

Association Affairs

Preliminary Announcement of the Berkeley, California, Meeting, Dec. 26-31, 1954

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Associate Administrative Secretary

The 121st Meeting of the American Association for the Advancement of Science, the annual meeting for the year 1954, will be unique in several respects. It will be the first national *winter* meeting of the AAAS west of the Rockies. Second, it will be the first time in recent years that the December meeting has been concentrated on one campus. Third, for the last week of the year, Berkeley will be the statistical capital of the world. However, all principal fields of science will be represented. The number and variety of participating organizations, in addition to the 18 sections and subsections of the Association, indicate that this year's national AAAS meeting will be by far the largest diversified scientific meeting ever held on the Pacific Coast.

Consistent with the westward shift of the nation's population and increasing AAAS membership, the Association's meetings in the West have increased—though, at first, only gradually. The fifth meeting of the Association in 1851 in Cincinnati was the first meeting held west of the Appalachians. In 1872, the 21st meeting, in Dubuque, Iowa, reached the Mississippi. In 1901, the Association's 50th meeting was held in Denver, in the shadow of the Continental Divide, and then, 14 years later, the shore line of the Pacific at last was reached.

The 67th or "First Pacific Coast Meeting" of the AAAS, Aug. 2-7, 1915, was held with the double purpose of aiding in the development of science in that region and celebrating the completion of the Panama Canal. Some sessions were held in Berkeley, on the campus of the University of California, and some in San Francisco, downtown and on the grounds of the Panama-Pacific International Exposition next to the Presidio. A full day was scheduled at Stanford University. The Pacific Division of the Association had been organized, but it counts as its first meeting the one in San Diego, Aug. 1916. With the exception of the war years 1917 and 1943-45, inclusive, the AAAS Pacific Division has met each year throughout its territory.

With the first Pacific Coast Meeting a success, it is not surprising that thereafter the national AAAS, whenever possible, met summers with the Pacific Division: in 1922, at Salt Lake City; in 1923, at Los Angeles; in 1925, at Portland, Ore.; in 1931, at Pasadena; in 1934, at Berkeley; and in 1940, at Seattle. This year's national meeting of the Association, however, is the Association's first large-scale, or winter, meeting on the "Pacific Rim."

Usually, at a typical AAAS meeting, some sessions are held in academic buildings of universities in the convention city; but for many years it has been impossible to center the entire meeting at one institution. At Berkeley, however, the exceptional facilities of the compact campus of the University of California make possible a unified and convenient meeting. As host, the University of California most generously has offered every necessary facility: well-equipped session rooms in its newest classroom buildings; its cafeterias nearby; all dormitory units—with breakfasts served "in" if desired—and, quite with-

out precedent, the large Gymnasium for Men which will house the Registration Center, the AAAS Science Theatre, and the Annual Exposition of Science and Industry. With some lounge facilities installed, this building, on Dana Street, will serve as the center of the meeting.

In addition to the meetings of the American Statistical Association, the Institute of Mathematical Statistics, and the Biometric Society, WNAR, the Third Berkeley Symposium on Mathematical Statistics and Probability will bring together the leading statisticians of all continents and, thus, lend a welcome international quality to the 121st Meeting. This Symposium, or Congress, held at intervals of 4 or 5 years, will have sections for both pure statistics and applications to astronomy, biology, public health, and other fields.

When the Board of Directors of the Association selected the Pacific Coast as a meeting place, the vote was unanimous and upon condition it would not interrupt the regular June meetings of the AAAS Pacific Division. It was further agreed that the administrative office of the Division would not be called upon to lend assistance beyond advice, information, and good wishes. Accordingly, the Pacific Division scheduled its 1954 and 1955 meetings in Pullman, Wash., and Pasadena, Calif.

Although the December AAAS meeting in Berkeley will not be a joint meeting with the Pacific Division, the Division will, in a sense, be host to the national organization. The Division's constituent societies—and its individual members—will enjoy playing hosts to their colleagues from other parts of the country.

Virtually all the societies that meet regularly with the Pacific Division will also have sessions for contributed papers, special programs, or both, at Berkeley. Societies that will hold their national meetings with the AAAS at Berkeley include the American Society of Limnology and Oceanography, the Society of Systematic Zoology, the National Association of Biology Teachers, the American Nature Study Society, the Meteoritical Society, and the seismologists. Other national societies arranging special programs include the American Society of Naturalists, the Ecological Society of America, the Mycological Society of America, the Society for Research in Child Development, and the National Science Teachers Association. Among the regional organizations, the annual December Pacific Coast meeting of the American Physical Society, the regular winter meeting of the Western Society of Naturalists, the Pacific Coast Entomological Society, the Western Psychological Association, the Astronomical Society of the Pacific, the California State Veterinary Medical Association, the Southern California and Northern California-Hawaiian Branches of the Society of American Bacteriologists, the Southern California and Pacific Coast Sections of the Society for Experimental Biology and Medicine, *et al.*, all will augment the attendance and make this a record-breaking scientific conclave.

Transportation. A trip to California is a memorable experience at any time and, in this modern period, the approach of winter need change no one's wish to reach Berkeley. In general, there is no reason to be uneasy about cancellation or serious interruption of scheduled transcontinental air and railroad service. Automobile transportation is feasible. The all-weather southern route via Arizona and the Great Valley permits a side trip to Grand Canyon.

Beginning with the April 9 issue of *Science*, a page in the advertising section outlines the one-way travel time between New York, Washington, Chicago, and San Francisco. Also given are the round-trip fares, with the new lowered 10 percent federal transportation tax included.

Housing. Sleeping accommodations are unlimited but, of course, vary in their convenience to the campus. Those in Berkeley alone can accommodate 2500 persons, since all the dormitories, a block of rooms at International House, and all hotels and motels are committed. In reserve are the housing facilities of the neighboring community of Oakland and of San Francisco, across the great Bay Bridge. All housing will be handled by the AAAS Housing Bureau, which will be operated by the Berkeley Convention Bureau.

The dormitories of the University, accommodating about 750 persons, will be available at a uniform rate of \$2 per person the first night and \$1 per night thereafter. Priority for these will be given to students and younger scientists. In the hotels, single rooms range from \$4 to \$10 per night at the Shattuck and Durant, for example; \$5 to \$11 at the Claremont; all have rooms without bath at \$3 per night. All motels charge \$4 to \$5 per night per single room; \$5.50 to \$8 for twin-bed rooms. The motels not close to the campus will be assigned to those who drive to the meeting. Headquarters of each participating society will be given in a later announcement. Detailed housing information and a coupon for room reservations will appear in *Science* and *The Scientific Monthly* beginning in July.

Advance registration. As in recent years, advance registrants will receive the General Program-Directory early in December by first-class mail. Coupons will appear in the AAAS journals beginning in late July.

Tours. A committee on tours has not been appointed but it is anticipated that there will be a demand for tours to the following: (i) Strawberry Canyon, the Berkeley Hills, Mount Diablo; (ii) California Academy of Sciences in Golden Gate Park—Museum, Aquarium, new Planetarium; (iii) Mount Tamalpais and Muir Woods (redwoods); (iv) Stanford University and Mount Hamilton.

AAAS general symposium. By custom, the President of the Association is chairman of the Symposium Committee and, with the approval of the Board of Directors, he appoints the remaining members. The 1954 Symposium Committee consists of Warren Weaver, Rockefeller Foundation, chairman; George W. Beadle, California Institute of Technology; Fred N. Briggs, University of California, Davis; Perry Byerly, Adrianée S. Foster, Joel H. Hildebrand, Ernest O. Lawrence, Jerzy Neyman, Robert G. Sproul, Wendell M. Stanley, and Otto Struve, all of the University of California, Berkeley; Joseph Kaplan, Louis B. Slichter, and Stafford L. Warren, of the University of California, Los Angeles; Harry J. Deuel, Jr., University of Southern California; Donald H. McLaughlin, Homestake Mining Company, San Francisco; Robert C. Miller, California Academy of Sciences; Roger R. Revelle, Scripps Institution of Oceanography; Robert R. Sears and Douglas M. Whitaker, of Stanford University; and Raymond L. Taylor, AAAS, secretary.

The Committee met at Berkeley on Feb. 25 and decided on one general symposium, "Science and society," the three sessions of which will be held on three consecutive afternoons beginning at 4 P.M. The individual sessions were outlined in a preliminary way and were made the responsibility of three program chairmen as follows: I. "Resources," Louis B. Slichter; II. "Population problems," Curt Stern, University of California, Berkeley;

III. "Impact of science on society," Roger R. Revelle.

Special sessions. The special sessions that have already been planned are as follows: Dec. 27, annual address of Phi Beta Kappa (15th in the series), 8:30 P.M.; Dec. 28, AAAS Presidential Address by E. U. Condon, 8 P.M., followed by a reception; Dec. 29, Society of the Sigma Xi annual address (annual since 1922), 8:30 P.M.; Dec. 30, Scientific Research Society of America annual address (6th in the series), 8:30 P.M. The Pacific Science Board will sponsor an address, and the National Geographic Society will have its usual excellent lecture and accompanying film.

THE PROGRAMS

A—Mathematics

Section A and the *American Mathematical Society* will have joint sessions on two days for contributed papers and invited addresses, and will cosponsor appropriate programs. The *American Statistical Association* will hold a regional meeting, with Maurice I. Gershenson as program chairman. Among the sessions being arranged are: "Regional indexes of business activity" and "Regional unemployment estimates" with cosponsorship by the *Pacific Coast Committee on Social Statistics* of the Social Science Research Council; the society's Committee on Statistics in the Physical Sciences is developing sessions on "What does probability mean to the engineer, physicist, and mathematician?" and will cosponsor a number of the other statistical sessions. The annual national meeting of the *Institute of Mathematical Statistics* will be held with the AAAS in Berkeley Dec. 26–31, inclusive. Under the direction of Jerzy Neyman, the *Third Berkeley Symposium on Mathematical Statistics and Probability* will have sessions for papers devoted to mathematical statistics proper; applications to mathematics, astronomy, physics, and engineering; applications to genetics and biology; and applications to public health.

B—Physics

Section B will schedule a vice-presidential address by George R. Harrison and will cosponsor appropriate programs. The *American Physical Society* will hold its regular December meeting with sessions for contributed papers and for invited addresses. Under the chairmanship of Cornelius A. Tobias, the *Donner Laboratory* of the University of California will arrange a symposium, "Biological structures: Biophysics of growth," cosponsored by the American Physical Society and probably by AAAS Sections B and N. The 133rd national meeting of the *American Meteorological Society* will consist of six or more sessions for invited and contributed papers. *Sigma Pi Sigma* will cosponsor the Physicists' Dinner.

C—Chemistry

Section C will have several sessions for contributed papers, symposia, the Chemists' Dinner, and a vice-presidential address by Wendell M. Latimer. *Alpha Chi Sigma* will sponsor a luncheon. It is probable that Harry S. Mosher will arrange a program for the California Section of the *American Chemical Society*. The *Pacific Southwest Association of Chemistry Teachers* will have a program.

D—Astronomy

Section D plans a vice-presidential address by Bart J. Bok and joint symposia, "Statistics of extra-galactic nebulae" and "Statistics of the Hertzsprung-Russell diagram," with the *Statistical Laboratory* of the Univer-

sity of California, together with the cosponsorship of the program of the *Astronomical Society of the Pacific* and joint sessions for contributed papers Dec. 27-29, inclusive. The national meeting of the *Meteoritical Society* will comprise four sessions.

E—Geology and Geography

Section E is scheduling several sessions for contributed papers in both geology and geography, a two-session symposium, "Earth sciences from the air," the Geologists' Smoker, and a vice-presidential address by Meredith F. Burrill. The *Geological Society of America* will cosponsor Section E's sessions. The *California State Division of Mines* will conduct tours and display some exhibits. A regional meeting of the *Seismological Society of America* is scheduled. The *National Speleological Society* will hold a regional meeting and the *Arctic Institute of North America* will cosponsor one of the symposia of the Western Society of Naturalists.

F—Zoological Sciences

Section F plans some sessions for contributed papers in fields of zoology other than systematic zoology, the cosponsorship of appropriate symposia of other societies, a vice-presidential address by Horace W. Stunkard, and the cosponsorship of the Zoologists' Dinner. Under the direction of C. V. Duff, the *Cooper Ornithological Society* will have a joint meeting of the Northern and Southern Divisions. The *Herpetologists League*, with Angus M. Woodbury arranging the program, will have a session for contributed papers, a symposium, an informal session for unlisted papers, and a dinner. The *Pacific Coast Entomological Society* will have one or more sessions. The *Society of Systematic Zoology*, with Robert C. Stebbins as program chairman, plans a national meeting, with its Western Division as host, which will include sessions for contributed papers in systematic zoology and evolution, symposia, and the cosponsorship of the Zoologists' Dinner.

FG—Zoological and Botanical Sciences

Among the societies whose fields lie in both botany and zoology, the *American Society of Limnology and Oceanography* will hold its national meeting and have five sessions for contributed papers and a symposium, "Recent advances in biological oceanography," organized by R. W. Hiatt. A symposium is scheduled for a special meeting of the *American Society of Naturalists*. The *Biometric Society, WNAA*, will have sessions for contributed papers and joint sessions with the *Institute of Mathematical Statistics*. Russel K. LeBarron and E. C. Stone will be cochairmen of the program of the *Ecological Society of America*, under the sponsorship of its Western Section. The program includes two days of sessions for contributed papers, a symposium on "Is dew an important ecological factor?" an all-day field trip, and a dinner. The *National Association of Biology Teachers* will hold its national meeting with a program on conservation, sessions for contributed papers, panels, a field trip to Muir Woods, and other sessions jointly with the *American Nature Study Society*. Plans for the regular annual meeting of the *Western Society of Naturalists* are being arranged by John L. Mohr and Richard Eakin for Dec. 27-29. The program consists of symposia on "Conservation of natural resources of the West," arranged by Arthur C. Giese, and "The cell," arranged by Daniel Mazia and Roger Stanier; and there will be concurrent sessions for invited and submitted papers on photobiology, parasitology, ecology, histology-embryology, physiology, natural history,

teaching problems in biology, and arctic biology. The society will have a banquet for all naturalists. The *Society of General Physiologists*, with Albert Tyler as program chairman, will have at least a day of contributed papers and will cosponsor the preceding symposium, "The cell."

G—Botanical Sciences

Section G plans cosponsorship of appropriate programs and probably will have sessions for contributed papers not covered by the participating societies of Section G. The vice-presidential address will be given by Stanley A. Cain, and the section will cosponsor the Botanists' Dinner. The Pacific Division of the *American Phytopathological Society* will have, at its special meeting, a conference on control of soil microorganisms associated with plant diseases, a symposium on "Crop sequence and plant disease control," three concurrent sessions of general and invited papers, and a banquet. The *Mycological Society of America* will have two joint symposia with the phytopathologists, "Physico-chemical control of structural differentiation in the fungi" and "The mode of survival of plant pathogens in the soil"; and sessions for contributed papers. The Western Section of the *American Society of Plant Physiologists* is sponsoring a symposium but no sessions for contributed papers. The *Botanical Society of America* will probably cosponsor appropriate programs.

H—Anthropology

Section H is scheduling sessions for contributed papers in anthropology and archeology, symposia on "Indians of Western North America" and "Culture change in the Pacific," and several other symposia.

I—Psychology

Section I plans sessions for invited papers on the following subjects: the nervous system and behavior, arranged by Donald B. Lindsley; human factors in engineering design, Arnold Small; experiments in social psychology, Richard Crutchfield; research in child psychology, Harold E. Jones; learning, John P. Seward; and psychological factors in highway safety, T. W. Forbes; sessions for contributed papers; and vice-presidential address by Dr. Lindsley. The *Society for Research in Child Development*, with Robert R. Sears as program chairman, is planning a day of sessions. The *Western Psychological Association* will have three symposia, arranged by Rheem F. Jarrett, as follows: "Perception: learned and unlearned," "The present status of psychoanalytic theory," and "Sex differences in personality and intellectual development"; and an invited address.

K—Social and Economic Sciences

Organized last year, the Section K program committee, representing nine participating societies and headed by Harold E. Jones, has decided upon five symposia presented by panels as follows: "Pacific coast population trends," Calvin Schmid, chairman; "The structure of cities," Leonard Broom, chairman; "Regional and inter-regional economic problems," David Revzan, chairman; "Organization of research on western development," Ernest Engelbert, chairman; and "Cost-benefit analysis," M. L. Upchurch, chairman. The *Western Economic Association* will participate as a cosponsor. The section will have a dinner meeting Dec. 29, at which vice president J. B. Condliffe will deliver his address entitled "The international consequences of scientific research." The *National Academy of Economics and Political Science* will have a

symposium on the Randall Report. The *Committee for Social Physics* will have three sessions, "Diffusion theory," "Human values measurement," and "Isomorphisms," arranged by Stuart C. Dodd. The *Society for the Advancement of Criminology* is arranging a program with William Dienststein, chairman.

(Note: The programs of the *American Statistical Association* and other groups in statistics will be found under A—Mathematics.)

L—History and Philosophy of Science

Section L plans sessions for contributed papers and symposia and a vice-presidential address. The *Philosophy of Science Association* will have several sessions.

M—Engineering

Baldwin M. Woods, program chairman for Section M, reports that no less than eight sessions are being planned as follows: "Prosthetic devices," arranged by Eugene Murphy; "Highway safety—relation of eye defects to accidents"; "Seismology"; "Oceanography (ocean as a source of food)"; "Water, irrigation, and power"; "Stream pollution"; "Present state of the smog problem"; "Highest use of raw materials."

N—Medical Sciences

Alpha Epsilon Delta National Premedical Honor Society will schedule a general session on premedical education, a luncheon, and workshop groups. A symposium is being arranged for the meeting of the *American Academy of Forensic Sciences* by Ralph F. Turner. The *American Association of Hospital Consultants* is scheduling a symposium, as is the *American Psychiatric Association*. The *California State Veterinary Medical Association* is planning sessions for its regular winter meeting. David M. Greenberg is arranging two sessions for contributed papers for the meeting of the *Pacific Slope Biochemical Conference*. The *Society of American Bacteriologists* is scheduling a joint meeting of its Southern California and Northern California-Hawaiian Branches. Paul Starr and Robert H. Dreisbach, program chairmen of the *Society for Experimental Biology and Medicine* at the joint meeting of the Southern California and Pacific Coast Sections, plan one session for papers and another for a symposium, "Adrenal-pituitary relationships." An important three-day international *Conference on Animal Venoms* is being arranged by Nandor Porges and will be cosponsored by Sections F and N.

Subsection Nm—Medicine

Subsection Nm will sponsor a four-session symposium on cancer entitled "Physiology of growth—normal and abnormal," being arranged by Howard R. Bierman. The vice-presidential address will be given by Charles B. Huggins and the 1954 Theobald Smith Award will be presented.

Subsection Nd—Dentistry

Subsection Nd plans symposia on "Hazards of dental radiation" and "Growth and development"; these will be cosponsored by the *International Association for Dental Research*, the *American Dental Association*, and the *American College of Dentists*.

Subsection Np—Pharmacy

Subsection Np is scheduling sessions for contributed papers and symposia, cosponsored by six national pharmaceutical societies.

O—Agriculture

Section O is planning four groups of invited papers on "Agricultural problems of the Far West" dealing with "Soil management problems in western agriculture," H. B. Cheney, chairman; "Water supplies and irrigation," F. J. Veihmeyer, chairman; "Seed production in the western states," J. G. Parsons, chairman; and "Problems in vegetable crops," J. E. Knott, chairman.

P—Industrial Science

Section P will have a round-table conference on some phase of industry and basic research and a luncheon.

Q—Education

Section Q will have two sessions for contributed papers; joint sessions with the *American Educational Research Association*, with the *International Council for Exceptional Children*, and with the Third Berkeley Symposium on Mathematical Statistics and Probability; and the vice-presidential address by George C. Kyte. The *AAAS Cooperative Committee on the Teaching of Science and Mathematics* is scheduling a symposium. The *National Science Teachers Association*, with Robert Stollberg as program chairman, is arranging sessions for invited papers and panels at its regional meeting. "Recent advances in science" should be of wide interest. The buffet supper and mixer for all science teachers will be Dec. 27.

X—Science in General

At its annual meeting, the *Academy Conference* will arrange for an all-day round-table conference and a dinner. The *American Geophysical Union* will cosponsor appropriate programs. Under the program chairmanship of Ruth E. Hopson, the *American Nature Study Society*, at its national meeting, joint with its Western Division, is planning sessions for invited papers, panels, and its annual presidential address. The *California Academy of Sciences* will participate in the AAAS meeting in various ways. Again, for the third time, Mrs. Marian Fineman will arrange several sessions for the *Conference on Scientific Editorial Problems*. A business meeting, and perhaps a session, will be held by the *Honor Society of Phi Kappa Phi*. At its regular meeting, the *National Association of Science Writers* will have a symposium. It is probable that the *Sierra Club* will have joint sessions with the ANSS. The *Society of the Sigma Xi* and the *Scientific Research Society of America* will sponsor evening addresses on Dec. 29 and 30, respectively, and will hold their annual conventions with the AAAS on December 30, morning and afternoon, respectively. The *National Geographic Society* and the *United Chapters of Phi Beta Kappa* will arrange evening addresses, the latter scheduled for Dec. 27. The *Pacific Science Board* will sponsor an afternoon address by Alexander Spoehr, director, Bernice P. Bishop Museum, Honolulu.

Committee Appointments for 1954

(Numerals in parentheses indicate year of expiration of term)

AAAS Research Grants

Barry Commoner, chairman, Washington University
Laurence H. Snyder
H. Burr Steinbach
Allan P. Colburn
Lowell Kelly
Hans Nussbaum
Dael Wolfe, ex officio