

Association Affairs

Preliminary Announcement of the Denver Meeting and Call for Papers by AAAS Sections

As stated in a recent issue [*Science* 133, 1429 (5 May 1961)], the Association's 128th meeting, 26–31 December, will be the first winter meeting ever held in Denver. It will be an event long looked forward to and at last made possible by the availability of new hotel facilities. This will be the third Denver meeting, but the first and second meetings in the Rocky Mountain metropolis were held as long ago as August 1901 and June 1937.

Those who have attended recent AAAS meetings—notably in Chicago in 1959 and last December in New York—need not be reminded that no other scientific meeting presents such a variety of important and attractive symposia in all major fields of science or affords such opportunities for interdisciplinary programs and special events of general interest. Those who have not been to an AAAS meeting for some years may not realize what steady growth there has been in the variety of the sessions and in the attendance—a reflection of the ever-increasing attractiveness of the programs.

Proceedings of some of the many symposia, or their constituent papers, are eventually published—as AAAS symposium volumes, as lead articles in *Science*, or in specialized journals—but not all are, and, in any event, there is a time lapse. Moreover, only those persons who are present can meet the authors face to face and discuss points of interest with them. Many of the symposia will be of particular assistance to college teachers.

This Denver meeting is expected to be the largest general scientific gathering ever held in the region; the physical facilities, however, are adequate and attractive. The quality of the programs and special events—some general, some interdisciplinary, and still others of interest to specialists—will be such as to bring together scientists from all parts of the continent. Then there are

other factors that will contribute to the anticipated attendance. There will be a special meeting of the AAAS-affiliated Colorado-Wyoming Academy of Science. Moreover, the 128th meeting of the Association will also be the 38th annual meeting of the AAAS Southwestern and Rocky Mountain Division. Members of the division have been looking forward to this year's meeting for some time, since it was originally scheduled for 1959 but was postponed for two years because completion of Denver's Hilton Hotel was delayed. The scientific population of the Denver area alone—associated with the large universities, the aviation-missile industry, the Federal Center with its many agencies—is large. Finally, the participating societies, with their national and regional meetings, will bring scientists and teachers in a wide variety of fields. The third Denver meeting will be a particularly significant and memorable scientific congress.

Despite its size, the meeting will be convenient, comfortable, and comparatively inexpensive. The four hotels which will house the approximately 300 sessions—the Denver Hilton, the Brown Palace with its new Annex, the Cosmopolitan, and the Shirley Savoy—are adjacent to the Civic Center and all are across the street, or within a short block or two, from each other. There are many points of interest around the Civic Center, all within walking distance of the four hotels. Among them are the State Capitol with its gold-covered dome, the Colorado State Historical Museum, the Denver Public Library, the Denver Art Museum, and the U.S. Mint, which stores more gold bullion than any other depository outside of Fort Knox. Across the street from the Denver Hilton is the large May-D & F department store, founded in 1864. From this there is both a connecting bridge and an underground passage to the hotel.

Among the societies holding national meetings with the AAAS are the following: American Astronomical Society, American Nature Study Society,

American Society of Criminology, American Society of Naturalists, American Society of Zoologists, Beta Beta Beta Biological Society, National Association of Biology Teachers, Scientific Research Society of America, Society for General Systems Research, Society of Protozoologists, Society of Systematic Zoology, and the Society of the Sigma Xi.

Among other societies with special or regional programs of several days' duration are the following: American Association of Clinical Chemists, American Astronautical Society, American Meteorological Society, American Physiological Society, American Psychiatric Association, Association of American Geographers, Ecological Society of America, National Speleological Society, and National Science Teachers Association.

Still other organizations will have conferences or programs—for example, the American Economic Association, the American Sociological Association, the American Statistical Association, the American Political Science Association, the Association for Computing Machinery, the Society for Industrial and Applied Mathematics, the Institute of Management Sciences, Sigma Delta Epsilon, the Conference on Scientific Communication, the Conference on Scientific Manpower, and the Academy Conference, composed of representatives of the 47 state and city academies affiliated with the AAAS.

Special Sessions

The Committee on AAAS Meetings, which has responsibility for the general pattern of the meeting and the details of the general sessions, including the "Moving Frontiers of Science" program, in a joint meeting with the secretaries of the AAAS sections early this year, outlined a particularly attractive series of special sessions and general events. In chronological order, these are as follows.

26 December, evening. Part I of "Moving Frontiers of Science." This program, which consists of lectures by authorities in their respective fields, is planned to be of general interest to all who attend the Denver meeting and to present recent developments in terms intelligible to scientists in other disciplines. All of the sections and many of the participating societies have left these lecture periods open in their schedules.

A fundamental paper on this first

evening of the meeting will be given by Howard A. Meyerhoff, executive director, Scientific Manpower Commission, recently vice president for the Section on Geology and Geography. His subject will be "Changing concepts of mineral raw materials in the national economy." A contrasting paper will be given by Arthur R. von Hippel, director, Laboratory for Insulation Research, Massachusetts Institute of Technology. His topic will be "The molecular designing of materials." The session will be chaired by board member Harrison Brown, professor of geochemistry, California Institute of Technology.

27 December, evening. The 29th John Wesley Powell memorial lecture of the Southwestern and Rocky Mountain Division will be given by Glenn T. Seaborg, chairman, U.S. Atomic Energy Commission, on a topic to be announced.

28 December, morning. Four interdisciplinary symposia in the physical, biological, and social sciences will be presented concurrently. Two of these, as noted, will have additional or complementary sessions on other days. These programs are as follows.

"Physics of the Upper Atmosphere," which will be jointly sponsored by Sections B-Physics and D-Astronomy, cosponsored by the American Geophysical Union, and probably cosponsored by the American Astronomical Society (arranged by Stanley S. Ballard, Florida).

"Geochemical Evolution—the First Five Billion Years" (two sessions, the second to be held the morning of 29 December), sponsored by Section C-Chemistry, cosponsored by Section E-Geology and Geography and the American Geophysical Union (T. S. Lovering, U.S. Geological Survey, Denver). Speakers include G. R. Burbidge (Yerkes Observatory); George Gamow (Colorado); Philip H. Abelson (Carnegie Institution of Washington Geophysical Laboratory); A. E. J. Engel (University of California, La Jolla).

"Existing Levels of Radioactivity in Man and His Environment: Measurement and Significance," sponsored by Section Np-Pharmacy, cosponsored by Sections F-Zoological Sciences, G-Botanical Sciences, I-Psychology, N-Medical Sciences, Nd-Dentistry, and O-Agriculture (John E. Christian, Purdue). Speakers: Wright H. Langham and Ernest C. Anderson (Los Alamos

Scientific Laboratory), P. R. J. Burch (Leeds), Willard F. Libby (University of California, Los Angeles), and K. T. Woodward (Rochester).

"Water and Climate," jointly sponsored by Section O-Agriculture and the Committee on Desert and Arid Zones Research of the Southwestern and Rocky Mountain Division, cosponsored by Sections E-Geology and Geography, K-Social and Economic Sciences, M-Engineering, and P-Industrial Science, and, probably, by the American Meteorological Society and the American Geophysical Union (Terah L. Smiley, Arizona). Speakers will include Walter Orr Roberts (Colorado), John W. Harshbarger (Arizona), Dwight B. Kline (U.S. Weather Bureau), and Frank J. Trelease (Wyoming).

28 December, afternoon. Part II of "Moving Frontiers of Science." There will be two lectures; one, "The evolution of stars and galaxies," will be given by Halton C. Arp (Mt. Wilson and Palomar Observatories).

28 December, evening. Address of the retiring president of the AAAS, Chauncey D. Leake. Announcement will be made of several awards—the Newcomb Cleveland prize for 1960, the Socio-Psychological prize, and the AAAS-Campbell award for vegetable research. After the address there will be a reception for all registrants, with refreshments and cigarettes provided. Alcoholic beverages will be served at a "Dutch treat" bar. The reception thus will include the AAAS Smoker for all registrants.

29 December, evening. Honor Societies Night. The annual joint address of the Society of the Sigma Xi and the United Chapters of Phi Beta Kappa will be given by Harrison Brown (California Institute of Technology). After a brief interval, the annual address of the Tau Beta Pi Association with the AAAS will be given.

30 December, evening. The annual illustrated lecture and film of the National Geographic Society, usually a first showing.

Other General Events

The *AAAS Committee on Science in the Promotion of Human Welfare*. Barry Commoner (Washington University) will arrange one or more sessions.

The *AAAS Cooperative Committee on the Teaching of Science and Mathematics*. John R. Mayor (AAAS) plans to sponsor a symposium on science

teaching in grades kindergarten through 9.

The *AAAS Committee on Public Understanding of Science* will have its first public program at the Denver meeting (Edward G. Sherburne, Jr., AAAS).

The *Committee on Desert and Arid Zones Research* of the Southwestern and Rocky Mountain Division [Terah L. Smiley (Arizona), chairman] has arranged a two-session symposium on water improvement, cosponsored by Section O-Agriculture (Joseph A. Schufle, New Mexico Institute of Mining and Technology) (30 Dec.). Subtopics and speakers are as follows: control of pollution, William N. Gahr (Colorado State Department of Public Health), Bernard B. Berger (U.S. Public Health Service, Cincinnati), and Gordon McCallum (U.S. Public Health Service, Washington, D.C.); control of saline water encroachment, Robert E. Glover and Morton W. Bittinger (Colorado State) and David K. Todd (University of California, Berkeley); chemical and physical methods of water improvement, H. P. Gregor (Polytechnic Institute of Brooklyn) and George W. Murphy (Oklahoma); and a summary by Peter C. Duisberg (consultant, El Paso) or John F. Lance (Arizona), or both.

The 10th annual *Conference on Scientific Communication* (George L. Seielstad, Johns Hopkins), following last year's multisession symposium on the sciences in Communist China, will sponsor several sessions on current problems in communication.

The program of the 11th *Conference on Scientific Manpower* (Thomas J. Mills, National Science Foundation), cosponsored by the National Science Foundation, National Research Council, Engineering Manpower Commission, and Scientific Manpower Commission and by Sections M-Engineering and E-Geology and Geography, will be devoted to the manpower outlook in geology and related fields of engineering—a subject of special interest in the Denver area. The earth sciences are fields in which there has been less increase in requirements for scientists and engineers. At the symposium the present situation will be reviewed in terms of training, present employment, and utilization; future prospects in traditional activities such as exploration will be considered; and the possibility of retraining for transfer to closely related fields will be assessed.

The *Academy Conference*, founded in 1927 and composed of the official representatives of the now 47 academies of science affiliated with the AAAS, has had a program at each annual meeting of the Association since the fifth New York meeting of December 1928. At this year's 33rd meeting of the conference there will be a full day of sessions (27 Dec.). At the business meeting in the morning, reports of the individual academies will be distributed rather than read, to provide more time for individual comments and for a general discussion of academy problems. In the afternoon there will be a debate on the subject, "Why Collegiate Academies?" between Clinton L. Baker (Southwestern at Memphis) and Norman D. Levine (Illinois), with E. Ruffin Jones (Florida) presiding. The day will conclude with the annual Academy Conference Dinner and the conference presidential address by Robert C. Miller (California Academy of Sciences, San Francisco), with John G. Arnold, Jr., (Loyola) presiding.

The session on junior academies, sponsored by the Academy Conference, will be held 28 December. The Academy Conference also will sponsor the 15th Annual Junior Scientists Assembly, a program for selected high school students interested in science and scientific careers, which will be arranged this year by Sam S. Blanc, coordinator of instruction, Denver Public Schools.

AAAS Council Meetings

The AAAS Council will hold two sessions, on 27 and 30 December. Because election of the AAAS president-elect and of new members of the Board of Directors is now conducted by mail, more time is available at these sessions than formerly for consideration of matters that affect all science and society. The work of the Council is materially assisted by the Committee on Council Affairs. Other committees and many of the sections will have business meetings.

Science Exhibits

The significance of the third Denver meeting has already been recognized by those who produce the books, instruments, and materials which scientists and teachers use. Applications for exhibit booths at the Denver Hilton Hotel have been received at a most gratifying rate. At this time, seven months in advance of the meeting, only a few booths remain to be assigned.

This year's Annual Exposition of Science and Industry will be one of the most balanced and attractive ever presented. Leading publishers, optical companies, and instrument makers and many suppliers of laboratory materials and equipment will show their latest publications and products. In addition, there will be selected displays of some of the research activities of large industrial firms and exhibits of governmental agencies.

Incidentally, the exposition is *not* intended for young people below the college, or the exceptional high-school senior, level, for most of the exhibits are too technical for younger students of science. (To meet the interests of the latter, the Association's Academy Conference annually arranges a Junior Scientists Assembly, at which eminent scientists address a large audience of high school students on aspects of science and scientific careers.) In the best interests of both exhibitors and those interested in their displays, *only registrants are admitted to the exposition*, and young people (under 16) are not registered.

Science Theatre

The AAAS Science Theatre again will show a choice selection of science films, foreign and domestic, in a special room just off the exposition area. As usual, the theatre will run each film at least twice. Thus, those who are especially interested in a particular film will have more than one opportunity to see it.

Physical Facilities

The completely new Denver Hilton, which has been in operation only since April 1960, will be AAAS Headquarters. This 22-story hotel, on Court Place, is wide from north to south and narrow from east to west, so that all 884 sleeping rooms are "outside" and have impressive views. There are spacious public areas, and there is an excellent range of well-equipped session rooms. Welcome features are the parking area for 1500 cars and the high-speed, self-operated elevators. The Hilton will be the site of the Association's business sessions, the AAAS Pressroom, and the AAAS Office. Its 2B level will house the Annual Exposition of Science and Industry and the AAAS Science Theatre; the special sessions and most of the general events will be held in the large ballroom.

Three other hotels will be the headquarters of related sections and so-

cieties: the Brown Palace and the new Brown Palace Tower (connected by a bridge), at 17th Street and Tremont Place, with 600 rooms; the Cosmopolitan, at 18th Street and Broadway, with 425 rooms; and the Shirley Savoy, at 17th Street and Broadway, with 400 rooms. The session rooms of the four hotels will be used intensively. Uniform rates for the Association meeting have been established, as follows: Room with single bed, \$8 and \$8.50; room with double bed, one occupant, \$7.50, \$9, and \$10; room with double bed, two occupants, \$10 and \$13; room with twin beds, one occupant, \$9 and \$10; room with twin beds, two occupants, \$12, \$14, and \$15; and studio type room with twin beds, \$15. Sleeping accommodations in other hotels, farther from the Civic Center, will also be available, if needed.

The headquarters of the sections and societies will be announced in *Science* in July, at which time coupons for housing and advance registration will appear among the advertising pages. (To secure the special rates, registrants should use the hotel room coupon, or a reasonably accurate copy of it, and should send it directly to the AAAS Housing Bureau, 225 West Colfax Ave., Denver 2, Colo.) As usual, advance registrants will receive the *General Program* early in December.

Programs. A synopsis of the programs, arranged by disciplines, follows. The names given in parentheses are those of section and society officers or program chairmen.

Mathematics (A)

The program of Section A (Wallace Givens, Northwestern) will include a morning session on digital computers and matrix computation (30 Dec.), in which George E. Forsythe (Stanford) will speak on educational implications of the computer revolution. Another speaker will be Richard Hamming of the Bell Telephone Laboratories. This session will be cosponsored by the *Society for Industrial and Applied Mathematics* (James H. Griesmer, IBM Research Center, Yorktown Heights, N.Y.) and by the *Association for Computing Machinery* (Bruce Gilchrist, IBM Research Laboratory).

In the afternoon (30 Dec.), Section A and the *Committee on the Undergraduate Program in Mathematics* of the Mathematical Association of America will jointly sponsor a program on recommendations for the training

of teachers of mathematics, arranged by Robert J. Wisner (Michigan State). Section A also will jointly sponsor the session of the *Institute of Management Sciences* (Merrill M. Flood, Michigan) on recent mathematical, statistical, and economic developments useful in management science (29 Dec.). Section P will cosponsor this session.

Physics (B)

Section B (Stanley S. Ballard, Florida), with Section D—Astronomy and, probably, the American Astronomical Society, will jointly sponsor the symposium on physics of the upper atmosphere, (28 Dec.), mentioned above under Special Sessions. The American Geophysical Union will be a cosponsor. There will be a specialized two-session symposium on physics research in the Rocky Mountain area (27 Dec.). The annual physicists' luncheon (27 Dec.) will be jointly sponsored by Section B and *Sigma Pi Sigma*, the latter making the arrangements. The address after the luncheon will be given by vice president Henry D. Smyth (Princeton).

The *American Astronautical Society* will hold a regional meeting (probably 27 Dec.)

The *American Meteorological Society* (Kenneth Spengler, AMS) may sponsor a special program of invited and contributed papers. The society will also cosponsor appropriate sessions.

Chemistry (C)

The program of Section C (Essie White Cohn, Denver) begins 27 December with a two-session symposium on extraterrestrial biochemistry and biology (Charles R. Phillips, U.S. Army Biological Laboratories, Fort Detrick, Md.) and, concurrently, a two-session symposium on advances in carbohydrates (Horace S. Isbell, National Bureau of Standards). Speakers at the former include A. G. Wedum (Fort Detrick, Md.), Richard Ehrlick (Armour Research Laboratories, Chicago), Hubertus Strugghold (School of Aviation Medicine, Brooks Air Force Base, Texas), Henry C. Stubbs (Milton Academy), Carl Sagan (California), and Sidney Fox (Florida State).

Horace Isbell will preside over the morning session of the carbohydrate symposium and will give a paper on condensation, cleavage, and rearrangement reactions of carbohydrate materials; other titles and speakers will be as follows: "Pathways of biosynthesis of deoxy hexoses," John H. Pazur (Nebraska), and "Carbon-14- and

tritium-labeled carbohydrates," Harriet L. Frush (National Bureau of Standards).

Roy L. Whistler (Purdue) will chair the afternoon session of the carbohydrate symposium and will give a paper on the properties and uses of polysaccharides. Other titles and speakers will be as follows: "Gas chromatography of carbohydrates," Henry W. Kircher (Arizona); "Digestibility of polysaccharides," Theodore E. Friedman (Colorado); and "Action of enzymes on polysaccharides," Dexter French (Iowa State University of Science and Technology).

The interdisciplinary symposium on geochemical evolution (28 Dec.) is described under Special Sessions. The second part of that program, and sessions for submitted papers as well, will be held 29 December. The Colorado section of the *American Chemical Society* (Walter H. Dumke, Colorado School of Mines) will cosponsor the program of Section C and will be hosts of the chemists' mixer.

The *American Association of Clinical Chemists* (Albert E. Sobel, Jewish Hospital of Brooklyn), in its annual meeting with the AAAS, will have a symposium on a topic of current interest, sessions for contributed papers, and a dinner with a speaker.

Astronomy (D)

Section D (Frank Bradshaw Wood, Pennsylvania) will cosponsor all sessions of the American Astronomical Society and Section B's interdisciplinary symposium on physics of the upper atmosphere. The vice-presidential address will be given by N. U. Mayall (Lick Observatory), with Robert M. Petrie (Dominion Astrophysical Observatory, Royal Oak, British Columbia) presiding (27 Dec.).

The national meeting of the *American Astronomical Society* will begin with a Council meeting the evening of 26 December and will continue through the afternoon of 30 December. On 27 December there will be two sessions for contributed papers, one of these following Section D's vice-presidential address. The astronomers' dinner will be on 28 December, and on 29 December there will be a session for contributed papers and a symposium on magnetic fields in the solar system, arranged by R. Grant Athay (High Altitude Observatory). On 30 December there will be two additional sessions for contributed papers. Other events include a second Council meeting, the

Helen B. Warner lecture by a distinguished astronomer, and a visit to the Chamberlain Observatory. As before, there will be special joint AAAS-AAS convention badges.

The *Astronomical League* (Armand Spitz, Spitz Laboratories, Yorklyn, Del.) will probably have a session early in the meeting period.

Geology and Geography (E)

The program of Section E (Richard H. Mahard, Denison) (26–30 Dec.) includes at least three symposia sessions, sessions for contributed papers, and cosponsorship of other programs, notably the symposium of Section O—Agriculture on land and water use, the interdisciplinary symposium on geochemical evolution, the session of the Conference on Scientific Manpower, and the program of the Association of American Geographers. The two-session symposium on ground-water geology (26 and 27 Dec.) is being arranged by Theodore Walker (Colorado); there will be a session for invited papers entitled "Colorado Plateau stratigraphic studies," on 27 December.

William C. Krumbein (Northwestern) will deliver the vice-presidential address on 27 December, at a dinner for Section E. All geological sessions will be cosponsored by the *Geological Society of America*.

The *Association of American Geographers, Great Plains-Rocky Mountain Division* (M. John Loeffler, Colorado) plans three sessions of invited papers on the population explosion of the western United States. Geographers with special knowledge of the problems of population distribution, space and land utilization, and use and development of resources will participate. A fourth session, one for contributed papers, is also planned. The Association will cosponsor Section O's symposium on land and water use. There will be a geographers' dinner on 29 December.

The *National Speleological Society* (William R. Halliday, 1117 36th Ave. East, Seattle, Wash.) will have two sessions, probably on 27 December.

The *National Geographic Society* will present its usual outstanding lecture and film on 30 December.

Zoological Sciences (F)

The program of Section F (George W. Wharton, Maryland) will be coordinated with the national meetings of the American Society of Zoologists,

the Society of Protozoologists, and the Society of Systematic Zoology. In view of the many sessions of these societies, Section F's program will be restricted to cosponsorship of appropriate symposia and other sessions, joint sponsorship of the zoologists' dinner, and the vice-presidential address of Jack Schultz (University of California, Berkeley). The section's business meeting will immediately follow that of the American Society of Zoologists. Among the symposia cosponsored will be the four sessions of Section N—Medical Sciences, on physiological and biochemical aspects of human genetics.

The tentative program of the national meeting of the *American Society of Zoologists* (Ray L. Watterson, Northwestern), with more than 30 sessions (28–30 Dec.), includes 21 or more sessions for contributed papers, sponsored by all six divisions of the Society, throughout the meeting period; business meetings of five divisions; the annual business meeting of the ASZ as a whole; and a series of symposia. Subjects and speakers at the symposia are as follows: "cellular endocrinology" (Division of Comparative Endocrinology) (28 Dec.); "Neurosecretion" (Divisions of Comparative Endocrinology and Comparative Physiology) (29 Dec.); "Evolutionary changes in the hormonal and neural bases of reproductive behavior" [William C. Young (Kansas), for the Division of Animal Behavior and Sociobiology] (30 Dec.); "Animal locomotion" [D. Dwight Davis (Chicago Natural History Museum), Harvey I. Fisher (Southern Illinois), and Howard Evans (Cornell), for the Division of Vertebrate Morphology] (30 Dec.). The zoologists' dinner, the vice-presidential address of Section F, and, probably, a smoker for biologists are planned for 29 December.

The 14th annual national meeting of the *Society of Protozoologists* (Norman D. Levine, Illinois) includes some six sessions for contributed papers (27–30 Dec.) and a round-table symposium, "Biochemical phyletic markers among the Protozoa," arranged by Seymour H. Hutner (Haskins Laboratories). The annual luncheon and business meeting will be held 29 December.

The *Society of Systematic Zoology* (Charles F. Lytle, Tulane) will hold its 13th annual meeting with the AAAS. The program will include sessions for contributed papers (30 Dec.), meetings of the council, the annual breakfast and business meeting (30

Dec.), a three-session symposium on "The data of classification" (R. E. Blackwelder, Southern Illinois) (27, 28 Dec.), and a second symposium, on "The biogeography of the Philippine Islands." The annual SSZ library and book lounge for all zoologists will be open 27–29 December.

Biological Sciences (FG)

A major feature of the annual national meeting of the *American Society of Naturalists* (Ernst W. Caspari, Rochester) will be the presidential address of Marston Bates, "Man's ecological niche," to be given the morning of 27 December. The business meeting of the society will follow.

The biennial meeting of *Beta Beta Beta Biological Society* (Mrs. Frank G. Brooks, Box 515, Ansonia Station, New York 23, N.Y.), will be held the morning of 27 December; it will be followed by the biennial luncheon and address (H. P. Sturdivant, Western Maryland).

The *Biometric Society*, Western North American Region (Walter A. Becker, Washington State) has recently made plans to participate in the Denver meeting.

The program of the *Ecological Society of America* (Richard S. Miller, University of Saskatchewan) will begin 26 December with a two-session symposium and will continue (27 and 28 Dec.) with other symposia and some six sessions for contributed papers on plant ecology, animal ecology, human ecology, and aquatic ecology, and a series of sessions jointly sponsored by the Section on Animal Behavior and Sociobiology and with the Division of Animal Behavior and Sociobiology of the American Society of Zoologists, arranged by Martin W. Schein (Penn. State). The Society will also sponsor the Human Ecologists' luncheon (27 Dec.).

The *Mountain Lake Biological Station* (Horton H. Hobbs, Jr., Virginia) again will sponsor an annual breakfast with the AAAS for all persons who have been students, investigators, or staff members at the station since its founding in 1929.

The annual national meeting of the *National Association of Biology Teachers* (Muriel Beuschlein, Chicago Teachers College) will begin with business meetings on 26 December. During the meeting period there will be a joint meeting (27 Dec.) with the American Nature Study Society, the

National Association for Research in Science Teaching, and the National Science Teachers Association; the annual NABT presidential address and luncheon (28 Dec.); and a series of separate sessions (27, 29, and 30 Dec.) with the theme "Accent on investigation." A joint session with ANSS on international conservation will be held 28 December and there will be a joint field trip on 29 December.

As it did in New York, the *Nature Conservancy* will hold a meeting of its National Committee for Natural Areas for Schools; arrangements will be made by John W. Brainerd (Springfield College).

Botanical Sciences (G)

Section G (Harriet B. Creighton, Wellesley) plans to inaugurate a series of sessions for invited papers on basic topics for biology teachers, to keep them informed on recent advances. The Section will cosponsor the sessions on plant ecology of the Ecological Society of America and will have sessions for contributed papers in other fields of botany. James F. Bonner will deliver the vice-presidential address of the section at the botanists' luncheon (27 Dec.).

Anthropology (H)

The program of Section H (David M. Pendergast, Utah) will begin with a cocktail party at the Denver Museum of Natural History (27 Dec.). There will be symposia on civilization in desert lands (28 Dec.); on early man in the western United States and on the concept of race (29 Dec.); on applied anthropology (30 Dec.); and on the interdependence of archeology and ethnology (30 Dec.). There will also be sessions for contributed papers (30 Dec.). The banquet of Section H, at the Japanese Roof Garden of the Petroleum Club, at which Jesse D. Jennings (Utah) will give the vice-presidential address, will be held 29 December.

Psychology (I)

Section I (Frank W. Finger, Virginia) has scheduled the vice-presidential address of Carl Pfaffmann (Brown) for 29 December. There will be three symposia (29 and 30 Dec.) as follows: "Sensory factors in food acceptance and appetite," arranged by Carl Pfaffmann; "Aspects of sleep," arranged by W. B. Webb (Florida); and "Control of verbal behavior," arranged by Israel Goldiamond (Arizona State). Contrib-

uted papers relevant to the symposium topics are solicited; abstracts should reach Dr. Finger by 1 July.

Social and Economic Sciences (K)

Section K (Donald P. Ray, National Institute of Social and Behavioral Science), with the *American Statistical Association* and the *National Institute of Social and Behavioral Science* as cosponsors, will hold a symposium (27 Dec.) on current problems in social-behavioral research. Frederick F. Stephan (Princeton) will give the vice-presidential address, on social statistics and the prediction of human behavior.

In addition, Section K will sponsor a session for contributed papers in the social and economic sciences (30 Dec.) and will cosponsor appropriate programs of the K series. The program of the Institute of Management Sciences, cosponsored by Section P and joint with Section A, on recent mathematical, statistical, and economic developments useful in management science (29 Dec.) will be of interest to the Section. These programs have been arranged so that no sessions are concurrent except the last.

The *American Economic Association* (Kenneth E. Boulding, Michigan) will have a program of invited papers, cosponsored by Section K (26 Dec.). This is scheduled early so that AEA members may attend both the AAAS meeting and their national meeting, to be held 27–29 December in New York.

The *American Political Science Association* (Evron M. Kirkpatrick, APSA) will have a special program (27 Dec.) cosponsored by Section K.

The program of the *American Society of Criminology* (Donal E. J. MacNamara, New York Institute of Criminology) begins on 29 December with sessions on problems in rural crime control (Gordon Barker, Colorado) and on experimentation and research in criminology. Other sessions (30 Dec.) will be on "Twentieth-century policing" and on "The criminal law and criminal courts." The annual awards of the Society will be made the evening of 29 December; the presentation will be followed by the business meeting. The annual luncheon and address will be held 30 December.

The *American Sociological Association* (Robert Bierstedt, New York University) will have two symposia (28 and 29 Dec.), cosponsored by Section K and the *Population Association of America*.

The *American Statistical Association* (Harold A. Morse, Colorado–Wyoming Chapter, ASA, Denver) will have two sessions (29 and 30 Dec.) of particular interest to local statisticians, cosponsored by Section K.

Details of the programs of the *Metric Association* (Fred J. Helgren, Abbott Laboratories, North Chicago) and of the *National Academy of Economics and Political Science* (Emmet B. Mittlebeeler, American University) will be announced later.

History and Philosophy of Science (L)

The program of Section L (John W. Streeter, 1700 Walnut St., Philadelphia) (26–30 Dec.) will include sessions in the two areas of interest of its members. In the absence of the History of Science Society, which meets biennially with the AAAS, the emphasis, as in 1959, will be on philosophy, but there will be a symposium, "The history of the mining of uranium," cosponsored by the *Society for the History of Technology*, and another, "The Colorado River in history," both arranged by Streeter.

Section L will have eight sessions, arranged by Norwood Russell Hanson (Indiana University), beginning 26 December and extending over the meeting period; the exact dates have not as yet been determined and some adjustments may be made in this program. Dr. Hanson will preside at Session I, "Empiricism and the Status of Theories." Paul K. Feyerabend (University of California, Berkeley) will speak on how to be a good empiricist; discussants will be Wilfrid Sellars (Yale), George T. McClure (Southern Illinois), and Grover Maxwell (Minnesota). Henry A. Finch will speak on theoretical fruitfulness as a measure of concepts; discussants will include Ernest W. Adams (University of California, Berkeley) and Robert Sternfeld (State University of New York).

Dr. Sternfeld will preside at Session II, "History and Philosophy of Science." A paper on the interdependence of history of science and philosophy of science will be read. Giorgio de Santillana (Massachusetts Institute of Technology), Edward Grant (Indiana University), and Gerald Holton (Harvard) are expected to participate in this program. Nicholas Rescher (Pittsburgh) will speak on ethical problems within science; there will be several discussants.

David Hawkins (Colorado) will preside at Session III, "Conventionalism

and Laws within Modern Physics." A. E. Woodruff (Chicago) will speak on philosophical aspects of the laws of quantum field theory; one of the discussants will be Hilary Putnam (Princeton). Michael S. Watanabe (IBM Research Center) will deliver a major paper on quantum theory within this session. Gerald Holton will speak on historical aspects of special relativity; it is expected that Joseph Epstein (Amherst College) and Richard A. Mould (State University of New York) will be among the discussants.

Session IV will be Section L's vice-presidential address, given by Norwood Russell Hanson. He will speak on "Scientists and Logicians: A Confrontation." Herbert Feigl (Minnesota) will preside at Session V, "Machines and Brains." Hilary Putnam will speak on brains and behavior; among the discussants will be Newton Garver (Minnesota). David Hawkins will speak on design for a mind; discussants will be Michael S. Watanabe, Bruce Aune (Oberlin), and Peter Winch (University College of Swansea).

Kenneth Hammond (Colorado) will preside at Session VI, "Methodological Problems of the Social Sciences." Richard Rudner (Michigan State University) will speak on logical problems of sociology; discussants will be Roger Buck (Indiana University) and Grover Maxwell (Minnesota). Herbert Feigl will speak on a phase of the mind, behavior, and neurophysiology. Discussants will be Roger Buck (Indiana University) and Merle Turner (San Diego State College). Roger Buck will speak on reflexive predictions; discussants will be Adolf Grünbaum (Pittsburgh), Grover Maxwell, and Michael Scriven (Indiana University).

Wilfrid Sellars will preside at Session VII, "Causality." Michael Scriven will speak on a workable concept of causation; discussants will be William Dray (Toronto), William Rozeboom (St. Olaf College), and Grover Maxwell. Adolf Grünbaum will preside at Session VIII, "The Nature of Historical Explanation." Alan Donagan (Indiana University) will speak on the present state of Hempel's Thesis; discussants will be Benjamin Nelson (State University of New York) and Nicholas Rescher (Pittsburgh). William Dray will speak on causal judgments in history; among the discussants will be Newton Garver.

The second George Sarton memorial lecture, sponsored by the George Sarton Memorial Foundation, the History

of Science Society, and Section L, probably will be given at the end of one of Section L's afternoon sessions.

The *Society for General Systems Research* (G. M. Weinberg, IBM Systems Research Institute, New York) will have a symposium on "The teaching and learning of systems thinking" and a second session, for contributed papers (29 Dec.).

Engineering (M)

The program of Section M (Clarence E. Davies, United Engineering Center Project, New York) will include one or more sessions on pressing engineering problems of the Rocky Mountain region. Section M will cosponsor the program of the Conference on Scientific Manpower and the interdisciplinary symposium on water and climate mentioned under Special Sessions.

The *Tau Beta Pi Association* (Robert H. Nagel, Tennessee) will sponsor an address of general interest by a prominent engineer or scientist (29 Dec.).

Medical Sciences (N)

As in previous years, Section N will have a four-session symposium (29-30 Dec.) with participants coming from all parts of the country. Invitations to deliver talks have also been extended to two British scientists. This year's subject is physiological and biochemical aspects of human genetics. The symposium is being organized by Alexander G. Bearn (Rockefeller Institute) with the collaboration of the secretary of Section N. The papers will deal with basic aspects of molecular biology (genes and DNA, and gene-enzyme relationships) as well as with specific metabolic abnormalities, immunochemistry, and broader genetic and medical implications. John B. Youmans (American Medical Association) will give the vice-presidential address, and the winner of the 17th Theobald Smith award, given by Eli Lilly and Company, will be announced. Section N will also cosponsor appropriate programs, such as Section Nd's complementary program on dental genetics.

The annual symposium of *Alpha Epsilon Delta* (Maurice L. Moore, national secretary), on career opportunities in medicine and dentistry, will be held 28 December and will be followed by the annual luncheon and luncheon address, and by a tour of local medical facilities.

The *American Physiological Society* (Robert E. Smith, University of California Medical Center) is planning a

program on space physiology, probably to be cosponsored by the American Astronautical Society. The most recent developments in this fast-moving field will be presented.

The *American Psychiatric Association, Committee on Research* (Milton Greenblatt, 74 Fenwood Rd., Boston) will sponsor its customary four-session program with the AAAS. No details are as yet available.

Dentistry (Nd)

Section Nd (Albert A. Dahlberg, Chicago) will have a two-session symposium on dental genetics (27 Dec.), with a luncheon between the morning and afternoon sessions. The program of the section will be cosponsored by Section N—Medical Sciences and by the *American College of Dentists*, the *American Dental Association*, and the *International Association for Dental Research, North American Division*.

Pharmacy (Np)

The three-day program of Section Np (John E. Christian, Purdue) includes two sessions for contributed papers in hospital pharmacy (27 Dec.); the interdisciplinary symposium on existing levels of radioactivity in man and his environment, already discussed under Special Sessions (28 Dec.); and two sessions for contributed papers (29 Dec.). The section's luncheon, with vice-presidential address by Joseph A. Oddis (American Pharmaceutical Association, Washington), and also a sectional dinner will be held 28 December.

Section Np's entire program will be cosponsored by the *American Association of Colleges of Pharmacy*, the *American College of Apothecaries*, the *American Society of Hospital Pharmacists*, the *American Pharmaceutical Association, Scientific Section*, and the *National Association of Boards of Pharmacy*.

Agriculture (O)

Section O (D. Wynne Thorne, Utah Agricultural Experiment Station) will have a four-session symposium on "Land and water use with special reference to mountain and plains regions" (27 and 29 Dec.). The program will be cosponsored by Section E—Geology and Geography and by the Committee on Desert and Arid Zones of the Southwestern and Rocky Mountain Division.

Part I of this symposium (27 Dec., morning) will be on land and water resources. Titles and speakers are: "Population demands for land and water

resources of the western hinterland," Stephen C. Smith (University of California, Berkeley); "Land resources and potential uses (quality, patterns of ownership, use suitability)," R. D. Hockensmith (Soil Conservation Service); "Water resources, development, and uses," William Palmer (Bureau of Reclamation, Washington); and "Public grazing lands in the economy of the West," M. L. Upchurch (USDA, Washington).

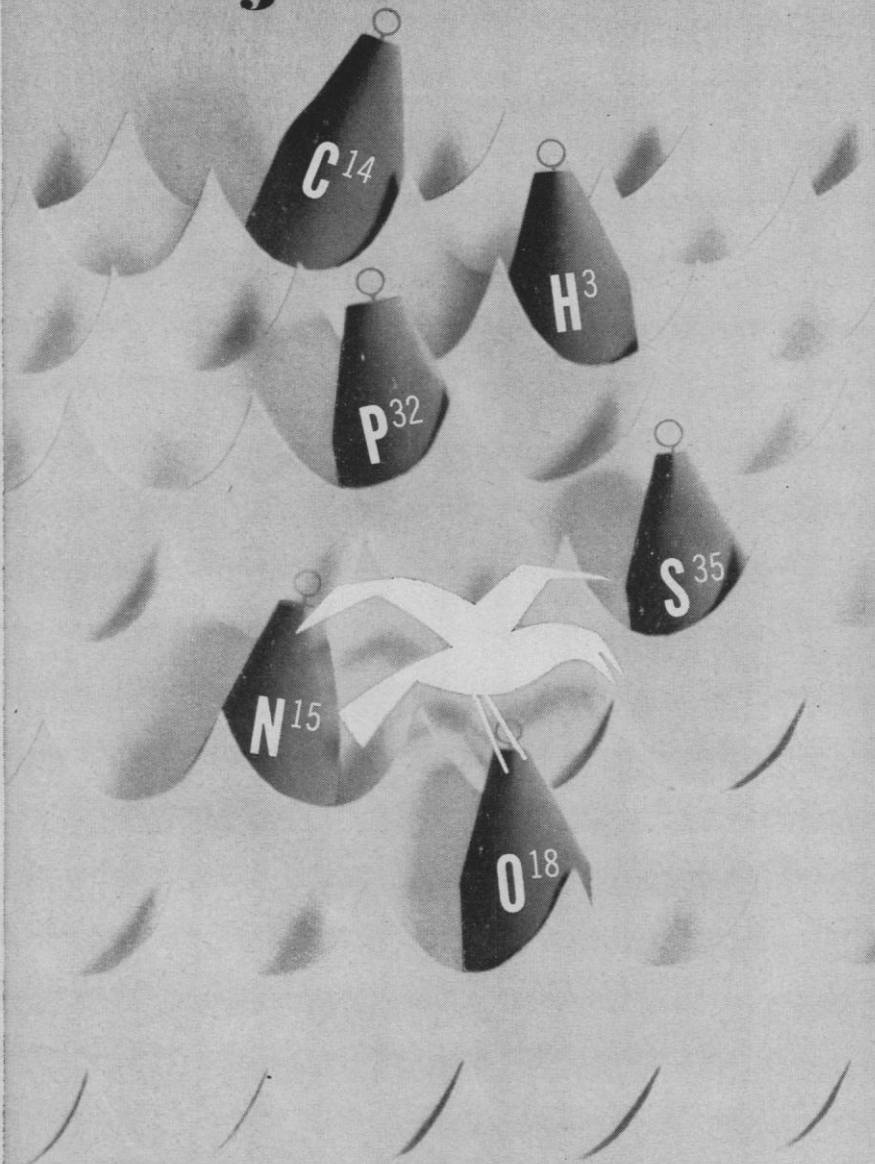
Part II (27 Dec., afternoon) will be on optimum uses for resources. Titles and speakers are: "Criteria and planning for optimum use," Emery Castle (Oregon State); "Economic priorities on water use in arid regions (economic returns from various uses of water in arid regions)," Nathaniel Wollman (New Mexico); "Recreational resources of the West and their development (gauging the demand for recreational resources)," Laurence I. Hewes, Jr. (National Outdoor Recreation Resources Review Committee, Washington); and "Recreation as a competitive segment of multiple use," Marion Clawson (Resources for the Future, New York City).

Part III (29 Dec., morning) will be on impact of public policy on land and water use. Titles and speakers are: "The government's responsibility for land and water (guardian or developer)," Luna B. Leopold and Raymond L. Nace (U.S. Geological Survey, Washington); "Problems and policies associated with wilderness areas and other reserves of public lands," C. R. Guter-muth (Wildlife Management Institute, Washington); "Problems growing out of the spaciousness of the West," Morris Kelso (Arizona); and "Public and/or private investment in resource development," William Folz (Idaho).

Part IV (29 Dec., afternoon) will be on projecting management programs. Titles and speakers are: "Providing for multiple use in managing land and water," John Hopkin (Bank of America, San Francisco); "Modifying management and vegetation of watershed areas for improved water yields," Fred Kennedy (Regional Forester, Albuquerque, N.M.); "Management associated with complex use for wildlife, livestock, and recreation," A. L. McComb (Arizona); and "Managing private lands in relation to changing uses of public lands," Norman Keith Roberts (Utah State University).

Section O is a joint sponsor of the interdisciplinary symposium on water and climate, described under Special

markers to delineate biologic channels



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Sessions, and a cosponsor of the two-session symposium on water improvement.

Industrial Science (P)

Section P (Allen T. Bonnell, Drexel Institute) is planning a symposium on communications and will cosponsor the joint symposium on water and climate. It will also cosponsor the symposium on management science of the Institute of Management Sciences. J. A. Hutcheson (Westinghouse Electric Corp.) will give the address of the retiring vice president at the annual luncheon. The Section will also give the sixth Industrial Citation Dinner.

The *Institute of Management Sciences* (Merrill M. Flood, Mental Health Research Institute, Ann Arbor, Mich.) will have a symposium on management science, cosponsored by Section P (29 Dec.). This session, to be held jointly with Section A—Mathematics, will be devoted to recent mathematical, statistical, and economic developments useful in management science.

Education (Q)

The program of Section Q (Herbert A. Smith, Kansas) includes two joint sessions with the *Council for Exceptional Children* (26 Dec.); two joint sessions with the *American Educational Research Association* (30 Dec.), one of which may be a symposium on teaching machines; some five sessions for contributed papers (27, 29, and 30 Dec.); a business meeting; and the vice-presidential address of William H. Bristow (New York City Board of Education).

The four science teaching societies (ANSS, NABT, NARST, and NSTA), meeting with the AAAS (coordinator, Sam S. Blanc, Denver City Schools), will have a joint session (27 Dec.) and a series of concurrent sessions similar to the coordinated programs of recent years. A joint coffee hour and mixer will be held 27 December at 5 P.M.

The national annual meeting of the *American Nature Study Society* (S. Glidden Baldwin, Danville, Ill.) will begin with a board meeting (26 Dec.). After the joint session of all science teaching societies (27 Dec.) there will be a session on "Nature study around the world," Richard L. Weaver presiding. On 28 December there will be a session on "Outdoor nature interpretation" and a joint program with NABT on "Resource conservation around the world." On 29 December, there will be a joint field trip with NABT; the business meeting; and the annual banquet,

with a motion-picture film, *Nature Adventure around the World*. There will be sessions (30 Dec.) on "Ecology and natural history of the Rocky Mountains," Ruth Hopson, presiding, and a special meeting at the Denver Natural History Museum, Alfred M. Bailey, presiding.

The *Colorado Science Teachers Association* (Joseph E. Pierce, Durango, Colo.) will sponsor a luncheon on 30 December.

The annual national meeting of the *National Association of Biology Teachers* was discussed earlier, under Biological Sciences.

The *National Association for Research in Science Teaching* (George G. Mallinson, Western Michigan) will probably have a research symposium.

After the joint meeting of the science teaching societies, a regional meeting of the *National Science Teachers Association* (Marjorie Gardner, NSTA, Washington, D.C.) will be held. This will consist of four sessions, one the afternoon of 27 December, and three morning sessions 28-30 December. On 30 December, the Colorado Science Teachers Association, a chapter of the National Science Teachers Association, will hold a luncheon session.

Science Service (Leslie V. Watkins, Science Service) will sponsor a session on "Extracurricular motivation for science" (29 Dec.).

Science in General (X)

A number of organizations, too general in their interests to be placed in any sectional series or under any specific discipline, will constitute the "X series" in the printed *General Program*. In this preliminary synopsis of the third Denver meeting, the programs of many of these—the Academy Conference, the Conference on Scientific Communication, and the Conference on Scientific Manpower—have already been mentioned under Other General Events, and thus will not be repeated here.

The *American Geophysical Union* (Waldo Smith, AGU, Washington, D.C.) will cosponsor the interdisciplinary symposia on geochemical evolution and on physics of the upper atmosphere, mentioned under Special Sessions.

The regular annual meeting of the *National Association of Science Writers* (Herbert B. Nichols, U.S. Geological Survey) with the AAAS will include a business session and dinner. A feature of the latter will be the third presentation of the new series of the AAAS-George Westinghouse Science Writing

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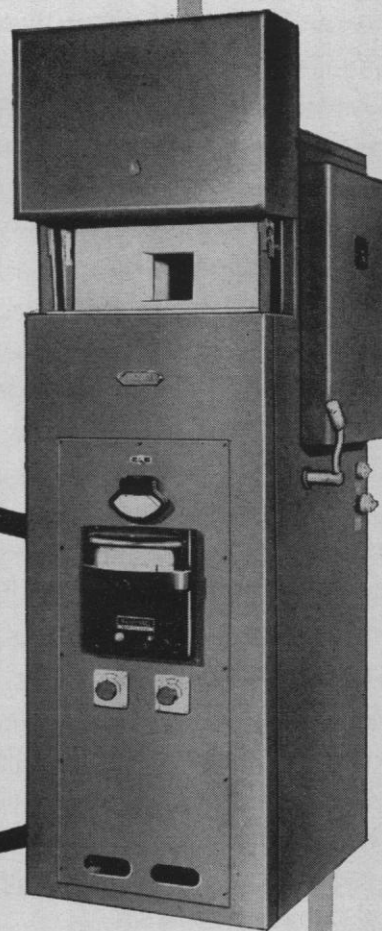
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Awards for excellence in science writing in newspapers and magazines (27 Dec.).

The national convention of the *Scientific Research Society of America* (Donald B. Prentice, Yale) is scheduled for 29 December. The award of the William Procter prize and the annual RESA address will follow the luncheon held jointly with the Society of the Sigma Xi.

A regional meeting of *Sigma Delta Epsilon*, graduate women's scientific fraternity (Ernestine B. Thurman, Nation-

al Institutes of Health), will include a tea for all women in science. A headquarters room will be maintained throughout the meeting period.

The 62nd annual convention of the *Society of the Sigma Xi* (Thomas T. Holme, Society of the Sigma Xi, New Haven) will be held on 29 December, after the joint luncheon with RESA. In the evening the Society of the Sigma Xi will join with the *United Chapters of Phi Beta Kappa* (Carl Billman, Phi Beta Kappa, Washington, D.C.) in sponsoring the address by Harrison

Brown. Since the inauguration of the series in 1922, these distinguished lectures, of interest to all participants, have been a special feature of the Association meeting.

Call for Papers by AAAS Sections

Eight sections of the Association will arrange sessions for contributed papers at the Denver meeting. The secretaries or program chairmen to whom titles and abstracts should be sent, *not later than 30 September*, are as follows: C-CHEMISTRY. Essie White Cohn, Department of Chemistry, University of Denver, Denver 10, Colo. (by 1 August if possible).

E-GEOLOGY AND GEOGRAPHY. Richard H. Mahard, Department of Geology and Geography, Denison University, Granville, Ohio.

G-BOTANICAL SCIENCES. Harriet B. Creighton, Department of Botany and Bacteriology, Wellesley College, Wellesley 81, Mass.

H-ANTHROPOLOGY. David M. Pendergast, University of Utah, Salt Lake City 12.

I-PSYCHOLOGY (in certain fields only, *by 1 July*; see details under section report). Frank W. Finger, Department of Psychology, University of Virginia, Charlottesville.

K-SOCIAL AND ECONOMIC SCIENCES. Donald P. Ray, National Institute of Social and Behavioral Science, George Washington University, Washington 6, D.C.

NP-PHARMACY. John E. Christian, School of Pharmacy, Purdue University, Lafayette, Ind.

Q-EDUCATION. Herbert A. Smith, Bailey Hall, University of Kansas, Lawrence.

Although the general deadline is 30 September, most sections, and subsequently the AAAS office, would be happy to receive titles in advance of that date.

RAYMOND L. TAYLOR

Associate Administrative Secretary

Forthcoming Events

June

18-23. American Meteorological Soc., 193rd natl., and Pacific Div., AAAS, 42nd annual, Davis, Calif. (AMS, 45 Beacon St., Boston 8, Mass.)

18-23. American Soc. of Medical Technologists, Seattle, Wash. (Miss R. Matthaei, Suite 25, Hermann Professional Bldg., Houston 25, Tex.)

19-21. American Soc. of Pharmacognosy, annual summer meeting, Houston,

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