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# THE AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE

# PRELIMINARY ANNOUNCEMENT OF THE DENVER MEETING

Edited by Dr. F. R. MOULTON

PERMANENT SECRETARY

THIRTY-SIX years ago, in 1901, the fiftieth meeting of the association was held in Denver, Colorado. This year the one-hundredth meeting of the association will also be held in Denver, from June 21 to 26. The approaching meeting will be particularly important because for the first time the Pacific Division and the Southwestern Division will join in a meeting of the entire association. Many of the affiliated societies, both of the association and of its two divisions, are combining forces to make the one-hundredth meeting a memorable occasion.

At the fiftieth meeting of the association Dr. Charles Sedgwick Minot, of Harvard University, distinguished for his work in medical sciences, was president of the association. For the one-hundredth meeting another Harvard University scientist is president, Dr. George D. Birkhoff, an internationally famous mathematician.

The local arrangements for the meeting are in charge of an executive committee, of which Dr. James J. Waring is chairman and Dr. J. C. Stearns is secretary. There is also a general committee for the meeting, composed of a large number of distinguished citizens of Denver and the surrounding region.

# THE DENVER REGION

(Material furnished by the Local Committee)

Denver, a city of about 300,000 population, is situated on the plains just east of the Rocky Mountains. This great barrier, and the altitude, one mile above

sea level, provide an unusual and most invigorating climate for the city.

Denver is, first and foremost, a residential city. It has no tenement district, no manufacturing or industrial population of any importance. Primarily, the business of the city is one of distribution: Denver is the clearing house for and trade center of a vast and rich district, the main products of which are cattle, metals, coal and foodstuffs.

Universities and colleges in the Denver area boast of student bodies entirely above the relative population of the district. Responsible for this are Colorado's matchless, year-around climate and unusual scenic attractions. The assurance of a delightful background and most pleasant environment for work and play, as well as the general excellence of these institutions of higher learning, lure students from all parts of the continent.

So close to the heart of the city are Denver's mountain parks that it is a matter of only minutes from the classroom to the magnificent playgrounds with their scenic delights and cool streams from higher altitudes. Paved roads radiate from down-town Denver into the mountain country that always is beckoning. It is never more than 45 miles from Denver's city hall to a glacier and perpetual snow.

Students of botany delight in the floral growth of the district, extending from plant life on the plains to the nearby watered lowlands and on up through a cavalcade of spring and summer ornamentation on the lofty mountain sides. Devotees of mineralogy are offered a rare natural laboratory for study. The same is true for those interested in wild animal and bird life. Although Colorado has the highest average altitude of any state in the union, it presents noteworthy variety—mysterious desert wastes with shifting sands that once were the bed of inland seas, grassy plains, the largest irrigated areas on the continent and the incomparable Colorado Rockies with their vast succession of peaks of more than 14,000 feet.

Denver is the center of a compact district offering ten major educational institutions. Largest of the educational institutions in Colorado's capital is the University of Denver. Its picturesque setting on the hill-top campus faces the mountain range. Students are offered courses in liberal arts, commerce, science and engineering, and fine arts and music. These, with the graduate school, the school of law, the summer school, school of librarianship, department of social work and the university college, make up a distinguished cultural organization.

Although the University of Colorado is located in near-by Boulder, it operates in Denver a widely known school of medicine and hospital admirably located and staffed. This school of medicine was opened in 1883. In 1911 it was united with the Gross College of Medicine, the two faculties being combined into one. Since that time the growing single unit has been a division of the University of Colorado. On the campus at Boulder the state university, beautifully situated at the entrance to the mountains, offers many advantages for the student from other states. Its summer sessions are staffed with prominent educators from all parts of the country.

In Denver also is located Regis College, a long-established and distinctive college for men and boys.

An accredited college for women, of which Denver and Colorado are justly proud, is the Colorado Woman's College, located at Denver. About 12 miles from the heart of Denver is the Colorado State School of Mines, the largest institution of the kind in the world. Situated in the mountain foothills, at Golden, near where the first gold was discovered in Colorado, the 75-year old school boasts of students from most of the major countries of the world.

The Colorado State College of Agriculture and Mechanic Arts is at Fort Collins, 65 miles north of Denver. The Colorado State College of Education is at Greeley, only fifty miles from the capital. Colorado College, a large coeducational institution, offering the usual university subjects, is an endowed school, located at Colorado Springs at the foot of Pike's Peak, 75 miles to the south of Denver.

Preparatory schools, military academies, art institutions and schools operated in the mountain ranch country form a most intriguing chain of institutions designed for the upbuilding of mind and body of boys and girls; junior colleges and smaller "normals," scattered advantageously about the state, have their important place in Colorado's interesting educational life.

#### HEADQUARTERS AND REGISTRATION

General hotel headquarters for the association and for all groups meeting in Denver will be the Cosmopolitan Hotel, where the registration office for the meeting will also be located. This hotel is in the center of the business district, conveniently located to all places at which sessions will be held. The office of the permanent secretary will also be located in this hotel. Mail, telegrams, etc., may if desired be addressed to Registration Headquarters, A. A. A. S., Cosmopolitan Hotel, Denver.

Registration will be open upon payment of a fee of \$1.00 to all persons who are interested in the advancement of science and education. Each registrant will receive a copy of the program, an identification card and a badge. Registration will be necessary for attendance upon the general reception and participation in other events planned by the local committee. The registration office will be open for the convenience of

those arriving early on Sunday afternoon, June 20, from 2:00 to 5:00 o'clock.

# HOTELS IN DENVER

Many of the hotels are cooperating with the association for the meeting. Members desiring accommodations are expected to communicate directly with the hotels. The following rates for rooms with bath will apply:

Cosmopolitan: (general headquarters): Single, \$3-\$5; double, \$5-\$8.

Adams: Single, \$2.50-\$3; double, \$3.50-\$4.

Albany: Double, \$4-\$8.

Argonaut: Single, \$2.50-\$4; double, \$4-\$7.

Auditorium: Single, \$2-\$3; double, \$3-\$4.50.

Barth: Single, \$2-\$2.50; double, \$3.50-\$4.

Brown-Palace: Single, \$3.50-\$4; double, \$6-\$8.

Colorado: Double, \$3-\$4.

Cory: Single, \$2.50-\$4; double, \$3.50-\$6.

Crest: Double, \$3.50-\$6.

Dover: Single, \$2-\$2.50; double, \$3-\$3.50.

Oxford: Single, \$2.50-\$3; double, \$3-\$5.

Roosevelt: Single, \$3-\$4; double, \$4-\$7.

Sears: Double, \$5-\$6.

Shirley-Savoy: Double, \$4-\$6.

Standish: Single, \$2-\$3.50; double, \$3-\$6.

Excepting the Cosmopolitan, Brown-Palace, Cory and Sears, all hotels have rooms without bath at considerably lower rates. The Argonaut will furnish suites to accommodate three or more persons at \$7.50 and up; the Auditorium will furnish two-room suites, with one bath, for four persons at \$6 to \$8.

#### TRANSPORTATION

Summer excursion railway fares will be in effect for the Denver meeting from all points in the United States. A few sample round-trip rates are as follows:

From	Season ticket	21-day ticket	Round-trip Pullman fare (extra)
Boston Chicago Detroit New York Philadelphia Washington, D. C	\$100.15	\$93.35	\$28.00
	41.00	34.20	14.52
	56.70	49.90	18.00
	93.35	86.55	26.52
	88.15	81.35	25.52
	85.45	78.65	25.52

It is advisable for all who plan to attend the meeting to consult their local ticket agent for accurate information regarding the possibility of reduced fares for shorter periods than those above listed.

# PRESS SERVICE

# (From Austin H. Clark, Director)

Representatives of all sections of the press are cooperating with the association for the purpose of making known throughout the entire country, and also abroad, the proceedings of the Denver meeting. We who are occupied with science in this country receive our support directly or indirectly from the American public. Year by year the public is becoming increasingly interested in what we are doing. Their knowledge of what we are doing comes to them through the medium of the press. So it is incumbent upon the members of the association to provide the press with all the material it may wish to use.

All who will present papers or addresses at Denver are requested to make sure that the Press Service is supplied with copies of their manuscripts as long in advance as possible. Two copies of each paper, each accompanied by an abstract, should be sent to the Press Service at Washington.

Manuscripts are made available for study by the representatives of the press as soon as received. The earlier they are received the more time there is to study them and to prepare full and accurate accounts of their contents. Early receipt of manuscripts is of great benefit and advantage to all concerned—especially the authors.

The Press Service is for your benefit, as well as for the benefit of the association and of science as a whole. Its success depends upon your cooperation.

#### GENERAL SESSIONS

On Tuesday evening Dr. Herbert M. Evans, professor of biology and director of the Institute of Experimental Biology of the University of California, will deliver his address as retiring president of the Pacific Division of the Association. The title of Dr. Evans's address is, "The Development of our Knowledge of Anterior Pituitary Function."

On Wednesday evening the Maiben Lecture will be delivered by Professor Nevil V. Sidgwick, F.R.S., of Lincoln College, Oxford, England. "Molecules" is the subject chosen by Professor Sidgwick for his address.

On Thursday evening, Dr. A. E. Douglass, professor of astronomy and director of the Steward Observatory of the University of Arizona, will deliver the John Wesley Powell lecture of the Southwestern Division. The subject of Dr. Douglass's address is "Tree-Rings and Chronology." These lectures and their addresses were described more at length in SCIENCE for April 30, 1937.

"The Scientific Aspects of the Control of Drifting Soils" is the topic chosen for the General Symposium on Thursday afternoon at 2 o'clock. This symposium is sponsored jointly by the Ecological Society of America and the Association. The geological aspect which deals with the origin and distribution of the soils in the Great Plains Region will be presented by Dr. M. M. Leighton, chief of the Illinois Geological Survey. The biological factors are to be treated by Dr. Frederic E. Clements, plant ecologist of the Carnegie Institu-

tion of Washington. The effects of man in disturbing established conditions and the organization of means of control form the subject of the third paper by Dr. H. H. Bennett, director of the Soil Conservation Service.

#### SOCIAL EVENTS

On Monday evening the local committee will give an informal reception to visiting scientists in honor of the officers and the members of the American Association. This reception will be held at the Reed Library of the University of Denver. A dinner for all biologists is scheduled for Wednesday evening. The Society for Research on Meteorites will have its dinner at six o'clock on Tuesday evening, and the American Society of Plant Physiologists will hold its dinner on Thursday evening. The local committee has planned for Friday afternoon a trip into the mountains, to be followed by a buffet supper. This excursion promises to be very attractive to all who are able to accept the invitation of the local committee. All visiting scientists are invited.

### EXCURSIONS, FIELD TRIPS AND DEMONSTRATIONS

Since the region about Denver offers exceptional attractions for field studies in natural history, sections and societies are planning to take advantage of the opportunities afforded. Many field trips have already been organized in geology, biology and anthropology and by other groups, some of which are optional and some of which are necessarily limited to special groups or to a limited number of participants. Some information will be found in the announcements of programs, but precise data will be obtainable on registration in Denver. A number of exhibits and demonstrations are being planned by various societies and incorporated in their programs.

Saturday has been set aside for excursions to educational and other institutions in the region of Denver. These excursions will offer a splendid opportunity to those attending the meeting to become acquainted not only with the institutions but with the individuals and the work they are doing in their respective fields of science. Arrangements are being made for trips to Boulder, Colorado Springs, Fort Collins, Golden and other important points. Unfortunately one can not participate in all these excursions in one day. A desk in the registration office will be provided where reservations may be made.

# OFFICIAL NOTICES

The executive committee of the association will meet on Sunday afternoon and evening, June 20, and the council will hold its first session on Monday at 2:00 P.M. Later sessions will be held at 9:00 o'clock on other days as decided. By rule, all business is presented to the council through the executive committee. Members are requested to forward items for the council to the permanent secretary's office in Washington until June 15. After that date items should be sent to the permanent secretary addressed to the Cosmopolitan Hotel, Denver, Colorado.

The executive committee of the Pacific Division will hold luncheon meetings daily from Monday to Friday at 12:15 p.m. The meeting of the affiliation committee of the Pacific Division will be held on Tuesday afternoon at 4:30. A general business session of the division will be held on Tuesday evening immediately after the general session of the association.

Full data regarding participants, time and place of various events and other details will be found in the official program of the meeting, which will be distributed to members on registration in Denver.

# SECTION MEETINGS AND SOCIETY PROGRAMS

The Section on Mathematics (A) will hold a joint session with the Section on Social and Economic Sciences (K) and the Econometric Society on Thursday morning. Among those who will participate on the program are Professor J. A. Shohat, Dr. Gerhard Tintner and Professor G. C. Evans.

The Section on Physics (B) will hold a joint session with the American Physical Society, Pacific Coast Branch, for a symposium on "Cosmic Physics" on Saturday morning, with papers by Dr. Thomas H. Johnson, of the Bartol Research Foundation, and Professor Hurd C. Willett, of the Massachusetts Institute of Technology. A third paper for this symposium will be arranged.

The American Physical Society will meet on Friday and Saturday, holding sessions in conjunction with the Section on Physics (B) and the Astronomical Society of the Pacific and the Section on Astronomy (D). The session with the two latter organizations will probably consist of a symposium on "Solar Radiation and Radio Reception," and will be held on Friday morning. On Saturday morning the Physical Society will join with the symposium program of the Section on Physics (B). The Saturday afternoon session will be devoted to the presentation of short contributed papers.

The American Meteorological Society plans full-day sessions on Monday, Tuesday and Wednesday and, if necessary, forenoon sessions on Thursday and Friday. Papers dealing with air-mass analysis as applied to the western United States, the geometrical theory of halos, the auroral afterglow, atmospheric pressure at heights above 40 miles and the atmospheric factor in the "Dust Bowl" problem are some of those which will be up for discussion. On Thursday afternoon the members will join with the Ecologists for the an-

nounced program of that group. There will be opportunity for visits to points of meteorological interest.

The American Association of Physics Teachers will meet on Thursday morning and afternoon. The morning session will be occupied with papers contributed by members and the afternoon session by a special program of several invited papers.

The Hydrology Section of the American Geophysical Union will hold a joint session with the Society of American Foresters on Tuesday morning. Other sessions have been arranged for programs on the subjects of consumptive use and return flow, rainfall and runoff, physics of soil moisture, dynamics of streams and underground waters.

The Section on Chemistry (C) will hold three half-day sessions, in cooperation with local sections of the American Chemical Society. A number of interesting papers by individuals carrying on fundamental research have been arranged.

The Section on Astronomy (D) will hold joint sessions with the Astronomical Society of the Pacific and the Southwestern Division. A joint session with the Section on Physics (B) and the Astronomical Society of the Pacific is being arranged, to be held on Friday morning for a discussion of subjects of common interest.

The Astronomical Society of the Pacific and the Section on Astronomy (D) will hold two or more sessions for the presentation of papers on astronomical subjects, and on Friday morning will hold a joint session with the American Physical Society, the Section on Physics (B) and the Section on Astronomy, at which three invited papers will be presented on the general topic "Radio Transmission and Solar Phenomena."

The fifth annual meeting of the Society for Research on Meteorites will be held on Tuesday and Wednesday. "Meteoric Craters" will be the subject for a joint session with the Section on Geology and Geography (E) on Tuesday afternoon. At six o'clock on Wednesday evening, June 23, there will be a dinner for members and their guests at the Denver Athletic Club. The sessions will be held at the Colorado Museum of Natural History, where a large collection of meteorites will be on display for those interested.

The Section on Geology and Geography (E) will open its program on Tuesday afternoon, when it will meet jointly with the Society for Research on Meteorites. The remainder of the week will be devoted to papers and field trips, in all of which the varied aspects of Rocky Mountain geology will be featured. Wednesday morning has been set aside primarily for stratigraphic and structural papers, and Thursday morning will be utilized for the same purpose if further discussion of Rocky Mountain problems seems

more vital than a half-day field trip. An examination of foothills structures near Lyons, under the guidance of Dr. W. O. Thompson, and other members of the Department of Geology, University of Colorado, is scheduled for Wednesday afternoon; and local trips, featuring Mesozoic stratigraphy, structure and economic geology, will be arranged for Thursday morning if an indoor meeting does not prove more urgent. The general symposium on "The Scientific Aspects of the Control of Drifting Soils" is scheduled for Thursday afternoon, and in view of the wide-spread interest in this subject, the Section on Geology and Geography will not hold any competing meetings. On Friday morning a symposium on Rocky Mountain geomorphology has been arranged, at which papers covering varied phases of this field, and ranging geographically from New Mexico to Montana, will be presented. On Saturday morning, Dr. F. M. Van Tuyl will lead a geomorphic field excursion into the mountains, and the trip will end at Science Lodge, where the members of the section will be the luncheon guests of the University of Colorado's Geology Department. Among the speakers scheduled to present papers at the several sessions are Wallace W. Atwood, Margaret F. Boos, W. O. Thompson, F. M. Van Tuyl and P. G. Worcester, in addition to representatives from the Harvard, Iowa, Princeton, Smith, Wyoming and other university groups which are also carrying on field research in the Cordilleran region.

The Oceanographic Society of the Pacific will hold sessions for contributed papers on Wednesday afternoon and Thursday morning. The annual luncheon of the society will be held on Thursday at noon. A symposium has been arranged for Thursday afternoon on "Inter-relations of the Sciences Which Compose Oceanography," with papers by Professor H. U. Sverdrup, of the Scripps Institution of Oceanography at La Jolla, California; Professor A. H. Hutchinson, of the University of British Columbia, and Professor B. S. Henry, of the University of Washington.

The Section on the Zoological Sciences (F) will meet on Tuesday, Wednesday and Thursday. The sessions on Tuesday have been assigned to Parasitology, with a general session in the morning and a symposium in The program for Tuesday is being the afternoon. arranged by Professor John W. Scott, of the University of Wyoming. On Wednesday and Thursday mornings papers of general zoological interest are to be presented. Wednesday afternoon has been tentatively set aside for demonstrations. On Thursday afternoon the section joins with the General A. A. A. S. Symposium, arranged by the Ecological Society, on the subject of "The Scientific Aspects of Drifting Soils." Members of the section are invited to a complimentary luncheon at Science Lodge, near Boulder,

on Saturday. Correspondence regarding the program and titles submitted for the general session should be addressed to the secretary of the section, Professor George A. Baitsell, Yale University.

The American Association of Economic Entomologists will meet on Thursday and Friday. The sessions will open with a brief business meeting, followed by presentation of papers. There will be sessions for papers on Friday afternoon and on Saturday morning and afternoon. The Entomologists' dinner will be held at 6 o'clock on Thursday.

The American Society of Parasitologists will be represented by a program on Tuesday. The morning session will be devoted to the reading of papers, including invited papers on Diphyllobothrium latum and closely related species found in North America. The speakers will include Dr. William L. Jellison, Dr. T. B. Magath, Dr. Justus F. Mueller and Dr. John W. Scott. At the afternoon session a symposium on "Rocky Mountain Spotted Fever" will include papers by Dr. R. R. Parker, director of the Rocky Mountain Spotted Fever Laboratory, Dr. Cornelius B. Philip, Dr. Herald R. Cox and one other speaker on "Sylvatic Plague."

The American Society of Ichthyologists and Herpetologists (Western Division) will devote its sessions on Tuesday morning and afternoon to fisheries problems and papers on the habits, taxonomy and distribution of reptiles, amphibians and fishes.

The Section on Botanical Sciences (G) will meet in joint session with the Western Section of the American Society of Plant Physiologists, the Pacific Section of the American Phytopathological Society, the Pacific Section of the Botanical Society of America and the Western Society of Naturalists on Wednesday afternoon, June 23. The program will include a group of invitation papers. Dr. Frederic E. Clements, of the Carnegie Institution of Washington, will give an illustrated address on environment and expression in species. Dr. A. R. Davis, of the University of California, will discuss his investigation of the interrelationships of environmental variables in plant growth. Dr. J. T. Barrett, of the University of California, will give a report on his studies of the lower forms of parasitic Phycomycetes. Dr. L. L. Burlingame, of Stanford University, will speak on the anomalous inheritance of white anther in Clarkia elegans. Dr. R. B. Harvey, of the University of Minnesota, will give a talk on winter resistance in plants.

The American Phytopathological Society will hold sessions for the presentation of papers on Wednesday morning and Thursday under the auspices of the Pacific Division. Wednesday afternoon will be devoted to a joint meeting of the Section on Botanical Sciences, at which Dr. J. T. Barrett, of the Univer-

sity of California, representing the Phytopathological Society, will present a paper on "Observations on New or Little-known Phycomycete Root Parasites." On Friday and Saturday plant pathologists of the Pacific Division have been invited to participate in a meeting of the Upper Mississippi Valley group to be held in Estes Park. This meeting will consist of group discussions, presentation of invitation papers and optional scenic trips.

The American Society of Plant Physiologists, in joint session with the Western Section of the society. will begin its meetings on Tuesday morning, with a symposium on "Chlorosis" conducted by Dr. W. W. Aldrich. The Western Society of Soil Science has tentatively arranged to join in this meeting. Tuesday afternoon will be devoted to short papers. On Wednesday morning, Dr. F. W. Went will conduct a symposium on "Plant Hormones." This will be followed with a luncheon to which all those particularly interested in the details of hormone research will meet and discuss the problem further. In the afternoon, the society will join with the other affiliated societies for a meeting of the Section on Botanical Sciences. One of the speakers is Dr. Frederic E. Clements, who will speak on "Environment and Expression in Species." This meeting will be followed by the Biologists' dinner. On Thursday morning, Dr. A. H. Hendrickson will conduct a symposium on "Drought Resistance in Plants." Thursday afternoon and Friday morning will be devoted to short papers. On Thursday evening the plant physiologists will have a dinner, to be followed with an address by the president of the society, Dr. R. B. Harvey. Friday afternoon and evening will be spent in sight-seeing and picnicking.

The American Fern Society will not hold an indoor meeting for the reading of papers, but will take a field trip to study some of the notable ferns of the Boulder Canyon on Sunday, June 20, and/or Monday, June 21.

The Ecological Society of America will hold two sessions, one of which will be a symposium on "Conservation Management of Wildlife," on Wednesday morning, presided over by Dr. H. L. Shantz, director of the U.S. Division of Wildlife Management, with three other speakers from the states of Colorado. Wyoming and Utah. On Thursday morning, a session will be held for presentation of papers. The general symposium, under the joint auspices of the society and the American Association, will be held on Thursday afternoon, on "The Scientific Aspects of the Control of Drifting Soils." including various features of conservation in the Great Plains. The society has arranged a Biologists' Dinner, without speeches, for Wednesday evening, preceding the evening lecture of the association. Field trips will be a special feature of the program. These will be under the guidance of botanists, zoologists, geologists and others, who will explain matters of interest in biology, geology, conservation projects and scenic features. On Tuesday, an all-day excursion will be made through the Denver mountain parks to Echo Lake and the summit of Mt. Evans. The foothills of the Rockies, the montane zone, timberline and the alpine region will be visited. Wednesday afternoon, a four-hour excursion will be made to the Garden of the Red Rocks and Lookout Mountain. The Great Plains and the foothills will be considered. For the week-end of Saturday-Sunday, June 26-27, a choice of two excursions may be made. If desired, portions only of these may be taken. One trip will be to the Colorado Springs and Pike's Peak region, with visits to the U.S. Soil Conservation projects near the Springs, and to the Alpine Laboratory of the Carnegie Institution of Washington, on the slopes of Pike's Peak, with its transplant gardens. Scenic features will include the Garden of the Gods, South Chevenne Canvon and Seven Falls, and Pike's The other week-end excursion will be to the Rocky Mountain National Park, to observe various types of vegetation and animal life in different altitudinal zones of the Rockies, and spending Saturday night at Science Lodge of the University of Colorado at 9,500 feet elevation.

The Western Society of Naturalists will meet jointly with the Section on Botanical Sciences, with one speaker to represent the society on the program. There will be another session for presentation of papers. Members of the society will join with other biologists in the Biologists' Dinner to be held on Wednesday evening.

The Section on Anthropology (H) will meet on Wednesday and Thursday. The Department of Indian Art of the Denver Art Museum will be host to the section. The program will be built around the relationships, or lack of them, between the Plains, Southwest, Texas and Southern California areas, with discussions concerning relative chronologies and influences. It is planned to spend Friday visiting the Lindenmeier Folsom Site and the archeological collections at the University of Colorado. If there is sufficient interest, a trip will be made on Saturday to Colorado Springs to visit the new Taylor Museum for Southwestern studies, Colorado College and other institutions in that city. Time will be allowed for visiting the Indian exhibits of the Art Museum, the State Historical Society, the Colorado Museum of Natural History and the Department of Anthropology of the University of Denver.

The Section on Psychology (I) will hold sessions on Monday and Tuesday. There will be papers from leading psychologists throughout the West, including the Rocky Mountain region, the Southwest and the Pacific Coast. Included in these sessions will be a dinner meeting at the Cosmopolitan Hotel. Other features will be symposia on topics of vital interest in psychology, excursions to Rocky Mountain parks, a visit to the High Altitude Laboratory on Mt. Evans, and visits to psychology laboratories in adjacent institutions, such as the University of Colorado at Boulder, Colorado State College at Ft. Collins, Colorado College at Colorado Springs, and the Colorado State College of Education at Greeley.

The Section on Social and Economic Sciences (K) will feature joint meetings of affiliated and related societies, including the Econometric Society, the American Statistical Association, the Sociological Research Association and Pi Gamma Mu, honorary social science society. On Thursday evening the participating societies will unite in a general meeting, to be addressed by Dr. Carl Snyder, for many years with the Federal Reserve Bank in New York, who will speak on "New Foundations for an Economic Science." Dr. Stuart A. Rice, of the Central Statistical Board, will preside. A luncheon meeting on Friday will be addressed by Dr. George Gallup, conductor of nationwide surveys of popular reaction to public questions, on "Measuring Public Opinion." His paper will be discussed by Dr. Claude Robinson and Dr. Louis Bean. The meeting will be open to all psychologists, sociologists, statisticians and other interested scientists.

Three sessions are scheduled by the Econometric Society: the first in joint session with the Section on Mathematics (A) on "Mathematical Economics," on Thursday morning, under the chairmanship of Dr. C. F. Roos, of the Mercer Allied Corporation, with Professors G. C. Evans, of the University of California, H. T. Davis, of Indiana University, and Gerhard Tintner, of the Cowles Foundation, as speakers; the second on Thursday afternoon in association with the Section on Mathematics and the American Statistical Association, the topic to be "Mathematical Probability and Statistics," with Dr. E. R. Hedrick, of the University of California at Los Angeles, acting as chairman, and speakers including Professors J. Shohat, the University of Pennsylvania, Holbrook Working, Stanford University, and E. L. Dodd, the University of Texas; the third scheduled Saturday morning on "Inflation," to include James Harvey Rogers, of Yale University, and Lionel Edie, of the Capitol Research Company.

In addition to joining with the Econometric Society on Friday morning, the American Statistical Association has arranged a session for Thursday morning on the subject of "The Organization and Technique of National Statistical Surveys" and a session for Friday morning on the subject of "Family Expenditures, Public Health and Social Security."

The Section on Engineering (M) plans to hold a group of independent and joint sessions, under the leadership of a special committee of the Colorado Engineering Council and with the cooperation of the Foresters Association. The Engineering Section meeting is planned for Monday afternoon, June 21, followed by foresters' meetings on Tuesday and Wednesday, all day, June 22 and 23. On Thursday, June 24, there will be inspection trips, one for the engineers and one for the foresters. A program of mutual interest to both engineers and foresters is being arranged with the desire that both engineers and foresters attend in common the meetings arranged by each. The Section on Engineering is fortunate in securing the cooperation of the Colorado Engineering Council, which comprises within its membership the local membership of the national professional engineering societies. Arrangements for the meetings are in charge of a committee of the Colorado Engineering Council, headed by Dana E. Kepner, of 1921 Blake Street, Denver, Colorado.

The Institute of the Aeronautical Sciences is organizing a session of invited papers by Dr. W. R. Gregg, chief of the U. S. Weather Bureau, Colonel Edgar S. Gorrell, president of the Air Transport Association of America, Mr. Fred D. Fogg, director of Air Commerce, U. S. Department of Commerce, and Dr. Clark B. Millikan, of the California Institute of Technology. The session is tentatively scheduled for Tuesday afternoon.

The Section on Medical Sciences (N) will hold sessions on Tuesday, Wednesday, Thursday and Friday. On Monday morning there will be a joint program with the Southern California Section and the Pacific Coast Section of the Society for Experimental Biology and Medicine. Several excellent papers have been arranged for this program from the fields of physiological chemistry, physiology and psychiatry. Workers associated with the Childs Research Council will present a summary of their recent findings. The studies from this group have been of inestimable value to the pediatrician. The afternoon session on Monday will be held jointly with Section N2, the Subsection on Pharmacy. Included on the program is a paper by F. E. Garlough, of the U. S. Biological Survey, dealing with the "Variation in the Response of Certain Birds and Mammals to Strychnine." This is one of a series of studies on the alkaloid, strychnine. Dr. Edward Jackson, professor emeritus of ophthalmology in the University of Colorado, will discuss "Physiology and Disorders of Equilibrium." It may be recalled that Dr. Jackson is the founder of the Journal of Ophthalmology and has been an outstanding leader in his special field for many years.

The programs on Tuesday, Wednesday and Thurs-

day, which will extend from 10 o'clock to one o'clock, will be devoted to a "Symposium on Diseases Caused by Acid-Fast Bacteria." The Tuesday session will be of an introductory nature, in which the common bacterial, chemical and pathological characteristics of the members of the acid-fast group will be reviewed. The chief point in the meeting is to bring out the fact that all the acid-fast organisms, regardless of what disease they cause, have some characteristics in common. A number of distinguished workers will be represented on the program. Dr. Florence R. Sabin, of the Rockefeller Institute for Medical Research, will cover the subject from the point of view of cellular pathology. Dr. Sabin's outstanding contributions in this field are too well known to require further comment. will be several papers in which groups of workers have combined in an effort to give as thorough a review of the subject as our present knowledge warrants. The combination papers are indicative of the cooperative spirit of scientific investigation in the various laboratories in the country. The sessions will be brought to a close by a general discussion, with Dr. Harry J. Corper in charge.

The second day of the symposium will be devoted to a consideration of specific diseases and is listed as "Tuberculosis and Other Animal Diseases of Acid-Fast Origin." The first paper, "Tuberculosis in Domestic Animals," by Dr. George W. Stiles, associate bacteriologist of the U.S. Bureau of Animal Industry, will be followed by a joint paper on the "Tuberculin Reaction in Cattle and No-lesion Reactions." Drs. William H. Feldman, Arthur B. Crawford and L. L. Daines will each cover certain phases of this general subject. The next topic will be a review by Dr. Joseph D. Aronson, of "Tuberculosis in Cold-Blood Animals." Dr. Aronson is particularly qualified to present this subject because of his exhaustive research in this particular field. "Johne's Disease" is a malady of cattle that has been extensively studied at Cornell University for many years, and Dr. W. A. Hagen will discuss this disease. The papers of this session will be summarized by Dr. William Charles White, chairman of the Committee on Medical Research of the National Tuberculosis Association.

Thursday will be turned over to the subject of "Leprosy," a condition universally associated with Hansen's bacillus. A program has been developed with the aid of the Medical Advisory Board of the American Leprosy Foundation (Leonard Wood Memorial) and promises to be of unusual interest. This is probably the first time an attempt has been made in the United States to bring together the outstanding American workers in this field. Following papers on "Geographical Distribution," "Epidemiology," "Bacteriology and Immunology," "Cultivation" and

"Institutional Segregation," Mr. Perry Burgess, president of the foundation, will close the symposium with a general discussion. Mr. Burgess's knowledge of leprosy as a world problem will be of great value in bringing together the various aspects of this disease.

The program on Friday will be opened by an address commemorating the work and life of Henry Sewall, a distinguished physiologist who died last year. This memorial address will be followed by a series of research and clinical papers dealing with various phases of human tuberculosis and diseases of the chest. The Colorado workers have arranged the program, and through Dr. James J. Waring, chairman of the committee on local arrangements, a cordial invitation has been extended to all who wish to visit the various departments of the Medical School to make their desires known and guides will be provided.

The Society for Experimental Biology and Medicine, Southern California and Pacific Coast Sections, will hold a joint session with the Section on Medical Sciences (N) on Monday morning. The program will consist of papers limited to ten minutes each.

The Section on Agriculture (O), in cooperation with the faculty of Colorado State College, will give a program of papers dealing with the scientific background of agricultural development in the Rocky Mountain region. This will include presentations of the geologic and edaphic characteristics of the area, water supply and related problems, range, horticultural and agronomic resources, each given by specialists within their respective fields. Sessions will be held on Wednesday afternoon and Thursday morning. On Friday and Saturday an agricultural field tour will visit the Colorado Agricultural Experiment Station at Fort Collins, the U.S. Department of Agriculture Horticultural Field Station and Dry Land Experiment Station near Cheyenne, Wyoming, and the Agricultural Experiment Station of the University of Wyoming at Laramie. Return to Denver will be via Rocky Mountain National Park. If desired, stops will be arranged at field projects of the Soil Conservation Service and the Resettlement Administration.

The Society of American Foresters will hold sessions

during the period of the meeting. Opportunity will thus be afforded for contact and joint activity with the various sections and societies in which members of the society are interested. A program is being prepared that will feature some of the phases of forestry that are of national importance. This will take the form of a symposium on "Forests and Waters." Field trips will be arranged that will give an opportunity to see at first hand some of the problems and the work in forestry that are distinctive in this region. Many scenic and scientific attractions in the mountains of Colorado will repay visitors for their trip. This will be the first official visit of the society in the Rocky Mountains, and, accordingly, will offer many members the opportunity for exploration in virgin territory so far as forestry is concerned. Joint sessions will be held with the Section on Engineering (M) on Monday afternoon and with the Hydrology Section of the American Geophysical Union on Tuesday.

The Western Society of Soil Science, which regularly meets with the Pacific Division, will hold sessions at Denver on June 21 and 22.

The Section on Education (Q) has organized a special committee for the purpose of carrying out a strong and effective program. The local secretary for the section is Mr. Charles E. Greene, assistant superintendent of schools of Denver.

The National Social Science Honor Society, Pi Gamma Mu, will hold a luncheon on Thursday at 12 o'clock at the Cosmopolitan Hotel.

In conformity with the recently developed policy of the American Association of University Professors to hold regional conferences, one or two half-day sessions are being planned for the region which includes Colorado, New Mexico, Utah and Wyoming, in order to arouse a greater consciousness in teachers of the work being carried on by that organization. The program will include papers representative of both teaching and administration. It is hoped that President Carlson will take an active part. Although the meeting is being called as a regional one, it is hoped that all members attending the Denver meeting will join in making it a real success.

# OBITUARY

# MILTON JAY GREENMAN

WHEN a visitor to the Wistar Institute entered the office of the director, he found a genial, alert man, trained in biology, gifted to an unusual degree with mechanical and inventive abilities, with business capacity and good judgment, based on the imagination needed for an administrator. Thus Dr. Greenman was peculiarly fitted to bear his many responsibilities.

He died on April 7, in his seventy-first year, failing rapidly in the few weeks before his death—and the institute thus lost its real scientific founder, to the sorrow of all those associated with him.

In 1892 he graduated in medicine from the University of Pennsylvania, and became at once associated with Dr. Horace Jayne in the biological work at the university. In 1893 Dr. Jayne became director of the