

# Program

## One Hundred Thirteenth Meeting

### American Association for the Advancement of Science

Boston, 26-31 December 1946

#### General Sessions

At the opening session of the Association, to be held on Thursday evening, 26 December, commencing at 8:15 in Boston Symphony Hall, Charles F. Kettering, director of the Research Laboratories, General Motors Corporation, will present the retiring presidential address on "A Look at the Future of Science." Immediately following this address a general reception will be given by officers of the Association on behalf of the local committees for members and registered guests. It is expected that many distinguished scientists will be present at this session, including the presidents and prominent faculty members of universities and colleges in the Boston area, as well as visiting scientists from leading institutions and organizations throughout the United States who will be in Boston to participate in the programs of the more than 55 sections and societies meeting with the Association.

On Friday morning and afternoon, 27 December, the Association is sponsoring a General Technical Session dealing with special research programs and projects under the direction of the Army and Navy. The morning session will be devoted largely to the discussion of Navy research activities, including work on nuclear physics and a summary of the "Operation Crossroads." Vice-Admirals Harold G. Bowen and W. H. P. Blandy are to be among the principal speakers. At the same session Lt. Col. Carl Reichert, Wright Field, will speak on "General Trends in the Design of Military Aircraft," followed by a discussion of "Human Requirements for the Design of Supersonic Aircraft," by Lt. Col. A. P. Gagge, Wright Field. In the afternoon Maj. Gen. Curtis E. LeMay and Brig. Gen. Malcolm C. Groves, U. S. Army Air Forces, will discuss, respectively, the "Air Force Research and Development Program" and "Future Research in Aviation Medicine." Marshall H. Stone, of the University of Chicago, will follow with an address on "Science and Statecraft." Among the papers also to be presented during this session will be "Theoretical Analysis of Ducted Fan Turbo-Jet Engines," "Suppression of Radiations at High Temperatures by Means of Ceramic Coatings," and "Human Engineering."

On Saturday morning and afternoon, 28 December, the Committee on the Scientific Policy of the AAAS will sponsor a round-table discussion on "Science and the Public." Participants include: Howard W. Blakeslee, Associated Press; Lyman Bryson, Coun-

selor on Public Affairs, Columbia Broadcasting System; Ralph W. Gerard, professor of physiology, University of Chicago; R. Likert, director, Survey Research Center, University of Michigan; Marion C. Manly, president, New Jersey Library Association; Albert E. Parr, director, American Museum of Natural History; Theodore Smith, Motion Picture Association of America; and Gerald Wendt, editorial director, *Science Illustrated*.

In the afternoon also, the National Geographic Society will present Matthew W. Stirling, chief of the Bureau of American Ethnology, and Mrs. Stirling, in an illustrated lecture on "Archeological Studies of Pre-Columbian Culture in Southern Mexico." Colored movies will illustrate the lecture, to be given in Boston Symphony Hall.

On Saturday evening the United Chapters of Phi Beta Kappa will present a 10th annual lecture in the Oval Room of the Bradford Hotel. Theodore Spencer, professor of English, Harvard University, will speak on "Science and the Poet."

On Monday evening, 30 December, C. B. Fawcett, of London, England, will present an address on "The Numbers and Distribution of Mankind." This lecture, the third British and American Association exchange lecture, will be presented at 8:15 in Sanders Theater, Harvard University.

#### Special Sessions

##### AAAS-George Westinghouse Science Writing Award

At a luncheon on Friday, 27 December, the George Westinghouse Science Writing Award of \$1,000 will be presented, with a citation, to a science writer for distinguished science reporting. The winning entry has been selected by a judging panel of six persons chosen to represent newspapermen, scientists, and the general public. Announcement of the winner will be made at the luncheon, which is open to admission by card only. Those wanting cards must communicate with W. L. Valentine, 1515 Massachusetts Avenue, Washington, D. C.

##### State Academy Delegates

The annual meeting of the Academy Conference, to be attended by delegates from the affiliated state academies, will be held at 4:00 P.M., on 27 December, in the Statler Hotel. At 6:00 P.M. the delegates are invited to attend a dinner given by the AAAS.

### Annual Sigma Xi Address

On Sunday evening, 29 December, Harlow Shapley, director of the Harvard Observatory, will address a joint meeting of the Society of the Sigma Xi and the American Astronomical Society. Dr. Shapley's address, on "Goals of International Science," will be presented at 8:15 in Sanders Theater, Harvard University, Cambridge.

### American Institute of Biological Sciences

On Sunday also, biologists will assemble at 2:00 P.M. in the Georgian Room of the Statler Hotel for an open discussion of the projected American Institute of Biological Sciences, Robert Chambers presiding.

### American Association of Scientific Workers

On Monday, 30 December, the American Association of Scientific Workers will present a symposium on "A National Science Foundation." This session will open at 2:00 P.M. in the Ballroom of the Copley-Plaza Hotel. The essential aspects of the National Science Foundation, with particular reference to the nature, extent, direction, and utility of pure and applied science in this country, will be discussed. Reference will be made to the Nuclear Physics Institute and relations between the Army and Navy and educational and research institutions.

### Entertainment

In addition to the general reception given on Friday evening, 27 December, a symphony concert will be presented at 4:30 P.M. on Sunday, 29 December, in the Opera House, Arthur Fiedler conducting. In the evening, starting at 8:30, the Harvard Glee Club will give a concert in the Fogg Art Museum at Harvard University. Complimentary tickets for both functions will be furnished on request to registering members and guests.

Women scientists and wives of the members of the Association and their guests are invited to inspect the Isabella Stuart Gardner Museum, located at 280 Fenway, on Saturday, 28 December, between 2:00 and 4:00 P.M. Tea will be served at Simmons College, next door to the Gardner Museum, between 4:00 and 6:00 P.M.

### Hotel Headquarters

*General Headquarters:* The Statler Hotel will serve as the general headquarters of the Association, housing the Press Room (Parlor F) and the business meetings of the Association.

Headquarters of the sections and committees of the Association and of the societies meeting with the Association in Boston are as follows:

*Statler Hotel:* Section on Medical Sciences (N), Subsections on Dentistry (Nd) and Pharmacy (Np); Academy Conference, American Dietetic Association, American Microscopical Society, American Society of Naturalists, American Society of Parasitologists, American Society of Zoologists; Genetics Society of America, Ecological Society of America, Limnological Society of America, National Association of Science Writers, Sigma Delta Epsilon, Society for the Study of Evolution, Society of the Sigma Xi, United Chapters of the Phi Beta Kappa.

*Bradford Hotel:* Sections on Psychology (I) and Education (Q); American Nature Study Society, Committee on Scientific Policy of the AAAS, Co-operative Committee on Science Teaching of the AAAS, National Association of Biology Teachers, National Science Teachers Association, Pi Lambda Theta, Society for Research in Child Development.

*Commander Hotel:* Sections on Astronomy (D) and Geology and Geography (E); American Astronomical Society, American Geological Society, American Meteorological Society. (Meetings of these sections and societies will be held at Harvard University.)

*Copley-Plaza Hotel:* Section on Botanical Sciences (G); American Fern Society, American Society for Horticultural Science, American Society of Plant Physiologists, American Society of Plant Taxonomists, Botanical Society of America, Mycological Society of America, Phi Sigma Biological Society, Sullivant Moss Society.

*Kenmore Hotel:* Sections on Chemistry (C), Anthropology (H), Social and Economic Sciences (K), History and Philosophy of Science (L), and Engineering (M); American Philosophical Association, American Statistical Association, History of Science Society, Institute of Mathematical Statistics, Philosophy of Science Association, Pi Gamma Mu. (Sections C and M will meet in Building 10 of the Massachusetts Institute of Technology.)

### Registration

The main registration desks will be found at the Exposition Hall, located in the First Corps Cadet Armory, corner of Arlington Street and Columbus Avenue. The Armory is situated diagonally across the intersection from the Statler Hotel, general headquarters for the Convention.

The entrance to the Exposition Hall is on Arlington Street. Registration will commence at 10:00 A.M. on Thursday and at 9:00 A.M. on subsequent days, including Sunday. The Exposition Hall will close at 5:30 P.M. daily, except on Tuesday, the final day of the Convention, when closing time will be 11:30 A.M.

Subsidiary registration desks will be situated in the Bradford, Continental, Copley-Plaza, Kenmore, and Statler hotels and will be open from 6:30 to 9:00 P.M. on Thursday, 26 December, through Saturday, 28 December. Registration desks will also be open at the following places: Institute of Geographical Exploration, Friday, Saturday, and Monday, 27, 28, and 30 December, 9:00 A.M. to 5:00 P.M.; Soden Building, Boston University, 84 Exeter Street, Boston, Friday and Saturday, 27-28 December, 9:00 A.M. to 5:00 P.M.; Massachusetts Institute of Technology, Building 10, Thursday, 26 December, 12:30 P.M. to 6:00 P.M., and Friday and Monday, 27 and 30 December, 9:00 A.M. to 5:00 P.M.

The registration fee is \$2.00. All members and visitors are urged to register since admittance to certain general sessions and functions will be contingent on display of a Convention Badge. Information called for on the registration cards distributed about the registration desks should be filled in carefully and the cards presented at the registration booths. Registrants will receive the General Program, containing programs of all sections and societies meeting with the Association, and the AAAS Convention Badge, as well as maps and pamphlets of meeting sites and historic points of interest in and about Boston. The names and local addresses of persons registering will be listed in the Visible Directory at the Registration Center. The Directory serves to bring acquaintances together and to facilitate the delivery of mail, telegrams, and important messages.

*Copies of the General Program are now ready for distribution and may be obtained in advance of the meetings by writing to the office of the Administrative Assistant, AAAS, 1515 Massachusetts Avenue, N.W., Washington 5, D. C. A check for \$2.00 should be enclosed with each order. A Convention Badge and registration card will be included with the copy of the General Program. Upon arriving in Boston, please present this card at the Registration Center for inclusion in the Visible Directory.*

## Programs of Sections

### (A) Mathematics

The Section on Mathematics will not meet with the Association in Boston. However, Marshall H. Stone, of the University of Chicago, will present a retiring vice-presidential address at the afternoon meeting of the General Technical Session. Dr. Stone was vice-president of the Section in 1942.

### (B) Physics

The Section on Physics is sponsoring a joint symposium on "The Shortage of Scientific Personnel" with the Sections on Psychology (I), Social and Eco-

nomic Sciences (K), and Education (Q) on Saturday morning and afternoon, 28 December, in the Ballroom Foyer of the Copley-Plaza Hotel. On Saturday evening it is participating with these same sections in a symposium on "Science Legislation and the Problems of Federal Aid," and on Monday morning Section B is co-sponsoring a symposium on "The Gaseous Envelope of the Earth" with the American Astronomical Society, American Meteorological Society, and the Section on Astronomy (D).

### (C) Chemistry

All meetings of the Section on Chemistry will be held in Room 250 of Building 10, located on the campus of the Massachusetts Institute of Technology. A list of contributed papers will be presented on Thursday afternoon and evening and on Friday morning, 26-27 December, including among other titles: "Physical Chemistry of Rockets"; "Permanent Waving of Human Hair—The Cold Process"; "Histamine and Antihistaminic Substances"; and "The Use of Ion Exchangers for the Determination of Physical Chemical Properties of Substances, Particularly Radio Tracers in Solutions." At the Friday afternoon session, Henry Eyring will present the retiring vice-presidential address of the Section, speaking on "The Present Status of the Reaction Rate Theory." The remainder of this session will be devoted to papers on the kinetics of reaction systems.

### (D) Astronomy

Section D will meet jointly with the American Astronomical Society for eight sessions, from Friday, 27 December, to Monday, 30 December, inclusive. The meetings will be held at Longfellow Hall, Radcliffe College, the Harvard Observatory, and Sanders Theater. The address of the retiring vice-president, J. J. Nassau, will be given at Longfellow Hall on the afternoon of Friday, 27 December.

### (E) Geology and Geography

Section E will meet jointly with the Geological Society of America on Monday and Tuesday, 30-31 December. All meetings will be held in the Institute of Geographic Exploration, Harvard University. A symposium on "New England State Geological Surveys" will be given Monday morning and will be followed in the afternoon by a symposium on "New England Geology." At the Tuesday morning conference on training in geology, Arthur C. Bevan will present the address of the retiring vice-president of the Section. The title of his address will be "Whither Geology?" A symposium on "Synthesis of Single Crystals" will constitute the afternoon program.

**(F) Zoological Sciences**

The Section on Zoological Sciences has no formal program of its own this year other than the annual business meeting at 12:00 noon in the Salle Moderne Room of the Statler Hotel.

**(G) Botanical Sciences**

The Section on Botanical Sciences will hold a joint session with individual botanical societies on Friday afternoon in the Ballroom of the Copley-Plaza Hotel. Elvin C. Stakman, vice-president of the Section, will address the session on "The Nature and Importance of Physiologic Specialization in Phytopathogenic Fungi." A symposium on the "Proposed Plan for a Union Involving Workers in the Biological Sciences" will follow this address. The speakers at this symposium will include: Paul J. Kramer, Duke University; H. B. Tukey, Michigan State College; Ralph E. Cleland, Indiana University; and Robert F. Griggs, George Washington University. An open discussion will follow.

**(H) Anthropology**

The Section on Anthropology will meet in the Embassy Room of the Kenmore Hotel on Thursday afternoon and Friday morning. Titles from among the contributed papers include: "Statistical Analysis of Petroglyphs in California"; "Use of Serological Factors, Especially the Genes of Physical Anthropology"; "The Integration of Two Northwest Coast Ideas in a Myth of the Middle Fraser"; "Land as Property Among the Havasupae Indians"; and "Cultural Norms and the Individual in the Institutions of Nonliterate People."

**(I) Psychology**

The Section on Psychology will meet in a two-day session on Saturday and Sunday, 28-29 December. The morning and afternoon sessions will be held in the Oval Room of the Bradford Hotel and will include papers on factors influencing the intelligibility of speech, vision testing in industry, behavior patterns, intellectual levels in mental disorders, memory changes following electroconvulsive therapy, learning rates, and principles of learning. Concurrently with the Saturday morning and afternoon sessions, Section I will participate in a joint symposium with the Sections on Physics (B), Social and Economic Sciences (K), and Education (Q) on "The Shortage of Scientific Personnel." These sessions will be held in the Ballroom Foyer of the Copley-Plaza Hotel. On Saturday evening, these sections will join in a symposium on "Science Legislation and Problems of Federal Aid," to be held in the Sheraton Room of the Copley-Plaza Hotel. Sections I and Q will also meet in a joint session in the Lobby Ballroom of the Brad-

ford Hotel on Saturday evening. Sidney L. Pressey will present the retiring vice-presidential address of the Section on Psychology, entitled "Efficiency Engineering' in the Present Educational Emergency." He will be followed by Guy T. Buswell, who will present the retiring vice-presidential address of the Section on Education. Dr. Buswell will speak on "Perceptual Research and Methods of Learning."

**(K) Social and Economic Sciences**

The program of Section K will be of particular interest to all scientists. The opening session in the Ballroom Foyer of the Copley-Plaza Hotel on Friday morning, 27 December, is a symposium on "Economic Research and Technical Developments in New England." After participating in a joint luncheon with Pi Gamma Mu, National Social Honor Society, members and guests will return to the Ballroom Foyer, where Section K is joining the Academy of World Economics, the Industrial College of the Armed Forces, and Pi Gamma Mu in the presentation of a symposium on "Aspects of the Internal Structure and Present International Relations of the United States." Frederick C. Mills, vice-president of Section K, will speak on "Technological Gains and Their Incidence: A Review of Some Recent Economic Changes." Following Dr. Mills' lecture, papers will be presented by Benjamin H. Williams, on "Some Effects of International Disorganization on the Structure of the Political State," and Seymour E. Harris, on "The Effects of International Disorganization on the National Economy." A general discussion will follow. On Saturday morning and afternoon, 28 December, Section K will sponsor a symposium on "The Shortage of Scientific Personnel" with the Sections on Physics (B), Psychology (I), Education (Q), and Pi Gamma Mu. H. A. Moe will speak on "The Importance of the Problem"; M. H. Trytten, on "The Supply of and Demand for Scientific Personnel"; J. D. Kingsly, on "What the Government Is Doing About the Problem"; F. J. Brown, on "What the Universities Are Doing About the Problem"; and Kenneth A. Mead, on "What Industry Is Doing About the Problem." The afternoon session will conclude with a forum on "Next Steps Which Should Be Taken." Participants in this forum include: A. J. Allen, Westinghouse graduate professor of engineering; Leonard Carmichael, president of Tufts College; Francis Perkins, commissioner, U. S. Civil Service; M. H. Trytten, director, Office of Scientific Personnel, National Research Council; and Donald Young, executive director, Social Science Research Council. A symposium on "Science Legislation and Problems of Federal Aid" will be co-sponsored by the Sections on Social and Economic Sciences, Physics, Psychology,

Education, and Pi Gamma Mu on Saturday evening, 28 December. Speakers will include: E. U. Condon, director, National Bureau of Standards; Talcott Parsons, chairman, Department of Social Relations, Harvard University; and Alfred E. Cohn, Rockefeller Institute for Medical Research. Robert M. Yerkes, of Yale University, will preside. On Sunday afternoon, 29 December, Section K will meet jointly with the Section on History and Philosophy of Science (L) and the American Philosophical Association in the Ballroom Foyer of the Copley-Plaza Hotel, in the presentation of a symposium on "How Far Can Scientific Method Determine the Ends for Which Scientific Discoveries Are Used?" At 4:30 P.M. in the same room, Section K will present a symposium on "Empirical Research in the Field of Propaganda," Paul Lazarsfeld presiding. Following introductory remarks on the present state of propaganda research by the presiding officer, C. W. Mills will speak on "The Flow of Influence in an American Community," and Sanford Flowerman will speak on "The Testing of Interracial Propaganda." The session will then be thrown open to discussion.

### (L) History and Philosophy of Science

The program of the Section on History and Philosophy of Science will run from Saturday evening, 28 December, through Tuesday afternoon, 31 December. The opening session will be held jointly with the American Philosophical Association in the State Suite of the Copley-Plaza Hotel. Philipp Frank, C. W. Churchman, A. P. Ushenko, and Ralph W. Gerard will participate in a symposium on "The Place of Philosophy of Science in the Curriculum." On Sunday afternoon, 29 December, a joint session will be held with the Section on Social and Economic Sciences (K) and the American Philosophical Association in the Ballroom Foyer of the Copley-Plaza Hotel. P. W. Bridgman, Felix S. Cohen, Talcott Parsons, and C. I. Lewis will participate in a symposium on "How Far Can Scientific Methods Determine the End for Which Scientific Discoveries Are Used?" A symposium on "The Place of the History of Science in General Education" will be held in the Colonial Room of the Copley-Plaza Hotel on Monday morning, 30 December. This session will be sponsored jointly by the Section on Education (Q) and the History of Science Society. James B. Conant, president of the AAAS, will speak on "Understanding of Science." He will be followed by George Sarton, speaking on "Qualification of the Teachers of the History of Science," and Henry Guerlac, speaking on "History and the Sciences." Dorothy L. Simpson, vice-president of Section L, will conclude this session with "A Case Report." In the afternoon a

symposium on "The History of Wartime Research and Development," sponsored jointly with the History of Science Society, will be held in the State Suite of the Copley-Plaza Hotel. B. R. Baldwin will give a "Report on the History of Military Research and Development in World War II." Other papers to be presented at this session will include "Report on the History of AAF Research and Development in World War II," by Albert F. Simpson; "Report on the History of Naval Research and Development in World War II," by John B. Hefferman; "Report on OSRD and NDRC in Relation to Military Research and Development During World War II," by James P. Baxter, 3rd; and "The Influence of the History of Wartime Research and Development on American Historiography," by John Geise. A discussion by Bernard I. Cohen, Henry Guerlac, F. S. C. Northrup, and R. J. Seeger will conclude the session. On Tuesday morning, 31 December, a symposium on "American Colonial Science" will be presented in the State Suite of the Copley-Plaza Hotel, Richard H. Shryock presiding. The topics include: "The Scientific Environment in Philadelphia During the Later 18th Century," "The Morning Hours of Yankee Science," and "Some of the Effects of Colonial Thought." These papers will be followed by a general discussion led by Perry Miller. Dorothy Simpson will preside at the final afternoon session in the State Suite of the Copley-Plaza Hotel. Among the concluding papers will be: "The Importance of the Individual in Human Evolution," by Harold Blum; "The Philosophical Background of the Modern Unification of the Morphological and Functional Aspects of Living Matter," by H. Herrman; and "A Natural Specification of Societies," by Edward F. Haskell.

### (M) Engineering

The Section on Engineering will meet on Saturday and Monday, 28 and 30 December, in Room 250, Building 10, Massachusetts Institute of Technology. The Saturday sessions will be devoted to papers from the Office of Naval Research and the Monday sessions to papers from the U. S. Army Air Forces, Wright Field. Titles of the first day's session include: "Basic Research on Jet and Rocket Propulsion," "Ram Jet Research and Development," "Future of Aircraft Powerplants," "Gas Turbines," "Electronics," and "High-Altitude Research (V-2 Rockets)." Titles from the second day's sessions include: "Determination of the Temperature Distribution in the Gas Turbine Wheel," "Exhaust Cooling," "Aircraft Engine Testing Facilities," "Armament Trends," "Aircraft Cabin Supercharging and Air Conditioning by Engine Bleed Off," "Problems of the Army Air Forces Photography," "Jet Propulsion Thrust Augmentation With

Water Injection and After-Burning," "Flight Path of an Airplane Landing Under Automatic Navigation," "Basic Problems of Low-Frequency Navigational Systems," and "Remote Control of Aircraft by Radio Means."

### (N) Medical Sciences

The sessions of the Section on Medical Sciences will be held in the auditorium of Building C at the Harvard School of Public Health, located at 55 Shattuck Street, Boston. Twenty-six papers will be presented in a symposium on "The Rickettsial Diseases of Man." The opening session on Thursday evening, 26 December, will include papers on epidemic typhus in North Africa, Italy, and Yugoslavia, the European Theater, Japan, and Korea. Also included in this session will be papers on "Tsutsugamushi Disease" and "Q. Fever." The Friday morning session, 27 December, will center about the rickettsial diseases of man, their taxonomy, biology, laboratory procedures in isolation and identification, vectors, and reservoirs of infection. The afternoon session will consider the pathology of rickettsial diseases in man, symptomatology of rickettsial diseases in man, and the treatment of rickettsial diseases in man. The Saturday morning session, 28 December, will treat serology in the rickettsial diseases of man, including a method for the preparation and standardization of rickettsial vaccine. The afternoon session will treat the problems of immunization, control of vectors of rickettsial diseases, and the use of insecticides, particularly the application of DDT, and will conclude with a paper on the influence of rickettsial diseases on military operations, past-present-future. The Monday morning and afternoon sessions, 30 December, consist of contributed papers dealing with "Histopathology of Skeletal Muscle," "Significance of Character of Antihistamine Drugs," "Fibrinogen: With Special Reference to Its Preparation and Certain Properties of the Product," "Medical Results of Crossroads Operation," "Effects of Anesthesia on Some Neurotropic Virus Infections in Mice," "Physiological Aspects of Pilot Ejection," "Host Nutrition and Natural Resistance in Nine Different Models of a Single Disease," "Tolerance of Pilots to Short-Time High g Force During Curvilinear Flight," and "An Accurate Photometric Method for the Evaluation of Protection From Roentgen-Ray Exposure."

### (Nd) Subsection on Dentistry

Dentists will meet all day on Sunday, 29 December. A symposium on "Biologic Aspects of Periodontal Disease" will be presented. On Sunday evening, a dinner session will be held in Parlor C of the Statler Hotel, followed by a round-table discussion on current research problems in periodontal disease.

### (Np) Subsection on Pharmacy

The Subsection on Pharmacy will present a series of technical papers on Saturday morning, afternoon, and evening, 28 December, in the Statler Hotel. The morning session will be devoted to scientific papers, and the afternoon and evening sessions will deal with pharmaceutical engineering, followed by a round-table discussion.

### (O) Agriculture

The Section on Agriculture will present a symposium on "Freedom From Want" on Monday morning and afternoon, 30 December, in the Ballroom Foyer of the Copley-Plaza Hotel. The papers include: "Population and World Food Supplies," by H. R. Tolley; "World Soil and Fertilizer Resources," by R. M. Felter; "Animal Production in an Efficient Food Economy," by F. B. Morrison; "The Current Economics of Freedom From Want," by John D. Black; and "The Obligations of Science in Attaining Freedom From Want," address of the retiring vice-president of the Section, M. A. McCall.

### (Q) Education

The Section on Education will hold a three-day session on Friday, Saturday, and Monday, 27, 28, and 30 December. Except for joint sessions, Section Q will meet in Parlor B of the Bradford Hotel. Titles from the Friday morning session include: "The Relative Value of Three Methods of Presenting Learning Material," "Educational Implications of Concepts Related to Test Validity," "The Improvement of the Higher Mental Processes in Reading," "Was Counseling Worth While? A Follow-Up Study of Selected Veterans," and "An Evaluation of the Biarritz American University." The Friday afternoon session will center about a discussion of the "Implications of Armed Services Educational Programs," Guy T. Buswell presiding. Participants include: M. M. Chambers, Robert J. Matthew, Elwood C. Davis, and Howard Rusk. On Saturday evening, the Section on Education will join with the Section on Psychology (I) for the presentation of the retiring vice-presidential addresses of both sections. Sidney L. Pressey will speak on "'Efficiency Engineering' in the Educational Emergency," and Guy T. Buswell, on "Perceptual Research in Methods of Learning." The following Monday afternoon, Dr. Buswell will preside at a general program at which papers will be presented on: "Techniques and Apparatus for Demonstrating and Studying Electronics Circuits," "An Evaluation of the Technique Used in Location of Science Education Objectives With Relation to Two Problem Situations (Soil Conservation and Community Health)," "Science Education and the Regional Community of Eastern Con-

necticut," and "The Impact of Scientific Developments and Technological Trends on Educational Policies in the Secondary School." The concluding paper will be on "Science Teaching in One World." Joint symposia with the Sections on Physics (B), Psychology (I), and Social and Economic Sciences (K) will be held on Saturday morning, afternoon, and evening. A general synopsis of these programs appears under the Section on Social and Economic Sciences (K).

## Programs of Societies

### Institute of Mathematical Statistics

Although the Section on Mathematics has planned no separate session for the Boston meeting, the Institute of Mathematical Statistics has arranged a joint session with the Biometrics Section of the American Statistical Association. "The Analysis of Variance in Biology" will be presented in two parts on Saturday morning and afternoon, 28 December, at the Statler Hotel.

### American Meteorological Society

Business sessions will be held on Friday afternoon, 27 December, and Saturday morning and afternoon, 28 December, at the Institute of Geographical Exploration, Harvard University. Members of the American Meteorological Society are invited to attend a luncheon at 12:30 P.M. on Saturday at the Harvard Faculty Club, Harvard University. A dinner session will also be held Saturday evening at the Continental Hotel, Cambridge. On Monday morning a session on "The Gaseous Envelope of the Earth" will be co-sponsored with the Section on Physics (B), Astronomy (C), and the American Astronomical Society. A more detailed discussion of this meeting will be found under the American Astronomical Society.

### The American Astronomical Society

In observance of the centennial celebration of the establishment of the Harvard College Observatory on its present site, the American Astronomical Society has prepared an extensive program of special events to be presented over a four-day period. A symposium on "Interstellar Matter" will be held at Longfellow Hall, Radcliffe College, on Friday morning and afternoon, 27 December. On Saturday morning, 28 December, the Society will meet at the Computation Laboratory, Harvard University, for a symposium on "Electronic and Computational Devices of Interest to Astronomers." On Saturday afternoon a symposium on "Eclipsing Binaries" will be presented at Harvard Observatory. The first annual Henry Norris Russell Lecture will be given in Longfellow Hall, Radcliffe College, on Saturday evening at 8:15 P.M. Dr. Russell will lecture on "The Royal Road of

Eclipses." A Sunday afternoon session, 29 December, at Harvard Observatory will be devoted to general papers on astronomy. In the evening, Harlow Shapley will present an address, as retiring president of the American Astronomical Society and Christmas lecturer of the Sigma Xi, on "Goals of International Cooperation." This session, commencing at 8:15 P.M., will be held in Sanders Theater, Harvard University. The concluding session on Monday morning, 30 December, will be a symposium on "The Gaseous Envelope of the Earth," sponsored in cooperation with the Sections on Physics (B), Astronomy (D), and the American Meteorological Society. Among the titles of papers are: "The Solar Corona and Ultraviolet Radiation," "Solar Activity," "Ionosphere," "Earth-Sun Relationships," "The Sun and Conditions in Upper Atmosphere," "Meteors and Upper Atmosphere," "Solar Variability and Radio Disturbances," "Solar Activity, the Ozone Layer, and the Lower Atmosphere," and "Solar Activity and the General Circulation of the Lower Atmosphere."

### The Geological Society of America

The Society is co-sponsoring meetings with the Section on Geology and Geography (E). The joint program is described briefly under Section E.

### The American Society of Parasitologists

This Society will hold most of its sessions in the Salle Moderne Room of the Statler Hotel. On Friday, 27 December, however, the sessions will be held in the amphitheater of Building E2, Harvard Medical School, Longwood Avenue, Boston. At the morning session Norman R. Stoll, president of the American Society of Parasitologists, will give an address on "This Wormy World." The Parasitologists' Luncheon, to be followed by the annual business meeting, will be held at 12:30 P.M. at Longwood Towers, Longwood Avenue and Chapel Streets, Brookline. A demonstration program has been planned for the Friday afternoon session, during which refreshments will be served to visitors. "Trichomonas and Related Flagellates" will be the subject of a symposium presented on Saturday morning, 28 December, in the Salle Moderne Room, followed in the afternoon by a program of general technical papers in Parlor A of the Statler Hotel.

### The American Society of Zoologists

The Society will hold a three-day session commencing on Saturday, 28 December, and continuing through Tuesday afternoon, 31 December. On Saturday morning three sessions will be held on General Physiology; Embryology; Protozoology, Parasitology, and Ecology. A joint symposium with the Genetics Society of America, on "Mammalian Patterns of Sex Behavior," will

be held in the Georgian Room of the Statler Hotel on Saturday afternoon. Three papers will be presented: "Physiological Bases of Mammalian Sex Behavior," "Social Factors in Primate Sex Behavior," and "Sources of Human Sex Behavior." On Saturday evening all zoologists are invited to attend the Biologists' Smoker, sponsored by the American Society of Naturalists. Again, on Sunday morning concurrent sessions will be held on General Physiology; Embryology; Endocrinology and Cytology. The annual business meeting of the Society will be held on Sunday at 12:10 P.M. in the Salle Moderne Room of the Statler Hotel, followed by a demonstration program at 2:30 P.M. in the Biological Laboratories, Harvard University. Motion-picture demonstrations will be given in the main lecture room, and demonstrations of a general nature in Rooms 171, 173, and 180. The Zoologists' Dinner, open to all zoologists and friends, will be held at 7:00 P.M. in the Statler Hotel. Alfred E. Emerson, vice-president of the AAAS and chairman of Section F, will present an address on "Why Termites?" On Monday morning, three concurrent sessions will cover General Physiology, Endocrinology, and Cellular Physiology. A symposium on "Biology on the Molecular Level" will be held in the afternoon, Dwight E. Minnich presiding. Papers to be presented at this session include: "Biochemical Evolution," "Molecular Cytology," and "Biochemical Control of Morphogenesis." On Tuesday afternoon, the zoologists will participate with the American Society of Naturalists, Botanical Society of America, Genetics Society of America, and Society for the Study of Evolution in a symposium on "Genetic Aspects of Natural Populations."

### **The Cambridge Entomological Club**

The Club has arranged to hold its December meeting on Thursday evening, at which time Clarence H. Kennedy, The Ohio State University, will deliver a lecture on "The Child Labor of Termites Versus the Adult Labor of the Ant Society." The meeting will begin at 8:00 P.M. in Room B-455, Biological Laboratory, Harvard University, Cambridge, and will be followed by an informal social gathering for entomologists attending the Boston meeting.

### **American Microscopical Society**

The luncheon session of the executive committee will be held at 1:30 P.M., Thursday, 26 December, in the Terrace Room of the Statler Hotel. The annual meeting will be held at 4:00 P.M. on Friday, 27 December, in the Hancock Room of the Statler Hotel.

### **American Society of Naturalists**

The program of the 62nd annual meeting will commence on Saturday, 28 December, and run through

Tuesday afternoon, 31 December. The Biologists' Smoker, a social event sponsored by the Naturalists to which all biologists are cordially invited, will be held in the Ballroom Assembly of the Statler Hotel commencing at 9:00 P.M. on Saturday, 28 December. On Monday, 30 December, the executive committee will meet at 4:00 P.M. in Parlor D of the Statler Hotel. At 6:30 in the evening, the Naturalists' Dinner will be held in the Georgian Room of the Statler Hotel. Charles W. Metz, president of the Society, will deliver a lecture on the "Duplication of Chromosome Parts as a Factor in Evolution." A joint session with the American Society of Zoologists, Botanical Society of America, Genetics Society of America, and Society for the Study of Evolution will be held at 2:00 P.M. on Tuesday in the Salle Moderne Room of the Statler Hotel. T. Dobzhansky, Carl Epling, and Jens Clauson will participate in a symposium on "Genetic Aspects of Natural Population."

### **Ecological Society of America**

The program of the 31st annual meeting will commence on Friday afternoon, 27 December, and run through Monday afternoon, 30 December. A symposium on "Mortality Table Methods Applied to Biological Problems" will be presented in Parlor B of the Statler Hotel on Friday afternoon. This session is co-sponsored by the Biometrics Section of the American Statistical Association. Running concurrently in the Salle Moderne Room of the Statler Hotel will be a technical session on "Plant Ecology." On Saturday morning, 28 December, concurrent sessions will be held on Applied Ecology, Animal Ecology, and "Origin and Development of Natural Floristic Areas With Special Reference to North America," a joint symposium with the Botanical Society of America, American Society of Plant Taxonomists, and Society for the Study of Evolution. The symposium will continue in the afternoon, running concurrently with another symposium on "Marine Ecology," held jointly with the Limnological Society of America. At 6:30 on Saturday evening, the Ecologists will hold a dinner session in Parlor A of the Statler Hotel; and on Sunday, weather permitting, an excursion to Newburyport and Plum Island salt marshes and sand dunes will be arranged for those interested, provided enough private cars are available. Members of the Ecological Society are extended a special invitation to attend an exhibit on "Methods and Results in Aquatic Research," sponsored by the Limnological Society of America on Sunday, 29 December, between 3:00 and 6:00 P.M., Room 158, Biological Laboratories, Harvard University, Cambridge. Two concurrent sessions will be held on Monday morning, one on "Animal Ecology" in the Salle Moderne Room of the Statler Hotel, and the other, a joint program of



technical papers with the Botanical Society of America, in the Sheraton Room of the Copley-Plaza Hotel. A joint session will be held with the Society for the Study of Evolution on Monday afternoon in the Ballroom Assembly of the Statler Hotel, followed by the annual business meeting at 3:30 P.M. in Parlor B.

#### **Genetics Society of America**

The 14th annual meeting will be held between Friday, 27 December, and Tuesday afternoon, 31 December. The opening session of short papers will be held on Friday at 2:00 P.M. in Parlor A of the Statler Hotel. A Saturday morning demonstration program has been scheduled in Room 182, Biological Laboratories, Harvard University. The luncheon and business meeting of the Genetics Society will be held at 1:00 P.M. in the Continental Hotel, Cambridge, followed by a symposium on "Mammalian Patterns of Sex Behavior," a joint session with the American Society of Zoologists, convening at 2:00 P.M. in the Georgian Room of the Statler Hotel. Monday morning and afternoon will be devoted to sessions of short technical papers. On Tuesday afternoon, a series of invitation papers (20 minutes each with 5-minute discussions) will be presented in Parlor A of the Statler Hotel, George W. Beadle presiding. The final session, on "Genetic Aspects of National Populations," will be held jointly with the American Society of Naturalists, American Society of Zoologists, Botanical Society of America, and Society for the Study of Evolution.

#### **The Limnological Society of America**

The Society will hold its ninth annual meeting on Saturday, Sunday, and Monday, 28-30 December. In addition to the technical sessions, a joint symposium with the Ecological Society of America, on "Marine Ecology," will be held in the Ballroom Assembly of the Statler Hotel on Saturday afternoon, and a symposium on "Fertilization of Aquatic Areas" in the Georgian Room of the Statler Hotel on Monday morning and afternoon. A Sunday afternoon exhibit, in Room 158 of the Biological Laboratories, Harvard University, will demonstrate "Methods and Results in Aquatic Research."

#### **The National Association of Biology Teachers**

The Association will open its sessions with a symposium on "Ecology and Teaching of Ecology," Saturday, 28 December. The morning session will deal primarily with "What in Ecology Is Most Significant to the Biology Teacher?" and the afternoon session, with "The Teaching of Ecology." The meeting will conclude with a dinner session in the Colonial Room of the Copley-Plaza Hotel at 6:30 P.M. Following the annual banquet, P. L. Whitaker will introduce the 1947 officers.

#### **The Phi Sigma Biological Society**

Business meetings of the Society will be held on Friday and Saturday, 27-28 December. The concluding session will be a dinner meeting on Saturday evening in the Salon Room of the Copley-Plaza Hotel. A. M. Keefe will address the Society on "The Padre Was a Biologist."

#### **The Society for the Study of Evolution**

The Society's first annual meeting with the Association will be held from Saturday, 28 December, through Tuesday, 31 December. On Saturday morning and afternoon, the evolutionists will participate with the Botanical Society of America, American Society of Plant Taxonomists, and Ecological Society of America in a symposium on "The Origin and Evolution of Natural Floristic Areas With Special Reference to North America." A technical session will be held on Monday morning, followed by a joint session with the Ecological Society of America on Monday afternoon. On Tuesday morning, 31 December, the Society will meet in Parlor C of the Statler Hotel, and on Tuesday afternoon will join with the American Society of Naturalists, American Society of Zoologists, Genetics Society of America, and Botanical Society of America in presenting a symposium on "The Genetic Aspects of Natural Populations."

#### **The American Fern Society**

The Society will hold a single session on Saturday morning, 28 December, in the Green Room of the Lenox Hotel. Frederick L. Fagley will preside at a program of general papers.

#### **The American Society of Plant Physiologists**

The Society will hold its 21st annual meeting on Friday, Saturday, and Monday, 27, 28, and 30 December. The opening session, at 9:30 A.M. in Room 310 of the Soden Building, Boston University, 84 Exeter Street, will be joint with the Physiological Section of the Botanical Society of America. In addition to sessions held jointly with Sections of the Botanical Society of America and independent meetings on growth activators and inhibitors, chlorophyll metabolism and photosynthesis, the American Society of Plant Physiologists will participate in a joint session with the Section on Agriculture (O) and the American Society for Horticultural Science, in a symposium on "Plant Respiration," to be held in the Colonial Room of the Copley-Plaza Hotel on Saturday afternoon, 28 December. The Plant Physiologists' Dinner will be held at 6:30 P.M. on Friday in the Ballroom of the Vendome Hotel. Following the dinner there will be an announcement of the Charles Reid Barnes Life Membership Award and the Stephen Hale Award. Paul J. Kramer will address the session on "A Viewpoint for Plant Physiologists."

### **The American Society of Plant Taxonomists**

Most of the Society's sessions will be held in the Soden Building of downtown Boston University, 84 Exeter Street. With the exception of the Plant Taxonomists' Dinner, scheduled on Friday evening at 6:30 in the Monaco Room of the Lenox Hotel, all sessions will be held jointly with the Botanical Society of America.

### **The Botanical Society of America, Inc.**

The Society's 41st annual meeting will be held from Thursday, 26 December, to Monday, 30 December, inclusive. The Copley-Plaza Hotel will be official headquarters, and most of the meetings will be held in the Soden Building of downtown Boston University, 84 Exeter Street. In addition to the joint meeting with Section G on Friday afternoon, there will be other joint meetings with the American Society of Plant Physiologists, American Society of Plant Taxonomists, American Fern Society, Mycological Society of America, Ecological Society of America, and American Society for Horticultural Science. Special symposia on "Antibiotics, Variation and Mutation in Microorganisms," "Origin and Development of Natural Floristic Areas With Special Reference to North America," "Nutrition and Metabolism of Microorganisms," "Plant Respiration," "Problems of Teaching Botany in the Beginners' Course," "Great Teachers of Botany in the United States," and "Genetic Aspects of Natural Populations" have been arranged for the joint sessions, while programs of the other sections will consist in large part of contributed papers of a technical character. The Microbiological, Paleobotanical, Physiological, and Systematic Sections will participate in the joint sessions. The All Botanists' Dinner will be held at 6:30 P.M. on Saturday in the Ballroom Foyer of the Copley-Plaza Hotel. The Council will meet at 10:00 A.M. on Sunday, 29 December, in the Blue Room of the Copley-Plaza Hotel. On Monday evening, 30 December, a special meeting sponsored by the New England Botanical Club, Inc., will be held at the house of the American Academy of Arts and Sciences, 28 Newbury Street. Merritt L. Fernald will deliver an address on "The Founders of New England Botany." Carl L. Wilson will preside at a joint Saturday afternoon session with the Committee on Botanical Teaching in Room 208 of the Soden Building. There will be an exhibition of motion-picture films for teaching purposes in the introductory course to botany, followed by a discussion of the "Place of Visual Education in Teaching."

### **The Mycological Society of America**

The Society will meet on Friday, Saturday, and Monday, 27, 28, and 30 December, in Jacob-Sleeper

Hall of Boston University, located at 688 Boylston Street. At the Friday morning session G. B. Cummings, president of the Society, will give a lecture on "Problems in Mycological Taxonomy." Other papers on the morning program deal with mycological nomenclature. In general, the remainder of the sessions will be comprised of papers of a taxonomic or physiological nature, including those presented jointly with the Microbiological Section of the Botanical Society of America.

### **The Sullivant Moss Society**

A breakfast session of the Society will be held on Saturday, 28 December, at 8:00 A.M. in the Blue Room of the Copley-Plaza Hotel, and will be followed by a regular session at 10:00 A.M. A second session of technical papers will be presented in the afternoon in the same room, Richard T. Wareham presiding at both meetings.

### **The American Phycological Society**

A business meeting for organization purposes will be held at 4:00 P.M. on Monday, 30 December, in the Blue Room of the Copley-Plaza Hotel, G. W. Prescott presiding.

### **The Society for Research in Child Development**

The Society will meet on Friday and Saturday, 27-28 December. A symposium on "Methodological Problems Met in Integrating and Interpreting Physical, Medical, Psychological, and Social Data in Longitudinal Studies of Children" will be presented on Friday at 9:30 A.M. in the Main Ballroom of the Bradford Hotel. A symposium on "Psychological Problems Met in General Medical Practices With Children" will be held in the same room at 1:30 P.M. This meeting will be followed by a business session at 3:30 P.M. The Saturday morning session will consist of research reports, while the Saturday afternoon session will consist of "Reports on the Effects of Severe War Conditions Upon Child Development and Behavior." Both sessions will be held in the Main Ballroom of the Bradford Hotel.

### **The American Statistical Association, Biometrics Section**

The Biometrics Section will hold several joint symposia, including: "Biometric Methods of Fishery Investigations," with the Atlantic Fishery Biologists; "Mortality Table Methods Applied to Biological Populations," with the Ecological Society of America; and "The Analysis of Variance in Biology," with the Institute of Mathematical Statistics. These sessions, held from Friday, 27 December, through Sunday, 29 December, will conclude with a series of contributed

papers on Sunday morning and afternoon. The luncheon of the Biometrics Section will be held in Parlor A of the Statler Hotel at 12:00 noon on Sunday and will be followed by a business session.

### **Pi Gamma Mu, National Social Science Honor Society**

Pi Gamma Mu will open its program at noon on Friday, 27 December, with a luncheon given jointly with the Section on Social and Economic Sciences (K). On Saturday morning and afternoon, 29 December, Pi Gamma Mu will sponsor a symposium on "The Shortage of Scientific Personnel" with the Sections on Physics (B), Psychology (I), Education (Q), and Social and Economic Sciences (K). It will also participate in a joint meeting with these sections in a symposium on "Science Legislation and Problems of Federal Aid," to be given in the Sheraton Room of the Copley-Plaza Hotel on Saturday evening.

### **The American Philosophical Association**

The Association will meet jointly with the Section on History and Philosophy of Science (L) on Saturday evening, 28 December, and Monday afternoon, 30 December, in the Copley-Plaza Hotel. "The Place of Philosophy of Science in the Curriculum" will be the subject of the Saturday evening session, a symposium commencing at 8:15. On Sunday afternoon, 29 December, a symposium will be presented on "How Far Can Scientific Methods Determine the Ends for Which Scientific Discoveries Are Used?" This session, starting at 2:30 P.M., is sponsored jointly with Sections on History and Philosophy of Science (L) and Social and Economic Sciences (K).

### **The History of Science Society**

All of the meetings of the Society will be held jointly with the Section on History and Philosophy of Science (L).

### **The Philosophy of Science Association**

The Association will meet at 1:30 P.M. on Friday, 27 December, in Parlor A of the Kenmore Hotel. The activities of this society and plans for its future will be discussed. W. W. Malisoff will read a paper on "A Program for a Philosophy of Science Movement."

### **The American Dietetic Association**

The Association will meet on Friday afternoon and Saturday morning, 27-28 December, in the second-floor lecture room of the Harvard School of Public Health, located in the Huntington Building, 695 Huntington Avenue, Boston. The speakers at the first session will discuss methods of conducting nutrition surveys both at home and abroad. At the Saturday morning session Elda Robb, Simmons College, will preside over a discussion of nutrition education in the schools.

### **The American Society for Horticultural Science**

The Society will begin its activities on Friday morning, 27 December, with three concurrent sessions on "Pomology-Cultural," "Small Fruits," and "Vegetables-Herbicides, Growth Regulators, Pesticides." Two concurrent sessions, on "Vegetables-Potatoes, Root Crops" and "Pomology-Physiology," will be held on Friday afternoon. On Friday evening, there will be a "Round Table Discussion on Teaching" and a "Round Table for Extension Specialists in Horticulture." "Pomology-General," "Vegetables-General," "Floriculture and Ornamental Horticulture" will be the subjects of the concurrent Saturday morning sessions, 28 December, followed by a symposium on "Plant Respiration" on Saturday afternoon. On Saturday evening at 6:30 P.M., the annual banquet and social gathering of the Society will be held in Horticultural Hall, 300 Massachusetts Avenue, Boston. G. F. Potter will present the retiring presidential address. Sunday morning, 29 December, concurrent sessions will cover "Vegetables-Breeding," "Pomology-Fruit Thinning," "Hormone Sprays, Orchard Herbicides," and "Floriculture and Ornamental Horticulture." A business meeting for a report of committees and election of officers will be held at 1:30 P.M. on Sunday in the Colonial Room of the Copley-Plaza Hotel and will be followed by a general session at 2:30 P.M. at which G. F. Potter will preside. All meetings of the American Society for Horticultural Science will be held in the Copley-Plaza Hotel.

### **The Cooperative Committee on Science Teaching of the AAAS**

The Committee will meet jointly with the National Science Teachers Association on Friday morning and evening, 27 December, in Parlor A of the Bradford Hotel and on Sunday evening, 29 December, in the Oval Room of the Bradford Hotel. The latter session will hold a forum on "Problems of Science Teaching."

### **The National Science Teachers' Association**

The Association will hold its second annual meeting at the Boston meeting of the AAAS. Convention headquarters will be in the Oak Room of the Bradford Hotel throughout the period of the meetings from Thursday evening, 26 December, to Monday evening, 30 December. The Friday meetings include: a joint session with the Cooperative Committee on Science Teaching of the AAAS; an afternoon Junior Scientists' Assembly at which papers, talks, and discussions will be presented by members and recent members of Junior Academies of Science, Science Clubs of America, and School Science Club; and an evening meeting, again with the Cooperative Committee on Science Teaching of the AAAS. All Friday sessions

will be in the Bradford Hotel. The New York State Science Teachers Association will hold a Board of Directors' meeting at 8:00 P.M. on Friday in Parlor B of the Bradford Hotel. The Saturday sessions will be held at the Massachusetts College of Pharmacy, located at 179 Longwood Avenue. (Members are advised to take the Huntington Avenue subway car at Park Street, getting off at Longwood Avenue.) At the general Saturday morning session, Morris Meister will discuss "Activities of the National Science Teachers Association." At 10:00 A.M., the Sections of the NSTA on Physics, Chemistry, and General Science will meet separately. The annual luncheon of the National Science Teachers Association will be held at 12:30 P.M. on Saturday, 28 December, in the Salle Moderne Room of the Statler Hotel. The Saturday afternoon session, to be held on the first floor of the Massachusetts College of Pharmacy, will consist of science projects presented by New England pupils. On Sunday evening a forum on "Problems of the Science Teachers" will be held in the Oval Room of the Bradford Hotel, jointly with the Cooperative Committee on Science Teaching of the AAAS. The Monday session will also be held at the Massachusetts College of Pharmacy, 179 Longwood Avenue. In the morning, D. E. Sollberger will discuss "Time for Science Teaching—The 1946 NSTA Yearbook," and Bertha A. Slye will speak on "Science Teaching Packets—A NSTA Project." Following this general session, commencing at 10:00 A.M., there will be independent meetings of the Physics, Chemistry, and General Science Sections. On Monday afternoon, 30 December, a comprehensive exhibit of teaching materials from industry will be presented on the first floor of the Massachusetts College of Pharmacy.

#### **Pi Lambda Theta**

Pi Lambda Theta will hold a dinner session for members and their guests in the Oval Room of the Bradford Hotel on Monday, 30 December, at 6:00 P.M. Hostess chapters will include Alpha Gamma and Alpha Eta.

#### **The American Nature Study Society**

The Society will hold a two-day session on 27–28 December. The Friday morning session in the Oak Room of the Bradford Hotel will be a discussion of the problem, "How to Increase National Resource Planning and Conservation Education in Our School Programs Through Present Subject Matter Areas." The Friday afternoon session will deal with reports from the various conservation workshops on "The Conservation Workshop Method in Training Teachers and Leaders in Conservation and Planning Programs in Conservation." The dinner of the American Nature Study Society, to be followed by the annual meeting, will be held in the Oval Room of the Bradford Hotel at 6:30 P.M. on Friday, 27 December. On Saturday, the general topics include: "New England's Nature and Conservation Plans and Programs," "Organizing the Fourteen Southern States for Resource Use Education Through the Southern Resources Committee," and "Improving Camping Education Through Greater Use of Natural Resources."

#### **The National Association of Science Writers**

Members of the Association have been invited to participate in a symposium on "The Quality of Science Writing Now Being Presented to the American Public" as guests of the Harvard Nieman Foundation for Journalism. The panel of speakers includes: James B. Conant, president of Harvard University, and Fletcher Watson, of the Harvard School of Education. The meeting will be held at 8:00 P.M. at the house of the Signet Society, 46 Dunster Street, Cambridge.

#### **Sigma Delta Epsilon**

Sigma Delta Epsilon will hold its National Council Meeting in Parlor E of the Statler Hotel on Friday morning, 27 December. On Sunday afternoon, 28 December, it will sponsor a luncheon for all women in science, to be held in the Monaco Room of the Lenox Hotel. The National Convention Breakfast will be held on Monday, 30 December, at 8:00 A.M. in the Salon of the Copley-Plaza Hotel.

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