and "Diseases of Fruits and Ornamentals." The Monday morning meetings include a "Fungicide Colloquium" and contributed papers on "Diseases of Field Crops" and "Virus Diseases." The phytopathologists are also cosponsoring a meeting with the American Society of Naturalists, *et al.*, on Monday morning on the "Genetics of Microorganisms." The afternoon sessions are on "Breeding and Disease Resistance," "Market Diseases of Fruits and Vegetables," "Extension Workers Conference," and "Plant Disease Survey Conference." The Chicago Bar Association will be the site of the Phytopathologists' Dinner, Monday evening. Two concurrent sessions will be held on Tuesday morning, "Antibiotics and Bacterial Diseases" and a joint meeting with the Potato Association of America. "Virus Diseases of Vegetables" and "Vegetable Diseases" will constitute the afternoon programs. The concluding sessions on Tuesday evening will include miscellaneous papers and a round-table discussion of National Security.

The American Society of Plant Physiologists will meet Saturday through Tuesday, December 27-30, at the

Stevens Hotel. All sessions will be joint with the Physiological Section of the Botanical Society of America. Representative papers include "Uraform, Phosphate Rock, and Expanded Vermiculite as Nutrient Sources in Soilless Culture Experiments," "Preliminary Studies on the Mechanism of 2,4-Dichlorophenoxyacetic Acid in Higher Plants," "The Healing Action of Extracts of *Aloe vera* Leaf on Abrasions of the Human Skin," "Spectral Properties of Protochlorophyll Isolated by Absorption," "Phytotoxic Reactions of Blood Sera as an Aid to Medical Diagnosis and Therapy," "Photoperiodic Responses in Corn," and "Some Common Alcohols as Carbon Sources for Plant Tissue Cultures." Special symposia include a Sunday afternoon session on "Radioactive Isotopes in Plant Physiological Research," and a Monday afternoon session on "Dormancy." The Plant Physiologists' Dinner will be held on Saturday evening in the Casino Room of the Congress Hotel. Following the Charles Reid Barnes Life Membership Award, Burton E. Livingston will present the Stephen Hales Lecture, and B. M. Duggar will speak on "Physiology and Prevailing Influences."

The American Society of Plant Taxonomists will meet jointly with the Systematic Section of the Botanical Society of America from Saturday through Tuesday, December 27-30. The Plant Taxonomists' Dinner will be held in the South Ballroom of the Stevens Hotel on Monday evening, December 29.

The Botanical Society of America will hold its 42nd annual meeting Saturday through Tuesday, December 27-30, at the Stevens Hotel. In addition to a business meeting and meeting of the General Section on Saturday morning, three sessions will be held by other sections. The Microbiological Section will hold a symposium on "Nutrition and Metabolism of Microorganisms," the Physiological Section will meet jointly with the American Society of Plant Physiologists, and the Systematic Section with the American Society of Plant Taxonomists. On Saturday afternoon all the plant science societies will meet with the AAAS Section on Botany, W. G. Loehwing presiding. The Botanical Teaching Section will meet Sunday morning and afternoon, the latter session being a symposium on "General Botany Texts." Tickets to the Botanists' Dinner, to be held Sunday evening on the 8th floor of the Stevens Building Restaurant, 17 North State Street, may be purchased at the Ticket Booth in the AAAS Registration Area, Stevens Hotel. On Monday morning concurrent sessions will be held by the General Section, Microbiology Section (jointly with other biological societies for a symposium on the "Genetics of Microorganisms"), Physiological Section, Paleobotanical Section, and Systematic Section (jointly with the American Society of Plant Taxonomists for a symposium on "Biological Nomenclature"). With the exception of the Paleobotanists, these same sections will meet in the afternoon: Microbiological Section jointly with the

Mycological Society of America; Physiological Section jointly with the American Society of Plant Physiologists and the American Society for Horticultural Science (symposium on "Dormancy"); Systematic Section jointly with the American Society of Plant Taxonomists. The Microbiological, Physiological, and General Sections will reconvene Tuesday morning and afternoon. The Paleobotanical Section will meet jointly in the morning and afternoon with the Society for the Study of Evolution for the presentation of symposia on "The Evolution and Classification of Angiosperms and Gymnosperms." The final meeting of the Systematic Section will be held Tuesday morning.

The Mycological Society of America will meet Saturday through Tuesday, December 27-30, at the Stevens Hotel. With the exception of sessions of contributed papers on Saturday morning and Tuesday morning, all meetings of the mycologists will be joint with the Microbiological Section of the Botanical Society of America.

The Phycological Society of the Americas, in addition to a business meeting on Sunday morning, will hold a meeting of general papers in the Stevens Hotel on Wednesday morning, December 31. Among the papers are: "Marine Algae of the Marshall Islands," "The Case Against a Separate Division or Phylum for the Characeae," and "A Review of Phycological Investigations in Southeastern United States."

The Sullivant Moss Society plans a breakfast in the Standard Restaurant, Standard Oil Building, 910 S. Michigan Avenue, Monday morning, December 29. At 9:00 A.M. the group will convene in the Stevens Hotel for a business session followed by a program of short papers. The afternoon session will be devoted to a symposium on "Generic Concepts of the Bryophyta."

Section H (Anthropology) will meet on Friday and Saturday, December 26-27, at the Sherman Hotel. Papers on General Anthropology will be presented Friday afternoon. In the evening Wilson D. Wallis will present a dinner address as vice-president of the AAAS and chairman of the Section on Anthropology. His address, "Presuppositions in Anthropological Interpretations," will be followed by a motion picture. On Saturday the morning session will be on "Linguistics and Culture" and the afternoon program a joint session with the Society for Research in Child Development on "The Socialization of the Child." Representative papers include "Some California Traits and Their Eastern Parallels," "Are Basic Needs Ultimate?," "Linguistic Descriptions as Axiomatic Systems," and "Sociological Aspects of Some Features of English Pronunciation."

Section I (Psychology) will join with the Sections on Zoological Sciences, Social and Economic Sciences, History and Philosophy of Science, and the American Philosophical Association in the presentation of a symposium on "Problems of Concept Formation in Psychology," Saturday afternoon, December 27. The

Monday morning session will be on "Physiological Psychology," and the afternoon session on "Learning." "Personnel and Educational Psychology" will be the subject of the Tuesday morning session. Selected papers include "On the Control of Blood Pressure in Man," "The Effects of Different Types of Preliminary Activities on Subsequent Learning of Paired-Associate Material," "Criteria of Learning in Educational Research" (address of AAAS vice-president and chairman of the Section on Education, W. A. Brownell), "The Work of Our Hands" (address of AAAS vice-president and chairman of the Section on Psychology, Edna Heidebreder), "The New Army Rating System—Its Development and Validation," and "American Intelligence."

The Society for Research in Child Development will meet on Saturday, December 27, at the Palmer House. The morning session is on "Projective Techniques in the Study of Children" and "Biological Factors in Personality Formation." "Socialization of the Child" will be discussed in the afternoon. Titles selected at random include "Children's Personality and Their Painting," "Doll Play," "Biology and Personality in Young Children," "Socialization and the Parent-Child Relationships," and "The Fate of Basic Drives in Various Cultures."

Section K (Social and Economic Sciences) will meet Saturday through Wednesday, December 27-31, at the Sherman Hotel. The opening session on Saturday morning will be a symposium on "War and Postwar Population and Labor Force Developments." In the afternoon there will be a joint symposium with the Section on the History and Philosophy of Science on "Are Human Social Problems in a Different Category from the Integrations of Biology?" Section K will join with the American Economic Association for a dinner session on Sunday evening. A joint symposium with the National Association of Science Writers on "The Problem of Making Scientific Findings Comprehensible to the Public" will be held on Monday afternoon. On Tuesday afternoon "Production Functions and the Theory of the Firm" will be discussed jointly with the Econometric Society in Room 507, Wieboldt Hall, on the Chicago Campus of Northwestern University. The closing session on Wednesday morning will be a symposium on "Some Determinants of National Productivity," held jointly with the American Economic Association, Academy of World Economics, and the AAAS Section on Engineering. Among the papers are "Labor Force Developments," "The Responsibility of the Science Writer," "Factors Affecting International Differences in Production," and "Relation of Energy Output to Production in the United States."

The Academy of World Economics will participate in a joint symposium with other social science societies on "Some Determinants of National Productivity," Wednesday morning, December 31.

The Econometric Society will meet Saturday, Monday, and Tuesday, December 27, 29, and 30. In addition to contributed papers, the Society has organized several symposia: "Relationships Derived From Aggregate Data," Saturday afternoon; "Savings Investment and Wage Rates," Monday afternoon; "Inventories in the Business Cycle," Tuesday morning; and "Production Functions and the Theory of the Firm," Tuesday afternoon.

Pi Gamma Mu, National Social Science Honor Society will hold a luncheon in honor of the officers and speakers appearing on the program of the AAAS Section on Social and Economic Sciences, Saturday noon, in Rooms 109 and 110, Sherman Hotel.

Section L (History and Philosophy of Science) will meet Saturday and Sunday, December 27 and 28, at the Sherman Hotel. Each session will be a symposium held jointly with the American Philosophical Association. On Saturday the morning session will be on "Foundations of Modern Physics," followed in the afternoon by a session on "Problems of Concept Formation in Psychology," held jointly with the AAAS Sections on Zoological Sciences, Psychology, and Social and Economic Sciences. The concluding session on Sunday afternoon, to be held jointly with the AAAS Section on Social and Economic Sciences, will be on "Are Human Social Problems in a Different Category From Integrations of Biology?" Representative papers include "The Formation of Concept in Personality and Dynamic Psychology," "The Problem of Anxiety: Some Conceptual Difficulties," "The Place of Logic in the Advance of Science," "Cosmology and Logic," "Principles of Impotence in Modern Physics," "Biological Principles in Sociology," "Human Social Problems as a Type of Disintegration in a Biological Integration," and "The Relation Between Biological Cultural Factors in Social Problems" (Section L vice-presidential address by F. S. C. Northrop).

The American Philosophical Association will hold all of its sessions jointly with the AAAS Section on the History and Philosophy of Science.

The Philosophy of Science Association will meet on Saturday and Sunday, December 27 and 28, at the Palmer House, for the presentation of a symposium on "What Does the Natural Scientist Need From the Social Scientist?"

Section M (Engineering) will meet Tuesday and Wednesday, December 30-31, at the Stevens Hotel. The sessions on Tuesday will be devoted to a symposium on "Limnological Aspects of Water Supply and Waste Disposal," held jointly with the Limnological Society of America. On Wednesday morning there will be a joint symposium on "Some Determinants of National Productivity" with the American Economic Association, Academy of World Economics, and the Section on Social and Economic Sciences. Representative papers include

"Some Epidemiological and Biological Problems in Water-Borne Amoebiasis," "Biotic Responses to Stream Pollution During Artificial Stream Reaeration," "Plankton as Related to Nuisance Conditions in Surface Water," "Prevention of Algal Nuisance by the Removal of Nitrogen and Phosphorous From Sewage Plant Effluents," and "The Algologist's Part in the Solution of City and Industrial Water Supply Problems."

Section N, Medical Sciences (Subsection on Medicine) will meet Monday through Tuesday afternoon, December 29-30, at the Sherman Hotel, for the presentation of a symposium on Antibiotics. The subdivisions of the symposium are "Production, Chemistry, and Lesser Known Substances," Monday morning; "Pharmacology and Action of Antibiotics," Monday afternoon; "Development of Resistance to Antibiotics," Tuesday morning; and "Clinical Applications," Tuesday afternoon. On Tuesday afternoon E. V. Cowdry, as vice-president of the AAAS and chairman of the Section on Medical Sciences, will deliver an address entitled "Symbiosis and Antibiosis."

Section N, Medical Sciences (Subsection on Dentistry) will hold a symposium on "Dental Caries" on Sunday, December 28, at the Sherman Hotel. The morning program will be on "Bacteriological and Biochemical Aspects," the afternoon program on "Nutrition and Substrata," and, following the Dentists' Dinner, papers will be presented on "Prevention and Control, Public Health Aspects." Representative papers will include "Is Caries of Enamel a Process of Decalcification Resulting From Bacterial Action?," "Nutritionist's View of the Caries Problem," "What Is the Relative Importance of the Polysaccharides, Disaccharides, and Monosaccharides in Caries Production?," and "Roles of Dental Clinics in Caries Control."

Section N, Medical Sciences (Subsection on Pharmacy) will hold an all-day session of general papers on Saturday, December 27, at the Sherman Hotel. Representative papers include "Methods for the Evaluation of Compounds With Curare-like Action," "Antagonism of Histamine and Epinephrine With Synthetic Chemicals," and "Industrial Pharmacy: Opportunities and Training."

The American Dietetic Association will meet on Monday and Tuesday, December 29-30, at the Palmer House. General papers include "The Nitrogen Metabolism of Women," "Food and Its Emotional Significance," and "Problems of Feeding the School Age Child."

Section O (Agriculture) will hold a joint symposium on "Breeding and Improvement of Horticultural Crops" with the American Society for Horticultural Science on Tuesday afternoon, December 30. W. A. Alderman, vice-president of the AAAS and chairman of the Section on Agriculture, will speak on "Fruit Breeding: Past, Present, and Future." Other papers include "Genetics as a Tool of the Plant Breeder" and "Breeding of Ornamental Plants."

The American Society for Horticultural Science will hold its 44th annual meeting Monday through Wednesday, December 29–31. Concurrent sessions on Monday include “Pomology—Nutrition,” “Pomology—Breeding and Propagation,” “Vegetables—Tomatoes,” and “Floriculture and Ornamental Horticulture—Herbicides, Growth Regulators, and Nutrition.” A joint symposium on Dormancy will be held on Monday afternoon with the American Society of Plant Physiologists and the Physiological Section of the Botanical Society of America. Monday evening round-table sessions include “Breeding Methods for Horticultural Crops,” “Mineral and Nitrogen Deficiency Diagnosis,” “Discussion on Education,” and “Discussion on Extension in Horticulture.” Four concurrent sessions have been planned for Tuesday morning: “Pomology—Growth Regulators and Chemical Flower Thinners,” “Pomology—Small Fruits and Grapes,” “Vegetables—Herbicides and Growth Regulators,” and “Floriculture and Ornamental Horticulture—General.” The Tuesday afternoon sessions include a joint symposium with the AAAS Section on Agriculture on the “Breeding and Improvement of Horticulture Crops.” Running concurrently will be sessions on “Fruit Physiology and Storage” and “Vegetables—General.” At the annual banquet, on Tuesday evening in the Red Lacquer Room of the Palmer House, H. B. Tukey will present the presidential address of the Society on “Horticulture in Science and Society.” The concluding sessions on Wednesday morning will cover “Pomology—General,” “Vegetables—Breeding and Nutrition,” “Vegetables—Potatoes and Sweet Potatoes,” and “Floriculture and Ornamental Horticulture.” A business meeting of the Society will be held on Wednesday afternoon for reports of committees and election of officers.

The Potato Association of America will hold its 21st annual meeting Sunday through Wednesday, December 28–31, at the Palmer House. The opening session on Sunday afternoon will be a round-table discussion on “Seed Certification.” On Monday a session on general papers has been planned for the morning and a “Smoker and General Round-Table Discussion” scheduled for the evening in Private Dining Room 18 of the Palmer House. On Tuesday morning the society will meet jointly with the American Phytopathological Society at the Stevens Hotel, followed by an afternoon session of general papers in the Palmer House. The concluding session on Wednesday morning will be joint with the American Society for Horticultural Science. Representative papers include “Progress of Virus and Bacterial Disease Investigations,” “Insect Investigations in 1947,” “Chemical Control of Weeds in Potatoes,” and “Effects of Spraying a Sprout Inhibitor on Potato Plants in the Field.”

Section Q (Education) will meet Monday and Tuesday, December 29–30, at the Sherman Hotel. A symposium on Science and Social Philosophy will be held on Monday morning, and in the evening the chairmen of the AAAS

Sections on Psychology and Education will present addresses before a joint session with the Section on Psychology. W. A. Brownell will speak on “Criteria of Learning in Educational Research,” and Edna Heidebreder’s address will be on “The Work of Our Hands.” On Tuesday morning Guy T. Buswell will preside at a symposium on “Group and Individual Research,” followed by an afternoon session of general papers. The business meeting of the Section will be held immediately following the last paper of this session. Representative papers on the program of the Section on Education include “The Scientific Point of View in Education,” “The Social Responsibilities of Modern Science,” “Education and the Scientific Outlook in Philosophy,” “The Role of Individual Research in a World of Large-Scale Organization,” and “International Comparisons in Child Development in Spelling.”

AAAS Cooperative Committee on Science Teaching will meet Saturday through Tuesday, December 27–30, at the Sherman Hotel. The opening session will be a business meeting on Saturday evening. Sunday evening the Committee will hold a dinner session followed by a forum on “The Effectiveness of Science Teaching.” The remaining sessions on Monday and Tuesday will be held jointly with the National Science Teachers Association. For additional information, consult the AAAS Special Sessions listed in the forepart of this Preview.

The National Science Teachers Association will meet Friday through Tuesday, December 26–30, at the Sherman Hotel. The Junior Scientists’ Assembly, a program of papers, talks, and discussions by members and recent members of Junior Academies of Science, Science Clubs of America, and School Science Clubs, will be held on Saturday afternoon. On Sunday afternoon there will be a session on “The Relations of Science Teaching With Industry.” Three concurrent sessions, joint with the AAAS Cooperative Committee on Science Teaching, have been scheduled for Monday morning. The program of the annual luncheon of the National Science Teachers Association, to be held on Monday at noon, will include a tribute to the life and work of Otis W. Caldwell. Tickets to the luncheon may be obtained at the registration desk in the Sherman Hotel. Meetings of the Board of Directors will be held on Monday and Tuesday evenings. Rooms 103 and 104 will serve as the convention headquarters for the National Science Teachers Association throughout the meeting period.

Pi Lambda Theta has arranged a Tour of Modern Art and a Tea, for all scientists, at the Art Institute of Chicago on Sunday afternoon, December 28. The Tour of the Birch Bartlett Gallery of Modern Art will commence at 2:30 P.M. Tea will be served from 3:30 to 5:00 P.M. A nominal admission fee of \$1.00 will be charged. Tickets may be obtained at the ticket booth in the registration area in the Stevens Hotel.

The American Nature Study Society will meet Friday

through Tuesday, December 27–30, at the Sherman Hotel. In addition to sessions of general papers, the Society will hold a panel discussion on “What Is Resource-Use Education and How Does It Fit Into Our School Program?” on Monday afternoon, and a symposium on “Teaching Behavior in High School Biology” on Tuesday morning and afternoon, jointly with the National Association of Biology Teachers. On Sunday morning a joint Field Trip has been planned with the NABT to Dune State Park, with E. W. Teale and E. L. Palmer as leaders. The annual banquet will be held on Saturday evening in the Crystal Room of the Sherman Hotel. E. W. Teale will speak on “Adventures in an Insect Garden.”

The National Association of Science Writers, in addition to a business meeting held immediately following the AAAS-George Westinghouse Science Writing Awards Ceremony on Saturday evening, will hold a joint symposium on Monday afternoon entitled “The Problem of Making Scientific Findings Comprehensible to the Public,” with the AAAS Section on Social and Economic Sciences.

Honor Society of Phi Kappa Phi will hold a business session on Monday afternoon, December 29, and a breakfast session on Tuesday morning. There will be a second business session immediately following the breakfast.

The Research Council on Problems of Alcohol will meet for a morning and afternoon session on Monday, December 29, at the Sherman Hotel. Representative papers include “Unexplored Frontiers in Scientific Research on the Problem Drinker,” “The Medical Approach to Problem Drinking,” “Fundamental Research Plan to Problem Drinking,” and “Medicolegal Problems and the Problem Drinker.”

Sigma Delta Epsilon Graduate Women's Scientific Fraternity will meet Saturday through Monday, December 27–29, at the Sherman Hotel. The National Council Meeting will be held on Saturday morning; a luncheon for all Women in Science, at which Marjorie Carlson will speak on “Plant Collecting in Salvador,” will be held on Saturday afternoon; and the National Convention Breakfast will be held on Monday morning.

Society of the Sigma Xi will meet on Monday and Tuesday, December 29–30. A meeting of the Executive Committee will be held at 9:00 A.M. on Monday in the secretary's suite, Sherman Hotel. The Annual Convention of the Sigma Xi will be held in the Crystal Room of the Sherman Hotel on Monday evening, December 29, and the Annual AAAS-Sigma Xi Lecture will be delivered in the Grand Ballroom of the Sherman Hotel on Tuesday evening, December 30. Glenn T. Seaborg will speak on “The Eight New Synthetic Elements.”

About the Press Room—

As stated on page 556 of this issue, press headquarters for the Chicago meeting will be in Parlors L, M, and O of the Sherman Hotel, with Sidney S. Negus, professor of chemistry, Medical College of Virginia, and president-elect of the Virginia Academy of Science, in charge. Dr. Negus is also a member of the National Association of Science Writers.

The preparation of facilities in the press room for the use of news reporters is under the direction of Miss Jeannette Lowrey, Office of Public Relations, University of Chicago, and chairman of the local AAAS Publicity Committee. During the meeting Dr. Negus and members of the press room staff will distribute news releases, arrange press interviews, and otherwise manage the press relations of the Association.

Speakers, who have been unable to file abstracts or manuscripts of their papers with the Press Director in advance of the meeting are requested to turn them in at the press room in Chicago at least 12 hours in advance of their presentation.

It is a general rule among science writers that, in order for a paper to qualify as news, there must be some point of contact between the subject and the public. Science writers sometimes uncover newsworthy material in the most prosaically written reports. It is much more likely that an abstract will attract the science writer and appear in print if the opening paragraph draws attention to the social aspects of the investigation or emphasizes the possible utilitarian value of the results to the public. Wholehearted cooperation is required of both scientists and science writers if the Association is to realize one of its principal goals—“to increase public understanding and appreciation of the importance and promise of the methods of science in human welfare.”