

SPECIAL ISSUE CONTAINING THE PRELIMINARY ANNOUNCEMENT OF THE SECOND
NEW ORLEANS MEETING OF THE AMERICAN ASSOCIATION FOR THE ADVANCE-
MENT OF SCIENCE AND ASSOCIATED SOCIETIES, DECEMBER 28, 1931, TO
JANUARY 2, 1932. EDITED BY DR. CHARLES F. ROOS,
PERMANENT SECRETARY

SCIENCE

VOL. 74

FRIDAY, NOVEMBER 27, 1931

No. 1926

<i>The American Association for the Advancement of Science:</i>	
<i>Preliminary Announcement of the Second New Orleans Meeting:</i> DR. CHARLES F. ROOS.....	525
<i>Important Notices for those Planning to Attend.....</i>	527
<i>The American Association Press Service.....</i>	527
<i>The American Association Prize.....</i>	528
<i>Scientific Sessions of Sections and Societies.....</i>	528
<i>General Officers of the Association for the Calendar Year 1931.....</i>	536
<i>Obituary:</i>	
<i>Edward Hopkins Jenkins:</i> DR. W. E. BRITTON; <i>Memorials; Recent Deaths.....</i>	537
<i>Scientific Events:</i>	
<i>Expected Measles Epidemic; Weather Conditions in the North Polar Regions; The Wild-Life Problem of the National Park System; Retirement of Dr. Charles Wardell Stiles.....</i>	539
<i>Scientific Notes and News.....</i>	541
<i>Discussion:</i>	
<i>Is the Embryo Sac a Megaspore?</i> PROFESSOR R. B. THOMSON. <i>Work and Bodily Fatigue:</i> PROFESSOR S. R. WILLIAMS. <i>Effects of Breed on Embryo Size in the Domestic Fowl and the Rabbit:</i> THEODORE C. BYERLY. <i>Oestrus-Producing Hormones:</i> DRS. G. F. MARRIAN and A. BUTENANDT. <i>An Addition to the Herpetological Fauna of Kansas:</i> J. ERIC HILL. <i>Do Peanut or Arachis Nut-fed Hogs Yield</i>	

<i>Lards Containing Arachidic Acid?</i> PROFESSOR AUGUSTUS H. GILL and GORDON T. VAALA. <i>A Motor Found in Nature:</i> PROFESSOR OLUS J. STEWART	544
<i>Scientific Apparatus and Laboratory Methods:</i>	
<i>An Improved Drop Recorder:</i> PROFESSOR O. S. GIBBS. <i>Film Lantern Slides:</i> OTTO GLASSER.....	549
<i>Special Articles:</i>	
<i>On Reflex-Hyperlipaemia:</i> DR. Y. D. KOSKOFF and PROFESSOR J. G. DUSSEY DE BARENNE. <i>Variations in Holopedium Species:</i> PROFESSOR KATHLEEN E. CARPENTER. <i>Manganese and the Growth of Lemna minor:</i> DR. E. F. HOPKINS.....	550
<i>Science News</i>	10

SCIENCE: A Weekly Journal devoted to the Advancement of Science, edited by J. MCKEEN CATTELL and published every Friday by

THE SCIENCE PRESS

New York City: Grand Central Terminal

Lancaster, Pa.

Annual Subscription, \$6.00

Garrison, N. Y.

Single Copies, 15 Cts.

SCIENCE is the official organ of the American Association for the Advancement of Science. Information regarding membership in the Association may be secured from the office of the permanent secretary, in the Smithsonian Institution Building, Washington, D. C.

AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE

PRELIMINARY ANNOUNCEMENT OF THE SECOND NEW ORLEANS MEETING

Edited by Dr. CHARLES F. ROOS

PERMANENT SECRETARY

THIRTY-FOUR scientific societies and the fifteen sections of the American Association will hold scientific sessions in New Orleans in convocation week. This is the second New Orleans meeting, the first being held in December, 1905.

Tulane University and the Convention Bureau of the New Orleans Chamber of Commerce have united in preparations for the meeting this year. These have been able to secure financial backing in the raising of local funds to meet such expenses as lanterns and operators, screens, shutters, blackboards, clerks and attendants, printing of the general program, rent on meeting places, and other general expenses of the local committee. Tulane University will give the gen-

eral reception and furnish certain clerical help. The city council of New Orleans has graciously appropriated funds to pay the rent on the splendid new Municipal Auditorium so that it will be available for evening lectures, scientific exhibits and certain joint sessions and symposia.

Some of the scientific sessions will be held in the hotels, the Municipal Auditorium and the Tulane Medical School, which are down-town, but most of them will be held at Tulane University, which is about four miles up-town from this group. A short article giving hotel assignments of societies and some interesting material concerning the host institution, Tulane University, appeared in SCIENCE for October 23.

This second New Orleans meeting will be the eighty-ninth of the American Association and the annual meeting for the association year 1931-32, which began October first. Meetings of the executive committee and council will occur during the meeting week. Fifteen vice-presidents and numerous other officers of the association will be elected at this time.

The general program of the meeting, published under the auspices of the association, will be available on Monday at 9:00 A. M. and throughout the week at the association's registration office in the Venetian room of the Hotel Roosevelt. This book will be supplied free to all who register and may be purchased by others. Any person who does not attend the meeting may have a free copy of the program sent by mail if a request is addressed to the permanent secretary's office, Smithsonian Institution Building, Washington, D. C. It is usually not feasible to mail these programs until about January 10.

Numerous conducted excursions to the historical Vieux Carré, the famous French restaurants, the Cabildo and other points of interest will make the New Orleans meeting unique. (See SCIENCE, November 20, 1931.) Many families throughout the United States have signified their intention of spending the Christmas holidays in the pleasant, balmy climate of this Southern city. Because of this expressed desire of its members the association has been able to arrange with the railroads to sell convention tickets as early as December 20 from some points of the United States. Pre-Christmas selling dates have been secured for all points of the United States. It is hoped that many will take advantage of this opportunity to see New Orleans at a time when its climate is most delightful.

The American Association has arranged with the railway organizations for reduced railway rates at fare and a half for the round trip on the usual certificate plan. Any one may take advantage of these rates by securing a certificate for the A.A.A.S. meeting when purchasing his ticket to New Orleans. These will be on sale early enough to allow most members to spend Christmas in New Orleans if they so desire. Any one purchasing a ticket should be sure to secure a certificate for the *New Orleans meeting of the American Association for the Advancement of Science* and bring the certificate with him to the A.A.A.S. registration office. There will also be available short-limit winter tourist excursion fares (See SCIENCE for November 20). Many societies will maintain their own registration offices, but railway certificates can be validated only at the A.A.A.S. registration office in the Hotel Roosevelt. The association regularly charges a registration fee of \$1 to its members and \$2 to others. This fee is used to pay a

small part of the cost of a meeting. The registration office will open on Monday morning, December 28, at 9 o'clock and will remain in operation throughout the week; hours from 9 to 6.

The second New Orleans meeting will be held under the presidency of Dr. Franz Boas, of Columbia University. Dr. Boas is known throughout the world for his many valuable contributions to anthropology. Dr. Boas will deliver an address and lead an important symposium on "Growth" at a joint session of Sections H (Anthropology), K (Social and Economic Sciences), and N (Medical Sciences). The retiring president this year is Dr. Thomas Hunt Morgan, of the California Institute of Technology. Dr. Morgan's contributions to zoology have been monumental. He will deliver the first of a series of five lectures at the opening general session on Monday evening, December 28, in the Municipal Auditorium.

The Sigma Xi lecture will be given at a general session on Tuesday evening at the same auditorium. The lecture will be by Dr. C. F. Hirshfeld, of the Detroit Edison Company.

Other general lectures will be given at the Municipal Auditorium on Wednesday, Thursday and Friday evenings by preeminent scientists. On Wednesday evening Dr. Richard Strong, of Harvard University, will deliver an address on some topic in tropical medicine. Professor Floyd Nagler, of the University of Iowa, will deliver the Thursday evening address on the general subject of "Engineering Problems of the Mississippi River." Professor Irving Fisher, of Yale University, will deliver the concluding lecture of the series on Friday evening on the topic, "First Principles of Booms and Depressions."

The annual Josiah Willard Gibbs lecture, arranged by the American Mathematical Society, will be given at a general session on Tuesday afternoon. The lecturer, Dr. P. W. Bridgman, of Harvard University, will speak on the topic "Statistical Mechanics and the Second Law of Thermodynamics."

Preliminary information indicates that there will be an unusually large number of joint sessions and symposia at New Orleans. Arrangements have already been made for at least twenty such sessions. A general session is being planned on the various aspects of aquiculture, the growing of plants and animals in water. The Committee of One Hundred on Scientific Research is planning to hold a session on "Scientific Research."

The New Orleans reception will be held on Monday evening following the opening evening lecture of the retiring president, Dr. T. H. Morgan. Admission to the reception will be by card obtained at the registration desk in the Roosevelt Hotel.

The regular exhibition of apparatus, books and products useful in science teaching or research by com-

mercial houses will be held in the Venetian room of the Hotel Roosevelt. Those contemplating the purchase of such items can well afford to go to New Orleans just to visit this exhibit. An early sell-out of space indicates an unusually complete exhibit.

It is expected that the scientific exhibition of research methods and achievements of research which was so successful at Cleveland will be greatly enlarged. Several scientific institutions have already signified their desire to place scientific exhibits in the general scientific exhibition, which will be held in the Municipal Auditorium. Exhibit space, power and power outlets, booths, tables, and so forth, will be furnished free to research exhibitors. Scientists who are doing research which can be exhibited are invited to write at once to Dr. F. C. Brown, the chairman of the Scientific Exhibits Committee of the association in care of the permanent secretary.

IMPORTANT NOTICES FOR THOSE PLANNING TO ATTEND

Those who plan to attend this meeting should engage hotel rooms at once, addressing the hotels. Whether the room desired is to be occupied by one or two persons should be stated, also the approximate price which the applicant wishes to pay and the date on which the room is to be occupied. If the sort of room requested is not available for the given date, the hotel management will refer the request to the New Orleans Convention Bureau, which will tentatively assign a suitable room in another hotel, informing the applicant by letter. If the applicant does not wish to accept the assignment thus given, he should inform the convention bureau, which will do its utmost to comply with his wishes. Approved hotels are the following. Roosevelt (general headquarters), St. Charles, Monteleone, Jung, Marberc, De Soto, Bienville, La Salle, Chalmette, Lafayette, and Ponchartrain Apartment Hotel. All these hotels are close together and convenient to the Municipal Auditorium and the Tulane Medical School. An article giving more complete information in regard to hotels appeared in *SCIENCE* for October 23.

When purchasing your railway ticket to New Orleans, be sure to secure a certificate for the New Orleans meeting of the American Association for the Advancement of Science, and bring the certificate with you to the registration offices for the meeting.

THE AMERICAN ASSOCIATION PRESS SERVICE

(By *Austin H. Clark*)

Deep appreciation of and gratitude for the increasingly cordial spirit of cooperation toward the Press Service on the part of the members of the

association is the outstanding emotion that arises in the mind of the director of the Press Service as the time for the New Orleans meeting draws near. And the keenness of this emotion is intensified by the knowledge that the top-sergeant attitude of the director must to many be obnoxious. This attitude—in reality quite foreign to his nature—is necessitated by the duties and responsibilities of his position. So instead of apologizing for it, he begs that the members will be so indulgent as to continue to regard him as an involuntary, though persistent, sinner.

The Press Service of the American Association for the Advancement of Science provides the representatives of the press with material from which they are enabled to prepare readable, accurate and timely items of scientific news. It brings scientific workers and the representatives of the press together so that they may assist each other in placing before the American public a true story of the progressive advance of science in this country.

In connection with the New Orleans meeting, as has been the case with previous meetings, the manuscripts and abstracts received from those who are to present papers will be made available to the press representatives as soon as they are received, in order that they may have ample time in which to go over them and study them. The earlier a paper is received the more time there is for studying it. This insures accuracy in the subsequent presentation of the subject-matter.

So all who are to present papers at New Orleans are requested to send, as soon as possible, *two* copies of their manuscripts, each accompanied by an abstract, to the A.A.A.S. Press Service, Smithsonian Institution Building, Washington, D. C. A single copy will not suffice, and both copies are to be sent to the same address.

The manuscripts sent to the Press Service of the association are not for publication as such. They are solely for the use of press representatives in the preparation of news items or features. They are regarded as confidential, and no one, except for properly accredited press representatives and members of the Association's Prize Committee, is allowed access to them.

No news story is released for publication in the press before the date on which the paper is read, no matter how long in advance it may have been prepared.

So far as possible the Press Service endeavors to supply the press with such additional information as will be advantageous in the proper presentation of a news item, and it also aids them in securing interviews with authors when such interviews are requested.

All manuscripts intended for use in connection with the New Orleans meeting should reach Washington not later than December 20 and if possible before December 15. Manuscripts arriving late may not receive attention. The best science stories are written long before the meeting opens, when the writers have ample time for consultation and study in their preparation.

Both manuscripts and abstracts should be written in the simplest possible language, in such a way as to be readily understood by any educated person with no detailed knowledge of the subject treated. Especially should the broader aspects of the subject be presented, and its possible bearing on work in other lines and on thought in general.

The director of the Press Service is ready at all times to answer questions concerning the work of the service and to aid authors so far as is possible. But it must be remembered that for about two weeks before the meeting begins he is extremely busy, and it is quite impossible for him to do justice to all communications.

The press is by far the most important medium for the dissemination of scientific knowledge among the people as a whole. Realizing their responsibilities both toward the public and toward science, the press maintains a special corps of science writers whose duty it is to insure the proper presentation of scientific news and items. Consequently it has now become a duty of scientific men to do their part and to assist the press, to the end that their findings may be clearly and accurately set before the public.

THE AMERICAN ASSOCIATION PRIZE

The ninth annual award of the American Association prize, of one thousand dollars, will be made to the author of a noteworthy paper at New Orleans. Through the generosity of a member who prefers to remain anonymous, eight of these prizes have thus far been awarded. In making the award no attempt will be made to select the "best" paper presented, for useful comparisons are not possible in different fields of science; the intention is simply that the prize shall be awarded to the author of some notable contribution presented at New Orleans. It is not necessary that the author be a member of the association. All papers appearing in the General Program are automatically eligible, excepting certain invited papers on general programs and presidential and vice-presidential addresses, which are not eligible. The donor of the prize desires to aid younger authors by means of the prize rather than to honor older men.

The secretary in charge of each scientific program will be expected to present one or more nominations for consideration by the prize committee. There is to be no open competition and no submitting of papers

for the prize. It is supposed, however, that manuscripts of papers that may possibly be considered by the committee on prize award will all be in the hands of the Press Service, through the arrangements described above. Secretaries should examine the manuscripts that have been received by the Press Service, which will have offices near the registration desks. Nominations are to be in writing, signed by the secretary who sends them, and they are to be addressed to the Committee on Award, care of Mr. Sam Woodley, at the registration offices, or else they may be sent to Mr. Woodley in the Hotel Roosevelt.

The permanent secretary and the other general officers of the association have nothing at all to do with the award, nor can they be in position to give out any information concerning the nominations until after the award has been officially announced. The proceedings of the committee on prize award are to be strictly confidential.

A list of the names of those to whom the association prize has been awarded is shown below, together with the topics dealt with in the winning papers.

- (1) The Cincinnati award, January, 1924. L. E. Dickson, for contributions to the theory of numbers.
- (2) The Washington award, January, 1925. Divided equally between Dr. Edwin P. Hubble, for contributions on spiral nebulae, and Dr. L. R. Cleveland, for contributions on the physiology of termites and their intestinal protozoa.
- (3) The Kansas City award, January, 1926. Dr. Dayton C. Miller, for contributions on the ether-drift experiment.
- (4) The Philadelphia award, January, 1927. Dr. George D. Birkhoff, for mathematical criticism of some physical theories.
- (5) The Nashville award, January, 1928. H. J. Muller, for contributions on the influence of x-rays on genes and chromosomes.
- (6) The New York award, January, 1929. Oliver Kamm, for contributions on the hormones of the pituitary gland.
- (7) The Des Moines award, January, 1930. A. J. Dempster, for contributions on the reflection of protons from a calcite crystal.
- (8) The Cleveland award, January, 1931. M. A. Tuve, L. R. Hafstad and O. Dahl, for contributions on the production of beta rays and gamma rays by means of high-voltage vacuum-tubes.

SCIENTIFIC SESSIONS OF SECTIONS AND SOCIETIES

Note.—Names of organizations are arranged in the order of association sections. Each affiliated society has one or two representatives in the association council, as indicated by one or two asterisks before the society name. A cross before a name indicates that the society is associated but not affiliated. The vice-

president, retiring vice-president and secretary are named for each association section, the president and secretary are named for each society, and the council representatives for the affiliated societies. Dates of meetings are to be read as inclusive.

Hotel headquarters of societies have been announced in an article entitled "The Host Institution and Hotel Headquarters," which appeared in *SCIENCE* for October 23. For more complete information the General Program of the meeting, which will be available at the registration desk on Monday morning, December 28, should be consulted.

A. Mathematics.

A-1—Section A of the Association. December 28-31.

Vice-president, E. R. Hedrick; *retiring vice-president*, G. A. Bliss; *secretary*, C. N. Moore.

A-2—**American Mathematical Society. December 28-30.

President, L. P. Eisenhart; *secretary*, R. G. D. Richardson; *council representatives*, Louis Ingold and Mark H. Ingraham.

A-3—**Mathematical Association of America. December 31.

President, E. T. Bell; *secretary*, W. D. Cairns; *council representatives*, W. D. Cairns and Dunham Jackson.

On Tuesday morning, December 29, there will be a joint meeting of the American Mathematical Society, the American Physical Society, Section A and Section B, at which Professor G. D. Birkhoff, of Harvard University, and Dr. W. F. G. Swann, of Franklin Institute, will speak at the joint request of the various organizations concerned. On Tuesday afternoon there will be a joint session of the American Physical Society, the American Mathematical Society, the Mathematical Association of America and Section A of the A.A.A.S., at which the retiring vice-president for Section A, Professor G. A. Bliss, of the University of Chicago, will deliver an address on "The Calculus of Variations of the Quantum Theory." Later, on Tuesday afternoon, the ninth annual Josiah Willard Gibbs lecture, under the auspices of the American Mathematical Society and the American Association, will be delivered by Professor P. W. Bridgman, of Harvard University. On Thursday morning there will be a joint meeting of the American Mathematical Society, the Mathematical Association of America and Section A, at which the retiring president of the first-named organization, Professor E. R. Hedrick, of the University of California at Los Angeles, will deliver an address, as will also a representative of the Mathematical Association. On Monday and Wednesday mornings and Monday afternoon

there will be sessions of the American Mathematical Society for the presentation of research contributions. On Thursday afternoon there will be a session of the Mathematical Association of America for the presentation of a number of invited papers. On Thursday afternoon, either before or after the meeting of the Mathematical Association, Section A will join with Section K for an address by Dr. E. B. Wilson on certain mathematical phases of growth analysis. Wednesday afternoon is being reserved for an excursion, and an informal dinner for the mathematics group is scheduled for Wednesday evening. A joint dinner of the mathematical organizations will be held on Wednesday evening, at 6:30, at the Patio, which is one of the famed New Orleans restaurants. This dinner will follow a conducted tour of the Vieux Carré.

B. Physics.

B-1—Section B of the Association. December 30.

Vice-president, Bergen Davis; *retiring vice-president*, F. K. Richtmyer; *secretary*, A. L. Hughes.

B-2—**American Physical Society. December 29-30.

President, W. F. G. Swann; *secretary*, W. L. Severinghaus; *council representatives*, W. L. Severinghaus and W. F. G. Swann.

B-3—*American Meteorological Society. December 28-30.

President, John Patterson; *secretary*, Charles F. Brooks; *council representative*, W. J. Humphreys.

B-4—**American Association of Physics Teachers. December 31.

President, H. L. Dodge; *secretary*, William S. Webb.

Section B will hold joint meetings with the American Physical Society and the American Meteorological Society. The section has arranged to have two addresses: (1) that of the retiring vice-president, Professor F. K. Richtmyer, on "The Romance of the Next Decimal Place," and (2) that of Dr. H. H. Kimball, of the Weather Bureau, on "Solar Radiation as a Meteorological Factor." At meetings of the American Meteorological Society there will be discussions of the "Airways Weather Service" and "Storm Tides and Coastal Currents Developed by Tropical Cyclones." Dr. W. F. G. Swann, president of the American Physical Society, will deliver an address before it. A symposium on certain topics in mathematics of interest to physicists is being arranged in conjunction with Section A. (See Section A.) There will be a joint session of Sections B and E, the American Physical Society and the Society of Petroleum Geophysicists for invited papers on geophysics. There will also be the regular program of ten-minute

contributed papers extending over three half days. There will be conducted tours through the Vieux Carré and to other points of interest.

The program of the American Association of Physics Teachers will consist of a session devoted to invited papers dealing with various phases of the most recent developments in the teaching of physics and a demonstration of apparatus having special teaching value. Dr. Harvey B. Lemon will deliver an address on "The New Physical Sciences Program at the University of Chicago."

C. Chemistry.

C-1—Section C of the Association. December 29.

Vice-president, Charles Albert Browne; *retiring vice-president*, James F. Norris; *secretary*, R. R. Renshaw.

It is planned that Section C will hold at least two sessions at the New Orleans meeting. One of these will deal with the importance of some of the minor constituents of the atmosphere as related to their chemical and biological significance and to the problems of atmospheric pollution.

It is hoped that another meeting will be held jointly with the New Orleans section of the American Chemical Society, in which recent developments of the leading chemical industries in the South will be discussed.

D. Astronomy.

D-1—Section D of the Association. December 29.

Vice-president, Joseph H. Moore; *retiring vice-president*, D. W. Morehouse; *secretary*, Philip Fox.

See announcement of Section L.

E. Geology and Geography.

E-1—Section E of the Association. December 30–January 2.

Vice-president, Douglas W. Johnson; *retiring vice-president*, Edson S. Bastin; *secretary*, Kirtley F. Mather.

E-2—Society of Petroleum Geophysicists. December 30.

President, Donald C. Barton.

A regional committee under the chairmanship of Professor R. A. Steinmayer, of Tulane University, has been organized and a symposium on the "Geology of the Gulf Coastal Prairies" is planned for the Friday afternoon meeting. The address of Professor Edson D. Bastin, of the University of Chicago, retiring vice-president of the section, will be delivered at the afternoon meeting. The annual dinner for geologists and geographers will be held on Friday evening. Saturday, January 2, will be devoted to a field trip to the salt domes and mines of the Teche country. Those taking the trip will board a Pullman

in New Orleans, after the dinner on Friday evening, for New Iberia, Louisiana, and may return to New Orleans Saturday evening. Those interested in the field trip should communicate directly with Professor Steinmayer at the earliest opportunity. Section E will join with the members of the American Physical Society and other organizations in a joint session for the presentation of papers dealing with geophysics on Wednesday, December 30, and arrangements will be made for short field excursions on Thursday, December 31. Arrangements have been made for special diverse-route fares on the round-trip identification plan, which will make it possible for geologists to purchase tickets from their homes direct to Tulsa, Oklahoma, for the meeting of the Geological Society of America and the American Association of Petroleum Geologists at that place, from December 28 to 31, and return *via* New Orleans, stopping there for the meetings of Section E on January 1 and 2.

F. Zoological Sciences.

F-1—Section F of the Association. December 28–January 2.

Vice-president, Robert W. Hegner; *retiring vice-president*, William Albert Riley; *secretary*, Geo. T. Hargitt.

F-2—**American Society of Zoologists. December 29–31.

President, Fernandus Payne; *secretary*, William H. Cole; *council representatives*, H. H. Newman and J. Paul Visscher.

F-3—**Entomological Society of America. December 29–30.

President, J. W. Folsom; *secretary*, J. J. Davis; *council representatives*, W. E. Britton and P. P. Calvert.

F-4—**American Association of Economic Entomologists. December 29–31.

President, J. S. Houser; *secretary*, A. F. Burgess; *council representatives*, Warren Elmer Hinds and Myron H. Swenk.

F-5—**American Society of Parasitologists. December 29–30.

President, W. A. Riley; *secretary*, Norman R. Stoll; *council representatives*, Robert W. Hegner and Henry B. Ward.

F-6—†Wilson Ornithological Club. December 28–29.
President, J. W. Stack; *secretary*, Jesse M. Shaver.

Section F will meet jointly with the American Society of Zoologists on Tuesday, Wednesday and Thursday. The section will not hold sessions of its own for the reading of papers, but a short business meeting will be held on Wednesday afternoon at 2 P. M. A dinner for all zoologists will be held on Wednesday at 6:30 P. M. Dr. Robert W. Hegner, of the Johns Hopkins University, vice-president of Section F, will deliver an address immediately following

the dinner, on "How the Other Half Live." Tickets for the dinner should be obtained in advance at the general registration office of the A.A.A.S. in the Venetian room of the Roosevelt Hotel, or from the secretary of the American Society of Zoologists, Dr. W. H. Cole, at any of the regular sessions of the society. The usual joint sessions of the American Society of Zoologists with the Parasitologists, the Geneticists and the Ecologists will be held. Features of the program will be the demonstrations on Tuesday afternoon, a field trip on Tuesday afternoon (repeated on Thursday afternoon) and an invitation program on Thursday morning, at which four or five outstanding American zoologists will speak. The Entomological Society of America will hold its twenty-sixth annual meeting on Tuesday and Wednesday. The president for the meeting is Dr. J. W. Folsom, of the U. S. Bureau of Entomology, and the secretary is J. J. Davis, of Purdue University. The Tuesday morning session will be devoted to business and reading of papers. The Tuesday afternoon session will include a symposium on "The Blood-sucking and Non-Blood-sucking Flies in Relation to Human Welfare." On Tuesday evening the annual public address of the society will be given. Wednesday will be devoted to contributions, with a business session in the afternoon. On Wednesday evening the society will join with the American Association of Economic Entomologists in the Annual Entomologists' Dinner. The American Association of Economic Entomologists will meet on Tuesday, Wednesday and Thursday. The business will be transacted at the opening session on Tuesday, at which time the president's address will be delivered. The other sessions, except the closing business session of the association, which will be held on Thursday afternoon, will be subdivided in such a way that two or more groups will hold sessions at the same time. On Tuesday afternoon, in addition to the general session, a meeting will be held by the Section of Apiculture and by the Section of Plant Quarantine and Inspection. On Wednesday morning a general session, together with a session of the Section of Plant Quarantine and Inspection and the Section of Extension Entomologists, will be held. On that afternoon two groups of papers will be given at separate sessions—one on insect physiology and the other on insect toxicology, in addition to the general session. On Thursday morning a joint session will be held with the Cotton States Branch of this association. At this session there will also be presented four invitation papers on special phases of entomological work. The Entomologists' Dinner will be held on Wednesday evening, December 30. The American Society of Parasitologists will hold its seventh annual meeting on Tuesday and Wednesday. President W. A. Riley being out of the country, the

meeting will be in charge of Vice-President A. C. Chandler, of Rice Institute, who has announced an address on "Susceptibility and Resistance in Helminthic Infestations." A joint session with Section N (Medical Sciences) is scheduled for Tuesday afternoon with the symposium topic, "On Parasitology of Medical Interest." Among the speakers will be Mr. W. E. Dove, of the Bureau of Entomology, Dr. R. Hegner, of Johns Hopkins University, Dr. P. D. Lamson, of the Vanderbilt University Medical School, and Dr. C. W. Stiles, of the National Institute of Health. There will be a joint program also with the American Society of Zoologists. Besides the usual sessions for the presentation of papers, appropriate time will be allotted for demonstrations. The society will hold its annual business meeting and tea.

An added feature will be a Tuesday evening dinner.

A session devoted to flood plain biology and aquaculture will be held on Monday afternoon. The program for this session is in charge of Professor J. G. Needham, of Cornell University.

G. Botanical Sciences.

G-1—Section G of the Association. December 28–January 2.

Vice-president, Elmer Drew Merrill; *retiring vice-president*, E. J. Kraus; *secretary*, Sam F. Trelease.

G-2—**Botanical Society of America. December 29–31.

President, Charles J. Chamberlain; *secretary*, Arthur J. Eames; *council representatives*, I. F. Lewis and L. W. Sharp.

G-3—**American Phytopathological Society. December 29–31.

President, M. W. Gardner; *secretary*, F. C. Meier; *council representatives*, C. W. Edgerton and Donald Reddick.

G-4—**American Society of Plant Physiologists. December 29–31.

President, W. E. Tottingham; *secretary*, W. A. Gardner; *council representatives*, George J. Peirce and Charles A. Shull.

Section G will hold a joint session with the Botanical Society of America, the American Phytopathological Society and the American Society of Plant Physiologists on Tuesday afternoon, December 29. Dr. E. D. Merrill, vice-president for Section G, will preside. The retiring vice-presidential address will be given by Dr. E. J. Kraus, of the University of Chicago, on the subject, "The Organic Nutrition of Plants." This address will be followed by a symposium on "Tropical Botany," which will include introductory remarks by Dr. E. D. Merrill and the following invitation papers: "The Progress of Botanical Exploration in Tropical South America," by Dr. H.

A. Gleason, of the New York Botanical Garden; "Tropical Pathology and Mycology," by Professor F. L. Stevens, of the University of Illinois; "An International Program for a World-Wide Study of Woods," by Professor Samuel J. Record, of the Yale University School of Forestry, and "Biological Survey of the Maya Area of Central America," by Professor H. H. Bartlett, of the University of Michigan. The Botanical Society of America will hold its twenty-sixth annual meeting on Tuesday, Wednesday and Thursday. Business sessions will be held each morning at 9, followed at 10 by scientific sessions of the four sections of the society. In addition to the joint session which will be held with Section G of the American Association, there will be joint sessions with the Ecological Society of America and the American Society of Naturalists. The Mycological Section will hold a joint session with the American Phytopathological Society. The annual dinner for all botanists will be held on Wednesday evening. At this time Dr. L. W. Sharp, of Cornell University, will deliver the retiring presidential address. The section programs of this society will be representative of their special fields, and all branches of botany will be dealt with in the papers presented.

Morning sessions of the American Phytopathological Society are to open at 9:30 A. M. and afternoon sessions at 2:00 P. M. Joint sessions with other organizations are planned as follows: (1) With Section G, Tuesday afternoon; the program being devoted to papers on tropical botany and plant pathology. (2) With the Potato Association of America on Wednesday morning. (3) With the Mycological Section of the Botanical Society of America on Wednesday afternoon. There will be a round-table discussion on extension work in Plant Pathology on Tuesday afternoon, also a round-table discussion of quarantine and regulatory matters on Thursday afternoon. The Tuesday morning program will be opened by remarks from the president, who will be followed by members presenting invitation papers. A business meeting will follow the Tuesday morning program. Arrangements for sessions on Wednesday and Thursday provide for presentation of numerous interesting and important contributions from members. The annual dinner of the society is to occur Tuesday evening and tickets for this may be secured in advance at the general registration office of the A.A.A.S. in the Venetian Room of the Roosevelt Hotel or from the secretary at society headquarters in the St. Charles.

The eighth annual meeting of the American Society of Plant Physiologists will occur from Tuesday to Thursday. Sessions for the presentation of papers and the transaction of business will be held on Wednesday and Thursday. Two joint sessions have been planned: one with the American Society for Horti-

cultural Science, on Tuesday morning; and the other with Section G, the Botanical Society of America and the American Phytopathological Society, on Tuesday afternoon. The annual dinner has been scheduled for Thursday evening at the La Louisiane, for which tickets may be secured in advance at the general registration office of the A.A.A.S. At the dinner will be presented the second Stephen Hales address, by Dr. W. W. Garner, U. S. Department of Agriculture, whose topic is "Photoperiodism."

F-G. Botanical and Zoological Sciences. December 29-31.

FG-1—**American Society of Naturalists. December 31.

President, S. J. Holmes; secretary, L. J. Cole; council representatives, Herbert Kendall Hayes and A. Franklin Shull.

FG-2—**Ecological Society of America. December 29-31.

President, A. O. Weese; secretary, A. E. Emerson; council representatives, Warder Clyde Allee and George P. Burns.

FG-3—**American Microscopical Society. December 30.

President, Harley J. Van Cleave; secretary, James E. Ackert; council representatives, James E. Ackert and Harley J. Van Cleave.

FG-4—Genetics Sections, American Society of Zoologists and Botanical Society of America. December 28-January 2.

Chairman, L. J. Stadler; secretary, P. W. Whiting.

FG-5—†Phi Sigma Biological Research Society. December 28 to 30.

President, P. B. Sears; secretary, A. I. Ortenburger.

The American Society of Naturalists will hold its regular symposium (in conjunction with the American Society of Zoologists and the Botanical Society of America) on Thursday afternoon. The subject of the symposium has not yet been determined, but in accordance with established policy will be on "some borderline subject which would interest workers in more than one phase of biological research." The Naturalists' Dinner will be held on Thursday evening. The dinner will be followed by the address of the president, Professor S. J. Holmes, of the University of California, on the subject, "The Changing Biological Effect of Interracial Competition."

The American Microscopical Society will hold its annual business meeting and election of officers on Wednesday afternoon, December 30, at 4 o'clock. The Genetics Sections of the American Society of Zoologists and the Botanical Society of America will hold regular sessions for the reading of papers on Tuesday, Wednesday, Thursday and Friday mornings.

Afternoons will be devoted largely to exhibits and informal discussion. The committee chosen at the Cleveland meeting to organize an independent society of geneticists and to draw up a constitution will make its report at the business meeting. There will be a joint meeting with Geneticists Interested in Agriculture on Monday. Two symposia are planned—one on "Genetic Problems Involved in Bee Breeding," for the morning, and one on "The Genetics of Cotton Improvement," for the afternoon. No information has been received from the Ecological Society of America.

H. *Anthropology and Archeology.*

H-1—Section H of the Association. December 28–January 2.

Vice-president, William K. Gregory; *retiring vice-president*, Carl E. Guthe; *secretary*, Charles H. Danforth.

Section H will hold meetings from Monday to Friday, chiefly in the Department of Middle American Research on the Tulane campus. Monday afternoon, Wednesday morning, Thursday afternoon and Friday morning will be given over to general papers and to local museums and libraries of anthropological interest. On Tuesday Section H will unite with Sections K and L in sessions devoted to Middle American problems. (See the announcement of Section L.) At the annual dinner, which will be held on Tuesday evening in the Maya Museum building, Dr. William K. Gregory, of the American Museum of Natural History, will preside as chairman of the section, and Dr. Carl E. Guthe, of the University of Michigan, will deliver his vice-presidential address on "The Maya Lunar Count." On Wednesday afternoon and Thursday morning Section H will join with Sections K and N in a symposium on "Growth," which will be led by Dr. Franz Boas, of Columbia University, president of the association, and Professor Richard E. Scammon, of the University of Minnesota. The opportunity which these meetings will afford for becoming familiar at first hand with the work being done at this important center of Middle American research is in itself a special attraction. Lunch in the French Quarter is planned for at least one day during the meetings.

I. *Psychology.*

I-1—Section I of the Association. December 29–31.

Vice-president, Herbert Sidney Langfeld; *retiring vice-president*, Edwin G. Boring; *secretary*, John E. Anderson.

I-2—†Southern Society for Philosophy and Psychology. December 29–31.

President, H. M. Johnson; *secretary*, Lyle H. Lanier.

On Tuesday evening, December 29, a joint program will be held with Section Q (Education) in the form of a dinner meeting, at which Professor Edwin G. Boring, of Harvard University, retiring vice-president of Section I, will give the vice-presidential address on "The Physiology of Consciousness," and Professor Leonard V. Koos, of the University of Chicago, the retiring vice-president of Section Q, will give his vice-presidential address. On the evening of December 30 the Southern Society for Philosophy and Psychology will hold a dinner meeting, at which Dr. H. M. Johnson, of the Mellon Institute, the president of the society, will give an address. Members of Section I who are not members of the Southern Society are invited to attend this dinner. The program sessions from the 29th to the 31st will be held jointly with the Southern Society for Philosophy and Psychology. These sessions will be open to contributions both from members of the Southern Society and from members of Section I who are not members of the Southern Society. On Thursday afternoon Section I will join with Section N (Medical Sciences) for a symposium on "Mental Disorders." (See the announcement of Section N.)

Members of Section I will find certain other programs of Section N of special interest.

K. *Social and Economic Sciences.*

K-1—Section K of the Association. December 28–January 2.

Vice-president, Griffith C. Evans; *retiring vice-president*, Leonard P. Ayres; *secretary*, Harold Hotelling.

K-2—*Econometric Society. January 1–2.

President, Irving Fisher; *secretary*, Charles F. Roos.

K-3—†Metric Association. December 28.

President, George F. Kunz; *secretary*, Howard Richards.

Section K will hold sessions Monday afternoon and Wednesday morning for contributed papers. On Tuesday morning Section K will join with Sections H and L for a symposium on "Social and Economic Institutions of the Mayas." On Tuesday afternoon these sections will hold a symposium on "Commerce, Trade, and Monetary Units of the Mayas." (See announcement of Section L.) On Wednesday afternoon and Thursday morning Section K will join with Sections H and N for symposia on "Growth." The president of the association, Dr. Franz Boas, Dr. Harry Bakwin and Dr. Richard E. Scammon will give addresses at the Wednesday afternoon session, which will be devoted to the growth of the individual. The other session will be devoted to population growth, with papers by Dr. Scammon and others. Dr. Boas is in charge of the program on individual

growth, and Dr. Henry Schultz is in charge of the program on population growth. On Thursday afternoon Sections K and L will join forces for addresses by Dr. William B. Munro, vice president for Section L, and Dr. Robert G. Caldwell, of the Rice Institute. (See announcement of Section L.) On Thursday afternoon at 4:30 Professor E. B. Wilson will deliver an address on certain mathematical phases of growth analysis at a joint session of Sections A and K. On Friday Section L will meet jointly with the Econometric Society. Addresses will be given by Professor Irving Fisher, Mr. J. B. Canning, Professor G. C. Evans, Dr. H. Hotelling, Dr. C. F. Roos, Professor E. B. Wilson, Dr. W. A. Shewhart and Dr. Joseph Mayer. The president, Professor Irving Fisher, will speak on "The Scope of Econometrics."

L. Historical and Philological Sciences.

L-1—Section L of the Association. December 29-31.

Vice-president, William Bennett Munro; *secretary*, Committee on History of Science, Joseph Mayer; *secretary*, Committee on Linguistics, Leonard Bloomfield.

The program for the New Orleans meeting will center on the rise and development of the most ancient known civilization of the New World. On Tuesday morning Section L will join with Sections H and K for a symposium on "The Social and Economic Institutions of the Mayas," and on Tuesday afternoon will join with these same sections for a symposium on "Commerce, Trade, and Monetary Units of the Mayas." Mr. Frans Blom, of Tulane University, is planning an interesting exhibit in connection with the second symposium. On Tuesday evening Section L will join with Sections H and D for papers on the "Astronomy of the Mayas." Wednesday will be devoted to excursions through the historical Vieux Carré and other sections of New Orleans. Thursday morning Section L will meet for a symposium on "Racial Antecedents and Linguistic Problems of the Mayas." On Thursday afternoon Section L will join with Section K for addresses by the chairman of Section L, Dr. William B. Munro and Dr. Robert G. Caldwell, of the Rice Institute. Dr. Caldwell's title is announced as "The Social Significance of American Panics."

M. Engineering.

M-1—Section M of the Association. December 29-31.

Vice-president, Dexter S. Kimball; *retiring vice-president*, Frank Baldwin Jewett; *secretary*, N. H. Heck.

It is expected that the meeting will occupy three half days, and on the afternoons there will be trips of inspections to the Spillway, twenty-five miles above

the city, and to engineering works in the vicinity of New Orleans. The program will deal in part with hydraulics, especially in relation to the Mississippi River. There are expected to be papers on "Foundations of Structures," on the "Progress of Engineering in the Sugar Industry," on "Pipe Line Problems in Louisiana," and on certain engineering projects of local and general interest. One of the general lectures of the association will be given by Professor Floyd Nagler on "General Engineering Problems of the Mississippi River." It is probable that this lecture will be preceded by a dinner.

N. Medical Sciences.

N-1—Section N of the Association. December 28-31.

Vice-president, Howard Thomas Karsner; *retiring vice-president*, Louis B. Wilson; *acting secretary*, Fred A. Moss.

On Monday afternoon Section N will meet for the address of the retiring vice-president, Dr. Louis B. Wilson. Shortly after this address there will be a session for miscellaneous contributed papers. On Tuesday morning there will be a session for miscellaneous papers on tropical medicine. On Tuesday afternoon Section N will meet jointly with the American Society of Parasitologists for a symposium "On Parasitology of Medical Interest." Among the speakers will be Mr. W. E. Dove, of the Bureau of Entomology, Dr. R. Hegner, of the Johns Hopkins University, Dr. P. D. Lamson, of the Vanderbilt University Medical School, and Dr. C. W. Stiles, of the National Institute of Health. On Wednesday morning Section N meets for a symposium on "The Effect of Drugs and Internal Conditions on Behavior." The following invitation papers will be presented: "Some Relationships between Personality and Body Chemistry," by Dr. Gilbert J. Rich; "The Effect of Extracts of the Anterior Lobe of the Hypophysis upon the Spontaneous Activity of the Rat," by Dr. Joseph G. Yoshioka; "The Physiological Basis of Fatigue," by Dr. Thelma Hunt; "The Effects of Fasting on the Psychologic Processes," by Dr. J. A. Glaze; "Effect of Varying Periods of Sleep on Nervous Stability," by Dr. Katharine Omwake; "Fake Remedies Unearthed by the Pure Food and Drug Act," by Dr. F. J. Cullen, of the U. S. Food and Drug Administration, U. S. Department of Agriculture. On Wednesday afternoon and Thursday morning Section N will join with Sections H and K for symposia on "Growth." (See the announcements for these sections.) On Thursday morning there will be a session of Section N for the following invitation papers: "The Part Played by Focal Infection in Mental Disorders," by Dr. M. L. Townsend; "Birth Injuries and Their Part in Mental Diseases," by Dr. Leon Gordon; "Psy-

chological Pathology with Normal Function as Shown by a Delinquent Group," by Dr. Lowell S. Selling; "The Need of Objective Tests in the Diagnosis of Mental Disorders," by Mr. H. F. Hubbard; "Polio-myelitis," by Dr. F. Ebersson. On Thursday afternoon Section N will meet jointly with Section I (Psychology) for a symposium on "Mental Disorders." The following invitation papers will be presented: "Psychological Approach to Functional Nervous Conditions," by Dr. Abraham Myerson; "The Colloidal Chemistry of Psychiatry," by Dr. Holmes Richter; "Some Medical Analogies in Abnormal Psychology," by Dr. J. M. Fletcher; "The Scientific versus the Psychic Approach to the Study of Mental Disorders," by Dr. F. A. Moss.

O. Agriculture.

O-1—Section O of the Association. December 28-31.

Vice-president, Carlos Grant Williams; *retiring vice-president*, Walter Castella Coffey; *secretary*, P. E. Brown.

O-2—**American Society of Agronomy. December 29.

President, W. W. Burr; *secretary*, P. E. Brown; *council representatives*, M. A. McCall and W. L. Slate.

O-3—*Society of American Foresters. December 29-31.

President, Paul G. Redington; *secretary*, Franklin Reed; *council representative*, Harris Collingwood.

O-4—**American Society for Horticultural Science. December 28-30.

President, T. H. McHatton; *secretary*, Harold B. Tukey; *council representatives*, W. H. Alderman and C. P. Close.

O-5—†Potato Association of America. December 28-30.

President, J. S. Gardner; *secretary*, H. C. Moore.

O-6—Geneticists Interested in Agriculture. December 28.

Secretary, J. L. Lush.

Section O will hold morning and afternoon sessions on Tuesday with the American Society of Agronomy, and papers will be presented on "Fertilizer Studies in Arkansas, in Texas, in Oklahoma and in Louisiana"; "Nitrogen Fertilizers and Nitrogen Requirements of Some Soils"; "Superphosphate Tests on Cotton"; "The Economy of Soil Nitrogen under Semi-Arid Conditions"; "Nitrification in Reclaimed Tidal Marsh Land"; "The Fertility of Various Organic Residues"; and "General Observations on Fertilizer Usage in the Southern States." On Tuesday evening a joint dinner will be held with the American Society of Agronomy and other associated societies, at which time Dean W. C. Coffey, of the University of Minnesota, will deliver the address of the retiring vice-presi-

dent for Section O. The Society of American Foresters will hold their annual meeting on Tuesday and Wednesday, December 29 and 30. President Paul G. Redington, chief of the Biological Survey, will call the meeting to order at 9:30 A. M. Franklin Reed is executive secretary of the society and G. H. Lentz is chairman of the arrangements committee. Registration by the Foresters will be at 9 A. M. Wednesday morning's meeting is scheduled for 9 A. M. The afternoon sessions will open at 2 P. M. Following the address of President Paul G. Redington, the Society of American Foresters will hold a symposium on "Forestry in the South." E. L. Demmon, director of the Southern Forest Experiment Station, will preside at this session. Professor R. C. Bryant, of the Yale Forest School, will be among the speakers. The Tuesday afternoon session will deal with the use of aerial photography in forest mapping, the National Forest Survey, and a paper on the work of the Timber Conservation Board. Dean H. P. Baker, of the New York State College of Forestry, will preside over the Wednesday morning session. Papers at this session will deal with forest economics. Carl Williams, of the Federal Farm Board, will present a paper on the "Land Use Problem of the South." Wednesday afternoon will be devoted to society affairs. The annual dinner of the society will be held Wednesday at 7 P. M. at the Jung Hotel, for which tickets may be obtained from Miss Warren at the Society Registration desk. The banquet will be followed by dancing. An all-day field trip to Bogalusa to visit the forest plantations and the sawmill of the Great Southern Lumber Company mill is scheduled for Thursday. Details concerning this trip will be announced at the Tuesday sessions. A forest exhibit will be displayed with the scientific exhibition of the association. The American Society for Horticultural Science will hold sessions devoted to plant breeding and cytology, pomology, vegetable crops, ornamental horticulture, nutrition and possibly economics. The vegetable section will combine with the Potato Association of America on Monday afternoon. On Wednesday morning there will be a joint session of all sections with the American Society of Plant Physiologists. The annual horticulturists' dinner will occur on Tuesday evening, at which time the address of the retiring president, Dr. T. H. McHatton, of the University of Georgia, will be given. The geneticists interested in agriculture will meet on Monday morning with the genetic sections of the zoological and botanical societies. This session will be devoted to a symposium on "The Genetical Problems Involved in Bee Breeding." The speakers will be Dr. Anna R. Whiting, Pennsylvania College for Women; Mr. H. B. Parks, Texas Agricultural Experiment Station; Mr. W. J. Nolan, Bureau of Entomology; Mr. Everett Oertel, Bureau of Ento-

mology; Mr. G. H. Vansell, California Agricultural Experiment Station. On Monday afternoon the program will consist of a symposium on "The Genetics of Cotton Improvement." The speakers will be Dr. H. B. Brown, of the Louisiana Agricultural Experiment Station; Mr. T. H. Kearney, of the Bureau of Plant Industry; Mr. J. F. O'Kelly, Mississippi Agricultural Experiment Station, and Mr. D. T. Millough, Texas Agricultural Experiment Station.

Q. Education.

Q-1—Section of the Association. December 28-30.

Vice-president, Ernest Horn; *retiring vice-president*, Leonard V. Koos; *secretary*, W. L. Uhl.

Seven sessions of Section Q are planned for Monday, Tuesday and Wednesday. A joint dinner of the section with Section I and with the societies of Phi Delta Kappa and Kappa Delta Pi is planned for Tuesday evening. Following the dinner the retiring vice-president for Section Q, Dr. Leonard V. Koos, of the University of Chicago, will present an address. The topics for the other sessions are: "Research in Elementary Education," Monday morning; "Research in Secondary and Collegiate Education," Monday afternoon; "Research in Social Studies and other Problems of Character Training," Tuesday morning; "Research in Diagnostic or Remedial Work," Tuesday afternoon; "General Investigations in Teaching," Wednesday morning. The attention of members of Section Q is called to the joint session of Sections I (Psychology) and N (Medical Sciences) on Thursday afternoon. (See the announcement of Section N.)

X. Societies Related to the Association as a Whole.

X-1—**Society of the Sigma Xi. December 29.

President, G. W. Stewart; *secretary*, Edward Ellery; *council representatives*, Edward Ellery and G. W. Stewart.

X-2—*American Nature Study Society. December 28-30.

President, A. F. Satterthwait; *secretary*, Jennie Hall; *council representative*, J. Andrew Drushel.

X-3—**Honor Society of Phi Kappa Phi. December 28-29.

President, R. C. Gibbs; *secretary*, C. H. Gordon; *council representatives*, R. C. Gibbs and F. D. Kern.

X-4—†Gamma Alpha Graduate Scientific Fraternity. December 29.

President, R. W. Babcock; *secretary*, H. R. Nelson.

X-5—Sigma Delta Epsilon Graduate Women's Scientific Fraternity. (Undecided.)

President, Leva B. Walker; *secretary*, Katherine Knowlton.

X-6—Pi Gamma Mu Social Science Honor Society. December 28-31.

President, Leroy Allen; *secretary*, S. Howard Patterson.

On Tuesday afternoon the Society of the Sigma Xi will hold a business meeting, beginning at four o'clock. The annual dinner will occur Tuesday at 6:30, and the tenth annual Sigma Xi lecture will be given at the general session on Tuesday evening by Dr. C. F. Hirshfeld, director of research of the Detroit Edison Company. Tickets for the dinner may be secured, before Tuesday noon, at the general registration offices. The Webster Groves and the New Orleans branches of the American Nature Study Society will offer programs which will illustrate the excellent work accomplished by such units of the parent society. An important business session will occur on Monday afternoon. On Tuesday afternoon there will be a symposium on the subject of "Grade Placement in the Schools of Nature Study and Science." In this round-table discussion the society hopes to hear from a number of members who have experimented in this field or have otherwise contributed toward the solution of its problems. Wednesday sessions will be devoted to contributions from members. The society has an active committee arranging for an exhibit of educational nature and science materials. The banquet will probably occur on Tuesday evening. Possibly the society will join with other societies with similar interests in banquet and field trips or excursions. Sessions of the Honor Society of Phi Kappa Phi will be held on Monday afternoon at 2:00 P. M. and on Tuesday morning at 9:00 A. M. The Monday session will be devoted to the reception of reports and the annual address of the president general, Dr. R. C. Gibbs, of Cornell University. The regular business session will occur on Tuesday. The annual dinner of the society will occur on Monday evening in the Bienville Hotel, for which tickets may be secured at the general registration office of the A.A.A.S. and at the convention meeting. The Gamma Alpha Graduate Scientific Fraternity will hold its council meeting on Tuesday morning and a breakfast on Wednesday morning. A proposed plan for financing the councilors' traveling expenses to the annual convention will be considered.

GENERAL OFFICERS OF THE ASSOCIATION FOR THE CALENDAR YEAR 1931, INCLUDING THE SECOND NEW ORLEANS MEETING

President

Franz Boas, Columbia University, New York, N. Y.

Retiring President

Thomas H. Morgan, California Institute of Technology, Pasadena, Calif.

Permanent Secretary

Charles F. Roos, Smithsonian Institution Building, Washington, D. C.

General Secretary

Burton E. Livingston, Johns Hopkins University, Baltimore, Md.

Treasurer

John L. Wirt, Carnegie Institution of Washington, Washington, D. C.

Secretary of the Council

Charles A. Shull, University of Chicago, Chicago, Ill.

Executive Assistant

Sam Woodley, Smithsonian Institution Building, Washington, D. C.

Auditor

A. G. McCall, U. S. Department of Agriculture, Washington, D. C.

Director of the Press Service

Austin H. Clark, Smithsonian Institution, Building, Washington, D. C.

Manager of Annual Scientific Exhibition

F. C. Brown, Smithsonian Institution Building, Washington, D. C.

Manager of New Orleans Commercial Exhibition

H. S. Kimberly, Smithsonian Institution Building, Washington, D. C.

Officers of the Pacific Division

President: A. O. Leuschner, University of California, Berkeley, Calif.

Secretary of the Pacific Division: J. Murray Luck, Stanford University, Calif.

Officers of the Southwestern Division

President: John D. Clark, University of New Mexico, Albuquerque, N. Mex.

Secretary: E. F. Carpenter, University of Arizona, Tucson, Ariz.

Members of the Executive Committee of the Council¹

J. McKeen Cattell (1934), *chairman*; Garrison-on-Hudson, N. Y.

Franz Boas (1931), *president of the association*; Columbia University.

Karl T. Compton (1933), Massachusetts Institute of Technology.

David R. Curtiss (1931), Northwestern University.

Joel H. Hildebrand (1931), University of California.

Vernon Kellogg (1932), National Research Council.

Burton E. Livingston (1932), *general secretary of the association*; Johns Hopkins University.

Robert A. Millikan (1933), California Institute of Technology.

Charles F. Roos (1932), *permanent secretary of the association*; Smithsonian Institution Building.

Henry B. Ward (1934), University of Illinois.

Edwin B. Wilson (1932), Harvard University.

Elected Members of the Council

Austin H. Clark (1931), U. S. National Museum.

Arthur H. Compton (1931), University of Chicago.

Frederick Gardner Cottrell (1934), Fixed Nitrogen Research Laboratory, Washington, D. C.

L. O. Howard (1932), U. S. Department of Agriculture.

D. T. MacDougal (1932), Desert Laboratory, Tucson, Ariz.

John C. Merriam (1933), Carnegie Institution of Washington.

Rodney H. True (1933), University of Pennsylvania.

Albert F. Woods (1934), U. S. Department of Agriculture.

OBITUARY

EDWARD HOPKINS JENKINS

ON November 6, 1931, Dr. Edward Hopkins Jenkins died suddenly at the age of 81 years. For nearly fifty years, Dr. Jenkins was a leader in thought and in the application of science to agriculture. Trained as a chemist, he began his work in the chemical laboratory of the Connecticut Agricultural Experiment Station, the first agricultural experiment station to be established in the United States, some twelve years before the passage of the Hatch Act in 1887, which provided for such an institution in each state. He served as vice-director of the station under Professor Samuel W. Johnson from 1883 until 1900, when, after the resignation of Professor Johnson, he was appointed director. He was also treasurer of the station from 1901 to 1923. In 1912 he was appointed director of the Storrs Agricultural Experiment Station and served as director of both stations until his voluntary retirement in 1923, when he was made director emeritus.

Dr. Jenkins was born in Falmouth, Massachusetts,

on May 31, 1850. He studied at Phillips Academy, Andover, and at Yale University, from which he was graduated in 1872 with the degree of bachelor of arts. He carried on special studies at Yale from 1872 to 1875, under Samuel W. Johnson, who was a pupil of John Pitkin Norton. In 1875 and 1876, he studied at the University of Leipzig and at the Forest School, Tharandt, Saxony. On returning to New Haven, he continued his studies at Yale, and the degree of doctor of philosophy was conferred upon him in 1879. In 1875, the Connecticut Agricultural Experiment Station was established at Middletown, and there Dr. Jenkins, on returning from his studies abroad, served as chemist for a short time, being associated with Professor W. O. Atwater.

In 1877, the station became a state institution and was transferred to New Haven. Dr. Jenkins now became chemist and served in this capacity until

¹ The number in parentheses denotes the calendar year at the end of which the member's term of office is to expire.