

Canadian Mapping Program

More than 1000 men, comprising 81 individual field survey parties, will conduct the annual mapping and charting program this year for the Surveys and Mapping Branch of the Canadian Department of Mines and Technical Surveys.

The program, which is getting under way now and will continue through November, will take survey parties to all ten Canadian provinces as well as into the Yukon and the Northwest Territories and into navigable coastal and inland waters. Included in the field survey force will be 28 units of the Canadian Hydrographic Service.

In announcing the program, Mines Minister Paul Comtois stated that increasing emphasis is being placed on the development of Canada's northland.

The over-all program has a twofold objective. The long-range purpose is to provide data for the preparation of base maps and charts of various scales, covering the entire Dominion; the short-range objective is to stimulate the development of areas of potential resources, such as minerals, water power, and forests. Defense needs are also a factor in the mapping and charting program.

Grants, Fellowships, and Awards

Arthritis and rheumatism. The Arthritis and Rheumatism Foundation offers predoctoral, postdoctoral, and senior investigatorship awards in the fundamental sciences related to arthritis for work beginning 1 July 1960. Deadline for applications is 31 October.

These awards are intended for fellowships to advance the training of young men and women of promise for an investigative or teaching career. They are not in the nature of a grant-in-aid in support of a research project. The program provides for three types of award.

Predocutorial fellowships are limited to students who hold a bachelor's degree. Each applicant studying for an advanced degree must be acceptable to the individual under whom the work will be done. These fellowships are tenable for 1 year, with prospects of renewal. Stipends range from \$1500 to \$3000 per year, depending upon the family responsibilities of the fellow.

Postdoctoral fellowships are limited to applicants with the degree of doctor of medicine, doctor of philosophy, or their equivalent. These fellowships are tenable for 1 year, with prospect of renewal. Stipends range from \$4000 to \$6000 per year, depending upon the family responsibilities of the fellow.

Senior investigator awards are made to candidates holding, or eligible for, a faculty rank, such as instructor or as-

sistant professor (or equivalent) and who are sponsored by their institution. Stipends are from \$6000 to \$10,000 per year and are tenable for 5 years.

A sum of \$500 will be paid to cover the laboratory expenses of each postdoctoral fellow and senior investigator. An equal sum will be paid to either cover the tuition expenses or laboratory expenses of each predoctoral fellow. For further information and application forms, address the Medical Director, Arthritis and Rheumatism Foundation, 10 Columbus Circle, New York 19, N.Y.

Cardiological research. Applications are now being accepted by the American Heart Association for support of research to be conducted during the fiscal year beginning 1 July 1960. The deadline for applying for research fellowships and established investigatorships is 15 September. Applications for grants-in-aid must be made by 1 November.

Support is given not only to studies with a direct bearing on problems of cardiovascular medicine but also to basic research in a wide range of scientific disciplines. The association recently announced its national awards for the 1959-60 fiscal year, representing an allocation of approximately \$3,300,000.

Established investigatorships are awarded for periods of up to 5 years, subject to annual review, in amounts ranging from \$6500 to \$8500 yearly, plus dependency allowances, to scientists of proven ability who have developed in their research careers to the point where they are independent investigators. In addition, a grant of \$500 is made to the investigator's department. Applicants for established investigatorships may apply for grants-in-aids to support their research at the same time they apply for established investigatorships.

Advanced research fellowships are awarded for periods of 1 or 2 years to postdoctoral applicants who have had some research training and experience but who are not clearly qualified to conduct their own independent research. During the second year of tenure they will be permitted to spend up to 25 percent of their time in professional and scientific activities not strictly of a research nature, provided that these will contribute to their professional development and do not involve services for a fee. These stipends range from \$4600 to \$6500 annually. Additionally, a grant of \$500 is made to the investigator's department, as in the case of established investigators.

Research fellowships are available to a limited number of young men and women with doctoral degrees for periods of 1 or 2 years to enable them to train as investigators under experienced supervision. Annual stipends range from \$3800 to \$5700.

Grants-in-aid are made to experienced

investigators to help underwrite the costs of specified projects, such as equipment, technical assistance, and supplies.

Further information and application forms may be obtained from the Assistant Medical Director for Research, American Heart Association, 44 E. 23rd St., New York 10, N.Y.

Radioisotope technology. The Atomic Energy Commission has announced approval of grants totaling \$251,704 to 12 American colleges and universities. The grants are a part of the commission's new program of assistance for education and training in radioisotope principles and technology. Detailed information on the program and instructions for the submission of proposals may be obtained by writing to the Director, Office of Isotopes Development, U.S. Atomic Energy Commission, Washington 25, D.C.

Science writing. The Arthritis and Rheumatism Foundation has announced that the Russell L. Cecil Award for science writing will in 1959, for the first time, include an honorarium of \$500. The honorarium will also be included in future awards. The award was established in 1956 to encourage the writing of stories and scripts on arthritis for general circulation newspapers, magazines, and the broadcasting media. All entries must be submitted by 31 January 1960. Further information is available from the Arthritis and Rheumatism Foundation, 10 Columbus Circle, New York 19, N.Y.

Social science. The Office of Social Sciences of the National Science Foundation has announced that the next closing date for receipt of basic research proposals in the social sciences is 1 October. Proposals received prior to that date will be reviewed at the fall meeting of the foundation's advisory panel and disposition will be made approximately 4 months following the closing date. Approved grants will be activated in time for work to begin in the second semester or summer of 1960. The Office of Social Sciences supports basic research in anthropology, archeology, demography, human ecology, sociology, social psychology, economics, economic and social geography, and the history and philosophy of science.

Proposals received after the 1 October closing date will be reviewed following the closing date of 1 February 1960, with activation of approved grants in the summer and fall of 1960. Inquiries should be addressed to the National Science Foundation, Washington 25, D.C.

News Briefs

The Josiah Macy, Jr. Foundation recently awarded unrestricted grants of \$50,000 per annum for a 3-year period to each of 11 private medical schools for

strengthening their research-teaching staff, particularly in the medical science departments. This interim assistance will help a few private medical schools during the period in which efforts are being made to secure support of a permanent character. These grants, totaling \$1,650,000, were made by the foundation in recognition of the fact that at present there are more funds for medical research than there are facilities and permanent staff to carry out the programs.

* * *

A new department of virology has been established on the Berkeley campus of the University of California. This is one of the first departments in any major university to be dedicated to the study of viruses; it will be closely associated with the 10-year-old Virus Laboratory at Berkeley. Chairman of the new department is Wendell M. Stanley, Nobel laureate and director of the Virus Laboratory. Eight faculty members, drawn from the Virus Laboratory, now comprise the staff of the department.

* * *

A 64-page International Geophysical Year bibliography that lists 704 references on the IGY published between January 1951 and August 1958 may be obtained for \$1 from the National Academy of Sciences, Washington 25, D.C. Entries in *An Interim Bibliography on the International Geophysical Year* were selected for scientific value, extent of coverage, historical interest, uniqueness, and availability. English translations are given for titles in Russian, East European languages, and Japanese, and the availability of complete translations or English summaries is noted.

* * *

The International Atomic Energy Agency, Vienna, Austria, has released the first issue (a 20-page pamphlet) of a chronological list of atomic energy conferences, meetings, and training courses.

* * *

In Canada the president of the National Research Council and the chairman of the Defence Research Board are in the process of establishing a Permanent Joint Committee on Space Research. Canadian governmental agencies concerned with these matters, and a number of interested universities, will have representatives on the committee.

* * *

Sixty-nine corporations are now matching the gifts their employees make to colleges and universities, according to the American Alumni Council (Washington, D.C.). Four years ago the General Electric Company pioneered in this approach to business support of colleges and universities by introducing the Corporate Alumnus Program. For every gift which General Electric personnel made to institutions of higher learning from

which they held degrees, the company contributed a like amount. Since the start of the program in 1955, more than \$800,000 has been distributed to match the gifts of General Electric employee-alumni.

* * *

A group of specialists in nuclear medicine have formed Medical Nuclear Consultants, Inc., with headquarters in Washington, D.C. (5506 Connecticut Ave., NW) and offices in New York and Montreal. Services will be made available to sponsors of diagnostic, treatment, and research programs, according to Stanley H. Clark, radiation physicist and president of the group. He was formerly in charge of radiation protection for the General Electric Research Laboratories in Schenectady, N.Y.

* * *

The Report of the U.S. Public Health Mission to the Union of Soviet Socialist Republics, Public Health Service Publication No. 649, contains the findings of a mission of five doctors who visited the Soviet Union late in 1957 under the exchange program approved by the two countries in 1956. Members of the mission traveled 8500 miles and visited 61 institutions in nine cities in five of the Soviet republics during August and September 1957.

* * *

The American Association of Physics Teachers has released a report on the sizes of lecture rooms used in 430 physics departments in the United States. Based on a postcard questionnaire sent by an AAPT committee to 540 departments which offer a major in physics, the one-page report contains information that will be of interest to designers and manufacturers of lecture-room equipment.

* * *

A limited number of well-known neurobiologists are being invited to attend a meeting to be held next September on the occasion of the 50th anniversary of the Netherlands Central Institute for Brain Research at Amsterdam. This congress is also to pay homage to the memory of C. U. Ariëns Kappers, the institute's first director.

* * *

In behalf of the Histochemical Society the editorial office of the *Journal of Histochemistry and Cytochemistry* maintains a register of positions and personnel available in the field of histochemistry. Inquiries may be directed to Dr. J. B. Longley, National Institutes of Health, Bethesda, Md. A fuller statement of the principles on which the register is operated appeared on the January 1959 issue of the *Journal*.

* * *

A new journal of statistics for the physical, chemical, and engineering sciences has been started by the American

Society for Quality Control and the American Statistical Association. Entitled *Technometrics*, the new publication is edited by J. Stuart Hunter at Princeton University. *Technometrics* will be issued quarterly in February, May, August, and November. For information, write to the American Statistical Association, Room 404, Beacon Building, 1757 K St., NW, Washington 6, D.C.

* * *

Three of the U.S. Atomic Energy Commission's traveling exhibits will be presented at some 50 colleges and universities in ten states during the summer months in a new "Atoms at Work" science-teacher training program. The National Science Foundation has made funds available to help support the program, which will be administered by the Museum Division of the Oak Ridge Institute of Nuclear Studies, Oak Ridge, Tenn., in cooperation with the National University Extension Association.

* * *

The American Heart Association has announced that it will spend a total of approximately \$3,300,000 for scientific studies in the field of heart and blood-vessel diseases during the 12 months beginning 1 July. This is the largest sum ever appropriated by the association to support research in a single fiscal year and represents a commitment of approximately 57 percent of the income received from public contributions to last year's Heart Fund appeal.

* * *

In a report issued last month, the National Education Association urged that instruction in geography in the country's schools be modernized and restored to the curriculum as the unified subject it once was. The report, titled, "New Viewpoints in Geography," cited the many changes, both in factual material and in methods of instruction, that had taken place. Physical and economic geography are fields in which new and better instruction would be of particular value, the report noted.

* * *

The Atomic Energy Commission will close its uranium mill at Monticello, Utah, on or about 1 Jan. 1960. This mill, the only commission-owned uranium ore processing plant, will be maintained in a stand-by condition. The Monticello mill is being operated by National Lead Company, Inc., under an AEC contract. With the closing of the Monticello mill, all domestic ore processing will be carried on by private industry. Twenty-two privately owned mills are in operation throughout the Western states.

* * *

The Committee on the International Exchange of Persons at the National Academy of Sciences-National Research Council has compiled a new list of for-

eign scholars available for remunerative positions in American universities and colleges during the academic year 1959-60. This 11-page list, which is distributed on request, is prepared annually and includes scholars recommended by the United States educational commissions and foundations abroad. Each scholar on the list is eligible for a government travel grant covering round-trip transportation to the United States if arrangements are made for a lecturing or research appointment.

Scientists in the News

A. OLIVER, director of the New York Zoological Park, has been appointed director of the American Museum of Natural History. He succeeds ALBERT E. PARR, director since 1942, who has been appointed senior scientist of the museum in accordance with a policy recently adopted by the board of trustees that enables a director to resume full-time research after 15 years of administrative service. JOHN TEE-VAN, general director of the New York Zoological Park and the New York Aquarium, will again assume full directorship of the zoo on 15 September. He was director from 1952 to 1956.

Parr, a distinguished marine biologist, was graduated from the Royal University of Oslo and served with the Bergen Museum and the Norwegian Bureau of Fisheries before leaving Norway for the United States in 1926. His first major appointment in this country was in 1927, when he became curator of the Bingham Oceanographic Collection. He joined the American Museum from Yale University, where he had served successively as professor of oceanography, director of oceanic expeditions, and director of the Peabody Museum of Natural History. He has received two honorary D.Sc. degrees, one from Yale University and one from Colby College.

At the American Museum, Parr's 17-year administration has been notable for the establishment of an optimum climate for research and scholarship, for the development of a new philosophy of exhibition, and for pioneering techniques of interpretation. The Warburg Memorial Hall of Ecology is the embodiment of Parr's philosophy of teaching the interrelationships of all living organisms. Ten major exhibition halls were completed under his direction.

ANTHONY J. DE LORENZO, former faculty member of the Washington University School of Medicine (St. Louis), has been appointed director of the Anatomical and Pathological Research Laboratory in the department of otolaryngology at the Johns Hopkins University

School of Medicine. He succeeds STACY R. GUILD, who has retired after 33 years as director. De Lorenzo also is assistant professor in the department of anatomy.

WILLIAM M. HESTON, JR., of the employee relations department at E. I. duPont de Nemours & Company, Wilmington, Del., has been appointed by Western Reserve University to the newly established position of director, office of university research, and associate in the department of chemistry, effective 1 July. He will assist faculty members in preparing requests for research grants, will review all research budgets, and will supervise the reporting and accounting of research money.

WILLIAM J. PYLES, assistant clinical professor of medicine at Columbia University College of Physicians and Surgeons, has been appointed medical director of the New York Heart Association. He succeeds D. F. MILAM, who retired 1 June.

ERWIN L. JUNGHER, professor of animal pathology and head of the department of animal diseases, University of Connecticut, will retire on 1 July. He expects to join the virus and rickettsial research staff of Lederle Laboratories, American Cyanamid Company, Pearl River, N.Y.

KARL SCHWARTZWALDER, director of research at the AC Spark Plug Division of General Motors, in Flint, Mich., has recently received the John Jeppson Medal of the American Ceramic Society.

MAX T. WEISS, specialist on microwave physics at Bell Telephone Laboratories for 9 years, has joined Hughes Aircraft Company as senior staff physicist of the microwave laboratory's electronics research department.

FRED W. DROSTEN, former reactor engineer with the U.S. Atomic Energy Commission's Oak Ridge Operations Office, has been named director of metallurgical development for the Heavy Minerals Company, a subsidiary of Vitro Corporation of America.

JOHN STERNER has resigned as director of flight test operations for Space Technology Laboratories at Cape Canaveral, Fla., to join with WILLIAM P. MURPHY, JR., research associate professor at the Miami School of Medicine, in founding the Cordis Corporation in Miami, Fla., a medical instrument firm. Murphy will be the new corporation's president, and Sterner will be vice president.

ROBERT W. NOYES, associate professor of obstetrics and gynecology at Stanford University Medical School, and THOMAS H. CLEWE and AILEEN YAMATE, research associates, have received the Rubin Award of the American Society for the Study of Sterility for their work on ovarian transplants to the anterior chamber of the eye.

CARROLL L. ZIMMERMAN, chief scientist for the Strategic Air Command, Offutt Air Force Base, Neb., has been appointed director of the operations analysis office at the U.S. Air Force headquarters in Washington, D.C.

CECIL P. HEADLEE, professor of pharmacology and physiology at Northeastern Louisiana State College School of Pharmacy, has been appointed scientific director at the C. B. Kendall Company, Indianapolis, Ind.

DAVID H. NEWBY, formerly chief of the test and evaluation laboratory, U.S. Army Ordnance Corps, Huntsville, Ala., has been appointed representative of the National Aeronautics and Space Administration at the Army Ordnance Missile Command, Huntsville, Ala.

FRANK F. DARLING, formerly senior lecturer in ecology and conservation at the University of Edinburgh, Scotland, has been appointed vice president of research at the Conservation Foundation, New York. Darling has been a member of the foundation's scientific advisory council for many years.

NORMAN KHARASCH, professor of chemistry at the University of Southern California, has been awarded a Fulbright research grant to spend the 1959-60 academic year in Austria at the Vienna Institute of Technology.

JAMES McCONNELL, professor at St. Patrick's College, Maynooth, Ireland, will spend the 1959-60 academic year as visiting professor of physics at Fordham University, where he will lecture on field theory and fundamental particle physics.

FREDERICK REINES, group leader at the Los Alamos Scientific Laboratory, has been appointed professor and head of the physics department at Case Institute of Technology, effective 1 July.

FREDERICK J. GUTTER, chemist in the laboratory of biochemistry at the National Cancer Institute, has been transferred to the extramural programs branch of the National Institute of Neurological Diseases and Blindness, National Institutes of Health, Bethesda, Md.