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OTR 79-1091

	DDJA REGISTRY
MEMORANDUM FOR:	Executive Assistant to the DCI
SUBJECT:	External Training Opportunities for Agency Employees
concerning exter The criteria for are established full- or part-ti facilities, mili cial firms, or b or correspondence 2. During requests for Age various types of programs varies of facilities is It is literally	s in response to your request for information that training opportunities for Agency employees. Sponsorship of training at non-CIA facilities by regulation. Training may be me and may be obtained at interagency training tary bases, universities and colleges, commerty enrollment in the Agency's Off-Campus Program ecourses. The opportunities are limitless. Fiscal Year 1979, the Agency approved 4,161 ency employees from all Directorates to receive external training. The duration of these from one day to an academic year. The number wast, and the course offerings are extensive. impossible to list all the opportunities hope the attached samplings will indicate the cossibilities.
	Donald E. Smith Director of Training

Attachments: As Stated

DDA, w/atts. cc:

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SENIOR MANAGEMENT CAREER DEVELOPMENT PROGRAMS

SCHO	<u>ool</u>	DURATION	STUDENT GRADE
Α.	Senior Officer Schools		
	Air War College Army War College Naval War College (College of Naval Command and Staff)	10 months 10 months 10 months	GS-14 to GS-15 GS-14 and above GS-11 to GS-13
	Naval War College	10 months	GS-13 to GS-15
••	(College of Naval Warfare) National War College Industrial College of the Armed Forces	10 months 10 months	GS-15 and above GS-15 and above
	Executive Seminar in National & International Affairs (State Department)	10 months	GS-16 and GS-17
В.	Senior Management Programs		
	Brookings Educational Programs for Government Executives		GS-16 to GS-18
	Conference for Senior Executives on Public Policy Issues	2 weeks	
	Conference on Business in Contemporary Society	1 week	
	Conference for Science Executives Executive Leadership Forums on Critical Public Policy Issues	l week 4 days	
	OPM Federal Executive Institute Programs		GS-16 and up
	Senior Executive Education Program	7 weeks	
	Executive Leadership and Management Program	3 weeks	
•	Workshops (MBO, team-building, etc.)	1. week	
-	OPM Education for Public Management	Academic year	GS-12 to GS-14
	OPM Executive Seminars	2 weeks	GS-14 and GS-15

SCHOOL		DURATION	STUDENT GRADE
В.	Senior Management Programs (Continued)		
	Management Program for Executives, University of Pittsburgh	6 weeks	GS-14 and up
	Executive Management Program, Penn State	4 weeks	GS-14 and up
	Executive Development Program, Cornell University	5 weeks	GS-14 and up
	Program for Senior Managers in Government, Harvard University	3 weeks	GS-17 and GS-18
	Executive Program in National Security, JFK School of Govern- ment, Harvard University	2 weeks	GS-18
С.	Fellowships and Interchange Progra	ims	
	OPM Fellowships in Congressional Operations	12 months	GS-13 to GS-16
D.	Other Full-time Programs		
		26 weeks	GS-11 and up
	National Senior Intelligence Course, DIS	14 weeks	GS-13 and up
Ε.	Part-time Program		
	National Academy of Public Administration	6 one-day sessions	GS-13 to GS-15

FULL-TIME ACADEMIC TRAINING

To illustrate the kinds of full-time academic training approved each year for Agency employees, set forth below is training undertaken by GS-07 to GS-14 employees during Fiscal Year 1979.

Facility	Program	Students
		1
Georgetown University	Economics	1
George Mason University	Business Administra- tion	3
	Economics World Geography	1 1
Johns Hopkins University	Economics	2
Montgomery College	Visual Communications	s 1
Indiana University	Management Program	1 .
Strayer College	Accounting	1
Benjamin Franklin University	Accounting	1
Harvard University	Midcareer Program International Relations	2 1
Towson State University	Geography	1.
Vanderbilt University	Economics	1
Prince Georges Community College	General Studies	1
George Washington University	Geodetic & Carto- graphic Research Fellow	1]
	(Soviet Studies)	1
	Engineering Political Science	1 1
	China/Asian Studies	1
· · · · · · · · · · · · · · · · · · ·	Economics	1

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INTERAGENCY TRAINING

Agency employees participate in interagency training on a regular basis. Examples of facilities used and courses attended during Fiscal Year 1979 are indicated below. All grade levels are acceptable.

FACILITY AND PROGRAM	DURATION
Office of Personnel Management ADP and Computer Specialist Government Affairs Financial Management and Budgeting Management Analysis Personnel Management Equal Employment Opportunity Employee Development	1 day - 2 weeks
Department of Energy Nuclear Fuel Cycle and Technical Aspects of Nuclear Weapons	9 days
General Services Administration Records Management Procurement and Requisitioning Contracting Inventory Control	1 day - 2 weeks
Department of Agriculture Executive Development, Management and Supervision Interpersonal Communications Secretarial, typing, shorthand	1 day - 2 weeks
Foreign Service Institute Area Studies Language Economic and Commercial Training Political Training	1-54 weeks
Department of Defense Computer Institute Computer Systems & Management	1-2 weeks
National Security Agency Cryptology Language	1-44 weeks

DEPARTMENT OF DEFENSE TRAINING

Agency employees participate in Department of Defense training on a regular basis. Examples of facilities used and courses attended during Fiscal Year 1979 are indicated below.

<u>DURATION</u>	STUDENT GRADE
1-2 weeks	GS-7 to GS-10 GS-9 to GS-14 GS-9 to GS-14 GS-12 to GS-15
1 week	GS-9 to GS-15
1 week	GS-12 and above GS-7 and above GS-8 and above GS-7 to GS-14 GS-9 to GS-14
1-2 weeks	GS-9 to GS-13 GS-9 to GS-13 GS-9 to GS-13 GS-9 to GS-13
1 day-2 weeks	GS-9 to GS-13 GS-13 and above
	1-2 weeks 1 week 1 week 1-2 weeks

NON-GOVERNMENT EXTERNAL TRAINING

Agency employees participate in non-Government external training on a regular basis. Examples of facilities used and courses attended during Fiscal Year 1979 are indicated below.

FACILITY AND PROGRAM	DURATION	STUDENT GRADE
Technology Service Corporation Antenna Design Missile Guidance	1-2 weeks	GS-7 to GS-15
IBM Mag Card Training Project Management	2 days 2 weeks	GS-2 to GS-7 GS-12 to GS-18
Capitol Institute of Technology Basic Electricity and Lab Introduction to Digital Computers Calculus	1-2 weeks	GS-7 to GS-15
American Management Association Strategic Planning Fundamentals of Management for Warehouse Supervisors Action Tools for the Middle Manager	1 week	GS-13 to GS-18
Rand Corporation Work Study Program	1 year	GS-12 to GS-15
University of Wisconsin Effective Supervision for Professional & Technical Personnel Conference on Indonesia	1 week	GS-13 to GS-16
Gallaudet College Beginning Sign Language Basic Manual Communications	3 weeks	GS-4 to GS-18
Rochester Institute of Technology Photographic Science	1-2 weeks	GS-9 to GS-14
Motorola Motorola Technical Training	1 week	GS-9 to GS-13

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FACILITY AND PROGRAM	DURATION	STUDENT GRADE
M.I.T. Current Issues in Information Systems: Perspective for 80's Naval Surface Ship Design	1-3 weeks	GS-12 to GS-18
International Marketing Institute Market Management	1 week	GS-12 to GS-15
Federally Employed Women, Inc Tenth Annual National Training Program	3 days	GS-7 to GS-14

MISCELLANEOUS

Presidential Executive Interchange Program

1978-	his program is open to GS-13-GS-15 employees. Du 979, two GS-15 NFAC officers participated; one se	rved
QTAT: + h	Both officers	
were	n an LWOP status for the duration of the program,	and
their	salaries were paid by the host organizations.	

Sabbaticals

During 1978-1979, NFAC employees received sabbaticals as follows:

- a. One GS-16 officer attended the International Institute for Strategic Studies in London;
- b. One GS-15 was a Teaching Fellow at Georgetown University.

Other Approaches

Agency employees could request approval to attend programs at various independent research institutes (see attached listing) or at universities such as the following:

London Graduate School of Business Studies (The London-Sloan Fellowship Programme)

School of Advanced International Studies (Special Fellowships) at Johns Hopkins University (in Washington, D.C., or Bologna, Italy)

Educational Program for Federal Officials at Midcareer at the Princeton University Woodrow Wilson School of Public and International Affairs.

LEARNED SOCIETIES, RESEARCH INSTITUTES

UNITED STATES OF AMERICA

- ctitute of Food Technologists: 221 North La Salle St. (bicago, III. 66601; f. 1939; 15,000 mems.; Pres. Dr. 11 E. BAUMAN; Exec. Dir. Calvert L. Willey; publs. Food Technology (monthly), Journal of Food Science (bi-monthly).
- Instrument Society of America: 400 Stanwix St., Pittsburgh, Pa. 15222; f. 1945; 20,000 mems.; Exec. Dir. R. A. SCHLEGEL; Pres. Hugh S. Wilson; conferences and symposia, exhibits, short courses, special interest divisions, films, audio and visual cassettes; publs. Instrumentation Technology (monthly), ISA Transactions (quarterly), ISA Instrumentation Index (quarterly), proceedings, standards, monographs, references, compendia, study guides.
- atalernational Communication Association: formerly National Society for the Study of Communications; f. 1950 to bring together academics and professionals concerned with research and application of human communication: 2,100 mems.; Exec. Sec. ROBERT L. Cox, Balcones Research Center, 10100 Burnet Rd., Austin, Tex. 78758; publs. The Journal of Communica-tion, Human Communication Research, Membership Directory, Program (annual), The ICA Newsletter, The Communication Yearbook.
- Kining and Metallurgical Society of America: 230 Park Ave., New York, N.Y. 10017; Pres. KENNETH J. KUTZ.
- Reflored Association of Power Engineers, Inc.: 176 West Adams St., Suite 1411, Chicago 3, Ill.; f. 1882; 12,000 mems.; Pres. WILLIAM S. CODY; Scc. RAYMOND F. ARROW; publ. National Engineer (monthly).
- Organization for Social and Technical Innovation: 1000 Wisconsin Ave., N.W., Washington, D.C. 20007; Pres. Dr. Donald A. Schon.

- Society for the History of Technology: Dept. of History UCSB, Santa Barbara, Calif. 93106; concerned with history of technological devices and processes, relations of technology with science, politics, social change, the arts and humanities, and economics; affiliated to the American Association for the Advancement of Science, the American Council of Learned Societies and the Engineers Joint Council; 2,000 mems.; Pres. Eugene S. Ferguson; Sec. Dr. Carroll W. Pursell, Jr.; publs. Technology and Culture (quarterly), Monograph Series.
- Society of Automotive Engineers, Inc.: 400 Commonwealth Drive, Warrendale, Pa. 15096; f. 1905; 30,000 mems.; Sec. and Gen. Man. JOSEPH GILBERT; publs. SAE Transactions, SAE Handbook (annuals), Automotive Engineering (monthly).
- Society of Naval Architects and Marine Engineers: One World Trade Center, Suite 1369, New York, N.Y. 10048; f. 1893; approx. 11,500 mems.; Sec. ROBERT G. MENDE.
- Society of Rheology: f. 1929; Pres. J. R. KNON; Sec. R. A. MENDELSON, 335 East 45th St., New York, N.Y. 10017; publs. Rheology Bulletin (quarterly), Transactions of the Society of Rheology (quarterly).
- United Engineering Trustees, Inc.: 345 East 47th St., New York, N.Y. 10017; f. 1904 as a joint corporate agency of the major national engineering societies, to administer substantial trust funds for the advancement of the engineering arts and sciences, including ownership and administration of Engineering Societies Library, Engineering Foundation, United Engineering Center, and several awards; library of over 200,000 vols.; Pres. R. H. TATLOW III; Sec. and Gen. Man. JOHN A. ZECCA.

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Common of the second se antariumo RESEARCH INSTITUTES

More than 90 per cent of research in America is conducted by the universities and private industry. Most of the organizations listed below are independent, non-profit-making institutions.

AGRICULTURE AND VETERINARY SCIENCE

- Apicultural Research Institute: 2100 Pennsylvania Ave., N.W., Washington, D.C. 20037; f. 1951; 150 mems,; Pies. Ralph J. McCracken; publs. Newsletter (quarterly), Proceedings (annual).
- Council for Agricultural and Chemurgic Research: 350 Fifth Ave., New York 1; f. 1935; to further the industital use of agricultural produce and to devise and promote the raising of new crops for industry; 2,500 moms.; Chair, Edgar Fogle; Sec. Dr. Harry J. PREBLUDA; publ. Chemingic Digest (8 a year).
- Freit Products Research Society: 2801 Marshall Court, Madison, Wis. 53705; f. 1647; 4,500 mems, from 62 countries; Pres; Howard E. Olson; Exec. Vice-Pres. ARTHUR B. BROWNER, publs. Journal (monthly), Wood Science (quarterly).

BIBLIOGRAPHY AND LIBRARY SCIENCE

settlute for Scientific Information: 325 Chestnut St., Philadelphia, Pa. 19106; f. 1960; periodicals library of About titles; Pres. Dr. Eugene Garetelly; Vice-Pres. and Treas. Marvin Schroeder; publs. Journal, Station Reports, Science Citation Index, Social Sciences Citation Index, Permuterin Subject Index, Index. Index to Scientitic Reviews, Automatic Subject Chation Alert (ASCA), Ascatopics, Current Abstracts of Chemistry and Index Chemicus, Encyclopaedia Chimica Internationalis, Chemical Substructure Index, Index Semicus Registry System, ISP's Who is Publishing in Science, 181 Stagnetic Tapes, Scisearch, Social Scisearch,

- Automatic New Structure Alert (ANSA) and Current Contents in the following editions: Agriculture, Biology and Environmental Sciences; Social and Behavioral Sciences: Physical and Chemical Sciences: Engineering, Technology and Applied Sciences; Life Sciences; Clinical
- National Federation of Abstracting and Indexing Services: University City Science Center, 3401 Market St., Philadelphia, Pa. 19104; f. 1058; 30-40 mems.; Pres. Russial J. Rowlett, Jr.; Exec. Dir. Toni Carro Bearman; publs. NEAIS Newsletter, Report Series, State-of-the-Art Publications.

ECONOMICS, LAW AND POLITICS

- Brookings Institution: 1775 Massachusetts Ave., N.W., Washington, D.C. 20036; f. 1927; 120 professional mems.; library of 50,000 vols.; research, education, and publishing in the fields of economics, government, and foreign policy; Pres. BRUCE K. MACLAURY; publs. Brookings Bulletin (quarterly). Brookings Papers on Economic Activity (3 a year), Reprint Series (irregular).
- Center for the Study of Democratic Institutions: Box 4068, Santa Barbara, Calif. 93103; f. 1959; 85,000 mems.; Chair. Morris L. Levinson; Pres. Robert M. Hutchins; Sec. and Treas. Peter Tagger; publs. The Center Magazine, World Issues (every 2 months).
- International Research Institute: American Institutes for Research, 3301 New Mexico Ave., N.W., Washington, D.C. 20016; f. 1046; research on human resources in developing countries, role of attitudes and values in

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PAUL SPRCTOR.

- Marketing Science Institute: 14 Story St., Cambridge, Mass., 0213S; f. 1002 to contribute to improved marketing performance by developing objective, factual information about marketing practices and their effects by devising and testing new methods for analysing these facts, and by appraising social and economic issues related to marketing; Pres. Thomas B. McCang, Jr.; Exec. Dir. Strephen A. Greyster.
- National Bureau of Economic Research: 261 Madison Ave., New York, N.Y. 10010; f. 1020; 50 Dirs.; Pres. MARTIN S. FELDSTEIN; Vice-Pres. Victor R. Fuchs; Exec. Sec. Douglas H. Eldridge; publs. Annals of Economic and Social Measurement (quarterly), Explorations in Economic Research (quarterly), etc.
- Scripps Foundation for Research in Population Problems and Gerontology Center: Miami University, 218 Harrison Hall, Oxford, Ohio 45056; f. 1922; 8 mems.; library of 4,000 vols.; Dir. Robert C. Atchery.

EDUCATION

- American Educational Research Association: 1126 16th St., N.W., Washington, D.C. 20036; f. 1915; 13,000 mems.; Exec. Officer William J. Russell; publs. American Educational Research Journal, Review of Educational Research, Educational Researcher, Review of Research in Education, Journal of Educational Statistics.
- Educational Research Corporation: to Craigie St., Cambridge, Mass. 02138; f. 1938; Pres. J. E. Alman.

HISTORY, GEOGRAPHY AND ARCHAEOLOGY

- Center for Reformation Research: 6477 San Bonita Ave., St. Louis, Mo. 63105; f. 1957; microfilm library of original MSS, and printed materials of the 15th and 16th centuries; reference library; Exec. Dir. Robert Kolb; publs. Newsletter, Sixteenth-Century Bibliography (occasionally), Sixteenth-Century Journal (2 a year).
- Loo Baeck Instituto, Inc.: 129 East 73rd St., New York, N.Y. 10021; f. 1954; research and publication about the history of German-speaking Jews; library of 40,000 vols., archives; Pres. Dr. M. GRUENEWALD; Sec. F. GRUBEL; publs. LBI Yearbook, Bulletin (in German), LBI News, Library and Archives News.
- Mississippi Geological, Economic and Topographical Survey: P.O.B. 4915, Jackson, Mississippi 39216; f. 1850; research into the resources of the State; library of 60,000 vols.; Dir. W. H. Moore; publ. Mississippi Geological Survey Bulletin, map series.
- National Oceanographic Data Center: National Oceanic and Atmospheric Administration, Washington, D.C. 20235; f. 1961; accessioning, processing and dissemination of marine data, referrals; 113 mems.; 40,000 technical reports; Dir. Robert V. Ochinero; publs. User's Guide for NODC's Data Processing Systems, manuals, catalogues, etc.
- Paleontological Research Institution: 1259 Trumansburg Rd., Ithaca, N.Y. 14850; f. 1932; 350 mems.; library of 15,000 vols.; Dir. Dr. Katherine Palmer; publs. Bulletins of American Paleontology, Palaeontographica, Americana, etc.
- School of American Research: Box 2188, Santa Fé, New Mexico 87501; f. 1907; conducts research in archaeology; grants to three resident scholars annually; advanced seminars in anthropology; anthropological publications; extensive collections in archaeology and art; 1,000 mems.; library of 6,000 vols.; Pres. Philip L. Schultz; Dir. Dr. Douglas W. Schwartz; Vice-Pres. Jason W. Kellahin.

BIRTHEIM

- American Association for Cancer Research, Inc.: The Institute for Cancer Research, 7701 Butholme Avenue, Fox Chase, Philadelphia, Pa. 19111; f. 1907, 1,701 mems.; Pres. Dr. C. Gordon Zunrod; Sec.-Treas Dr. Freiderick S. Philips; publ. Cancer Research (monthly).
- American Federation for Clinical Research: 6900 Grove Rd., Thotofare, N. J. 08080; f. 1940; 8,700 mems.; Pres Samuel Thier, M.D.; publ. Clinical Research (5 a year).
- Association for Research in Nervous and Menfal Disease, Inc.: tooth St., at 5th Ave., New York, N.Y. 10020; f. 1020; 1,500 mems.
- Association for Research in Vision and Ophthalmology, Inc.; Montehore Hospital and Medical Center, 144 East 210th St., Bronx, N.Y. 10407; f. 1928; 2,100 mems.; Chair, LORRIN REGGS, PH.D., Sec. Treas. PACL HENKIND, M.D., PH.D.; publ. Investigative Ophthalmology and Visual Science.
- Gloveland Psychiatric Institute: 1708 Aiken Ave., Cleveland, Ohio 44100; f. 1040; library of 7,400 vols.; Supt. RAYMOND J. BALESTER, Ph.D.
- Eyo Research Institute of the Retina Foundation: 20 Stanford St., Boston, Mass. 02114; f. 1950; 150 mems.; Pres. Charles L. Schepens, M.D.; Vice-Pres. H. Mackenzie Freeman, M.D.; publs. Biennial Report, Monographs and Conferences.
- Fols Rosearch Instituto: Livermore St., Vellow Springs, Ohio 45387; f. 1020; studies in all areas of human development and additional research projects in blochemistry, genetics, psychology, psycho-physiology, neurophysiology; Dir. Frank Falkner, M.D., F.R.C.P.
- The Institute for Cancer Research: 7701 Burholme Ave., Fox Chase, Philadelphia, Pa. 19111; f. 1926; library of 20,000 vols. including 661 reference books and 492 scientific and medical journals; Pres. and Dir. ALFRED J. KNUDSON, M.D.; Sec.-Treas. F. J. McKAY; publ. Annual Scientific Report.
- The Institutes of Medical Sciences: 2340 Clay St., San Francisco, Calif. 04115; f. 1050; private research organization conducting patient-oriented research in heart disease, visual sciences, health research and neurology, Pres. F. L. A. Gerbode, M.D.
- The Jackson Laboratory: Bar Harbor, Maine 04609; f. 1929; research in mammalian genetics; 37 staff mems.; library of 17,000 books; Dir. Dr. Richmond T. Prens; publs. Annual Report; Training for Research (annually), JAX (quarterly).
- Lovelace Foundation for Medical Education and Research: 5200 Gibson Blvd., S.E., Albuquerque, New Mexico 87108; f. 1947 to aid, engage in, conduct and foster medical, surgical and scientific research and investigation; 207 mems.; library of 26,477 books and bound journals, with 481 current periodicals; Chief Exec. Officer DONALD E. KILGORE, Jr.; Dir. of Research Administration ROGER O. McClellan; publs. Annual Report, research and educational reports.
- Mayo Foundation: Rochester, Minn. 55901; f. 1919; clinical medicine, medical research and education; library of 200,000 vols. and 3,000 periodicals; Chair. S. F. Keating; Sec. R. C. Roesler; publ. Mayo Clinic Proceedings (monthly).
- The Menninger Foundation: Box 829. Topeka, Kansas 66601; f. 1925 as a non-profit centre for treatment and prevention research and professional education in psychiatry; medical library of 35,000 vols.; Pres. Roy-Menninger, M.D.; Vice-Pres. IRVING SHEFFEL; publs. TPR, Menninger Perspective, Bulletin of the Menninger Clinic.

RGHT : Approved For lease 2004/05/12 : CIA-RDP83-00156P001000060014-6 RESEARCH INSTITUTES UNITED TATES OF AMERICA

- National Institutes of Health: U.S. Department of Health, Education and Welfare, Public Health Service, Bethesda, Maryland 20014; principal agency of D.H.E.W. for biomedical research, research training, and biomedical communications; appropriations \$2,000 million; Dir. Donald S. Fredrickson, M.D.
 - National Institute of Child Health and Human Development: f. 1963; supports, fosters and co-ordinates research and training in areas of maternal health, child health and human development, focusing on the continuing process of growth and development, biological and behavioural; Dir. NORMAN KRETCH-MER, M.D., PH.D.
 - National Institute of Arthritis, Metabolism and Digestive Diseases: f. 1950; conducts and supports research into diseases comprising the most crippling afflictions, including arthritis, diabetes and other hereditary errors of metabolism, digestive diseases, endocrine gland disorders, diseases of the blood and bone; also orthopaedics, dermatology and nutrition; Dir. G. Donald Whedon, M.D.
 - National Heart, Lung and Blood Institute: f. 1048 as National Heart Institute, redesignated 1060 and 1076; performs and supports research in diseases of the heart, blood vessels, lungs (exclusive of pulmonary malignancies) and blood; Dir. ROBERT I. LEVY, M.D.
 - National Cancer Institute: f. 1937; supports broad research programmes into the causes, detection and diagnosis, and treatment of cancer; co-operates with State and local health agencies and voluntary bodies; Dir. Guy R. Newell, Jr., M.D. (acting).
 - National Institute of Allergy and Infectious Diseases:

 f. 1955; conducts and supports research in microbiology aimed at solving new problems in allergic diseases and unresolved problems in bacterial diseases, and at developing a useful body of knowledge in the viral diseases; Dir. REGIARD B. KRAUSE, M.D.
 - National Institute of Dental Research: f. 1048; research concerned with problems of dental caries and periodontal disease, with special emphasis on treatment, control and prevention; Dir. DAVID B. SCOTT, D.D.S.
 - National Institute of Neurological and Communicative Disorders and Stroke: f. 1050; conducts, fosters, and co-ordinates research on the causes, prevention, diagnosis and treatment of the neurological, sensory, and communicative disorders; Dir. Donald B. Tower, M.D., Puld.
 - National Institute of General Medical Sciences: f. 1063; supports a programme of research and training in the health sciences; Dir. RUTH L. KIRSCHSTEIN, M.O.
 - National Institute of Environmental Health Sciences: f. 1069; conducts, fosters and co-ordinates research on the biological effects of chemical, physical, and biological substances present in or introduced into the environment; Dir. David P. Rall, M.D., Ph.D.
 - National Eye Institute: 1, 1908; conducts and supports research and training relating to blinding eye diseases and visual disorders, including research and training in the special health problems and requirements of the blind; conducts and supports investigations into the basic sciences relating to the mechanisms of sight and visual functions; Dir, Carl. Kupper, M.D.
 - National Institute on Aging: f. 1074; conducts and supports biomedical, social and behavioural research and training related to the ageing process and diseases and other special problems and needs of the aged; Dir. Konery N. Buyler, M.D.
 - National Library of Medicine: (see National Libraries).

- Naval Aerospace Medical Institute: Pensacola, Florida 32508; I. 1930; training in aviation and aerospace medicine; library of 20,000 vols.; Commanding Officer Capt. H. S. Trossele.
- Pasadena Foundation for Medical Research: 90 North El Molino, Pasadena, Calif. 91101; f. 1952; oncology, cell biology, differentiated cell culture, prostatic cancer, educational and documentary films in biology; Dir.Dr. George S. Sharp; Admin. William Opel; publ. Annual Report;
- Radiation Research Society: 4720 Montgomery Lane, Bethesda, Md. 20014; f. 1052; 1,500 mems.; Pres. R. H. Schuler; Exec. Dir. R. J. Викк, Jr.; publs. Radiation Research (monthly), Newsletter (bi-monthly).
- Sloan-Kettering Institute for Cancer Research: 410 East 68th St., New York, N.Y. 10021; f. 1945; research in physical and biological sciences relating to cancer; postdoctoral research training in laboratory investigations with scientific staff; graduate instruction through Cornell University; research unit of Memorial Sloan-Kettering Cancer Center; Dir. Dr. R. A. Good; publs. Report, Progress Report.
- Society for Pediatric Research: f. 1929; Sec.-Treas. Dr. ROBERT E. GREENBERG, Dept. of Pediatrics, Charles R. Drew Postgraduate Medical School, 12012 Compton Ave., Los Angeles, Calif. 90059; publ. The Society for Pediatric Research Program and Abstracts (annually).
- Southwest Foundation for Research and Education: P.O.B. 28147, San Antonio, Tex. 78284; f. 1941; basic research in biomedical sciences; Pres. Martin Goland; Sec.-Treas. E. F. Feith; publs. Progress in Biomedical Research (quarterly), Annual Report.

NATURAL SCIENCES

General

- Battelle Memorial Institute: 505 King Ave., Columbus, Ohio 43201; f. 1925 as a non-profit, public-purpose organization to engage in research, assist education, and to develop, license and dispose of technology; conducts research and development on a contract basis for industry, Government and individuals in the physical, life and social/behavioural sciences; 6,000 staff mems.; library of more than 150,000 vols.; major laboratories in Columbus (Ohio), Richland and Seattle (Washington), Frankfurt am-Main and Geneva, offices in London, Paris, Madrid, Milan, Washington (D.C.); Pres. S. L. FAWCETT.
- Midwest Research Institute: 425 Volker Blvd., Kansas City, Mo. 64110; f. 1944; specialization in pure and applied science, industrial techniques and economic analyses; Pres. John McKelvey; Sec. Martin N. Schuler; publs. Annual Report, MRI Quarterly.
- New England Institute: oo Grove St., P.O.B. 308, Ridgeheld, Conn. 00877; f. 1054; interdisciplinary research and education in natural sciences, medicine, physics, environmental studies, social sciences, etc.; library of 5,000 vols.; Chair, of Board John H. Heller; Pres. EMILE G. BUZNAKOY; See, ROMERT T. TATE, Jr.
- Rand Corporation, The: 1700 Main St., Santa Monica, Calif. 90 p05; I. 1048; br. in Washington, research on matters affecting the public interest urban development, health, housing, energy, military strategy, etc.; funds from the Air Force, government agencies and private foundations; Pres. Dr. DONALD B. RICE; Chair. J. PAUL AUSTIN; publs, research reports, quarterly and annual indexes with abstracts of all publs, bibliographies of publs, in selected subject areas.
- Southern Research Institute: 2000 Ninth Ave., South, Birmingham, Ala. 35205; f. 1941; applied research on chemotherapeutic agents and techniques, carcino-

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genesis, pollution control, instrumentation, analytical procedures, biomaterials and bioengineering, polymeric materials, iduos and fabrics, economic studies, other fields; technical library of 30,000 vols; Pres. HOWARD E. SKIPPLE, Exec. Vice Ples. R. D. Osgody, Jr.; Sec. Andrew Wyder, Jr.; 575 employees; publ. Southern Research Institute Bulletin.

Virginia Institute for Scientific Research: 106 North Court, University of Richmond, Va. 24173; f. 1040; Dir. Dr. L. Samuel, Gillespie, Jr.; Sec. Dr. Charles H. WHERLER, 111.

Biological Sciences

- Boyce Thompson Institute for Plant Research, Inc.: 1080 North Broadway, Yonkers, N.Y. 10701; f. 1024; research on plants, including biochemistry, plant physiology, plant pathology, entomology, air and water pollution, posticides; library of 33,000 vols.; Chair, Whalam T. Smith; Man. Dir. Richard H. Wellmyn; Sec. Dewayne C. Torgeson; publ. Annual Reports .
- Cold Spring Harbor Laboratory: P.O.B. 100, Cold Sprints Harbor, New York 11724; I. 1800, chartered under present title 1962; hluary of 25,000 vols.; Dir. Dr. J. D. Warson; Admin. Dir. W. R. Ubky; publs. Symposia on Quantitative Biology (annually), C.S.H. Monographs (inegular), Abstracts of Papers, Annual Reports.
- Moss Landing Marine Laboratories: P.O.B. 223, Moss Landing, Calif. 95039; f. 1966; research, education and public service in the marine sciences, Dir. Dr. Jonx II.
- Mote Marine Laboratory, Inc.: 9501 Blind Pass Rd., Sarasota, Fla. 33581; f. 1955; independent, non-profit organization with educational affiliation to Cornell University; marine research, bioacoustics, biomedical and clasmobranch biology, estuarine ecology, neuro-biology and behaviour of sharks; 21 mems.; library of 600 vols., 15,000 reprints on marine biology; Pres. WILLIAM R. MOTE; Dir. PERRY W. GILBERT; publs. Charlotte Harber Estuarine Studies; Contributions from the Mote Marine Laboratory†, Quarterly Newsletter†.
- New England Aquarium: Central Wharf, Boston, Mass. 02110; f. 1957; 12,000 mems.; library of 1,500 vols.; Pres. WILLIAM BREWSTER; Exec. Dir. John H. Presсотт; publs. Aquasphere (3 a year), Aqualog (6 a year).
- The New York Botanical Garden: Bronx, New York 10458; f. 1891; 6,400 mems.; 237 acres of gardens, plant collections and wild areas, including a National Landmark conservatory; museum building includes exhibit hall, 3.8 million specimen herbarium; library of 95,000 vols., 215,000 other items; Pres. Dr. Howard S. Irwin; publs, Garden Magazine, Economic Botany, Mycologia, Botanical Review, North American Flora, Memoirs, Brittonia, The Native Orchids of Florida, and News-
- Salk Institute for Biological Studies: P.O.B. 1809, San Diego, Calif. 92112; f. 1960; advanced biological research in cancer, neuro-endocrinology, behavioural neurobiology, developmental biology and language studies; library; Pres. Dr. Frederic de Hoffmann; Founding Dir. Dr. Jonas E. Salk.
- Society for Experimental Biology and Medicine: 630 West 168th St., New York, N.Y. 10032; f. 1903; 3,500 mems., 3,500 subscribers; Sec. and Man. Editor M. R. NOCENTI; publ. Proceedings (11 issues a year).
- World Life Research Institute: 23000 Grand Terrace Rd., Colton, Calif. 92324; f. 1959; research into marine biotoxicology, terrrestrial phytochemistry and water pollution; Dir. Bruce W. Halstead.

WORLD OF LEARNING

Worcester Foundation for Experimental Biology: \$26 Maple Ave., Shrewsbury, Mass. 01545; f. 1044; to carry court basic work in the biomedical sciences; emphase onresearch in regulatory biology, in particular on research in normal and abnormal growth and development endocrine and reproductive biology, and neurobiology Total staff of approx. 250, including 42 faculty level scientists; Pres. and Scientific Dir. Mainton B. Hoag-LAND, M.D.; Exec. Dir. and Vice-Pres. FRDERICO Welsen, м.р., гил,

Physical Sciences

- Arccibo National Radio Observatory: (see Cornell University).
- Argonne National Laboratory: 9700 South Cass Ave. Argonne, III. 60430; I. 1946; research in all phases of science and engineering relating to nuclear and nonnuclear energy, with broad programmes of fundamental research in physical, biomedical and environmental sciences; library of 150,000 vols, and 750,000 technical reports; Laboratory Dir. R. G. Sacus, publ. Report (annually).
- Arthur J. Dyer Observatory: Vanderbilt University, Nashville, Tenn.; f. 1052; specializes in research on local structure of the Milky Way, photo-electric photometry of eclipsing binaries and variable stars, external galaxies and galactic nebulae, and astronomical instrumentation; equipped with combination 60-cm, reflecting and Baker Schmidt telescope and jo-cm. Cassegrain reflecting telescope; Observatory Library contains 5,000 vols., Dir. A. M. Heiser.
- Association of Universities for Research in Astronomy, Inc.: Box 20732, Tucson, Ariz. 85726; L 1957; operates the Kitt Peak National Observatory, Arizona, the Sacramento Peak Observatory, New Mexico, and the Cerro Tololo Inter-American Observatory, Chile; library of 30,000 vols.; Pres. G. L. Lee, Jr.; Observatory Dir. Dr. L. Goldberg; Sec. C. M. Black (acting); publ. Contributions from the Kitt Peak National Observatory and the Cerro Tololo Inter-American Observatory.
- Franklin Institute Research Laboratories, The: The Franklin Institute, Benjamin Franklin Parkway at 20th St., Philadelphia, Pa. 19103; research, development and engineering in the fields of science information services, systems science, physical and life sciences and engineering; Pres. Dr. W. B. LIGETT,
- Goddard Institute for Space Studies: 2880 Broadway, New York, N.Y. 10025; astronomy, astrophysics, meteorology, planetary atmospheres; library of 45,000 vols.; Dir. Dr. Robert Jastrow.
- Hale Observatories: see Carnegie Institution of Washing-
- High Altitude Observatory: P.O.B. 3000, Boulder, Colo.; f. 1947; a Laboratory of the National Center for Atmospheric Research; 59 mems.; Dir. Gordon A. Newkirk, Jr.; publs. scientific articles.
- Institute of Polar Studies: Ohio State University, Columbus, Ohio 43210; f. 1960; geology, glaciology, atmospheric sciences, pedology, history; 35 mems.; library of 7,000 vols.; Dir. D. H. Elliot; publ. Report† (irregular).
- Lick Observatory: Mount Hamilton, California; attached to the University of California, Santa Cruz Campus; f. 1888; Dir. D. E. OSTERBROCK, PH.D.
- Lowell Observatory: Box 1269, Flagstaff, Ariz. 86002; f. 1804; library of 12,000 vols.; 25 staff; Dir. A. A. HOAG; publ. Bulletin.
- Lunar Science Institute: 3303 NASA Rd. 1, Houston, Texas 77058; f. 1968 to promote and support research in lunar and planetary studies; library of 6,500 vols., 125

periodicals; bibliography of lunar literature; photomap library containing all extra-terrestrial lunar photography and lunar cartography; Dir. T. R. McGetchis; publ. Lunar Science Information Bulletin.

- Maria Mitchell Observatory: The Nantucket Maria Mitchell Asson., Vestal St., Nantucket, Mass. 02554; f. 1902; research, research training, public lectures and viewings; library of 3,000 vols.; Dir. Dr. DORRIT HOFFLEIT; publ. Annual Report;
- National Center for Atmospheric Research (NCAR): P.O.B. 3000, Boulder, Colo. 80307; f. 1060; sponsored by National Science Foundation; operated by the University Corporation for Atmospheric Research; research in weather prediction, climatic trends, solar processes, convective storms, and atmosphere air quality; 650 staff mems.; library of 53,000 items, 600 journals received regularly; Exec. Dir. J. W. Etror; Dir. F. P. Bretherton; publs. Atmospheric Technology (2 a year), NCAR Newsletter (monthly), Annual Report, NCAR Technical Notes (irregularly).
- National Radio Astronomy Observatory: P.O.B. 2, Green Bank, West Virginia, and Edgemont Rd., Charlottesville, Virginia, and Suite 100, 2010 North Forbes Blvd., Tucson, Ariz., and P.O.B. O, Socorro, New Mexico; f. 1956; research in radio astronomy, using a variety of radio telescopes which include a 300-ft, transit radio telescope, a 1-40-ft. equatorial radio telescope, a 4-element interferometer and a 36-ft. millimetre-wave radio telescope; the 27-element Very Large Array is under construction near Socorro, New Mexico; operated by Associated Universities, Inc., under contract with the National Science Foundation of Washington, D.C.; 329 employees, of which 83 are scientists and engineers; library of 18,000 vols.; Dir. D. S. Heeschen.
- Rare-Earth Information Center (RIC): Energy and Mineral Resources Research Institute, Iowa State University, Ames, Iowa 50011; f. 1966; emphasis on metallurgy and solid state physics; 20,000 vols., including reports, conference proceedings and journals; Dir. Karl A. Gschneidner, Jr.; publs. Rare-Earth Information Center News† (quarterly), occasional bibliographies†, compilations†, and critical reviews.
- Sacramento Peak Observatory: Sunspot, New Mexico 88349; f. 1052; conducts solar research; 50 employees, including to astrophysicists; library of 4,500 vols.; Dir R. B. Dunn; publs, research papers.
- 8mith Observatory: Hobart and William Smith Colleges, Geneva, N.Y. 14456.
- 8mlthsonian Astrophysical Observatory: 60 Garden St., Cambridge, Mass. 02138; administered by the Smithsonian Institution (see under Learned Societies); mem. of the Center for Astrophysics; research in radio astronomy, theoretical astrophysics, planetary and Innar science, atomic and molecular physics, geoastronomy, high-energy astrophysics, optical and infra-red astronomy, solar and stellar physics; Dir. G. B. Field, Ph.D.
- Sproul Observatory: Swarthmore, Pa. 19081; f. 1911;
 attached to Swarthmore College; 61-cm. Long Focus
 Refractor; astrometric research; library of 6,000 vols.;
 Dir. Sarah Luk Liepincott; publs. Sproul Observatory Reprints† (irregular).
- United States Naval Observatory: 34th and Massachusetts Ave., N.W., Washington, D.C. 20300; f. 1830; positional astronomy, astrometry, precise time measurement; library of 65,000 vols.; Superintendent Capt. Joseph C. Smeri; Scientific Dir. Dr. K. A. Strand; publs. American Ephemeris and Nautical Almanac, Nautical Almanac, Air Almanac, Astronomical Phenomena, NavObs Circulars, Astronomical Papers, Time Service Bulletins.

- Warner and Swasey Observatory: 1975 Taylor Rd., East Cleveland, Ohio 44,712; f. 1920; astronomical research and education (observational facility of the department of astronomy at Case Western Reserve University); library of 15,000 vols.; Dir. Peter Pesch.
- Woods Hole Oceanographic Institution: Woods Hole, Mass. 02543; f. 1930; research in physical, chemical and biological oceanography, marine geology and marine geophysics, acoustics and ocean engineering; conducts joint PILD. programme with Massachusetts Inst. of Technology, postdoctoral fellowship programme; joint library with Marine Biological Laboratory of 150,000 vols. and 4,500 periodical titles; Pres. PAUL M. FYE; Dir. John H. Steele; publs. Collected Reprints (annually), Oceanus (quarterly), Woods Hole Notes (bi-monthly).
- Yale Observatory: Yale University, Box 2023, Yale Station, New Haven, Conn. 06520.
- Yerkes Observatory: Williams Bay, Wis. 53191; Department of Astronomy and Astrophysics of the Univ. of Chicago; f. 1897; Dir. Dr. L. M. Hones.

PHILOSOPHY AND PSYCHOLOGY

- American Society for Psychical Research, Inc.: 5 West 73rd St., New York, N.Y. 10023; f. 1885; 2.600 mems.; library of 6,500 vols.; Chester Carlson Research Fellow Dr. Karlis Osis; Exec. Sec. Laura F. Knipe; publs. Journal, Newsletter (quarterly).
- Enstern Pennsylvania Psychiatric Institute: Henry Ave. and Abbotsford Rd., Philadelphia, Pa. 19129; f. 1956; library of 27,800 vols. relating to the behavioural sciences; Dir. Charles Shagass, M.D. (acting).
- Institute for Philosophical Research: 201 East Erie St., Chicago, Ill. 00611; f. 1952; for the study of philosophy from ancient Greek times to the present day; library of 10,000 vols.; Pres. and Dir. Mortimer J. Adler; Sec.-Treas. Therees Panek; publ. Concepts in Western Thought.

RELIGION, SOCIOLOGY AND ANTHROPOLOGY

- American Institute for Research in the Behavioral Sciences: 135 North Belleneld Ave., Pittsburgh, Pa. 15213; f. 1946; Dir. Dr. Melvin II. Rudov; Pres. and Chief Exec. Officer Dr. S. Rains Wallace; Sec. Dr. Frederick B. Davis; publs. Behavioral Sciences Newsletter (fortnightly), Creative Talent Awards (annual monograph). Office in Palo Alto. 1701 Arastradero Rd.; Dir. and Chair. Dr. John C. Flanagan.
 - Office in Bangkok, Thailand; P.O.B. 11-45; Dir. Di., PAUL A. SCHWARZ.
 - Offices in Maryland: 10605 Concord St., Kensington, Md.; Dir. Dr. Preston S. Addott; and 8555 10th St., Silver Spring, Md.; Dir. Dr. Edwin A. Fleishman.
- American Schools of Oriental Research: 126 Inman St., Cambridge, Mass. 02130; f. 1000; approx. 2,000 mems.; Pres. Put v. J. Kinn; support activities of independent archaeological institutions abroad; The Albright Institute of Archeological Research, Jerusalem, Israel and the American Centre of Oriental Research in Amman, Jordan; publs. *Fiblical Archaeologist* (quarterly), Bulletin (quarterly), Journal of Cunciform Studies (quarterly), The Annual.
- Contor for Advanced Study in the Behavioral Sciences: 202 Junipero Seria Blyd., Stanford, Calif. 94305; f. 1954. Dir. Dr. Gardner Lindzey.
- Middle American Research Institute: Tulane University, New Orleans, Louisiana 70(18; L 1024; for research, education, and publications related to Mexico and Central America; supports publication, archaeological

excavation and research in humanities and social sciences; small museum gallery; anthropological collections; Dir. E. WYLLYS ANDREWS V.

Middle East Institute: 1761 N St., N.W., Washington, D.C. 20030; f. 1046; to develop and maintain facilities for research, publication and dissemination of information, with a view to developing in the United States a more thorough understanding of the countries of the Middle East; holds an annual conference on Middle East attairs; 1,000 mems.; Pres. Hou, L. Dran Brown; publ. Middle East Journal (quarterly).

Social Science Research Council: 605 Third Ave., New York, N.Y. 10010; f. 1023; Pres. ELEANOR B. SHELDON; publ. Social Science Research Council Items (quarterly).

Wenner-Gron Foundation for Anthropological Research, Inc. (formerly The Viking Fund, Inc.): 14 East 71st St., New York, N.Y. 10021; inc. 1941; promotes and supports research in anthropology and related sciences; Dir. of Research LITA OSMUNDSKN.

TECHNOLOGY

Brookhavon National Laboratory: Upton, Long Island, N.Y. 11073: f. 1047; basic and applied research by staff and visiting scientists in the fields of particle accelerators, physics, medicine, biology, chemistry, applied sciences, mathematics, energy and the environment, including the design, development, acquisition and operation of large-scale facilities too costly or complex for an individual university; training of scientists and engineers; dissemination of scientific and technical knowledge; library of 100,000 vols.; Dir. Dr. George H. Vineyard.

Building Research Advisory Board: 2101 Constitution Ave., N.W., Washington, D.C. 20418; f. 1949 as a unit of the Nat. Academy of Sciences--Nat. Research Council, undertakes activities concerned with the development and application of technology to serve society's needs for housing, building and related community and environmental design and development.

Combustion Institute: 986 Union Trust Building, Pittsburgh, Pa. 15219; f. 1954; 2,500 mems.; Pres. R. S. Levinf: Exec. Sec. Marge C. Salamony; publs. Combustion and Flame (In-monthly), Proceedings of Symposium (International) on Combustion (biennially).

Herty Foundation: P.O.B. 1963, Savannah, Ga. 31402; 1. 1938; research and development of all fibrous materials, particularly forest and agricultural products and synthetic fibres; Dir. W. L. Belvin.

Industrial Research Institute, Inc.: 100 Park Ave., New York, N.Y. 10017; f. 1038; 240 mem. companies; Exec. Dir. Charles F. Larson; publ. Research Management (bi-monthly).

Institute of Textile Technology: P.O.B. 391, Charlottesville, Va. 22902; f. 1944; research, graduate education and information programmes for the textile industry; library of 50,000 vols.; Pres. C. G. Tewksbury; Dean R. A. Barnhardt; publ. Textile Technology Digest† (monthly).

National Aeronautics and Space Administration—NASA: 27 official addresses, of which the main research centres are:

Mational Aeronautics and Space Administration, Lyndon B. Johnson Space Center: Houston, Texas 77058; f. 1901; the Johnson Space Center is responsible for the design, development and testing of manned spacecraft and associated systems, for the selection and training of astronauts and for the operation of manned space flights; Johnson Space Center Technical Library of 49,000 vols., 550,000 technical reports, 600 periodicals; Dir. C. C. Kraft, Jr.; Dir. of Engineering and Development M. A. Fager; Dir. of Data Systems and Analysis H. W. Tindall;

Dir. of Space and Life Sciences Richard S. Johnston; Dir. of Flight Operations Grorge W. S. Addiv.; Dir. of Administration and Program Support P. H. Whitmeck; Dir. of Center Operations J. V. Piland; Dir. of Safety, Reliability and Quality Assurance M. L. Raines; Man. Program Operations Office Donald D. Araman; attached laboratories

Earth Resources Laboratory: The Mississippi Test Facility, Bay St. Louis, Miss.; f. 1070; responsible for conducting investigations in the Mississippi-Lousiana-Gulf area in the application of remotely sensed data.

White Sands Test Facility: Las Cruces, New Mexico; f. 1905; conducts developmental and operational tests of spacecraft engines and associated propulsion systems, conducts tests in such areas as materials technology, contamination control, precision cleaning, conducts environmental evaluations of special components and systems, coordinates NASA test projects on White Sands Missile Range.

Goddard Space Flight Contor: Greenbelt, Md. 20771; f. 1959; space research; 3,800 mems.; library of 45,000 vols., 35,000 periodicals; Dir. Dr. John F. CLARK.

Ames Research Center: National Aeronauties and Space Administration, Moffett Field, Calif. 94035; Dir. Dr. Hans M. Mark.

John F. Kennedy Space Center: National Aeronautics and Space Administration, Fla. 32890; f. 1004; previously Launch Operations Center; space vehicle launch facility; library of 30,000 vols., 115,000 documents and reports, 600 periodicals; 180,000 specifications and standards; Dir. Lee R. Scherer.

Langley Research Conter: National Aeronautics and Space Administration, Hampton, Va. 23665; Dir. D. P. Hearth.

Lewis Research Center: National Aeronautics and Space Administration, 21000 Brookpark Road, Cleveland, Ohio 44135; Dir. B. T. LUNDIN.

George C. Marshall Space Flight Center: National Aeronauties and Space Administration, Alabama 35812; f. 1960; Dir. Dr. W. R. Lucas,

National Bureau of Standards, The: Washington, D.C. 20234; f. 1901 by Act of Congress to provide assistance to industry, Government and educational institutes; Dir. Dr. Ernest Ambler (acting); publs. Dimensions (monthly), Journal of Research of the National Bureau of Standards.

Organized into five sub-divisions:

Institute for Basic Standards: to provide the central basis for a complete system of physical measurement; co-ordinates that system with measurement systems of other nations; furnishes essential services leading to accurate and uniform physical measurements in science, industry and commerce.

Institute for Materials Research: conducts materials research; produces standard reference materials; advisory and research services to other Covernment agencies.

Institute for Applied Technology: technical services to facilitate technological innovation in industry and Government; advisory and research services.

Institute for Computer Sciences and Technology: promotes development of standards for ADP equipment, techniques and computer languages; provides technical assistance and consultation for the use of computers in the Federal Government.

Office for Information Programs: provides information services and disseminates the scientific and technical data generated by the Bureau; co-ordinates the National Standard Reference Data System; produces and distributes NBS publications.

- 8tanford Research Institute: 333 Ravenswood Avenue,
 Menlo Park, California 94025; f. 1946; centre for
 diversified research into industry and pure and applied
 science; over 3,000 staff mems, and over 10,000 completed projects; brs. in Washington, D.C., Huntsville,
 Ala., New York, Chicago, Houston, Los Angeles;
 overseas offices in London, Stockholm, Zurich, Tokyo;
 reps. in Paris, Milan, Madrid, Teheran, São Paulo; Pres.
 Charles A. Anderson; Exec. Vice-Pres. Weldon B.
 Gibson; publ. Investments in Tomorrow† (quarterly).
- System Development Corporation: 2500 Colorado Ave., Santa Monica, Calif. 90406; f. 1957; design and development of information systems; library of 100,000 vols.; Pres. Dr. George E. Mueller.
- Textile Research Institute: Princeton, N.J. 08540; f. 1930; basic-research and graduate education in the physical and engineering sciences relating to fibrous materials; 80 corporate mems, 100 individual mems.; library of 5,000 vols.; Pres. L. Rebenfeld; publs. Notes on Research, Textile Research Journal.

LIBRARIES

There are many thousands of libraries in the United States, ranging from the small town library of a few hundred volumes to the library in the large city where the number may be reckoned in millions. As limitation of space makes it impossible to list all these, we give a selection classified as follows:

National Libraries.
Government Libraries,
Public Libraries (over 500,000 vols.).

Special Libraries. State Libraries (over 400,000 vols.) University Libraries.

NATIONAL LIBRARIES

Library of Congress, The: Washington, D.C. 20540; f. 1800; contains over 73 million items, including 18,240,295 books and pamphlets; the operations, activities and personnel of the library are divided into seven departments—Administrative, Reader Services, Research, Congressional Research Service, Processing, Law Library and Copyright Office.

Librarian: Dr. Daniel, J. Boorstin.

Collections include:

Books for the blind and physically handicapped: 13,000 books in braille, on recorded discs, and on tapes, available in more than 150 co-operating regional and sub-regional libraries in the United States and its territories.

Cartography: 3.583,762 maps, atlases, globes, etc.

Law: over 1.7 million items, including material on American, British, Hispanic, European, Far Eastern, Near Eastern and African Law.

Manuscripts: 32,577,446 manuscripts relating to American history and civilization, including the papers of American Presidents from George Washington to Calvin Coolidge, other statesmen and diplomats, and men and women of letters

Microform: 2,808,203 microforms.

Music: 3,630,673 items of music and music literature; 676,266 sound recordings on discs, tapes, and wires.

Orientalia: more than 1.3 million vols. (473,030 in Chinese and Korean, 100,888 in Hebrew, 500,012 in Japanese, 101,523 from Near East, and 133,600 from Southern Asia).

Prints and Photographs: 247,407 motion pictures and 8,401,080 photographs, among them early dagnerreotypes. Mathew Brady photographs, and the work of contemporary photographers.

Race Rooks: over 350,000 items, including the largest collection of incumabula in the Western Hemisphere.

Periodicals: includes newspapers, Government Publications and other serial publications.

The Library's priority remains service to the Congress of the United States, but it now performs, in its role as the national library, services to other libraries which include: development of scientific schemes of classification (Library of Congress and Dewey Decimal), subject headings, and cataloguing embracing the whole field of printed matter; a centralized acquisition and cataloguing programme in which publications are acquired worldwide and cataloguing data distributed to other libraries by means of printed cards, machine-readable tapes,

and printed book catalogues; editing for publication a National Union Catalogue, Pre-1956 Imprints, which will have 11 million entries for significant holdings of major American libraries; publication of the National Union Catalogue, a record of acquisitions by American libraries since 1956; an inter-library loan system; the exchange of duplicates with other libraries; and the provision of advice on technical matters relating to the preservation and restoration of library collections.

Services to the public include: registration of creative work for copyright; use of 2 general and 13 special reading rooms; reference and bibliographic services; research and referral services in science and technology; photoduplication for a fee of items in the collections not subject to copyright or other restrictions; chamber music concerts and literary programmes; lectures and symposia, such as the series in observance of the Bicentennial of American Independence; publication of guides, catalogues, proceedings, facsimiles of rare items in the collections, etc.; sale of recordings of poetry and folk nuisic; exhibits in Library buildings; guided tours. Publs. Library of Congress Publications in Print (annual), Calendar of Events (monthly), Information for Readers, Special Facilities for Research (available upon request).

National Agricultural Library; U.S. Dept. of Agriculture, Beltsville, Md. 20705; 1,500,000 vols.; agriculture and the related sciences; especially collection of botany, zoology, chemistry, veterinary medicine, forestry, plant pathology, general agriculture; Dir. RICHARD A. FARLIEV.

National Archives and Records Service: National Archives Bldg., Pennsylvania Ave., Washington, D.C. 20408; the National Archives, created as an independent agency in 1031, was transferred in 1040 to the newly established General Services Administration, in which it became the National Archives and Records Service; it now consists of the Office of the National Archives, the Office of the Exec. Dir., the Office of Records Management, the Office of Educational Programs, the Office of Federal Records Centers, the Office of the Federal Register, and the Office of Presidential Libraries, all headed by the Archivist of the United States, NARS administers a Federal archive system of 23 institutions, including 45 national records centers and 7 Presidential libraries. It selects, preserves and administers Federal Records of enduring value and prescribes standards and methods for the efficient management of current records of the Federal Govern-

RESEARCH INSTITUTES

(see also under Universities)

British Will Later GENERAL

- Alberta Research Council: 11315 87th Ave., Edmonton, Alberta ToG 2C2; f. 1921; scientific and technological research with the aim of assisting and developing industry in the province of Alberta; library of 7,000 vols., 12,000 reports, 400 periodicals, geological maps; Dir. of Research Dr. E. J. Wiggins.
- British Columbia Research Council: 3650 Wesbrook Mall, Vancouver, B.C. VoS 2L2; f. 1044; independent, non-profit organization; technical service and research in all branches of industry, ecology, economics, biology, etc.; library of 9,518 vols., 400 periodicals and 15,000 separates; Dir. P. C. TRUSSELL; publs. Annual Report, Guidelines to Industrial Progress, Productivity Caselines .
- Rova Scotia Research Foundation Corporation: 100 Fenwick St., P.O.B. 790, Dartmouth, Nova Scotia B2Y 3Z7; f. 1947; 95 mems.; library of 11,000 vols.; assists economic development of Nova Scotia by promoting effective use of science and technology by government and industry; undertakes research and development to that end; Pres. Dr. J. E. Blanchard; Sec. Treas. T. B. Nickerson; publ. Annual Report.
- Ontario Research Foundation: Sheridan Park, Mississauga, Out. L5K (B3; 1, 1928; Chair, H. M. GRIFFITH; Pres. W. R. STADELMAN; Sec. J. N. MATTHEWS; library of 21,000 vols.; publs. Annual Report, Newsletter (monthly).
- Saskatoon, Sask. S7N oXv; f. to47 to advance the development of the Province through research in chemistry, engineering, geology, physics, industrial services and management consulting; c. 150 staff; library (Saskatchewan Information Retrieval Centre) of 9,000 vols, and 400 periodicals; Exec. Dir. Dr. Tom PEPPER.

Аскісицтики

Canadian Forestry Service: Ottawa, Out. K1A oll3; f. 1800; three main areas of activity: forest resource research and services (development and improvement of techniques for managing, protecting and harvesting the forests); forest products research and services (developing improved wood products and processing technology); support of university research; budget of approx. \$35 million; 1,400 personnel; Dir.-Gen. Dr. R. J. Rouncenten; publs. Canadian Forestry Service-Bi-Monthly Research Notes, Research News (bi-monthly), reports, departmental publs., etc.

Research establishments:

- Pacific Forest Research Centre: 506 West Burnside Rd., Victoria, B.C.; Dir. M. H. DRINKWATER,
- Northern Forest Research Centre: 5320 122nd St., Edmonton 70, Alberta; Dir. Dr. G. T. Sulvice.
- Great Lakes Forest Research Contro: Box 400, 1180 Queen St., E. Sault Ste. Marie, Out.; Dir. J. H. CAY-
- Raurentian Forest Research Centre: Pox 3800, 1080 Route du Vallon, Ste. Foy, P.Q.; Dir. Dr. J. S. MAINI.
- Maillimes Forest Research Centre: Box 1000, College Hill, Fredericton, N.B.; Dir. Dr. R. M. BELYRA.
- Mewfoundland Forest Research Centre: Box 5430, 191dg, 304, Pleasantville, St. John's, Newfoundland; Dir. Dr. R. J. CARROLL.
- Verest Fire Research Institute: Nicel Bldg., 331 Cooper St., Ottawa; Dir. D. E. WHIJIAMS.

- Eastern Forest Products Laboratory: Montreal Rd., Ottawa; Dir. (vacant).
- Forest Management Institute: Majestic Bldg., 396 Cooper St., Ottawa; Dir. Dr. L. SAYN-WITTGENSTEIN.
- Forest Pest Management Institute: 1219 Queen St. East, Sault Ste. Marie, Out.; Dir. Dr. G. W. GREEN.
- Western Forest Products Laboratory: 6620 N.W. Marine Drive, Vancouver 8, B.C.; Dir. Dr. R. W. KENNEDY.
- Petawawa Forest Experiment Station: Chalk River, Ont.; Dir. R. F. ACKERMAN.

MISTORY, GEOGRAPHY AND ARCHAEOLOGY

Interuniversity Centre for European Studies: 1193 Phillips Square, Pavillon Philippe 8250, C.P. 8888, Montreal H₃C ₃P8; f. 1972 to promote contact between those working on European subjects in an historical framework, to augment the scholarly and teaching resources available to them, and to encourage individual and group research; 500 mems.; documentation centre of c. 20 periodicals and 20 bulletins, etc.; Dir. Prof. CHARLES L. BERTRAND; publ. Newsletter† (2 a month during academic year).

MEDICINE

- Canadian Dental Research Foundation: 1815 Alta Vista Drive, Ottawa, Ont. K1G 3Yo; f. 1920; Sec. Dr. W. G.
- Medical Research Council: Ottawa, KtA oW9; f. 1960; function is to promote, assist and undertake basic, applied and clinical research in Canada in the health sciences; Pres. (vacant); Sec. Miss D. J. Wright; publs. MRC Newsletter† (quarterly), Report of the President† (annually), MRC: Grants and Awards Guidet (annually).
- National Cancer Institute of Canada: 77 Bloor St. West, Suite 401, Toronto, Ont. M5S 2V7; Pres. Dr. L. G. ISRAEIS; Exec. Dir. Dr. R. A. McBeth..
- Ontario Cancer Treatment and Research Foundation: 7 Overlea Blvd., Toronto M4H 1A8; f. 1043; treatment, diagnosis and research in cancer; Chair, J. R. H. KIRKPATRICK, D.S.C.; Medical Dir, K. J. R. WIGHTMAN, M.D., F.R.C.P.(C)., F.A.C.P.; Sec.-Treas. J. H. BROUGHTON, n.com., c.A.; publs. Cancer in Ontariot, Proceedings of the Clinical Conferencest.

NATURAL SCIENCES

General

- Arctic Institute of North America: University Library Tower, 2020 24th Ave., N.W., Calgary, Alberta T2N 1N4; f. 1045; multi-disciplinary research on physical, biological and social sciences; 300 fellows, 1,500 mems.; clibrary of 30,000 vols.; Exce Dir. Dr. JOHN S. TENER; publs. Special publications, Technical publications, Arctict (quarterly).
- International Development Research Centre: P.O.B. 8500, Ottawa, Ont., KrG 3Ho; f. 1970 by Act of the Canadian Parliament; to support and conduct research in the developing regions of the world in the fields of agriculture, food and nutrition sciences; information sciences; population and health sciences; social sciences and human resources; Pres. Dt. W. David Hopfer; Sec. James C. Perifer; publs, annual report, IDRC Reports (quarterly).

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WORLD OF LEARNING

National Research Council of Canada: Ottawa KtA oRo; f. 1016; laboratory divisions of biosciences, building research, chemistry, Herzberg Inst. of Astrophysics, mechanical engineering, National Aeronautical Estabmechanical engineering, National Aeronautical Establishment, physics, electrical engineering; Prainic Regional Laboratory, Saskatoon and Atlantic Regional Laboratory, Halifax; Pres. W. G. Schikhider, M.Sc., Ph.D., D.Sc., LL.D., F.R.S.C., F.R.S.; publs. Canadian Journals of Biochemistry, of Bolany, of Chemistry, of Civil Engineering, of Earth Sciences, of Geotechnology, of Microbiology, of Physics, of Physiology and Pharmacology of Zoology, Exerct Research, Annual Report. cology, of Zoology, Forest Research, Annual Report, NRC Science Dimension (bi-monthly), brochures.

Biological Sciences

Huntsman Marine Laboratory: Brandy Cove, St. Andrews, N.B.; f. 1000 with the co-operation of universities, two Int. Foundations, Fisheries Research Board of Canada and the Province of New Brunswick Dept. of Fisheries; research and teaching in marine sciences; Pres. Dr. J. M. Anderson; Exec. Dir. Dr. W. B. Scort.

Physical Sciences

- Algonquin Radio Observatory: Lake Traverse, Out.; operated by the National Research Council; includes 150 ft.-diameter radiotelescope completed in 1966.
- Astronomical Observatory: Quebec: f. 1854, reorganized 1941; operated by the Quebec Centre of the Royal Astronomical Society of Canada, with the co-operation of the Provincial Govt.; Dir. Yvon Dufour.
- Atmospheric Environment Service: 4905 Dufferin St., Downsview, Ont. M3H 5T4: f. 1830; a service of the Federal Dept. of Fisheries and Environment; Canadian Meteorological Centre at Montreal; offices at Vancouver, Whitehorse, Edmonton, Regina, Winnipeg, Toronto, Montreal, Halifax and Gander; 60 civil Weather Offices and an Ice Forecast Central; Asst. Deputy Minister Dr. W. L. Godson; Dir. Gen. Central Services M. K. THOMAS; Dir. Gen. Field Services L. T. CAMP-BELL; Dir.-Gen. Atmospheric Research Dr. J. CLOD-MAN; publs. Monthly Record of Meteorological Observa-tions in Canada, Canadian Weather Review, Monthly Parlietter Canadian Canadian Weather Review, Monthly Radiation Summary, Snow-Cover Data Canada (annually), Supplementary Precipitation Data (2 a year), Meteorological Summaries (monthly and annually), Meteorological Tower Bulletin, Ozone Data for the World, Annual Record of Operations.
- Canadian 220 MHz NMR Centre: Department of Medical Genetics, University of Toronto Medical Sciences Building, Toronto, Ont. M5S (A8; f. 1970; a national centre for high field NMR spectroscopy; administered by the representatives of industry, universities and the Government; Dir. Dr. A. A. GREY.
- David Dunlap Observatory of the University of Toronto: Richmond Hill, Ont.; f. 1935; 50 mems.; library of 25,000 vols.; Dir. D. A. MACRAE.
- Dominion Astrophysical Observatory: RR7, Victoria, B.C. V8X 3X3; f. 1918; 40 mems.; 8,300 vols.; Dir. Sidney VAN DEN BUGH, A.B., M.SC., DR.RER.NAT. (ASTRON.), F.R.S.C.; Sec. D. CROWE; publs. Publications of the Dominion Astrophysical Observatory, Contributions of the Dominion Astrophysical Observatory .
- Earth Physics Branch, Department of Energy, Mines and Resources: 1 Observatory Crescent, Ottawa, Ont. K1A 0Y3; f. 1905 as Dominion Observatory, reorganized 1970; global and Canadian solid earth geo-physics; 172 staff mems.; library of 52,000 vols.; Dir.-Gen. Dr. K. Whitham; publs. Publications of the Earth Physics Branch, Contributions from the Earth Physics. Branch, Seismological, Geothermal, Gravity Map, Geodynamics, Geomagnetic series.

Geological Survey of Canada: 601 Booth St., Ottawa, Oat. K1A oE8; f. 1842; geological research and investigations throughout Canada; branch Institute of Sedimentary and Petroleum Geology in Calgary, Alberta, Centre for Research on Geology of the Western Cordillera in Vancouver and Atlantic Geoscience Centre for Research in Marine Geology and Geophysics in Dartmouth, Nova Scotia; library of 150,000 vols, and maps; Dir. Dr. D. J. McLAREN; publs. Memoirs, butletins, economic geology reports and papers, open files,

RELIGION, SOCIOLOGY AND ANTHROPOLOGY

- Humanities Research Council of Canada: 151 Slater St., Ottawa, Out. KtP 5H3; f. 1043 to promote research in the humanities and to represent the humanities community in Canada; Chair. JEAN PAPINKAU-COUTURE; Academic Dir. DAVID W. STEEDMAN; publs. Bulletin, Annual Report.
- Institute for Christian Studies: 229 College St., Toronto, Ont. MsT 1R4; f. 1007; sponsored by the Assen, for the Advancement of Christian Scholarship; interdisciplinary teaching and research; Exec. Dir. RODERT E. VANDERVENNEN.
- International Conter for Research on Bilingualism -- Contro International de recherche sur le bilinguismo: Cité Universitaire, Sainte-Foy, Quebec G1K 7P4; f. 1967; basic research on bilingualism, biculturalism, and related phenomena; Exec. Dir. J. G. SAVARD.
- Social Science Federation of Canada: 151 Stater St., Ottawa, Ont. K1P 5H3; Pres. J. DEBICKA; Dir. J. J. LOUBSER; publs. Annual Report, Social Sciences in Canada (quarterly).

TECHNOLOGY

Atomic Energy of Canada, Ltd.: 275 Slater St., Ottawa K1A DS4, Ont.; f. 1952; development of economic nuclear power systems, research in nuclear science, exploitation of radiation sources and radio isotopes, nuclear power station marketing; Pres. J. S. FOSTER.

Establishments:

- Chalk River Nuclear Laboratories: Chalk River, Out.; f. 1944; nuclear reactors (NRU, NRX, Pool Test Reactor PTR and ZED-2), tandem Van de Graaf accelerator, equipment for nuclear research and engineering development; Vice-Pres. A. J. Moora-DIAN.
- Commercial Products Division: South March, Tunney's Pasture, Ottawa, Ont.; f. 1946; Radio isotopes and radiation resources; Vice-Pres. J. M. BEDDOES.
- Power Projects Division: Sheridan Park, Ont.; f. 1958; Design, development, construction of nuclear power stations; consulting services; Vice-Pres. G. A. Pon.
- Whiteshell Nuclear Research Establishment: Pinawa, Man.; f. 1960; one nuclear reactor, equipment for nuclear research and engineering development; Vice-Pres. R. G. HART.
- Canada Centre for Inland Waters: P.O.B. 5050, Burlington, Ontario, L7R 4A6; f. 1967; one of the principal research laboratories and survey centres of the Dept. of the Environment; undertakes physical, chemical, biological and social research for the purpose of improved fresh water management; also serves as a base for the conduct of surveys into water quality and quantity, and for hydrographic charting; library of 30,000 vols.; Dir. A. R. Le Feuvre; publs, annual report and various papers.
- Institute for Acrospace Studies: 4925 Dufferin St., Downsview, Ont. M311 5T6; f. 1949; an interdisciplinary institute of the University of Toronto; research in applied and basic fields; serves industrial research and

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development needs in government and industry; facilities include one of the best-equipped laboratories in Canada; 15 academic staff; library of 68,000 vols.; Dir. Prof. J. H. DE LEEUW, PH.D.; publs. Progress Report (annually), etc.

Fulp and Paper Research Institute of Canada: 570 St. John's Hlvd., Pointe Claire, Que. H9R 3J9; f. 1925; pulp and paper research, contract research and technical services; postgraduate training programme in cooperation with McGill University; staff of over 250; library of 14,000 vols.; Pres. Dr. P. R. Gendron; Scc.

K. E. VROOM; publs. Annual Report, TREND Magazine (1-2 a year).

Research and Productivity Council: P.O.B. 6000, Fredericton, N.B. E3B 5H1; f. 1962; independent organization providing scientific, engineering, technical and management services to governments and companies in primary, manufacturing and service industries; staff of 61; library of 4,500 reference vols., 300 periodicals; Exec. Dir. Dr. Claude Bursill, M.A., M.SC., Ph.D.; publs. Records, Research Notes (both irregular), Annual Reports.

LIBRARIES AND ARCHIVES

ALBERTA

Caigary Public Library: 562,180 vols.; 13 branches; special section on petroleum; Librarian E. Les Fowlie.

City of Edmonton Archives: 10105-112th Ave., Edmonton T5G offr; f. 1971; reference library of 2,500 vols., also MSS., photographs and maps of the city; Man. Helen Larose.

dmonton Public Library: 7 Sir Winston Churchill Square, Edmonton; f. 1913; 700,000 vols., 18,000 audio-visual items; Librarian Vincent Richards.

clenbow-Alberta Institute Library and Archives: 9th Ave. and 1st St. S.E., Calgary T2G of 3; 35,000 vols., 125,000 photographs and a large collection of manuscript materials, chiefly on Western and Northern Canada; Librarian L. J. Gottselig; Archivist Miss S. S. JAMESON.

ogislaturo Library: 216 Legislaturo Bldg., Edmonton, Alberta T5K 2B6; f. 1906; parliamentary library of 100,000 vols. and documents; Librarian D. B. McDou-Gall; publs. Annual Report, Directory of Alberta Government Libraries (irregular).

roylncial Archives of Alberta: 12845 102nd Ave., Edmonton; f. 1963; collections of non-current govt. records, private papers, municipal records, photos, taped interviews and maps pertaining to the history of Alberta; special collection of Western Canadian in Historical Resources Library (10,000 vols.); circulating and recent accession exhibitions; Provincial Archivist Alan D. Ridge; publs. Information Leaflets, Publication Series.

University of Alberta Library: Edmonton; f. 1909; 1,781,763 vols.; Librarian Bruck Bradkn Preel, M.A., B.L.s.

Iniversity of Calgary Library: f. 1966; 820,000 vols.; Librarian Kenneth M. Glazier, pu.d., m.l.s.

BRITISH COLUMBIA

Fraser Valley Regional Library: Headquarters: 2469
Montrose Ave., Abbotsford, B.C. V2S 3 F2; f. 1030; 26
branches, 2 bookmobiles; 328,000 vols.; 1,300 films;
maps; music scores; pamphlets; photographs; Dir.
W. H. Overend.

Provincial Archives: Victoria; f. 1893; 50,000 vols.; Provincial Archivist Allan R. Turner.

Legislativo Library: Victoria; f. 1893; 500,000 vols.; Librarian J. G. Merchelle.

Julyersity of British Columbia Library: Vancouver VoT 1W5; f. 1912; 1,650,000 vols.; Librarian B. Stuart-Stunds, n.a., n.l.s.

Janeouver Island Regional Library: Headquarters: 10 Strickland St., Nanaimo, B.C.; f. 1936; 25 branch libraries and bookmobile service; 280,000 vols.; Librarian Fred T. White, M.A., n.L.S. Vancouver Public Library: Vancouver; f. 1887; 700,000 vols.; 180,000 pamphlets; 12 brs., one bookmobile; Librarian Morton P. Jordan.

Vancouver School of Theology Library: 6050 Chancellor Blvd., Vancouver, B.C. VoT 1X3; f. 1971; 55,000 vols.; Librarian Dr. Guenter Strothutte.

MANITOBA

Law Society of Manitoba Library: Law Courts, Winnipeg 1; f. 1877; 40,000 vols.; Librarian Mrs. Deirdre K. Harvey.

University of Manitoba Libraries: Winnipeg R3T 2N2; 1,080,000 vols.; f. 1877; collections supporting 13 faculties and 7 schools, inc. arts, science, education, engineering, agriculture, medicine, dentistry, architecture, music, law and Icelandic studies; Dir. W. ROYCE BUTLER, M.L.S., M.A.

NEW BRUNSWICK

Bibliothèque Champlain: Université de Moncton, Moncton; f. 1965; 200,000 vols.; Librarian Albert Levesque, B.A., B.BIBL., M.L.S.

Harriet Irving Library: University of New Brunswick, Fredericton; f. 1800; 700,000 vols, and 682,000 microforms; Librarian Gertrude Gunn, ph.d.

Legislative Library: Fredericton; f. 1841; 50,000 vols.; Librarian Jocephne LeBell.

R. P. Bell Library: Mount Allison University, Sackville, N.B. EoA 3Co; 240,000 vols.; Librarian Eleanor Magee, B.A., B.SC., M.L.S.

NEWFOUNDLAND

Memorial University of Newfoundland Library: St. John's; 710,000 vols., 1.3 million micro-units; Librarian Theodore D. Phillips.

Provincial Archives of Newfoundland and Labrador: Colonial Bidg., St. John's; Provincial Archivist F. BURNHAM GULL.

Nova Scotia

Acadia University Library; Wolfville; f. 1843; 310,000 vols.; Librarian Isoner, Horron, n.k., n.k.s.

Angus L. Macdonald Library: St. Francis Navier University, Antigonish; 225,000 vols.; Librarian Rev. Charles Brewer; publ. The Antigonish Review (quarterly).

Dalhousle University Library System: Halifax, N.S. B3H 4H8; f. 1868; 454,438 vols., ε. 8,000 periodicals; University Librarian Mrs. Dorotty L. Cooks.

W. K. Kellogg Health Sciences Library: Dalhousie University, Halitax; f. 1808, reorganized 1915 and 1907; 108,014 vols.; Librarian Alan H. Mac-Donald.