

## Meeting Notes

### General Sessions

At each annual meeting of the American Association for the Advancement of Science several "General Sessions" are held, the first of which is devoted largely to the address of the retiring president. At the St. Louis meeting on Wednesday evening, 27 March, Dr. Anton J. Carlson, emeritus professor of physiology at the University of Chicago and president of the Association in 1944, will deliver his retiring address on "Be There 'a Standard to Which the Wise and the Honest Can Repair'?"

Dr. Carlson's address, which will be delivered in the Opera House of the magnificent Kiel Auditorium, will be followed by a reception to members of the Association by leading citizens of St. Louis. It is expected that among the distinguished scientists present at this session will be Dr. Arthur H. Compton, formerly professor in the University of Chicago, now president of Washington University, and president of the Association in 1942; Dr. Charles F. Kettering, director of General Motors Research Laboratories and president of the Association in 1945; and Dr. James B. Conant, president of Harvard University and president of the Association during 1946. Rarely, if ever, in the 98 years since the Association was founded have four of its presidents and past presidents participated in one of its general sessions.

At the second general session, which will be held on Thursday evening, 28 March, in the Gold Room of the Jefferson Hotel, Dr. E. C. Stakman, of the University of Minnesota, will deliver the twenty-second lecture under the joint auspices of the Association and the Society of the Sigma Xi. On the following evening Dr. Irwin Edman, professor of philosophy in Columbia University, will deliver the eighth annual lecture under the joint auspices of the Association and the United Chapters of Phi Beta Kappa in the Gold Room of the Jefferson Hotel. The title of Dr. Edman's address will be "Science and the Dream of Happiness." On Friday evening, in the Kiel Auditorium, the National Geographical Society will present Mr. Luis Marden in a lecture on "Seeing Costa Rica," which will be illustrated by colored motion pictures.

### Hotel Headquarters

*Jefferson Hotel:* General Headquarters.

Headquarters of the sections of the Association and of the societies meeting with the Association in St. Louis are as follows:

*Claridge Hotel:* Sections on Astronomy, Chemistry, Geology and Geography, Physics, and Mathematics; American Association of Geographers, American As-

sociation of Scientific Workers, American Institute of Mining and Metallurgical Engineers, American Meteorological Society, Geological Society of America, Institute of Mathematical Statistics, Mathematical Association of America.

*Coronado Hotel:* Section on Medical Sciences; Alpha Epsilon Delta.

*DeSoto Hotel:* Section on Agriculture; American Nature Study Society, American Society for Horticultural Science, Beta Beta Beta, Central Association of Science and Mathematics Teachers, Cooperative Committee on Science Teaching of the AAAS, National Association of Biology Teachers, National Council of Teachers of Mathematics, National Science Teachers Association, Union of American Biological Societies.

*Jefferson Hotel:* Section on Zoological Sciences; American Association of Economic Entomologists, American Microscopical Society, American Society of Naturalists, American Society of Parasitologists, American Society of Zoologists, Conference on Methodology of Science, Conservation Council, Ecological Society of America, Entomological Society of America, Gamma Alpha Graduate Scientific Fraternity, Limnological Society of America, National Association of Scientific Writers, Phi Beta Kappa, Sigma Xi, Society for the Study of Speciation.

*Lennox Hotel:* Genetics Society of America, Phi Sigma Society, Potato Association of America, Sullivant Moss Society.

*Mark Twain Hotel:* Sections on Education, Historical and Philological Sciences, Psychology, and Social and Economic Sciences; American Statistical Association, Midwestern Psychological Association, Pi Gamma Mu, Society for Research in Child Development.

*Statler Hotel:* Section on Botanical Sciences; American Fern Society, American Phytopathological Society, American Society of Plant Physiologists, American Society of Plant Taxonomists, Botanical Society of America, Mycological Society of America, Sigma Delta Epsilon.

### Registration

All members of the AAAS are expected and urged to register. The registration fee is \$1.00. The names and local addresses of persons registering will be listed in the Visible Directory located at the registration center. In addition to the *General program* listing papers and activities of all sections and of all societies meeting with the Association, registrants will receive a Convention Badge, since admittance to certain sessions and functions may be contingent upon display of this identification.

The main registration desks are to be located at the center of the exposition hall of the Municipal Auditorium. Street-level entrances on 14th and 15th Streets provide ready access to the main corridors between the exhibit booths leading to the registration center, which will be open at 8:00 A.M. each day. Supplemental registration desks will be open from 8:00 to 11:00 A.M. on Wednesday in the Coronado and Jefferson Hotels, on Thursday morning in the Statler Hotel, and on Thursday and Friday mornings in the DeSoto Hotel.

Persons desiring extra copies of the *General program* may secure them during the meeting for \$1.00 each, or at a reduced rate by writing to the Permanent Secretary at the close of the meeting, if extra copies are then available.

### Meetings of Sections and Societies

(A) *Mathematics*. The Section on Mathematics has planned three sessions, starting Friday, 29 March, at 2:30 P.M. in Room 4D of the Auditorium. The feature of the opening session will be the address of the retiring chairman, J. L. Walsh, of Harvard University, on "Taylor's Series and Approximation to Analytic Functions." Teaching problems will be emphasized in a joint session with the Missouri Section of the Mathematical Association of America on Saturday morning, and, following a luncheon for mathematicians and guests on the 15th floor of the DeSoto Hotel, an afternoon session with the Institute of Mathematical Statistics will consider applications of statistical techniques to engineering, business, and population.

(B) *Physics*. The Section on Physics has scheduled a single session, which will be held in Room 4C of the Auditorium on Friday, 29 March. The program will be of general interest to scientists attending the St. Louis meetings because it includes a talk by Rear Admiral H. G. Bowen on "Research Projects of the Office of Research and Inventions," as well as papers by F. O. Schmitt and M. D. Kamen on specific applications of physics to biological research. Another feature of the program is the retiring vice-presidential address on "Whither Physics?" by R. C. Gibbs, of Cornell University.

The *American Meteorological Society* has also planned two sessions and a luncheon for Friday, 29 March. Featured in the morning session are papers dealing with the relationship between storms and seismic records. Some applications of radar to meteorology will be considered in the afternoon meeting. Both sessions will be held in Committee Room A in the Auditorium.

(C) *Chemistry*. The Section on Chemistry has arranged a symposium on Chemotherapy which will extend through four sessions, starting Thursday morning and continuing until Friday afternoon. Arthur J. Hill will serve as chairman at the Thursday sessions, when R. B. Woodward, Selman A. Waksman, Walter Seegers, and K. P. Link will speak. On Friday contributors to the symposium include E. A. Evans, W. Price, M. Slein, S. P. Colwick, C. F. Cori, O. H. Gaebler, and R. J. Williams. For these sessions Henry Eyring will occupy the chair. A business meeting and dinner, scheduled for Thursday evening, with E. A. Doisy as honorary chairman, will be followed by the address of the retiring vice-president and chairman of the Section, Arthur J. Hill. Reservations must be made through Dr. N. E. Gordon, Wayne University, Detroit 1, Michigan, by 13 March. The business meeting and dinner will be held at the Hotel Jefferson; the regular sessions will take place in Assembly Room 4, Kiel Auditorium.

(D) *Astronomy*. The Section on Astronomy has planned sessions for the forenoon and afternoon of Friday, 29 March, and for the forenoon of Saturday, 30 March, with a Section luncheon at 1:00 P.M. Saturday. The headquarters hotel for the Section is the Claridge, and the meetings will be held in one of the session rooms of the Kiel Auditorium starting at 9:30 Friday morning. Two retiring vice-presidential addresses are scheduled for Friday afternoon. The first is by Robert R. McMath, of the McMath-Hulbert Observatory of the University of Michigan, on three-dimensional work on solar prominences. The second is by Seth B. Nicholson, of the Mt. Wilson Observatory, on "The Solar Cycle." J. J. Nassau, Section chairman, will deliver a paper on "Problems Relating to Objective Prism Spectra." W. W. Salisbury, director of research of the Collins Radio Corporation, will deliver a paper on "Possibilities in the Astronomical Use of Radar." Several other papers have been promised on subjects varying from photometric work and celestial navigation to comet orbits and the secular perturbations of Mercury.

(E) *Geology and Geography*. Section E will meet jointly with the Geological Society of America, Association of American Geographers, and Industrial Minerals Division of American Institute of Mining and Metallurgical Engineers for seven sessions on Wednesday, Thursday, and Friday, 27-29 March, in Committee Rooms B, B-1, B-2, and A of the Kiel Auditorium. Carl Tolman is chairman of the local committee.

On Wednesday, 27 March, a symposium of ten papers on Pennsylvanian problems, organized by H. R. Wanless, will occupy two sessions: Part I, Strati-

graphic, meeting in Committee Room B at 9:00 A.M.; and Part II, Paleontologic, meeting in Committee Room A at 2:00 P.M. A session with seven papers on Industrial Minerals, organized by R. M. Foose, of the Industrial Minerals Division, A.I.M.E., will convene at 9:00 A.M. in Committee Room B, on Thursday, 28 March. The address of the retiring vice-president and chairman, Howard A. Meyerhoff, on "Geomorphology, the Inexact Science," will be delivered at 2:00 P.M. Thursday, 28 March, in Committee Room B. It will be followed by six papers on geomorphology, climatology, and geography, and will include a series of papers on geomorphic evolution of the Appalachian region. A symposium of eight papers on Pleistocene geology of the North Central states, convening at 9:00 A.M. Friday, 29 March, in Committee Room B-1, has been organized by Leland Horberg. Concurrently, a session devoted to General Geology will meet in Committee Room B-2. A session on Missouri geology, meeting in Committee Room B, has been organized by E. L. Clark for Friday at 2:00 P.M.

*Section E meets with Section K* for a joint session Wednesday afternoon (see program of Section K). On Thursday morning Section E also meets jointly with Sections O and K (see Section O program).

*For Saturday, 30 March, informal field trips* may be arranged through the local committee for those interested. The suggestions which have been made include inspection of the Paleozoic stratigraphic section near St. Louis, local glacial features, Saint Louis University Seismograph Station and Geophysical Institute, and features of interest on the Washington University campus.

(F) *Zoology.* The interests and activities of the Section on Zoology are closely identified with those of the American Society of Zoologists. The latter organization will hold its annual meeting at the Hotel Jefferson and at Washington University on 28, 29, and 30 March. In addition to a promising program of technical sessions, there will be several feature events. One is a symposium on "Dynamics of Production in Aquatic Populations," organized by A. S. Pearse and sponsored jointly by the Ecological Society of America and the Limnological Society of America. The session, including papers by Thomas Park, G. L. Clarke, R. W. Pennak, W. T. Edmondson, and W. E. Ricker, is scheduled for 2:00 P.M. Thursday in the Gold Room of the Hotel Jefferson. At the same time, in the Ivory Room, E. B. Babcock will address a joint session of the Society and Section G on "Crepis and Evolution." In conjunction with the Botanical Society of America, the Genetics Society of America, and the American Society of

Naturalists, a symposium on "Recent Advances in the Dynamics of Behavior," organized by K. S. Lashley, will be held in the Ivory Room at 2:00 P.M. Saturday.

*The American Society of Zoologists* will join the American Society of Naturalists and other biological groups in sponsoring the Biologists' Smoker to be held on Thursday, 28 March, at 9:00 P.M. in the Kiel Auditorium. Admission will be by AAAS registration badge.

*The annual dinner of the American Society of Zoologists*, to which all zoologists and friends are invited, will be held at 6:30 Friday evening, 29 March, in the Crystal Room of the Hotel Jefferson. Dr. Carl G. Hartman, vice-president and chairman of Section F, will deliver the annual address on "The Little Researcher."

*The North Central States Entomologists Branch* of the American Association of Economic Entomologists will meet at the Jefferson, starting at 1:30 P.M., 27 March. Thursday morning, in a joint meeting with the Entomological Society of America, Clyde Kearns will tell of the insect control work of the Office of Scientific Research and Development, and a discussion of the place of entomology in the National Science Foundation will follow. This meeting, as well as the general session scheduled for Friday morning, is followed by an afternoon of sectional meetings and conferences.

*The Entomological Society of America* is planning three days of meetings, starting at 10:00 A.M. Wednesday, 27 March. Headquarters and meetings will be in the Hotel Jefferson. In the Society's several sessions 24 technical papers will be presented, and on Thursday afternoon, after a short technical program, the Society will hold its annual business meeting. A meeting of the Executive Committee will be held Wednesday at 8:00 P.M. in Private Dining Room No. 5. Special features include the joint session with the North Central States Entomological Branch of the American Association of Economic Entomologists at 9:30 A.M. Thursday in the Crystal Room; the entomologists' banquet at 7:00 P.M. Thursday in the same room, to be followed by the address of the president of the Entomological Society of America, James A. G. Rehn; and a joint session with the Ecological Society of America at 9:30 A.M. Friday.

*The American Society of Parasitologists* will hold its twentieth annual meeting at St. Louis from 28 to 30 March, inclusive. Headquarters for the Society will be in the Hotel Jefferson, and except for the demonstrations, the technical sessions, involving the presentation of 69 papers, will take place in Private Dining Room No. 9 in this hotel. Special features

include the presidential address of Asa C. Chandler on "The Making of a Parasitologist," to be given at 11:00 A.M., 29 March. The address will be followed at 12:30 P.M. by the Parasitologists' luncheon, and a business meeting at 1:30 P.M. will precede the afternoon demonstration program.

(G) *Botany*. The several botanical and biological societies have arranged a crowded schedule of activities in which the Section on Botany, as such, will play a small, though important part. The Section will sponsor a joint session on Thursday at 2:00 P.M. in the Ball Room of the Hotel DeSoto, and other joint meetings involving two or more societies are features of the botanical sessions.

*The Botanical Society of America* will hold its fortieth annual meeting from 28 to 30 March, inclusive. The Statler Hotel will be official headquarters. The sessions of the several sections of the Society will begin Thursday morning and will run through Saturday afternoon.

*The all-botanists' dinner* is scheduled to take place on Thursday at 6:00 P.M. in the Statler. In addition to the joint meeting with Section G on Thursday afternoon, there will be other joint meetings with the American Society of Plant Physiologists, the Mycological Society of America, the American Society of Plant Taxonomists, the Ecological Society of America, and the American Society for Horticultural Science. Special symposia on photosynthesis, radioactive substances, mineral nutrition, paleobotany, and systematic botany are being arranged for the joint sessions, while the programs of the other sections will consist in large part of contributed papers of a technical character. A new section of the Society, the Microbiological Section, has been authorized by the Council and will hold its first meeting at St. Louis.

*The American Phytopathological Society* will meet on 27 to 30 March, inclusive, with headquarters and meetings at the Hotel Jefferson. The annual dinner of the Society is scheduled for Thursday evening. In addition to the joint session with Section G on Thursday afternoon, there will be joint meetings with the Potato Association of America on Friday morning and with the Mycological Society of America on Saturday morning. Ninety technical papers will be presented in the meetings of the Section on Fungicides, Viruses, Factors Affecting Disease Development, Forest Pathology, Genetics, Physiology of Pathogenic Fungi, Cereal Diseases, and Vegetable Diseases.

*The interests of the American Society of Plant Physiologists* and the Physiology Section of the Botanical Society of America are so closely identified that joint sessions of the two groups have been

scheduled for Thursday, Friday, and Saturday in parlors 102, 104, and 106 in the Statler. In addition to the joint session with Section G on Thursday afternoon, there will also be a joint session with the Section on Agriculture and the American Society for Horticultural Science on Friday, to consider "Mineral Nutrition of Plants and Animals." A dinner has been arranged for the physiologists on Friday evening at the Statler.

*The Mycological Society of America* will begin its sessions on Thursday at 9:00 A.M. in Room 4C of the Auditorium. A program of technical papers will follow the business meeting, and other technical sessions are scheduled in the same room for Friday morning and afternoon. On Thursday afternoon, in the joint session with Section G and the other botanical organizations, the address of the retiring president of the Society, Frank Kern, of Pennsylvania State College, will be given on the subject, "Some Bases for Mycological Progress." On Saturday morning there will be a joint session with the American Phytopathological Society and the Botanical Society of America. Thursday evening, following the dinners of the phytopathologists and botanists, there will be a joint meeting in Room 3A of the Auditorium to consider the formation of a general organization of biologists.

*On Friday at 6:00 P.M., a dinner will be given by Anheuser-Busch, Inc., at the company's brewery.* The dinner will be followed by a program of papers dealing with the scientific and practical aspects of yeast, to be led by Carl C. Lindegren at Washington University.

*The Sullivant Moss Society* will open its sessions with a breakfast on Friday morning, to be followed by a program of general papers and in the afternoon, by a symposium on the phytogeography of mosses, sphagna, hepatics, and lichens. On Saturday a field trip has been arranged for the members of the Society, who will journey to St. Genevieve County, about 80 miles south of St. Louis.

*The American Society of Plant Taxonomists* has arranged two joint sessions with the Systematic Section of the Botanical Society of America. These meetings will be held on Thursday and Friday mornings, and on Friday evening at 6:00 there will be a dinner of the Society, followed by an address by Francis W. Pennell.

(F-G) *Zoological and Botanical Sciences*. The program of the American Society of Naturalists starts on Thursday at 4:00 P.M. with a meeting of the Executive Committee at the Hotel DeSoto. The Society will meet with the Union of American Bio-

logical Societies at 8:00 P.M. Thursday evening in the Auditorium to consider plans for a Biological Institute, and this meeting will be followed by the Biologists' Smoker in the session rooms on either side of the Grand Lounge. A business meeting will occupy Saturday morning, and at 2:00 P.M., in the Ivory Room of the Hotel Jefferson, a joint session with the American Society of Zoologists, the Botanical Society of America, and the Genetics Society of America, on "Recent Advances in the Dynamics of Behavior," will be concluded by the presidential address of Edmund W. Sinnott on the subject, "Substance or System, the Riddle of Morphogenesis."

*The Ecological Society of America* will hold its thirtieth annual meeting from 28 to 30 March. In addition to technical sessions for the discussion of research on plant and animal ecology, the Society will join the American Society of Zoologists and the Limnological Society of America in a symposium on aquatic populations, scheduled for 2:00 P.M. Thursday in the Gold Room of the Hotel Jefferson. There will be a joint session with the Entomological Society of America at 9:30 A.M. Friday in the Crystal Room of the Jefferson, joint sessions with the Botanical Society of America at 9:30 A.M. and 2:00 P.M. on Saturday, a conference on the teaching of ecology at 9:30 A.M. on Friday, and a special program on applied ecology at 2:00 P.M. on Friday. The ecologists' dinner is scheduled for 7:00 P.M. Friday, and following the dinner, Robert F. Griggs, past president of the Society, will give an illustrated address on "Timberlines of North America and Their Significance." Saturday afternoon an excursion to the St. Louis Zoo has been planned.

*The program of the Genetics Society of America* will start with a demonstration program on Thursday morning at Washington University. In addition to technical sessions scheduled for Thursday and Friday afternoons at the Hotel Lennox, there will be a joint session with the Biometrics Section of the American Statistical Association on Friday morning, to consider "The Statistical Analysis of Hybrid Vigor." Invitational papers by Drs. Mirsky, Pöllister, Ris, Stern, Lindegren, Muller, Russell, and Douglass will be presented on Saturday morning, and on Saturday afternoon the Society will join the American Society of Naturalists in a joint session on "The Neurodynamics of Behavior." The annual luncheon and business meeting of the Society will be held Friday noon.

*For the American Microscopical Society* the program at St. Louis will constitute the sixty-second annual meeting. The Society program includes an Executive Committee luncheon on 28 March at 12:30

and the annual business meeting at 4:00 P.M. Friday. Headquarters and meetings will be in the Hotel Jefferson.

*The Limnological Society of America* will hold its annual meeting on Thursday and Friday, 28 and 29 March, with headquarters and session meetings in the Hotel Jefferson. On Thursday afternoon the Society will join with the American Society of Zoologists and Ecological Society of America in the presentation of a symposium entitled "Dynamics of Production in Aquatic Populations." The morning and afternoon sessions on Friday will be devoted to technical papers on limnology and closely allied subjects. The annual business meeting will conclude the Friday afternoon sessions.

*The National Association of Biology Teachers* will meet on 29 and 30 March. Headquarters will be established in the Hotel DeSoto, and on Friday business sessions will be held in Parlor D in this hotel. Following an address of welcome by Prevo L. Whitaker, president of the Association, at 10:00 A.M. in the Ball Room of the DeSoto, the regular Saturday sessions will be devoted to aspects of conservation. An address by Otis W. Caldwell on "Of What Does Good Biology Teaching Consist?" will conclude dinner at 6:30.

*The Union of American Biological Societies* has scheduled a joint meeting of the biological organizations participating in the St. Louis convention to consider plans for a Biological Institute. This meeting will be held at 8:00 P.M. Thursday in the Auditorium, immediately preceding the Biologists' Smoker.

*On 29 March the American Nature Study Society* will hold its forty-first annual meeting. The Society program, which is scheduled to start at 2:00 P.M. in the Hotel DeSoto, features a series of papers on "Conservation Education," to be followed by a general discussion under the chairmanship of E. L. Palmer, of Cornell University. The annual business meeting of the Society will be held at 8:00 P.M. in the Jefferson National Expansion Museum, with President Charles E. Mohr presiding. This meeting will be concluded with a showing of nature pictures.

*Beta Beta Beta* will meet in Parlor D of the Lennox Hotel Thursday afternoon, 28 March. There will be a luncheon at 12:30, followed by a memorial program for the late President C. E. McClung. The biennial business meeting and election of officers will conclude the session.

*Phi Sigma Society* will limit its activities to the meeting of the National Council. Starting at 8:00 P.M. Wednesday, the Council meetings will continue through Saturday morning in Parlor A at the Hotel DeSoto.

(I) *Psychology*. The Section on Psychology and the Midwestern Psychological Association will meet jointly on 28, 29, and 30 March. The meetings will be held in Rooms 3C and 3D of the Auditorium and will include 43 technical papers. On Thursday afternoon, in a joint session with Section Q (Education), Sidney L. Pressey, of Ohio State University, will deliver his address as retiring president of the Midwestern Psychological Association on the subject "Acceleration: Disgrace or Challenge." Florence Goodenough, of the University of Minnesota, will present her address as retiring vice-president of the Section on Psychology on the subject, "Semantic Choice and Personality Structure." The address of H. H. Remmers, of Purdue University, retiring vice-president of the Section on Education, on the subject, "You *Can* Change Human Nature," concludes the session. Of the technical sessions the two scheduled for Thursday morning will be concerned, respectively, with "Learning" and "Clinical and Abnormal Psychology." On Friday the morning program will be concerned chiefly with "Animal Psychology and Perception"; the afternoon program, with "Social Psychology." The Section and its affiliate will conclude their meetings with two sessions Saturday morning, dealing, respectively, with "Physiological Psychology" and "Psychological Tests."

Running concurrently with the Friday program of Section I and the Midwestern Psychological Association will be morning and afternoon sessions of the Society for Research in Child Development. Papers by L. W. Sontag, H. E. Jones, H. H. Anderson, R. J. Havighurst, Robert R. Sears, John E. Anderson, and others are scheduled for presentation in these sessions.

(K) *Social and Economic Sciences*. The Impact of Technology on Society will be the theme of six sessions sponsored by Section K. The meetings will begin on 27 March at 2:30 P.M. with a session in cooperation with Section E on "The Impact of Technology in Relation to Planning." Thursday morning a program on "Technology and Economic Organization" has been arranged in conjunction with the National Planning Association. The afternoon session, which was arranged by the Academy of World Economics, will consider "Technology and International Relations." Friday morning, in collaboration with the Department of Rural Sociology at the University of Missouri, Section K will give special attention to regional study, with emphasis upon the Missouri Valley problem. The Pi Gamma Mu luncheon will follow this session, and it will feature the address of S. Howard Patterson, who retires as chairman of Section K and vice-president of the Association, as well as an address on "Science and Religion" by Edwin

McNeill Poteat, president of the Rochester-Colgate Divinity School. The series will end Saturday morning with a session on "Human Conservation." Among the speakers in the several sessions are S. Colum Gillfillan, of the University of Chicago; Paul Greer, farm editor of the *St. Louis Post-Dispatch*; Harold Urey, of the University of Chicago; and F. B. Heinkel, president of the Missouri Farmers Association. The Academy of World Economics and the Pi Gamma Mu Society have cooperated in the preparation of the program, and the American Library Association has arranged a book exhibit on Science and Society.

The *American Statistical Association*, an affiliate of Section K, has arranged three symposia. The first, under the chairmanship of Fred J. Halton, Jr., of Deere and Company, is scheduled for 2:30 P.M., 27 March, and will deal with "Quality Control in American Industry." At 10:00 A.M. on Thursday, "Social Sampling and the Measurement of Opinion" will be the subject, with W. F. Ogburn, of the University of Chicago, in the chair. Participants in this program will include Samuel A. Stouffer, of the Social Science Research Council; George A. Gallup, of the American Institute of Public Opinion; and Philip M. Hauser, of the Department of Commerce. In the afternoon consideration will be given to "Personnel Selection by Psychological Tests," under the chairmanship of Capt. John G. Jenkins, of the Bureau of Medicine and Surgery, Navy Department. In addition to the three general sessions, the Biometrics Section of the Association will hold technical sessions dealing with the applications of statistical methods in biological work.

(M) *Engineering*. The Section on Engineering has planned no separate sessions for the St. Louis meeting, but the Industrial Minerals Division of the American Institute of Mining and Metallurgical Engineers has arranged a joint session with Section E on Thursday, 28 March, at 9:00 A.M. in Committee Room B of the Kiel Auditorium. Industrial minerals and rock products in the Central states will receive special consideration.

(N) *Medical Sciences*. The Section on Medical Sciences, in cooperation with the Council on Industrial Health of the American Medical Association, has organized a symposium on "Medical Science and Industry." One of the outstanding developments of the war has been an appreciation of the expanding concept of the field of industrial health, encompassing both the physical well-being and the mental outlook of the worker. The use of raw materials and intermediates which have heretofore been laboratory curiosities or little more than formulae on paper has exposed war workers to physical and chemical agents

of unknown action. Despite precautions, scientists could not always predict the lethal action of their creations; and prompt rehabilitation of injured workers was essential to vital production. Mental adjustments to the speed-up of the emergency worked untold psychic upsets and created new mental problems. In four sessions, scheduled for the mornings and afternoons of 27 and 28 March, the Section will review these war problems and the contributions of medical science to their solution, in the belief that such a view will aid in the development of a positive health program in industry during the postwar period. A total of 19 papers will be presented by outstanding investigators on the general topics of atomic energy, trauma, occupational restoration and positive health in employment procedures, and industrial medicine as a special discipline and industrial toxicology. The address of the retiring vice-president, Warfield T. Longcope, entitled "The Importance of Researches Upon War Gases to Clinical Medicine," will bring the symposium to a close. All sessions will be held in Room 1807 of the auditorium of the Washington University School of Medicine, 4580 Scott Avenue.

*Alpha Epsilon Delta*, national honorary premedical fraternity, in conjunction with Section N (medical sciences), is arranging a special program on premedical advisory problems for the AAAS meeting in St. Louis. The symposium will be held in the Coronado Hotel at 1:30 P.M., Friday, 29 March.

Dr. Carlyle F. Jacobsen, Assistant Dean, Washington University School of Medicine, St. Louis, will present a thorough discussion of the use and measurement value of the various *objective* methods of investigating the educational background of the student. This will be followed by a discussion by Dr. George T. Harding, School of Medicine, The Ohio State University, Columbus, of the personality traits to be found and recognized in recommending students for the study of medicine. The second half of the program will deal with the length and content of the premedical curriculum. Dean Stanley Dorst, School of Medicine, University of Cincinnati, will present the point of view of the medical school and Dr. William H. Cole, Rutgers University, New Brunswick, New Jersey, that of the liberal arts college.

The discussion will be directed to answering questions directly related to the problems concerned with the preparation of students for the study of medicine and the selection of candidates for recommendation and admission. All interested medical and premedical educators and students are invited to attend and participate in the symposium.

(O) *Agriculture*. The Section on Agriculture has planned a symposium jointly with the Section on Geol-

ogy and Geography and the Section on Social and Economic Sciences for Thursday at 9:00 A.M. in Room 3A of the Auditorium. The symposium will give consideration to modern concepts of soils, factors causing divergence in soil properties during soil formation, the relation of soils to plant growth, and the relation of soils to the distribution of human populations. At 2:00 P.M. Friday, on the 15th floor of the DeSoto Hotel, the Section will join with the American Society for Horticultural Science, the American Society of Plant Physiologists, and the Physiological Section of the Botanical Society of America for a program of papers dealing with "Soils in Relation to the Nutrition of Plants, Animals, and Man." Attention will be focused on cellular and tissue metabolism, nutritional deficiencies of farm animals as related to soil and crop composition, nutritional diseases of man in relation to geographic areas, and the importance of soil fertility in human welfare. The last subject will be the theme of the address of the retiring vice-president and chairman of Section O, William A. Albrecht, whose paper will conclude the program.

*The Potato Association of America* will meet jointly with the American Society for Horticultural Science on Thursday and with the American Phytopathological Society on Friday.

*The American Society for Horticultural Science* will begin its activities on Thursday morning with two sessions—one of them the joint meeting with the Potato Association of America, and the other, a general session on pomology. Thursday afternoon a general session on chemical weed control will be followed by a joint session with the Biometrical Section of the American Statistical Association. Thursday evening has been set aside for round-table discussions on Plant Genetic Stocks. Simultaneous sessions on pomology, vegetables, and floriculture and ornamental horticulture will occupy Friday morning, and Friday afternoon has been set aside for the joint symposium on "Mineral Nutrition of Plants and Animals." The annual banquet of the Society is scheduled for 6:30 P.M. Friday, when W. B. Mack, of Pennsylvania State College, will deliver his retiring presidential address. At 9:30 there will be a round-table panel discussion on Teaching Methods. Saturday morning the schedule calls for simultaneous sessions on vegetables, pomology (propagation), and fruit storage and processing. The meetings of the Society will be concluded Saturday afternoon with a general business session, followed by two technical sessions on nuts and small fruits.

(Q) *Education*. Five sessions of Section Q are planned, beginning at 9:30 Wednesday morning, 27

March, and closing at noon on Friday. Included is a joint meeting on Thursday afternoon with Section I and the Midwestern Psychological Association, at which time Florence L. Goodenough, retiring chairman of Section I, H. H. Remmers, retiring chairman of Section Q, and Sidney L. Pressey, president of the Midwestern Association, will be heard. The other sessions will be concerned with various aspects of educational and personnel programs in the Armed Services by those who were prominently identified with them. In this connection, Ralph Bedell (Nebraska), Henry Beaumont (Kentucky), Guy Bond (Minnesota), Alonzo Grace (American Council on Education), Shailer Peterson (Chicago), Raleigh Schloring (Michigan), and William Spaulding (Houghton Mifflin Company) may be mentioned. Other topics, such as the educational reorientation of veterans, guidance and adjustment in the public schools, postwar education, self-teaching materials, discipline, teaching efficiency, the curriculum, and the like, will round out the offerings of this Section. Owing to the importance of the subjects dealt with, a deliberate attempt has been made to prevent the overcrowding of any session with miscellaneous papers.

(X) *Science in General.* The graduate women's scientific fraternity, Sigma Delta Epsilon, will hold a National Council meeting starting at 2:00 P.M., 27 March, in Parlor 106 of the Hotel Statler. The Council will remain in session through Friday morning. On Thursday, Virginia Bartow, of the University of Illinois, will speak on the subject, "American Women in Chemistry," at the luncheon for All Women in Science, and the Friday meeting of the Council will be preceded by a breakfast and the annual business meeting of the fraternity.

The National Science Teachers Association has arranged a series of meetings in partial collaboration with the Cooperative Committee of the AAAS, the National Council of Teachers of Mathematics, the Central Association of Science and Mathematics Teachers, the American Nature Study Society, and the National Association of Biology Teachers. Following committee and business meetings on Thursday afternoon and evening, a general session of the Association will be held Friday morning at the Christ Church Cathedral (1210 Locust Street). The other sessions will be held in the Hotel DeSoto. On Friday afternoon recent studies and developments affecting science teaching in colleges and secondary schools will be considered. At the Leaders' dinner which will follow the afternoon session, there will be a discussion of "Unity and Action in Science Education." Saturday will be devoted to a consideration of "Science in

the School Curriculum." Starting with a joint session at which A. J. Carlson will be the main speaker, the meeting will be continued in group sessions, one for each of the cooperating societies. The afternoon session will be conducted in the same manner, with Ira Gabrielson as the principal speaker at the joint session. The Association will join with the National Association of Biology Teachers for dinner Saturday evening and for the address by Otis W. Caldwell. The Board of Directors of the National Science Teachers Association is scheduled to meet on Sunday after the regular sessions have been concluded.

#### Additional Notes

*Other Societies and Sections* have indicated their intention to hold sessions at St. Louis, but they have not submitted statements of plans as this issue of *Science* goes to press.

*Last-minute corrections and additions to the program* will be announced in *Science*. In order to expedite this late news the secretaries or others responsible for the arrangements should forward the original of an announcement to Dr. Howard A. Meyerhoff, Smithsonian Institution Building, Washington 25, D. C., and a carbon copy to the Editor of *Science*, Massachusetts and Nebraska Avenues, Washington 16, D. C.

*The Meeting 27-30 March 1946 is the fifth St. Louis meeting.* The Association first met in St. Louis in 1878, when 134 members were registered and 103 papers read. The total membership of the Association was 558 at that time.

*Scientists of the St. Louis area were hosts to AAAS* in 1903 and 1919 for the second and third times.

*Saint Louis University began its work in 1818*, three years before Missouri was admitted to the Union.

*Washington University was first chartered as Eliot Seminary in 1853.*

*The Academy of Science in St. Louis was founded in 1856.*

*The fourth St. Louis meeting* was held during the Christmas holidays in 1935. Approximately 2,300 people were registered and 1,200 papers read. There were 47 associated societies in session at the same time, and the total membership of the Association had grown to 18,102.

*The fourth St. Louis meeting, 1935*, was held in part in then unfinished St. Louis Municipal Auditorium. Reports from that time indicate that many last-minute changes in the program were necessitated by the unfinished condition of the building. Washington University, on learning of the situation, placed its entire plant and facilities at the disposal of Henry



B. Ward, who was at that time permanent secretary of the Association.

*President Karl T. Compton* of the Massachusetts Institute of Technology, presided at the general sessions at the fourth St. Louis meeting in 1935.

*Since the Association last met in St. Louis*, the name of the St. Louis municipal auditorium has been changed to the Kiel Memorial in honor of the long-time mayor of St. Louis.

*The Society of Sigma Xi* held its fourteenth annual meeting as an affiliate of AAAS under the leadership of Professor G. H. Parker, president of the society, at the 97th meeting of the Association in 1935.

*The first annual lecture of Phi Beta Kappa* as an affiliate of AAAS, was delivered in 1935 by William Allen Neilson, president of Smith College.

*At the St. Louis meeting* of the American Association of University Professors, 1935, Dr. A. J. Carlson, chairman of the Department of Physiology, University of Chicago was elected president for 1936. Dr. Karl T. Compton made the address at the annual luncheon.

*Dr. Harold G. Moulton*, president and director of the Brookings Institution, spoke at the Thursday evening General Session on "The Scientific Method in the Investigation of Economic Problems."

*Edwin Grant Conklin* was elected president of the Association for 1936 at the St. Louis meeting.

*There were 25 requests for grants-in-aid* in 1935 totalling \$9,000, but the Committee regretfully announced through its Chairman, Walter R. Miles, that only \$3,000 was available for this purpose.

*The greenhouses of the city botanical garden* show many improvements over their condition 10 years ago when the Association last met in St. Louis. Special floral displays have been arranged for the period 27-30 March.

*The entire orchid collection*, about 20,000 plants, of the Missouri Botanical Garden is now housed in the arboretum at Gray Summit on the northern fringe of the Ozarks overlooking the Meramee River.

*The Washington University cyclotron* is housed in a special building near Crow Hall. It is understood that visitors will be welcome during the period of the fifth St. Louis meeting.

*Saint Louis University* is especially noted for its work in medicine and seismology. It was the first institution in the world to establish a department of geophysics, and is still the only university in the United States to have a separately organized department of this kind.

*The reptile and bird houses* of the St. Louis zoological gardens are considered the best in the world.

*A modern greenhouse* known as the "Jewel Box," is located at the municipal Forest Park, which also contains the Art Museum and the Jefferson Memorial within its 1400-acre tract.

*The casual visitor as well as the engineer* will be interested in the visible evidence of the effectiveness of St. Louis' smoke abatement ordinance.

*As Science goes to press* news reaches us that Carl Snyder, vice-president of Section K, died in Santa Barbara, California, 15 February.

## Science Legislation

### The National Science Foundation: S. 1850, Final Senate Bill

Howard A. Meyerhoff

*Executive Secretary, AAAS, Washington, D. C.*

SCIENCE HAS ENDEAVORED to keep its readers informed on the progress of science legislation. Although it is possible to piece together a coherent story from the reports, texts of bills, and news items which have been published, the task is difficult, and there are not many who have the time to undertake it. In the belief that the legislative situation will be a topic of widespread discussion at St. Louis, a factual summary and analysis may

prove useful as a background for such discussions as occur.

Although science has played an important role in many government departments, it was not until 1945 that it featured in Congress. About three years ago Senator Kilgore, of West Virginia, drafted a bill for which scientists and the Congress were not prepared. Its premature appearance and its defects, in combination, were more than this bill could survive. One