

Third Montreal Meeting

Preliminary announcement of programs
for the 131st annual meeting, 26–31 December 1964,
and call for papers by AAAS sections.

Raymond L. Taylor

It may come as a surprise to many AAAS members that this year's annual meeting will be the *Third Montreal Meeting*. This is understandable, however, since the two previous occasions when the Association met in that historic Canadian city were as far back as 1882 and 1857 and, very probably, there is no one who recalls either of them first hand!

There have been three other meetings of the Association in Canada—the last two were in Toronto, December 1921, and in Ottawa, June 1938. Fortunately, with the recent completion of the Queen Elizabeth Hotel in Montreal and of the splendid new International Airport at nearby Dorval, Montreal now has facilities adequate for this year's 131st AAAS meeting and the setting will be commensurate with the caliber of the programs.

For many years, Canadian members and others from Canada have journeyed to distant points "in the States" to attend annual meetings of the Association. It is only fitting that this year the AAAS meeting should come to Canada. It is intended that this will be no ordinary American convention simply moved across the border because of Montreal's year-round tourist attractions. Rather, this will be a truly international meeting with, and for, all interested scientists and teachers in Canada, as well as for those from the rest of the North American continent. An exceptional number of distinguished speakers from across the Atlantic and Pacific Oceans will also be present.

The third Montreal Meeting will be exceptional in a number of other respects—as will be apparent from the detailed synopsis to follow. However, it should be noted that the city is well

worth a visit for itself alone: Montreal is not snowbound or under a glacier at Christmas time, and it has excellent transportation facilities from all directions—including highways as well as excellent plane and train connections.

Those who have not visited Montreal for the last 5 years will be greatly impressed by the remarkable development of the Dominion Square area. They will discover that Montreal is a city of Old World charm and atmosphere combined with well-appointed, ultramodern hotels and great office buildings. (See the box, *A Few Facts about Montreal*.)

Without crossing an ocean, the visitor to Montreal may well feel that he is abroad enjoying an epicurean meal in Edinburgh, Paris, London, or Rome. But, primarily, it will be the programs that will bring four or five thousand scientists to Montreal in December 1964 to join their colleagues who live there. Incidentally, 91 percent of the Association's Canadian members live in the two provinces of Ontario and Quebec.

The high quality of the special sessions, of the "Moving Frontiers of Science" lectures, and of the other sessions that are the responsibility of the Committee on Meetings will bring many of the scientists who were registered participants at the recent Cleveland and Philadelphia meetings, and others who wish they had been there. The care with which the Committee (under the chairmanship of Robert Jastrow, Institute for Space Studies) is planning these sessions is evident from the program details already available.

All 20 sections of the Association and several AAAS committees will have programs. In many instances there will be multi-session symposia two or more days in length.

General Chairmen

Appropriate for a meeting in a city, a province, and a nation that is bi-cultural and bilingual, the AAAS is fortunate in having two distinguished scientists to head the local committees and to welcome registrants upon the evening of the AAAS Presidential Address and Reception, 28 December.

Honorary General Chairman is Wilder G. Penfield (honorary consultant, Montreal Neurological Institute of McGill University). Penfield was professor of neurology and neurosurgery at McGill, 1928–1954, and director of the Neurological Institute, 1934–1960. Internationally renowned for his work in the fields of brain surgery, neurocytology, and neurophysiology, Penfield has received many honors. He is the author not only of books and scientific articles in these fields, but also of two historical novels.

General Chairman is Louis Paul Dugal (dean, Faculty of Pure and Applied Science, University of Ottawa). Earlier, Dugal served that university as professor and chairman of the Department of Biology. Among his many honors, he was Laureate of the French Academy of Science in his scientific specialty, physiology.

Scope of the Meeting

Those who have attended recent AAAS meetings are well aware 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. Especially in the past 10 years there has been a steady growth in the variety of the sessions and there has been a corresponding increase in the attendance—a reflection of the ever-increasing attractiveness of the programs. Many of the symposia are planned to be of particular assistance to college teachers.

Some of the many symposia, or their constituent papers, are eventually published—as AAAS symposium volumes, as articles in *Science*, or as articles in specialized journals—but not all are published and, in any event, there is a time lapse. Moreover, only by attending can one meet the authors face to face and discuss points of mutual interest.

The societies that will hold their regular national meetings with the

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AAAS are: the American Astronomical Society, the American Nature Study Society, the American Society of Criminology, the American Society of Naturalists, the History of Science Society, the Metric Association, the National Association of Biology Teachers, Sigma Delta Epsilon Graduate Women's Scientific Fraternity, the Society for General Systems Research, the Society for the History of Technology, the Society of Economic Botany, and the Society of the Sigma Xi.

Societies with special or regional programs, typically of several days' duration, will include the following: the Academy of Psychoanalysis;

American Association of Clinical Chemists; American Astronautical Society; American Meteorological Society; American Psychiatric Association; Association of American Geographers, New England-St. Lawrence Division; Biomedical Information-Processing Organization; Biometric Society ENAR; Canadian Aeronautics and Space Institute; Canadian Science Fairs Council; Ecological Society of America; National Council of Teachers of Mathematics; National Science Teachers Association; and The Institute of Management Sciences (TIMS).

Still other organizations will have conferences or programs—for example,

Alpha Epsilon Delta National Pre-medical Honor Society; the American Economic Association; American Sociological Association; American Statistical Association; American Political Science Association; Association for Computing Machinery; and the Academy Conference, composed of representatives of the 46 state and city academies affiliated with the AAAS.

Among the Canadian organizations that are joint sponsors or cosponsors of programs are: Association Canadienne-Francaise pour L'Avancement des Sciences, Canadian Association of Geographers, Canadian Association of Physicists, Canadian Psychological As-

A Few Facts about Montreal

When the French navigator, Jacques Cartier, searching for a northwest passage to the Orient, sailed up the St. Lawrence River in 1535, he was stopped by what he named the China, or Lachine, Rapids. Cartier visited the Huron Indian village, Hochelaga, and climbed the lofty landmark (763 feet) that he described as Mont Réal—Royal Mountain—after the King of France.

This site, visited by Samuel de Champlain for the first time in 1603, was a base for him and the explorers, Lemoyne and Lasalle. The first permanent settlement—a mission and fur trading post—was established by Paul de Chomedey, Sieur de Maisonneuve, in 1642. Since that time, Montreal has been continuously inhabited by Frenchmen and their descendants.

By 1961 the metropolitan area of Montreal had reached a population of 2,109,509. Not only is it Canada's largest city, with a tenth of that nation's population, but it ranks seventh in size on the North American continent.

Montreal has evolved as the metropolis of Canada—its leading commercial and industrial city—because of its start as a transportation center. Its future was partly determined by its location at the intersection of east-west and north-south trade routes, its position at the point where the Ottawa River enters the St. Lawrence, and its location as the head of navigation for ocean vessels on a great 1000-mile estuary. The completion of the 9-mile Lachine Canal in 1825 and the great developments in steam navigation made Montreal the transshipment point for Great Lakes vessels and ocean-going freighters. The completion of the first of two Canadian transcontinental railroads in 1880 added to the city's prosperity. An oil pipeline from Portland, Maine, resulted in the city's becoming the refinery source for one-third of Canada's gasoline. Inevitably, Montreal has become a principal banking and insurance center for the nation. Today the St. Lawrence Seaway (completed in 1959), the great new Dorval airport, and modern highways have brought still more business traffic, vacation visitors, and ski enthusiasts to Montreal.

Although Montreal is a thousand miles from the sea, and each year its harbor is ice-locked for about 3½ months, it is one of the world's great seaports. Its annual

tonnage of 20 million ranks it tenth in North America. The tideless waterfront of the long harborside—which has some 12 miles of high level piers and docks—facilitates the handling of cargoes. No port in the world ships more grain than that shipped by Montreal.

Montreal is also noted for its university and related hospital facilities. McGill University, founded in 1821, has some 10,000 students and 1267 faculty members. The French-speaking Université de Montréal was originally established in 1876 as the Montreal branch of Laval Université but has been independent since 1920; it has more than 18,000 students and a faculty of 2136. Both universities have fine professional and graduate schools. The Osler Library of the history of medicine and science (13,000 volumes) is at McGill.

The city truly provides an attractive Old World atmosphere in an ultramodern setting. Montreal is often called the "Paris of the New World," not merely because some five-eighths of its population are of French descent and French-speaking, but also because so many of its streets and buildings with their names and architecture all suggest France.

From the mid-18th century, the Montreal area received many settlers from Great Britain and the American colonies. Today Montreal is said to have "more people of French descent than Lyon, more English than Nottingham, and more Italians than Verona." The citizens of Montreal are proud of their city. Its impressive growth and comparable developments in all eastern Canada could not have occurred were it not for the mutual interest and cooperative goodwill of fellow Canadians, British, Gallic, and others, in origin.

Guests in the attractive Queen Elizabeth Hotel in December will find acres of underground shops to explore beneath the Place Ville-Marie Plaza. Included is a duty-free, tax-free center where every visitor who has stayed at least 48 hours in Canada may purchase—one day each month—many imported articles at much lower prices than those in the United States. The limit per customer is \$200. At the present rate of exchange each U.S. dollar can be exchanged for \$1.07 in Canadian currency.



Dominion Square, heart of Montreal. [Montreal Municipal Tourist Bureau]

sociation, Canadian Medical Association, Canadian Society of Plant Physiologists, Canadian Society of Zoologists, Engineering Institute of Canada, Royal Astronomical Society, and Royal Meteorological Society. A number of other Canadian societies are considering programs at Montreal, and undoubtedly there will be additions to the foregoing list.

Special Sessions

The Committee on AAAS Meetings, responsible for the general pattern of the meeting and the general sessions, including the "Moving Frontiers of Science" program, has 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 various fields, is planned to be of general interest to all who attend the third Montreal 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 preparing their schedules.

The first paper on this first evening of the meeting will be given by V. C. Wynne-Edwards (Regius professor of

natural history, Marischal College, University of Aberdeen, Scotland) whose topic will be "Self-regulating systems in populations of animals." The other speaker of the evening will be J. M. Harrison (Associate Deputy Minister of Mines and Technical Surveys, Ottawa), whose address will be in the area of nonrenewable resources of the world, possibly with special reference to the responsibilities of scientists and social implications of resource depletion.

28 December, morning. The four interdisciplinary symposia, originally selected by the Committee on Meetings, will be presented concurrently. The first of these, "Possible Meteoric or Lunar Influences on Meteorological Phenomena," is being arranged by Walter Orr Roberts (National Center for Atmospheric Research, Boulder, Colorado). It will be cosponsored by the AAAS sections on Physics (B) and Astronomy (D), and by the American Astronomical Society, the American Meteorological Society, and the Royal Meteorological Society.

The interdisciplinary symposium in the biological-medical disciplines is Part I, basic concepts, of the symposium, "Biochemical Differentiation," being organized by Norman Kretschmer (Stanford University School of Medicine) in collaboration with James D. Ebert (Carnegie Institution of Washington, Baltimore), Robert E. Greenberg (Stanford University), and

Oscar Touster (Vanderbilt University School of Medicine).

An interdisciplinary symposium of particularly wide appeal will be "Medical Geology and Geography" which is being planned by Harry V. Warren (University of British Columbia).

The interdisciplinary symposium, "The History of the Popularization of Science," is being jointly sponsored by the section on History and Philosophy of Science (L) and the section on Information and Communication (T). John Murdoch (Harvard) and Pierre C. Fraley (Council for the Advancement of Science Writing, Phoenixville, Pennsylvania) are the arrangers.

It is uncertain whether any additional interdisciplinary symposia will be chosen by the Committee on Meetings.

28 December, afternoon. Part II of "Moving Frontiers of Science." One lecture, given by Philip Morrison (Cornell University), will be on the border between nuclear physics and astronomy; the other, by Clement L. Markert (Johns Hopkins University), on "The role of genes in embryonic development," a paper that will complement the interdisciplinary symposium on biochemical differentiation.

The Fifth George Sarton Memorial Lecture, sponsored by the George Sarton Memorial Foundation, is scheduled to follow the "Moving Frontiers" lectures on the afternoon of 28 December. This year's speaker will be Lloyd G. Stevenson (incoming professor of the History of Medicine, Yale). He will be particularly well known to his colleagues at McGill where he is Dean of Medicine.

28 December, evening. Address of the retiring president of the AAAS, Alan T. Waterman. Preceding the address, there will be a brief word of welcome from Wilder G. Penfield and Louis Paul Dugal, respectively honorary and active general chairman of the third Montreal meeting, as mentioned earlier. Announcements will be made of two awards—the Newcomb Cleveland prize for 1963 and the Socio-Psychological prize. A reception for all registrants follows, with refreshments provided. Alcoholic beverages will be served at a "Dutch treat" bar.

29 December, evening. Honor Societies Night. The annual joint address of the Society of the Sigma Xi and of the United Chapters of Phi Beta Kappa will be given by René Dubos (Rockefeller Institute).

30 December, evening. The annual illustrated lecture and film of the

National Geographic Society, usually a first showing.

In addition to the Special Sessions and the AAAS Interdisciplinary Symposia, the Committee on Meetings has reserved space for a symposium on "Late Developments in Science," to be arranged by Robert Jastrow (Institute for Space Studies, New York) and LaMont Cole (Cornell University).

At last year's AAAS Council Meeting it was voted to hold a one-day symposium on scientific ethics or the responsibilities of scientists. The Committee on Meetings has approved a two-session symposium, "The Sociology of Science," which would provide a basis for some of the questions of responsibility and ethics. Robert K. Merton, chairman, department of sociology, Columbia University, will arrange and chair the sessions.

Other General Events

Plans of the *AAAS Committee on Science in the Promotion of Human Welfare* (Barry Commoner, Washington University) have not yet been announced.

The *Commission on Science Education* (John R. Mayor, AAAS) plans a session in which there will be reports on its work, especially in elementary science. Among the speakers will be Paul Sears, Wallace Brode, Arthur Livermore, a school administrator, a school teacher, and John Mayor.

The *Academy Conference* (Gerald Acker, Bowling Green State University), founded in 1927 as a committee of the AAAS, is composed of the official representatives of the 46 academies of science affiliated with the AAAS. The Conference has had a program at each annual meeting of the Association since 1928. This year's 36th meeting will begin with a session on junior academies, 26 December. On 27 December there will be a full day of sessions. At the business meeting in the morning, reports of the individual academies will be distributed and discussed. There will be two papers on academy continuity and the need for "permanent" academy representatives.

The afternoon session, with president-elect Karlem Riess presiding, will be devoted to "The Academies between Meetings-I." This will be the first of an intended series of major problems with which the senior acad-

emies are concerned. The afternoon program will be arranged by Gerald Acker. It will be a panel on teacher certification—a subject with which many academies are much concerned. The day will conclude with the annual Academy Conference Dinner and the Conference presidential address by J. Teague Self (University of Oklahoma), with Gerald Acker presiding.

The Academy Conference also will sponsor the 18th Annual Junior Scientists Assembly, a program for selected high school students interested in science and scientific careers.

International Conference and Symposium on Primate Behavior

Three AAAS sections and several affiliated societies will cosponsor an international conference and five-session interdisciplinary symposium on "Communication and Social Interactions in Primates." The primary sponsor is the combined Section of Animal Behavior and Sociobiology of the Ecological Society of America and Division of Animal Behavior and Sociobiology of the American Society of Zoologists. The program chairman is Stuart A. Altmann (Department of Zoology, University of Alberta) whose current address is c/o Game Warden, Masai-Amboseli Reserve, P. O. Namanga, Kenya, Africa. Cosponsors include the AAAS sections on Zoological Sciences (F), Anthropology (H), and Psychology (I). In addition to the symposium, which is open to the public and will include opportunities for questions and discussion, there will be closed sessions for the participants.

The 37 speakers will come from four continents. Those who have already accepted are: R. E. Miller (Pittsburgh), Experimental approaches to autonomic and behavioral aspects of affective communication in rhesus monkeys; B. W. Robinson, (Stanford), Neurological basis of primate behavior; G. D. Jensen (University of Washington), Preliminary studies of environmental variables in social interaction development; L. A. Rosenblum (Primate Behavior Laboratory, Brooklyn), Mother-infant relations in pigtail and bonnet macaques; Thelma Rowell (Kampala, Uganda), Reproductive cycles and behavior; P. E. Simonds (Oregon), Bonnet macaque mating patterns and related communication; Jeanne Altmann (Namanga, Kenya), Agonistic interactions in baboons; S. A.

Gartlan (Kampala, Uganda), Dominance in primate societies; Hans Kummer (Langnau, Switzerland), Tripartite relations in primates; A. B. Jolly (Kampala, Uganda), Behavior of lemurs; J. J. Petter (Paris), Behavior of the Aye-Aye in Madagascar; Suzanne Ripley (California, Berkeley), Behavior of langurs in Ceylon; T. T. Struhsaker (Namanga, Kenya), Social interactions in vervets; J. G. Vandenberg (Puerto Rico), Social dynamics of a new free-ranging colony of rhesus monkeys; I. S. Bernstein (Yerkes Laboratories), A laboratory comparison of social responses in primate groups; Robert Hinde (Cambridge, England), Social communication in rhesus monkeys; M. H. Moynihan (Canal Zone), Signal patterns of marmosets; K. R. L. Hall (Bristol, England), Communication behavior in the patas monkey; S. A. Altmann, Structural properties of primate social communication; J. Itani (Kyoto University), Communications of the wild Japanese monkeys; K. Yoshida (Japan Monkey Center, Aichi-ken), Social organization of the wild hannuman langur in India; and Jack Kaufmann (Florida), Social relations of adult males in a free-ranging band of rhesus monkeys.

AAAS Council Meetings

As usual, the AAAS Council will hold two sessions—at 3:45 p.m. on 27 December and at 9 a.m. on 30 December. Because the election of the AAAS president-elect and of new members of the Board of Directors is conducted by mail, with results simply announced at the first session, more time is available at these sessions for consideration of matters that affect all science and society. The work of the Council is materially assisted by the Committee on Council Affairs.

Science Exhibits

The importance of the third Montreal meeting has already been recognized by those who produce the books, instruments, and materials which scientists and teachers use. Applications for exhibit booths in the exhibit rooms of the Queen Elizabeth Hotel have been received at a most gratifying rate from both U.S. and Canadian firms. At this time, 7 months in advance of the meeting, relatively few booths remain to be assigned.

This year's Annual Exposition of Science and Industry will be one of the most attractive ever presented. Leading publishers, optical companies, 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; 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 Montreal, the instructive exhibits of various museums and of the zoo are recommended for visiting young people. In the best interests of exhibitors and those interested in their displays, only registrants are admitted to the exposition and *young people under 16 are neither registered nor admitted.*

Science Theatre

The AAAS Science Theatre, a regular feature of the Association's annual meeting, again will show a choice selection of science films, foreign and domestic; these will be shown in a special room within the exhibit area. The theatre will run each film at least twice, so that those who are interested in a particular film will have more than one opportunity to see it.

At last year's AAAS meeting, a number of the films evoked spontaneous applause! It is hoped they will do as well in 1964.

Physical Facilities and Housing

The meeting will be convenient, comfortable, and moderate in costs despite its size and complexity. The hotels which will house a majority of the approximately 300 sessions are close together in the central downtown area. They are the Queen Elizabeth, the Sheraton-Mt. Royal, Windsor, Laurentien, and the Ritz Carlton. In reserve are the Berkley and the Queen's

hotels. All of these hotels are within easy walking distance of one another.

The Queen Elizabeth, a Canadian National Hotel operated by Hilton International, will be AAAS headquarters. It has 1216 guest rooms and is most conveniently located on Dorchester Street, Dominion Square. With its excellent exhibit facilities and its many session rooms all on one level (connected with the main lobby by an escalator), the Queen Elizabeth, especially designed for conventions, was the logical choice as the site of the

Association's business sessions, Press-room, and AAAS Office. The Annual Exposition of Science and Industry and the Science Theatre will be housed in rooms immediately across from the larger meeting rooms where the special sessions and most of the general events will be held.

The other hotels will be the headquarters of related sections and societies. Principal among these are the Sheraton-Mt. Royal (1000 rooms), 1455 Peel Street; the Laurentien, also a Sheraton Hotel (1000 rooms), Dominion Square; the Windsor (275 rooms), Dominion Square; and the Ritz Carlton Hotel (290 rooms), Sherbrooke Street, West.

Special low flat rates have been established at several levels. For those who place reservations early at the Queen Elizabeth, Mt. Royal, or Windsor, singles will be \$8.50, \$10.00 thereafter. All singles at the Laurentien will be \$7.50, and at the Berkley \$7.00. Most twin-bedded rooms will be \$15.00 and a rollaway can be added to any double room for \$3.00.

The headquarters of the sections and societies will be announced in *Science* in July, at which time there will be coupons for housing and advance registration 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 in Montreal *after the July announcement appears.*) 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 other program chairmen.

Mathematics (A)

The program of Section A (Wallace Givens, Argonne National Laboratory), includes a session, "Mathematics Films with Commentary" (Holbrook MacNeille, Case Institute of Technology), 27 December afternoon, and the vice-presidential address of R. W. Hamming (Bell Telephone Laboratories), "Computing vs. Mathematics," 29 December, morning.

The plans of the *Association for Computing Machinery* have not yet been announced.

The program of the *National Coun-*

Call for Papers by AAAS Sections

Six sections of the Association will arrange sessions for contributed papers at the Montreal meeting. The secretaries or program chairmen to whom titles and abstracts of papers should be sent, *not later than 30 September*, are as follows:

E-Geology and Geography.

Richard H. Mahard, Department of Geology and Geography, Denison University, Granville, Ohio.

F-Zoological Sciences.

David W. Bishop, Carnegie Institution of Washington, Department of Embryology, 115 West University Parkway, Baltimore 10, Md.

G-Botanical Sciences.

Warren H. Wagner, Jr., Department of Botany, University of Michigan, Ann Arbor, Mich.

H-Anthropology.

Eleanor Leacock, Bank Street College of Education, 69 Bank Street, New York 14, N.Y.

Np-Pharmaceutical Sciences.

Joseph P. Buckley, School of Pharmacy, University of Pittsburgh, Pittsburgh, Pa.

Q-Education.

F. B. Dutton, Science and Mathematics Teaching Center, Michigan State University, East Lansing.

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



Aerial view of Montreal harbor, the downtown business district, and Mount Royal in the background. [Montreal Municipal Tourist Bureau]

cil of Teachers of Mathematics (James Gates, NEA Building, Washington, D.C.) is scheduled for a day to be decided.

Physics (B)

Section B (Stanley S. Ballard, University of Florida), together with the section on Astronomy (D) will jointly sponsor the AAAS Interdisciplinary Symposium on possible meteoric or lunar influences on meteorological phenomena. There will be one or more sessions of invited papers on topical subjects, jointly sponsored by the *Canadian Association of Physicists* (A. C. H. Hallett, University of Toronto). The section's vice-presidential address will be given by Ralph A. Sawyer (University of Michigan).

It is anticipated that the *American Astronautical Society* will have another important two-session symposium on some timely subject in astronautics arranged by someone appointed by E. R. van Driest (North American Aviation, Space and Information Systems Division). The *Canadian Aeronautics and Space Institute* (H. C. Luttman, C.A.S.I., Ottawa) has definite plans for a session on Upper Atmospheric Physics which is tentatively scheduled for the morning of 30 December.

The *American Meteorological Society* (Kenneth Spengler, AMS, Boston) and the *Royal Meteorological Society, Canadian Branch* (Walter Hitschfeld, Mc-

Gill University) will jointly sponsor a meteorological program. In addition, both will cosponsor the AAAS Interdisciplinary Symposium on possible meteoric or lunar influences on meteorological phenomena. The *National Academy of Sciences Space Science Board* (Colin S. Pittendrigh, Princeton) and *NASA Office of Space Science and Applications* (Orr E. Reynolds, NASA) will sponsor a session on the results of the Board's study of the basis, problems, and prospects of the search for life elsewhere in the solar system.

Chemistry (C)

The program of Section C (Roland Rivest, University of Montreal, and C. B. Purves, McGill University) consists of two 2-session symposia. The first of these will be "Problems Related to Hydrogen Bonding: Theoretical, Spectroscopic, and Biological Aspects," 29 December (C. Sandorfy, University of Montreal). Prospective speakers: D. F. Hornig (Princeton); S. Bratoz (Paris), R. Pepinsky (Florida Atlantic University); M. Kasha (Florida); and E. D. Becker (NIH). The second session, "Stereospecificity" (Alec Sehon, McGill University), 30 December, will include six lectures: "Basic stereochemical principles in organic chemistry," Ernest L. Eliel (University of Notre Dame); "Theoretical aspects of optical activity," Albert Moscowitz (University of Minnesota); "Stereo-

specificity in reactions of inorganic complex ions," John C. Bailar, Jr. (University of Illinois); "Stereoregulated polymers and biopolymers," Murray Goodman (Polytechnic Institute of Brooklyn); "Stereospecificity of enzyme reactions," Bernard Belleau (University of Ottawa); "Stereospecificity of nucleic acids in relation to protein synthesis," J. H. Spencer (McGill University).

Details of the program of the *American Association of Clinical Chemists* (O. H. Gaebler, Edsel B. Ford Institute for Medical Research, Detroit) for its annual regional meeting with the AAAS, are not yet available. The meeting, if held, will probably take place on 26 or 27 December. It is possible that the *Canadian Society for Clinical Chemistry* (D. B. Tonks, Montreal General Hospital) will cosponsor the American program.

Astronomy (D)

Section D (Frank Bradshaw Wood, University of Pennsylvania, and Donald A. MacRae, David Dunlap Observatory, Toronto) will cosponsor all sessions of the American Astronomical Society and the AAAS Interdisciplinary Symposium on possible meteoric effects, of joint interest to astronomers and physicists, which Walter Orr Roberts is arranging. The retiring vice-presidential address will be by Paul Herget (Cincinnati Observatory) the afternoon of 30 December. Walter Orr Roberts will preside.

The national meeting of the *American Astronomical Society* (G. C. McVittie, University of Illinois Observatory) will begin with council meetings the morning and afternoon of 28 December and will continue through the afternoon of 31 December. In the morning and the afternoon of 29 December there will be two concurrent sessions for contributed papers. Single sessions for contributed papers will take place the afternoons of 30 and 31 December.

The Helen B. Warner Prize Lecture, the evening of 29 December, will be given by Maarten Schmidt (Mount Wilson and Palomar Observatories, Pasadena, California). He will describe his work on quasistellar radio sources. The Astronomers' Dinner is scheduled for the evening of 30 December.

The *Royal Astronomical Society of Canada* (Ian Halliday, Dominion Observatory, Ottawa) will cosponsor the AAAS Interdisciplinary Symposium,

"Possible Meteoric or Lunar Influences on Meteorological Phenomena," and the programs of the American Astronomical Society and of Section D.

Geology and Geography (E)

The program of Section E (Richard H. Mahard, Denison University) begins with joint sessions on geography arranged by the *Canadian Association of Geographers* (J. T. Parry, McGill University), 27 December.

The section has primary responsibility for the AAAS Interdisciplinary Symposium, "Medical Geology and Geography," the morning of 28 December. Two symposia scheduled for 29 December are "Mineral Renaissance of Eastern Canada," and "The Upper Mantle Program of Canada." Contrib-

uted papers in geology, a dinner, and the retiring vice-presidential address of John C. Reed (Arctic Institute of North America), at which Trevor Lloyd (McGill University) will preside, conclude the program.

A special symposium sponsored by the *New England-St. Lawrence Division* of the *Association of American Geographers* (Elizabeth Eiselen, Wellesley College) is under consideration. The division will jointly sponsor the sessions of the Canadian Association of Geographers.

The *National Geographic Society* will present its annual lecture and film (30 Dec.). It is hoped that the *Geological Association of Canada* (S. L. Evans, G.A.C., Toronto) will join with the Geological Society of America in cosponsoring the geological portion of section E's program.

Zoological Sciences (F)

The program of Section F (David W. Bishop, Carnegie Institution of Washington, Baltimore) will include sessions for contributed papers in the major fields of zoology (27 and 29 Dec.), a business meeting, a Biologists' Smoker (27 Dec.), a zoologists' dinner (29 Dec.), at which the vice-presidential address of Arthur D. Hasler (University of Wisconsin) will be given.

Titles and abstracts for contributed papers should be sent to D. W. Bishop, Dept. of Embryology, Carnegie Institution of Washington, 115 West University Parkway, Baltimore 10, Md., not later than 30 September. No papers "by title only" can be listed in the *General Program*.

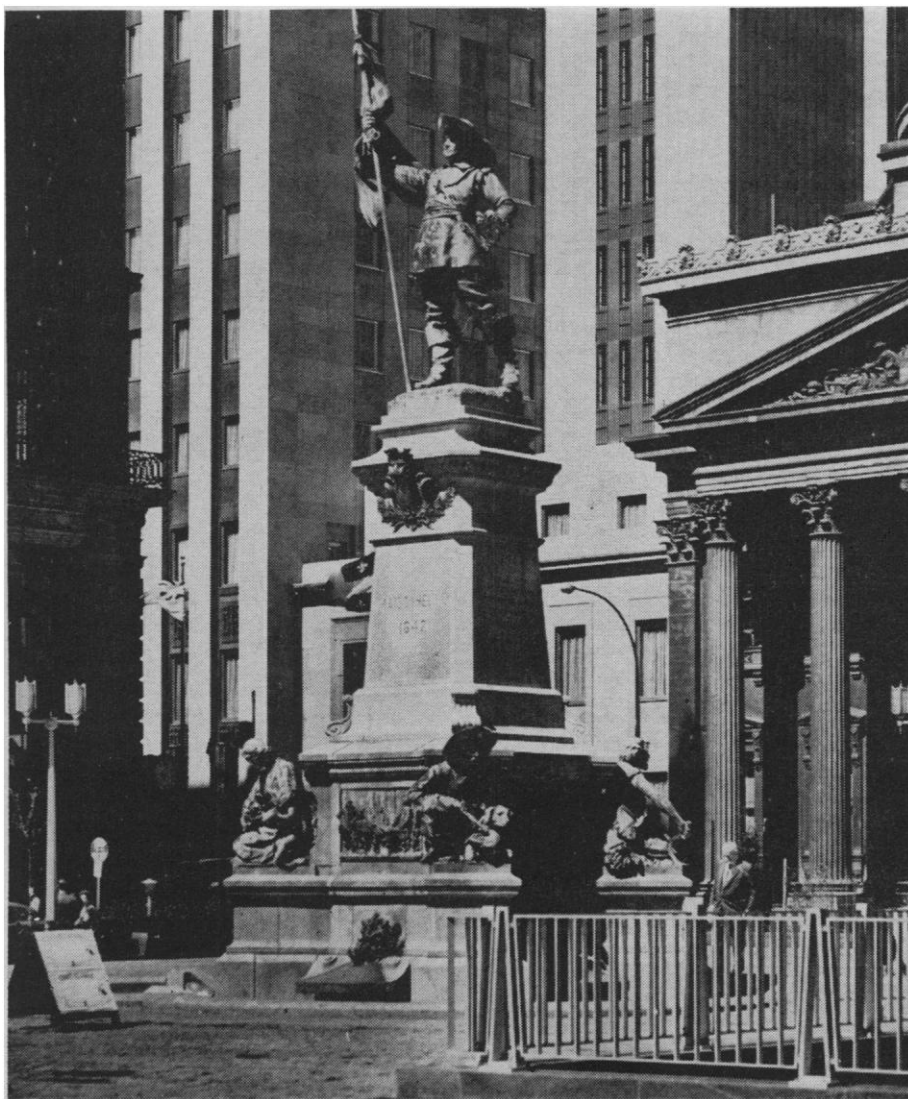
The *Canadian Society of Zoologists* (H. H. J. Nesbitt, Carleton University, Ottawa) is planning on meeting with the AAAS in Montreal. Quite probably it will either arrange a special program, jointly sponsor Section F's sessions for contributed papers, or do both.

It is quite possible that the *Entomological Society of Canada* (E. G. Munroe, Entomology Research Institute, Ottawa) will arrange a special program and so may the *Entomological Society of Quebec* (D. Keith McKevan, Macdonald College of McGill University). The Lyman Entomological Museum (founded by H. H. Lyman, a AAAS Fellow) will commemorate its 50th anniversary which comes exactly at the time of the AAAS meeting.

Biological Sciences (FG)

The program of the annual national meeting of the *American Society of Naturalists* (Sam Granick, Rockefeller Institute) will include a symposium, "Cytoplasmic Units of Inheritance;" the presidential address of Albert Tyler (California Institute of Technology); and the business meeting of the society.

The annual meeting of the *Ecological Society of America* (George M. Woodwell, Biology Department, Brookhaven National Laboratory) will include, it is expected, several symposia and sessions of contributed papers on plant, animal, and aquatic ecology, and several sessions for contributed papers on animal behavior. The Section on Animal Behavior and Sociobiology, which is combined with the Division of Animal Behavior and Sociobiology of the Amer-



Monument of Paul Chomedey, Sieur de Maisonneuve, the founder of Montreal. [Montreal Municipal Tourist Bureau]

ican Society of Zoologists, is the sponsor of the 4-day conference on "Communication and Social Interactions in Primates" described earlier as a program of broad general interest.

Mountain Lake Biological Station "Alumni" who are present at the meeting again will sponsor an annual breakfast with the AAAS for all persons who have ever been students, investigators, or staff members at the station.

Sections F and G will cosponsor a Biologists' Smoker from 9:30 till 11 p.m., 27 December.

Botanical Sciences (G)

Section G (Warren H. Wagner, Jr., University of Michigan) will continue its series of symposia sessions, "Plant Biology Today: Advances and Challenges," invited review papers on basic topics for biology teachers to keep them informed on recent advances (29 Dec.). Between these sessions there will be a luncheon for all botanists at which Harriet B. Creighton (Wellesley College) will deliver her vice-presidential address. There will also be one or more sessions for contributed papers (30 Dec.). Preliminary plans for joint programs with the Society for Economic Botany, the *Canadian Society of Plant Physiologists* (R. G. S. Bidwell, University of Toronto), and the section on Agriculture (O) are currently being made.

The *Society for Economic Botany* (Quentin Jones, Plant Industry Station, Beltsville, Md.), which has recently become affiliated with the AAAS, will have its first meeting with the Association. Two sessions for papers, a banquet, and business meeting are scheduled for 30 December.

Anthropology (H)

The program of Section H (Eleanor Leacock, Bank Street College of Education, New York) will focus on arctic and sub-arctic archeological and ethnological problems in a four-session symposium, being arranged for 29 and 30 December by Jacob Fried. Papers on archeology, ethno-history and contemporary processes will be followed by a panel discussion synthesizing the material presented. Section H will cosponsor the four-session symposium, "Communication and Social Interactions in Primates" of the Section on Animal

Behavior and Sociobiology of the Ecological Society of America. Other symposia may include ancient health practices, and the relation between anthropometric measurements and physiological function. The vice-presidential address will be given by Anthony F. C. Wallace (University of Pennsylvania Museum). There will be one or more sessions for contributed papers.

Psychology (I)

The program of Section I (Frank W. Finger, University of Virginia) will consist of four symposia (29 and 30 Dec.) and the vice-presidential address by Lorrin A. Riggs (Brown University) "Effects of Stimulus Pattern on the Human Electroretinogram" (29 Dec.). The symposium arranged by Robert B. Malmö (McGill University) and David Bélanger (University of Montreal) on "Activation" will include the papers "Electrocortical activation vs. behavioral arousal," by Samuel M. Feldman (Albert Einstein College of Medicine); "D. C. potentials as a measure of activation in the central nervous system," by Vernon Rowland (Western Reserve University Hospital); "Arousal and general behavior theory," by Edward L. Walker (University of Michigan); and "La fréquence cardiaque comme indice d'activation," by Bélanger. Daniel E. Berlyne (University of Toronto) will serve as discussant. It has been planned to have simultaneous translation for this session.

Dale B. Harris (Pennsylvania State University) has organized a symposium on "Experiential Deprivation and Enrichment and Subsequent Development," cosponsored by the Society for Research and Child Development. The participants and their papers will be John M. Warren (Pennsylvania State University), "Early experience, maturation, and learning in kittens"; Gene P. Sackett (University of Wisconsin), "Effects of rearing conditions upon social and emotional behavior in rhesus monkeys"; and Susan W. Gray (George Peabody College for Teachers), "An experimental preschool program for culturally deprived children."

E. F. MacNichol (Johns Hopkins University) and Paul Liebman (University of Pennsylvania) will be among those participants describing investigations of "Vertebrate Color Receptors." Arrangements are being made by the Corporation of Psychologists of the

Province of Quebec for a symposium in the area of genetic psychology.

Social and Economic Sciences (K)

Detailed plans of Section K (Ithiel de Sola Pool, Massachusetts Institute of Technology) have not yet become available. The section will cosponsor appropriate sessions of the "K series." The vice-presidential address will be given by Harold D. Lasswell.

It is expected that The *American Economic Association* (Bert F. Hoselitz, Massachusetts Institute of Technology) will have a program of invited papers, cosponsored by Section K, early in the meeting period (26 Dec.) so that AEA members may attend both the AAAS meeting and their own national meeting, to be held in Chicago from 28 to 30 December.

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

The national meeting of the *American Society of Criminology* (28-30 Dec.) is the responsibility this year of its president, Walter C. Reckless (Department of Sociology, Ohio State University), and will consist of seven sessions of papers, the annual business meeting, the annual awards, and a memorial session—which will be combined with a luncheon and an informal evening reception at the Helene de Champlain Restaurant, St. Helen's Island.

The *American Sociological Association* (Wilbert E. Moore, Russell Sage Foundation, New York) will have two symposia, "Studies of Large-scale Social Change" and "Demographic Approaches to Social Change," cosponsored by Section K.

Details of the programs of the *Metric Association* (Robert P. Fischelis, Washington, D.C.) are not yet available.

The *National Institute of Social and Behavioral Science* (Donald P. Ray, 863 Benjamin Franklin Station, Washington, D.C. 20044) will have its usual session for selected contributed papers the afternoon of 28 December.

History and Philosophy of Science (L)

The program of Section L (Norwood Russell Hanson, Yale University) jointly sponsored with Section T—Information and Communication begins the morn-

ing of 28 December. It will consist of the AAAS Interdisciplinary Symposium, "History of the Popularization of Science." The remainder of the week the Section's sessions will be coordinated with, and joint with, those of the national meeting of the *History of Science Society* (John E. Murdoch, Harvard University). The Society has scheduled a council meeting the evening of 27 December; a "Works in Progress in the History of Science" session the afternoon of the 28th; and a meeting of the *Isis* editorial committee the evening of 28 December. The joint symposium on the morning of 29 December will be devoted to Einstein. The afternoon session will be joint also with the Society for the History of Technology.

The joint dinner of the History of Science Society and of Section L (evening of 29 Dec.) will include the Society's presidential address by Marshall Claggett (University of Wisconsin). The symposium the morning of 30 December, "The Mechanics of Aristotle," will include a major paper by G. E. L. Owen (professor of Ancient Philosophy and fellow of Corpus Christi College, Oxford University). The business meeting of the Society that afternoon will be preceded by the vice-presidential address of John E. Murdock with Norwood Russell Hanson presiding.

The *Society for the History of Technology* (John J. Beer, University of Delaware, Newark) will have in addition to the joint symposium, on "Historical Relations of Science and Technology," (29 Dec.), a series of sessions from the 28th through the 30th of December on the following topics: "Internal combustion developments," "Canadian technology," and "Work-in-progress."

The 10th annual meeting of the *Society for General Systems Research* (J. H. Milsum, Department of Electrical Engineering, McGill University) will consist of two symposium sessions, luncheon and dinner (29 Dec.), and two sessions for contributed papers (probably 30 Dec.). At the symposium sessions invited speakers will take as their theme the phenomenon of "Positive Feedback" as it applies to the following areas—international and political systems, business and economic systems, social systems, man and his internal systems, computation, control technology, and ecological systems. A panel discussion to integrate these presentations will then follow.

Engineering (M)

The program of Section M (Charles F. Savage, General Electric Company, New York) will consist of three technical sessions that will be of broad general interest, and a film presentation. Two of the interdisciplinary sessions are jointly sponsored with the *Engineering Institute of Canada* (A. O. Neilson, c/o George Demers, Montreal).

The subjects are planned to cross the interface of engineering and scientific interests. Titles of the sessions are: "Man's biological and engineering systems," sponsored by Section M, AAAS, and the EIC. "Materials—The foundation of new technology," sponsored by Section M, AAAS, and the EIC. "Automatic recognition of form," sponsored by Section M.

Selection of the engineering films for the program has not yet been made. The object is to depict contributions made by the engineering profession at a level of sophistication that will attract scientific attention.

For the maximum convenience of all, it is planned to show the films daily in 2-hour periods preceding, between, and immediately following morning and afternoon sessions.

Medical Sciences (N)

As in previous years, Section N will have a four-session symposium (28–30 Dec.) with both American and foreign participants. This year's subject is biochemical differentiation. The program is being organized by Norman Kretschmer (Stanford University) in collaboration with James Ebert (Carnegie Institution of Washington, Baltimore), Robert E. Greenberg (Stanford University), and Oscar Touster (Vanderbilt University). The papers will deal with theoretical concepts, fertilization, cytodifferentiation, alterations in protein synthesis, and hormonal regulation. The first session on basic concepts will be a AAAS Interdisciplinary Symposium on 28 December. James Ebert will give the vice-presidential address. Section N will also cosponsor the symposium of Section Np on drugs and genetics.

The *Academy of Psychoanalysis* (Montague Ullman, director of Psychiatric Services, Maimonides Hospital of Brooklyn, New York) and the *American Psychiatric Association Committee on Research* (Bernard C. Glueck, Jr., Division of Research, Institute of

Living, Hartford, Connecticut) will jointly sponsor a four-session symposium (26–27 Dec.) on "Cognitive Processes and Psychopathology." The program will be designed to consider the rapidly converging interest of behavioral scientists in the cognitive aspects of psychiatric problems. The four sessions will consider (i) developmental approaches to cognitive theory with particular reference to the contributions of Piaget and Freud; (ii) contributions from the studies in language and symbolism; (iii) the relevance of information theory and cybernetics to evolving concepts of psychopathology; and (iv) recent psychoanalytic contributions.

The annual program of *Alpha Epsilon Delta* (Maurice L. Moore, national secretary, Bronxville, N.Y.) will include a symposium on "Canadian Medical School Requirements and Admission Procedures," (29 Dec.), which will be followed by the annual luncheon and address, and by a tour of local medical facilities.

The *Canadian Medical Association* (A. D. Kelly, C.M.A. House, 150 St. George St., Toronto) is considering cosponsorship with an existing section or development of a sectional program in which "all contributors would be distinguished Canadians in scientific fields related to medicine," at the option of the AAAS program committee.

Dentistry (Nd)

Section Nd will sponsor a four-session symposium, "Environmental Variables in Oral Disease" (29–30 Dec.) arranged by Frank J. McClure and Seymour J. Kreshover (National Institute of Dental Research, Bethesda, Md.). Cosponsors include AAAS sections on Geology and Geography (E), Agriculture (O), and Medical Sciences (N); the American Dental Association; International Association for Dental Research, North American Division, and the American College of Dentists.

Details of the program are: Opening remarks and welcome to AAAS Meeting in Montreal, James A. English (University of the State of New York at Buffalo). Session I: "Geographic and Clinical Considerations." Basil G. Bibby (School of Medicine and Dentistry, University of Rochester) will preside. "The changing nutritional environment and disease," Arnold E. Schaefer (Executive Director, Interdepartmental Committee

on Nutrition for National Defense, National Institute of Arthritis and Metabolic Diseases, Bethesda, Md.); "World epidemiology and oral health," Albert L. Russell (National Institute of Dental Research, Bethesda); "Trace element variables in soil, water, and atmosphere as related to oral health," Fred L. Losee (Great Lakes Naval Training Station, Great Lakes, Ill.); and "The problem of protein and oral health," Edward A. Sweeney (School of Dental Medicine, Harvard University, Boston, Mass.). Session II: "The Oral Environment—Nutrition and Dental Caries." Robert Van Reen (Naval Medical Research Institute, National Naval Medical Center, Bethesda) will preside. "Saliva chemistry and its action in the oral cavity," I. L. Shannon (Brooks Air Force Base, Texas); "Experimental caries research—genetic and environmental factors," Rachel H. Larson (Laboratory of Microbiology, National Institute of Dental Research); "The oral environment," Harold McCann (Forsyth Dental Center, Boston, Mass.); and "Dietary additives," Irwin I. Ship (School of Dentistry, University of Pennsylvania). Session III: "Experimental Considerations in Oral Soft Tissue Lesions." Seymour J. Kreshover will preside. "Molecular chemistry in oral disease," George R. Martin (National Institute of Dental Research); "Connective tissue changes in oral disease," Harold M. Fullmer (National Institute of Dental Research); "Enzymatic mechanisms related to oral diseases," Stuart A. Narrod, Women's Medical College of Pennsylvania, Philadelphia); and "Experimental approaches to the study of periodontal biology," Barnett M. Levy (University of Texas Dental Branch, Houston). Session IV: Prenatally Occurring Influences. James A. English will preside. "Broad environmental considerations in oral-facial malformations," C. T. G. King (National Institute of Dental Research); "Pharmacological aspects of teratogens," John J. Burns (Wellcome Research Laboratory, Tuckahoe, New York); "Hypervitaminosis A—Malformations of the face and mouth in inbred mice," Harold Kalter (Children's Hospital Research Foundation, Cincinnati, Ohio); and "Antibody theories in congenital malformations," Jan Langman (chairman, Anatomy Department, University of Virginia). There will be general discussions after each session.

Pharmaceutical Sciences (Np)

The program of Section Np (Joseph P. Buckley, University of Pittsburgh) 29–31 December, is expected to include sessions for contributed papers on hospital pharmacy; a luncheon and the vice-presidential address of Lee H. MacDonald (The Upjohn Company, Kalamazoo, Mich.); a symposium on hospital pharmacy; and the Pharmacists' Dinner the first day.

On 30 December there will be contributed papers in pharmaceutical sciences; a Distinguished Lecture, "Calciphylaxis," by Hans Selye (Université de Montréal), and a symposium on "Drugs and Genetics," arranged by George F. Archambault (U.S. Public Health Service, Silver Spring, Md.), cosponsored by the section on Medical Sciences (N). Another session for contributed papers on pharmaceutical sciences (31 Dec.) will conclude Section Np's program which, in its entirety, 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 (Edward F. Knipling, U.S.D.A., Beltsville, Md.) will have a six-session symposium on "Pest Control by Chemical, Biological, Genetic, and Physical Means." Sessions I and II (27 Dec.) will be concerned with a special address, "Problems Associated with the use of agricultural pesticides," and papers on pest control by chemical means. Included will be requirements for insecticides of the future; requirements for herbicides of the future; the role of chemicals for the control of vertebrate pests; the future role of natural and synthetic attractants for pest control; the role of chemicals for controlling plant diseases; the role of chemicals for controlling plant nematodes; and control of animal parasites by chemical means.

On 28 December Section O will cosponsor the AAAS Interdisciplinary Symposium on Medical Geology and Geography.

Sessions III and IV (29 Dec.) will include a special address, "The need for

interdisciplinary research on pest control problems," and papers on pest control by biological means: present and future role of parasites and predators for insect control; present and future role of microbial agents for control of plant and animal pests; the role of biological agents for the control of weeds; biological methods for the control of plant diseases and nematodes; application of the sterility principle for the control of insects; application of the sterility principle for the control of vertebrate pests; and biological control of animal parasites.

Sessions V and VI on 30 December in the morning has three papers on pest control by genetic means: advances in the control of plant diseases and nematodes through natural selection of plants; plant resistance as a means for controlling insects; and the future of animal breeding for resistance to diseases and pests. The afternoon session includes three papers on pest control by physical means: electromagnetic energy and sound for use in pest control; current and future role of light for insect control; and the role of agricultural engineers in agricultural pest control.

Industrial Science (P)

Section P. (Allen T. Bonnell, Drexel Institute) will have a joint symposium with *The Institute of Management Sciences* (Burton V. Dean, Case Institute of Technology) of particular interest to executives in industry. Past vice president Alfred T. Waidelich (The Austin Company, Cleveland) will give the vice-presidential address at the annual luncheon with current vice president R. Holley Keefer, Northern Electric Ltd., presiding. The section will also confer the 1964 Industrial Award and cosponsor appropriate programs.

Education (Q)

The program of Section Q (Frederic B. Dutton, Science and Mathematics Teaching Center, Michigan State University) will have appropriate joint programs, sessions for contributed papers, a business meeting, and the vice-presidential address of Herbert S. Conrad (U.S. Office of Education, Washington, D.C.).

Section Q is also planning to organize a committee of representatives from different disciplines to define quality in education—and to report at Montreal.

Section Q and the *Canadian Science Fairs Council* are sponsoring a two-session symposium on "Extracurricular Science at the High School Level" arranged by Henry I. Bolker (Pulp and Paper Research Institute of Canada, Montreal) and T. Wayne Taylor (Michigan State University).

The *Canadian Teachers Federation* (Gerald Nason, CTF, Ottawa), a long-time affiliate of the AAAS, is exploring the possibility of a special program with Section Q.

The three science teaching societies, ANSS, NABT, NARST, and NSTA, that regularly meet with the AAAS, as usual will have a coordinated program, coordinated by Richard G. Beidleman (Colorado College). There will be three joint sessions preceded by three joint film sessions (27–29 Dec.) again arranged by J. David Lockard (University of Maryland) 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 annual national meeting of the *American Nature Study Society*, arranged by Verne N. Rockcastle (Cornell University), includes, in addition to board meetings and afternoon sessions each day, joint meetings each morning with the Teaching Societies, an ANSS-sponsored luncheon (28 Dec.), and the annual field trip with NABT (30 Dec.).

The annual national meeting of the *National Association of Biology Teachers*, arranged by Richard G. Beidleman, is quite similar to that of the ANSS program in pattern except that the luncheon sponsored by NABT will be 29 December.

The regional meeting of the *National Science Teachers Association* arranged by the national executive secretary, Robert H. Carleton (NSTA, Washington, D.C.), will consist of two afternoon sessions, one on 27 December, and the other on 28 December.

Information and Communication (T)

Section T's program (Phyllis V. Parkins, *Biological Abstracts*) beyond the AAAS Interdisciplinary Symposium, "History of the Popularization of Science" (René Dubos has been invited to chair this symposium), joint with Section L, will consist of a carefully staged panel discussion by editors of different disciplines and representative authors; a luncheon and address by a distinguished speaker; and the vice-presidential address of Wallace R. Brode (Washington, D.C.).

The Society of Technical Writers and Publishers has been asked to hold a joint session with Section T.

The *National Association of Science Writers* (Leonard S. Zahn, Hill & Knowlton, Inc., 150 East 42nd Street, New York) will have a business meeting, and the annual dinner at which the AAAS-Westinghouse Science Writing Awards are announced.

Statistics (U)

The program of Section U with Daniel B. De Lury (University of Toronto) as chairman will again consist largely of joint sessions with other sections. The vice-presidential address will be given by Churchill Eisenhart, Statistical Engineering Laboratory, National Bureau of Standards, Washington.

The *American Statistical Association's* Section on Training will conduct jointly with Section U a session for teachers.

The program of the *Biomedical Information-Processing Organization* will be arranged by Max A. Woodbury (professor of medical neurology, New York University Medical School) who will also act as program chairman. This program, held jointly with Section U, will be a series of invited papers on "Classification Problems in Medical Diagnosis."

The *Biometric Society*, *ENAR*, and the *American Fisheries Society* are planning a joint 1-day session on "Population Estimation" for the Montreal Meetings. Topics will include both the-

oretical developments and examples of their application. D. S. Robson (Cornell University) is program chairman. Section U will be a cosponsor.

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, the programs of one of these—the Academy Conference—has already been mentioned, under "Other General Events."

The *American Geophysical Union* (Waldo Smith, AGU, Washington, D.C.) will cosponsor appropriate sessions.

It is believed that the *Association Canadienne-Française pour L'Avancement des Sciences*—or ACFAS—may arrange a special session or cosponsor one or more appropriate programs. The general officer, J.-M. Beauregard, and other members have been most helpful in the early preparations for the meeting.

The annual meeting of *Sigma Delta Epsilon*, graduate women's scientific fraternity (Sue C. Stevens, P.O. Box 1363, Lincoln, Nebr., national president) will include a series of council meetings, a workshop, a tea for all women in science, and the grand chapter dinner and meeting. A headquarters room will be maintained throughout the meeting period (26–29 Dec.).

The 65th annual convention of the *Society of the Sigma Xi* (Thomas T. Holme, Society of the Sigma Xi, New Haven) will be held on the morning of 29 December before a luncheon. In the evening of 29 December, the Society will join with the *United Chapters of Phi Beta Kappa* (Carl Billman, Phi Beta Kappa, Washington, D.C.) in sponsoring an address by René Dubos (Rockefeller Institute). Since the inauguration of the series in 1922, these distinguished lectures, of interest to all participants, have been a valued feature of the AAAS meeting.