THE CANADIAN ENCYCLOPEDIA

VOLUME I A - For

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In addition, the Government of Alberta is providing a free set of the encyclopedia to schools and libraries across Canada and to diplomatic posts abroad.

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THE UNIVERSITY OF ALBERTA

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The co-operation provided by the university community exceeded anything the publisher could reasonably have expected and is a reflection of the University of Alberta's commitment to research, scholarship and education.

FOREWORD

Hurtig Publishers' concept of a new, comprehensive, affordable encyclopedia of modern Canada dates back to the early 1970s. Everyone we approached agreed without hesitation (especially teachers, students and librarians) on the need for and importance of such a reference work. But, despite determined effort, the seed money for the research, writing and editorial development required for such a huge undertaking could not be found. Premier Peter Lougheed and the Alberta government changed that in 1979 with a generous grant. Without their confidence and support *The Canadian Encyclopedia* would never have been published.

Almost a full year of detailed research and planning culminated with the appointment of James Marsh as editor in chief and the hiring of our editorial, research and clerical staff from across Canada. *The Canadian Encyclopedia* is the product of thousands of skilled contributors and dozens of dedicated staff. But the principal credit for its high editorial quality, after 5 years of intensive, demanding effort, must go to James Marsh. Few who were not intimately connected with the project can conceive of the immense difficulties, the unanticipated problems, the pressure, and the massive volume of work faced by our editors, researchers and support staff. I believe the encyclopedia speaks for itself, and the superb efforts of our editor in chief and his staff.

Two other colleagues must be singled out. Managing Director Frank McGuire developed the technical systems and managed the day-to-day scheduling, administration, production and planning that allowed *The Canadian Encyclopedia* to be published on time and close to budget, despite the numerous unexpected costs, pitfalls and problems that arose during the 5 years of development. Dr. Harry Gunning, past president of the University of Alberta and Chairman of our National Advisory Board, provided invaluable advice and assistance. Without the special skills of Frank McGuire and Harry Gunning, the entire project could have been in jeopardy on more than one occasion. All members of the National Advisory Board provided valuable guidance through the difficult early stages and several hundred consultants lent their expertise throughout the editorial process.

When it became clear that additional funds would be needed to maintain the high standards we had set, NOVA, AN ALBERTA CORPORATION stepped in to help with no hesitation. Dianne Hall, Senior Vice-President of NOVA, and Bob Blair, President, gave *The Canadian Encyclopedia* crucial support just when it was needed most.

From the very beginning the University of Alberta played a significant role. Dr. Myer Horowitz, President, and Vice-President Lorne Leitch, the academic staff and many others at the University provided unfailing support, co-operation, enthusiasm and encouragement.

The Canadian Commercial Bank believed in the encyclopedia whereas numerous other bankers had dismissed the project as being too risky. President Gerald McLaughlan, Greg Fraipont and Barry Hicks were instrumental in arranging the millions of dollars in loan capital required to print and bind these volumes and to pay for all the other expensive costs of production.

Special recognition and thanks are due not only Minister of Culture, Mary LeMessurier, but also to John S. O'Neill, John Patrick Gillese and others in Alberta Culture who administered the province's R & D grant.

Hurtig Publishers also greatly appreciates the co-operation and assistance of the Department of Energy, Mines and Resources in Ottawa in making available materials vital to the compilation of some 300 maps appearing throughout these volumes.

To all the thousands of contributors we extend our deepest gratitude. There is not space enough to name all of those who contributed so much without proper recognition and accolades. However, special recognition is due David Shaw and his design staff; Senior Editors Adriana Davies, Patricia Finlay, Mary McDougall Maude, James Ogilvy and Rosemary Shipton; and Rick Checkland, Lillian Wonders, Ken McVey, Patricia Fong, Huguette Labelle, Anne Scotton, Timothy Porteous, José Druker, Elizabeth Munroe, Sharon Burton, Jan Steckly, Glen C. Hyatt, and Peter Freeman.

By the time you read this, some 5000 Canadians from across our country will have been involved in producing these 3 volumes. The articles were written in every province and territory. While centred in Edmonton, editorial work was also carried out in Calgary, Ottawa, Toronto and London, Ont. Colour separations and pre-preparation work were performed in Vancouver and printing in Montréal. The cloth was produced in Cornwall, Ont; binding was done in Toronto and packaging in Oshawa, Ont.

It will have taken ten months to print, bind and package this reference set. As a result, some of the material, as in all encyclopedias, contains information that will have been changed by events. In the future, encyclopedias such as this will certainly continue to be available in book form, but not very many years from now *The Canadian Encyclopedia* should be available via electronic means as well, with immediate updates, via your television set, home computer, telephone, or perhaps video laser discs.

It is difficult to forecast the future of *The Canadian Encyclopedia*. If this edition is well received and is a financial success then a second, revised, expanded and updated edition will likely be published in 1988, and we hope at regular intervals thereafter. As this is being written, work on a second edition has already commenced.

In retrospect we can now see that the task we set out to accomplish in 1979 was immensely more difficult than we had anticipated. Perhaps, had it been somehow available, we could have spent millions of dollars more in development funds and taken several additional years for editorial preparation. However, our intent from the very beginning was to produce a first-class Canadian encyclopedia that would go on sale to the public at a low price so that all Canadian families could afford to purchase the set for their own homes. We are pleased to have achieved this goal and to have provided a valuable reference work on our country. I sincerely hope you will be happy with Canada's new national encyclopedia and that it will make an important contribution to Canadians' understanding of one another and to our pride in our country.

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MEL HURTIG

INTRODUCTION

The production of an encyclopedia is an undertaking with a long and noble tradition stretching back to ancient Greece. Though the grand "circle of knowledge," from which the word encyclopedia is derived, has expanded beyond the scope of any single enterprise, the attempt to draw together the overwhelming accumulation of human knowledge remains a worthy goal that tempts each generation. The Canadian Encyclopedia differs greatly from the last encyclopedic work on Canada, published a generation ago. It portrays a country more mature in its literature and arts, more aware of its regional and ethnic diversity, more sophisticated in its politics and foreign policy, and yet still a nation in the making, searching for new solutions to its economic, social and linguistic problems and still struggling to realize the potential of a land of unimaginable size, variety and resources. The entries in The Canadian Encyclopedia provide an intricate sketch of Canada, drawn by its finest scholars and writers, that will provide not only an invaluable reference tool and repository for information, but a portrait of its time that will continue to be interpreted by future generations.

The development of a list of articles is the central creative act in the planning of an encyclopedia. The editors sought to provide coverage of all aspects of life in Canada, of all regions, over a vast time scale from the geological formation of the most ancient rocks to the most recent political events. Because there exists no cohesive framework that would easily encompass all provinces of knowledge, the process of identifying topics and assigning them weight in relation to the boundless variety of other subjects was one of intensive planning and constant revision. The master article list continued to grow as the editors received reports from the project's 250 consultants, as new topics were uncovered in the course of editing and as events changed Canada over the 4 years of the editorial process. The lists included all major subjects that any reader would expect to find in a Canadian encyclopedia, such as populated places, the provinces and territories, leading cultural and political figures, political themes such as federalism, Canada's flora and fauna, its ethnic groups and its artistic endeavours. The final list of over 8000 entries also includes numerous topics of particular Canadian character, such as the voyageur, birchbark canoe, ice hockey, Northwest Coast Indian art and Inuit sculpture, as well as many unusual subjects that illuminate lesser-known aspects of Canada, such as ice worms, duels, birchbark biting, cemeteries, La Corriveau and Zouaves. Entries on a representative sample of Canadian literary works, such as The Apprenticeship of Duddy Kravitz and Kamouraska, are provided in hope that they will introduce readers to good Canadian books. Some 3500 biographies were chosen to provide information on people from all periods, regions and subject areas, while emphasizing those who, including contemporary Canadians, have made lasting contributions to (or impressions on) Canadian society. Based on advice from consultants, criteria for inclusion varied according to what was appropriate to the area under consideration. For instance, in the case of contemporary painters, limited space required that an age criterion be imposed. In all areas the biographies are representative of a far greater number worthy of study. Some emphasis has been placed on including the innovators rather than the facilitators. An effort has been made to include the results of current research, for example, in native and women's studies. In all subject areas, contributors were asked to stress the Canadian aspect of their subject. In discussing fields of study, such as anthropology, economics or physics, some background information was required to explain Canadian research and accomplishment, though limitations of space prevented extensive treatment of material more appropriate to general reference works or textbooks.

The editors decided early in the planning that the encyclopedia would be written by specialists who were best able to explain the finer points of their subjects and could impart to the encyclopedia the distinctive quality of representing the country as a whole. This approach places great demands on editors to mold the writing of thousands of contributors into a coherent reference work, but it rewards the reader with expert writing, a broad scope and sparks of individuality. We were very fortunate in attracting some 2500 authorities from all major Canadian universities, federal and provincial public services, scientific institutions, museums, galleries, newspapers, magazines and private industry, as well as numerous free lances. Many of these contributors did original research on subjects as diverse as snowshoeing and Sikhism. Many entries, such as those on theatre, sculpture, printmaking, the print industry, philosophy and cartography, are the first reliable syntheses of their subject in

All articles were evaluated by consultants and expert readers to ensure that controversial issues were treated fairly, that interpretations were based on sound research and that different views of important questions had been explained. The signed entries of the encyclopedia reflect the diversity of the people who have created it. The readers, editors and researchers endeavoured to check every statement for accuracy, to ensure reasonable conformity to the compact style of a reference work, and to make every entry as readable and as current as possible. To ensure that the encyclopedia remained a manageable size and met the guidelines for length (established to keep the price of the encyclopedia low enough to encourage the widest possible distribution among Canadians), the entries had to be concise, and submissions that dealt less specifically with Canada or that duplicated material covered elsewhere had to be dropped. The 3.2 million words published in the encyclopedia were distilled from over 10 million words submitted to the editors, who were grateful for the advancements in computer technology that helped keep track of every article and contributor and facilitated the countless changes and updates made to the text.

The humanist and scholar Dr. Samuel Johnson wrote, in reference to his great dictionary, that "the world is little solicitous to know whence proceeded the faults of that which it condemns." An encyclopedia is a difficult undertaking because of its magnitude and because expectations are so great that it will fulfil so many contrasting demands. The Canadian Encyclopedia is delivered in the spirit in which it has been created by its staff, contributors, advisers, consultants, cartographers, photographers, artists, indexers and technical staff, who have sought to bring to Canadians a deeper knowledge about themselves and their diverse country. I express our gratitude to the many Canadians from every part of Canada who have generously given us their time and their support for a project they believed to be of great importance to our nation. My final acknowledgement is to Mel Hurtig, who set us all on the greatest enterprise of our lives. He believed that all Canadians would be drawn together in this national project, and his faith in Canada is reflected in these pages. James H. Mush

JAMES H. MARSH Editor in Chief

Edmonton, Sept 1985

USING THE ENCYCLOPEDIA

Organization The content of the encyclopedia has been organized in entries which are listed alphabetically. The entry titles, which appear in boldface type (eg, Humorous Writing in English), have been chosen to aid the reader in the search for information on particular subjects. This system has the advantage of providing quick access to information and a convenient means of dealing with topics that students or general readers might encounter in their daily readings. Such an arrangement tends to scatter information throughout the alphabet, but through cross-references the editors have tried to maintain the connections between entries and to lead the reader quickly to related articles, as from the biography of J.S. Woodsworth to entries on Social Gospel, Co-operative Commonwealth Federation, etc. Readers should look first among the article titles for the topic they seek, and, if there is not a separate entry, then among the 30 000 subjects listed in the Index at the end of Volume III. The crossreferences within the entries themselves (marked in small capitals, eg, IRON ORE) are provided when they might lead to greater understanding of the main subject of the entry and are not always exactly in the form of the article to which they refer; for example, "Department of EXTERNAL AFFAIRS leads the reader to the article External Affairs, Department of, and the cross-references AGRICULTURE OF NATIVE PEOPLE may lead to several entries that begin with that title.

The major subject areas have generally been broken down into several types of entries to meet the varying needs of the reader. For example, the field of architecture is dealt with in an overview, in an entry describing the profession (Architectural Practice), in an historical essay (Architectural Development) and in a series of articles on types of architecture (Government Building or Religious Building), styles, issues (Heritage Conservation), and specific buildings (Massey College); in addition, biographies of important architects (Arthur Erickson, Douglas Cardinal) are presented. The entries have been designed to present basic facts, explain central concepts and, space permitting, describe their subjects in greater detail. Through this organization and this variety of approaches the editors hope to have satisfied the different demands that are placed on an encyclopedia.

Alphabetical Arrangement The entries of the encyclopedia have been alphabetized using the "word-by-word system," in which headings are arranged according to the letters of the first word. Second and subsequent words are used for determining the order of the entries only when two or more headings begin with the same word. Hence, entries beginning with a short word appear before entries with the same short word forming the opening letters of a longer word; for example, Ice Cap appears before Icebreakers, and Forteau and Fortification follow Fort Smith, Fort Steele and Fort Walsh. For the sake of convenience, all the names beginning with "Mac" and "Mc" have been sorted as though they were spelled "Mac"; and those beginning with "Saint," "Sainte," "St" or "Ste" as though they were spelled "Saint." Numbers

are listed as if they were spelled out; for example **4-H Clubs** is sorted as if it were "Four-H Clubs."

Personal Names In the interests of convenience it was decided to enter biographies under the name by which a person is commonly known. Thus, in the case of French compound names or titles, a biography will be found under the name a person used; for example, Louis de Baude, Comte de Frontenac, is placed under Frontenac; René-Robert Cavelier de La Salle, under La Salle. However, Guy Carleton, First Baron Dorchester, is found under Carleton and John Buchan, First Baron Tweedsmuir, under Buchan, since that is how they are best known to posterity. Writers are placed under their own name rather than their pen name, for example, Ralph Connor is listed under Gordon, Charles William. Indians of the historical period have been entered under their English name, for example, Poundmaker. Nuns are generally found under their name in religion, for example, Marie de l'Incarnation. Le, La, Du, Des, but generally not de, are considered part of French names and are capitalized.

Place-names Most entries on specific physical features, such as Saguenay River or Helmcken Falls, follow the style and spelling of the Gazetteer of Canada in inverting generic terms that precede the formal name; for example, entries on Lake Erie and Mount Logan are listed under Erie, Lake and Logan, Mount. Populated places are not inverted under their formal names, for example, the town of Lake Louise. The encyclopedia has also adopted the policy of the Gazetteer of Canada in using the form of geographic names used within each province; hence, Trois-Rivières, La Grande Rivière and Montréal are used in preference to Three Rivers, Grand River and Montreal.

Readings Lists of readings that should be easily accessible in libraries are included at the end of many entries for those readers who want to pursue a subject in greater depth. It was often not possible to include readings for short entries, but many will be found at the end of the longer overview articles. Those wishing further information on 17th-, 18th-and 19th-century biographical subjects should consult published volumes of the *Dictionary of Canadian Biography*.

Currency The primary function of an encyclopedia is to provide information that will be of enduring value. The time required to produce such a large and complex work makes it impossible to present the reader with a book as up-to-date as the daily newspaper. The contributors and editors have used the most recent and most reliable information and statistics available to them, and have drawn heavily on the results of the 1981 census. Every attempt has been made to provide consistent data for comparison; for example, population figures of cities and towns are given, whenever possible, from the same year. The results of the 1984 federal election have been incorporated and an attempt has been made in the case of biographies to include up-to-date information to the fall of 1984.

THE CANADIAN ENCYCLOPEDIA

Managing Director Frank O. McGuire

Publisher Mel Hurtig

Editor in Chief James H. Marsh

SENIOR EDITORS

Sciences Adriana Albi Davies

Social Sciences Patricia Finlay

BiographiesMary McDougall Maude

HumanitiesJames A. Ogilvy

Arts Rosemary Shipton

EDITORIAL STAFF

Places Editor John St. James

Translation Editor Penny Williams

Former Arts Editor Diana Selsor Palting

Editor-Researchers Nancy Brown Foulds Kim Patrick O'Leary Gilda Sanders Natalie Sharpe

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Carol Woo Debra MacGregor

Illustrations Co-ordinator Karen Gall

Proofreaders
John Rasmussen
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Free-lance Editors

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Assistant to the Managing Director

Irene Evans

Secretarial
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Rose Litzenberger
Elizabeth Nay
Mary Ann Semeniuk

Word Processing Sheila Birmingham Avril Glen Julie Marseu Robyn Ross Fay Wong **DESIGN**

Book DesignDavid Shaw

AssemblyJ. Harrison Shannon
Martha Staigys

Artists
Claire Tremblay
Danielle Baum
John Crosby
Charles Douglas
Aleta Schueler
Shirley Stacey

Endpapers Tom McNeely

CARTOGRAPHY

Hosford Publishing

Cartographic Consultant Rick Checkland

Cartographic Editors Peter Whitehead Lillian Wonders

Cartographers Michel Lavoie Mariko Patrie

INDEXING

Eve Gardner Ron Gardner Gardner Indexing Services

TRANSLATION

Charles Strong
Quality Language Services

COMPUTER/TECHNICAL

Bernard H. Cordell Douglas Martin Glen Miller Bernadette Quenneville Ron Senda Fulford, Robert Editor, Saturday Night Toronto

Gadacz, René Robert Dept of Anthropology University of Alberta Gagnon, François-Marc Professeur d'histoire de l'art canadien Université de Montréal

Gall, Gerald L.
Associate Professor of Law
University of Alberta

Gander, Lois
Director, Legal Resource Centre
Faculty of Extension
University of Alberta
Gendron, Pierre R. (deceased)

Consultant Hudson, Qué Gillott, Cedric

GHIOTT, CECHC
Professor of Biology
University of Saskatchewan
Gingras, Yves
Institut d'histoire et de
sociopolitique des sciences
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Goa, David J.
Curator of Folk Life
Provincial Museum of Alberta

Edmonton Godard, Barbara Thompson Associate Professor of English

York University
Govier, George W.
President Govier Consulting Services Ltd

Calgary Graham, John Finlayson Professor of Economics Dalhousie University

Granatstein, J.L. Professor of History York University Grant, John Webster

Professor of Church History (retired) Emmanuel College Victoria University, Toronto

Grant, Peter S.

Partner, McCarthy & McCarthy
Barristers & Solicitors, Toronto

Gregg, Robert J.
Professor Emeritus of Linguistics
University of British Columbia
Griffiths, Anthony J.F.

Professor of Botany University of British Columbia Gruchy, Charles G. Assistant Director

Collections & Research National Museum of Natural Sciences

Haber, Erich Assistant Curator of Vascular Plants National Museum of Natural Sciences Ottawa Hall, Frederick A.

Hall, Frederick A.
Associate Professor of Music
McMaster University
Hamelin, Jean
Professeur d'histoire
Université Laval
Handling, Piers
Writer, Toronto
Harker, W. John
Professor of Education
University of Victoria
Harris, Walter E.
Professor Emeritus of Chemis.

Professor Emeritus of Chemistry University of Alberta Hayne, David M.

Professor of French
University of Toronto
Heron, Craig
Assistant Professor of Social
Science & History York University

Heyman, Richard D.
Professor of Sociology of Education
University of Calgary

University of Calgary
Hiller, Harry H.
Professor & Head of Sociology
University of Calgary
Hillmer, Norman
Senior Historian

Senior History
Directorate of History
Dept of National Defence, Ottawa
Hogg, Helen Sawyer
Professor Emeritus of Astronomy
University of Toronto

Jackel, David Professor & Chairman of English University of Alberta

Jackel, Susan
Assistant Professor of Canadian Studies

University of Alberta Jackson, Harold Professor of Food Microbiology University of Alberta Jackson, John N

Professor of Applied Geography Brock University
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Associate Professor of Natural Science Atkinson College, York University

Jewett, Pauline

Member of Parliament

New Westminster-Coquitlam, BC

Joffe, Anatole Centre de recherche mathématiques appliquées Université de Montréal Johnstone, Rose M.

Professor & Chairman of Biochemistry McGill University
Juteau-Lee, Danielle

Professeure agrégée de sociologie Université de Montréal

Kalbach, Warren E.
Professor of Sociology University of Toronto Kallmann, Helmut Chief, Music Division National Library of Canada, Ottawa Kalman, Harold D. Consultant in the History &

Conservation of Architecture Ottawa

Kapelos, George Thomas
President, Society for the Study of
Architecture in Canada Toronto

Kealey, Gregory S. Professor of History Memorial University of Newfoundland

Klymasz, Robert B.
Curator, Slavic & East European Programme
Canadian Centre for Folk Culture Studies
National Museum of Man, Ottawa

Kula, Sam Director, National Film, Television & Sound Archives Public Archives of Canada, Ottawa Kupsch, Walter O.

Professor of Geology University of Saskatchewan

Lacroix, Laurier Professeur d'histoire de l'art Université Concordia

Laine, Mabel H. Administrator Encyclopedia of Music in Canada

Lambert, James H.
Rédacteur-Historien Dictionary of Canadian Biography

Québec Land, R. Brian Ontario Legislative Library Research & Information Services; Professor of Library &

Information Science
University of Toronto
Larin, Gilles-Normand
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Université de Sherbrooke LaSalle, Pierre

Labatte, Filer Energie et Ressources, Québec Laycock, Arleigh H. Professor of Geography; Director, Water Resources Centre University of Alberta Legget, Robert F.

Consultant, Ottawa Lemieux, Vincent Professeur de science politique

Université Laval Lessard, Claude Professeur agrégé des sciences de l'éducation Université de Montréal

Levy, Julia G.
Professor of Microbiology
University of British Columbia

Linteau, Paul-André Professeur d'histoire Université du Québec à Montréal Lithwick, N.H. Professor of Economics & Public

Administration Carleton University

Lord, Guy Professeur titulaire de droit Université de Montréa!

McBryde, W.A.E.
Professor of Chemistry
University of Waterloo
McCardle, Bennett
Writer, Ottawa
McCue, H.A.
Director, Education Services
Cree School Board, Chisasibi, Qué
McFadyen Clark, Annette
Chief, Canadian Ethnology Service
National Museum of Man, Ottawa
McGillivray, Donald G.
National Economics Editor
Southam News, Ottawa
McKenna, Sister Mary Olga

Sournam News, Ottawa McKenna, Sister Mary Olga Associate Professor of Education Mount Saint Vincent University Mackie, George O.

Professor of Biology
University of Victoria
MCKillop, A.B.
Associate Professor of History
University of Manitoba
NcLeod, Lionel E.

President, Alberta Heritage Foundation for Medical Research

Edmonton
MacMillan, Keith
Professor of Music
University of Ottawa

University of Ottawa
McMillan, Barclay
Broadcaster & writer, Ottawa
McMordie, Michael
Professor of Architecture
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McNulty, Jean Research Associate of Communication

Simon Fraser University Mailhot, Laurent Professeur de littérature

Université de Montréal Major, Jean-Louis Professeur titulaire des lettres françaises Coordonnateur associé Corpus d'éditions critiques Université d'Ottawa Mann, Kenneth H.

Director, Marine Ecology Laboratory Government of Canada Fisheries & Oceans Dartmouth, NS

Martin, Gérard-B Doyen, Faculté des sciences de l'agriculture et de l'alimentation Université Laval

Martin, Sandra Writer, Toronto Melody, William H.
Professor of Communication
Simon Fraser University

Miller, Mark
Journalist, Toronto
Moir, John S.
Professor of History
University of Toronto
Morrison, Alexander

Assistant Deputy Minister Health Protection Branch Dept of National Health & Welfare Ottawa

Murray, Joan Director The Robert McLaughlin Gallery Oshawa, Ont

Naldrett, Anthony J. Professor of Geology University of Toronto Nelles, Henry Vivian Professor of History York University

rork University Nelson, Joseph S. Professor of Zoology University of Alberta Nielsen, N. Ole Professor of Veterinary Pathology University of Saskatchewan

Nitecki, André Professor of Library Science University of Alberta Nursall, J. Ralph Professor of Zoology University of Alberta

Officer, Jillian M. Assistant Professor of Dance University of Waterloo Ogilvie, John R.

Director, School of Engineering
University of Guelph
Orpwood, Graham W.F.
Science Adviser Science Adviser
Science Council of Canada. Ottawa
Ostiguy, Jean-René
Conservateur chargé de recherches
Galerie nationale du Canada, Ottawa
Ouellet, Henri
Chief Vertabate Zoale y Division Chief, Vertebrate Zoology Division; Curator of Birds National Museum of Natural Sciences Owram, D.R.
Associate Professor of History
University of Alberta

Palmer, Howard Associate Professor of History University of Calgary Panitch, Leo Victor Professor of Political Science York University Parsons, John Teacher of Newfoundland Culture Booth Memorial Regional High School St John's

St John's
Pawluk, Steven
Professor of Soil Science
University of Alberta
Perks, William T.
Professor of Urbanism & Planning
University of Calgary
Philline Buth R

Onversity of Largary
Phillips, Ruth B.
Assistant Professor of Art History
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Phillipson, Donald J.C.
Historian of Science, Ottawa
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Professor Emeritus of Oceanography University of British Columbia Plant, Richard L.

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Associate Professor of History
Mount Allison University Reid, Robert G.B.

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Riley, Barbara
Curator, History Division
National Museum of Man, Ottawa

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Université de Montréal

Rodway, Margaret R. Associate Professor of Social Welfare University of Calgary

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Rousseau, Louis Professeur de religiologie Université du Québec à Montréal

Routledge, Marie
Research & Documentation Co-ordinator Inuit Art Section Indian & Northern Affairs Canada Ottawa

Ottawa
Roy, Patricia E.
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University of Victoria
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USE Equipation Professor et al.

UPS Foundation Professor & Director Centre for Transportation Studies University of British Columbia

Rutter, Nathaniel W.

Professor & Chairman of Geology University of Alberta

Saddlemyer, Ann Professor of English & Drama Victoria College & Graduate Centre for Study of Drama University of Toronto

Sales, Arnaud Sales, Arnaud Professeur agrégé de sociologie Université de Montréal Scobie, Stephen A.C. Professor of English University of Victoria Scott, Anthony

Professor of Economics University of British Columbia Sebert, Louis M.

Canada Land Surveyor, Ottawa Shadbolt, Doris Curator Emeritus

Vancouver Art Gallery North Burnaby, BC Shaw, Robert F.

Consultant, Montreal Engineering Company, Limited, Montréal Shebeski, Leonard H.

Dean Emeritus University of Manitoba Shortt, Samuel E.D. Associate Professor of Family Medicine: Associate Professor of History Queen's University

Simeon, Richard

Professor of Political Studies Queen's University Sinclair-Faulkner, Tom Associate Professor of Religion Dalhousie University

Sirois, Antoine Professeur de littérature Université de Sherbrooke Slater, Peter

Slater, Peter
Professor of Theology
Toronto School of Theology;
Centre for Religious Studies
University of Toronto
Slaymaker, Olav
Professor of Geography
University of British Columbia
Smith, David C.
Professor & Principal of Economics
Outputs University
Universit

Queen's University

Smith, Derek G.

Associate Professor of Sociology & Anthropology Carleton University Smith, Donald B.

Associate Professor of History University of Calgary Smith, Peter J.

Professor of Geography University of Alberta Stairs, Denis

Professor & Chairman of Political Science Dalhousie University

Stamp, Robert Writer, Toronto
Stanbury, W.T.
Professor of Policy Analysis

University of British Columbia Steeves, Taylor A.

Professor of Biology University of Saskatchewan Stelck, Charles R.

Professor Emeritus of Geology University of Alberta Stevenson, John T. Associate Professor of Philosophy

University of Toronto Stewart, Wilson N. Professor Emeritus of Botany University of Alberta Strate, Grant

Professor of Dance Simon Fraser University

Strong-Boag, Veronica
Associate Professor of History & Women's Studies Simon Fraser University

Studnicki-Gizbert, Konrad W. Economic Commission for Latin America United Nations, Santiago de Chile

Sutherland, Stuart R.J. Swinton, George
Adjunct Professor of Art History

Carleton University

Professor of Computing Science University of Alberta Tayloi, C.J.

laylot, C.J. Historian, National Historic Parks & Sites Branch Parks Canada, Ottawa Taylot, William E., Jr President

Social Sciences & Humanities Research

Social Sciences & Humanii Council of Canada, Ottawa Tepperman, Lorne Professor of Sociology University of Toronto Thomas, Morley K. Former Director General Canadian Climate Centre

Canadian Climate Centre
Downsview, Ont
Thompson, Dixon A.R.
Professor of Environmental Science
University of Calgary
Tupper, Allan
Associate Professor of Political

Associate Professor of Political Science

University of Alberta
Tweedie, Katherine
Assistant Professor of Photography Concordia University

Vachon, Auguste Chief Medal, Heraldry & Costume Section Public Archives of Canada, Ottawa Vallee, Frank G.

Professor of Anthropology & Sociology Carleton University

van Zyll de Jong, Constantinus G. Curator, Mammalogy Section National Museum of Natural Sciences

Véronneau, Pierre Historien Cinémathèque québécoise/Musée du cinéma, Montréal Vézina, Claude

Directeur adjoin Institut Armand-Frappier Laval, Qué

Wagner, Anton Association for Canadian Theatre History, Toronto

Waite, P.B. Professor of History Dalhousie University Weinrich, Peter H.
Executive Director
Canadian Crafts Council, Ottawa West, J. Thomas
Curator, Canada's Sports Hall of Fame Toronto

Whitaker, Reginald
Professor of Political Science
York University Whyte, Donald R

Professor of Sociology & Anthropology Carleton University

Wilkin, Karen
Independent curator et critic, Toronto Wilkinson, Bruce W

Professor of Economics
University of Alberta
Williams, William M.
Birks Professor of Metallurgy
McGill University Williamson, Mary F.
Fine Arts Bibliographer
York University

Wilson, J. Donald Professor of History of Education University of British Columbia

Professor of History:
Dean of Graduate Studies & Research
Carleton University

Wolfe, Morris Ontario College of Art, Toronto

Ontario College of Art, Toronto
Wolfe, Roy I.
Professor of Geography (retired)
York University
Wonders, William C.
Professor of Geography
University of Alberta
Woodcock, George
Writer, Vancouver
Wyczynski, Paul
Titulaire de recherche des
lettres françaises lettres françaises Université d'Ottawa Wyman, Max
Author and critic, Vancouver

Young, Walter D.

Professor of Political Science
University of Victoria

Zeller, Suzanne E.
PhD Student of History University of Toronto

CONTRIBUTORS

Abbott, Caroline Louise
Writer & photographer, Montréal Abella, Irving
Professor of History
Glendon College Glendon College
York University
Abler, Thomas S.
Associate Professor of Anthropology
University of Waterloo
Abu-Laban, Baha R.
Professor of Sociology:
Associate Vice-President (Research)
University of Alberta
Acton, Donald
Agriculture Canada. Saskatoon Agriculture Canada, Saskatoon Agriculture (anaaa, Saskawon Adams, Peter Professor of Geography Watershed Ecosystems Program Trent University Adie, Peter A.
Former Head, Biomedical Section
Defence Research Establishment
Suffield, Alta Ahearn, Catherine
Author & Poet Laureate of Ottawa
(1982-84), Ottawa Aiken, David E.
Research Scientist
Dept of Fisheries & Oceans St Andrews, NB Albert, Jim Associate Professor of Social Work Associate Projessor of Social Work Carleton University Aldrich, Frederick A. Professor of Biology Memorial University of Newfoundland Allaire, Gratien Professeur d'histoire Frojesseut a instorie Faculté Saint-Jean University of Alberta Allard, Jacques Professeur de littérature Université du Québec à Montréal Allen, A. Richard Member of the Ontario Legislative Assembly:
Professor of History
McMaster University
Allen, Karyn Elizabeth
Curator of Art
The Nickle Arts Museum, Calgary Allen, Max Curator The Museum for Textiles, Toronto Allen, Robert S.
Deputy Chief
Treaties & Historical Research Centre
Dept of Indian & Northern Affairs Ottawa Allen, Willard F. Professor of Chemistry
University of Alberta
Alt, Marlene Michele
Writer, Banff
Amatt, John
Professor President
One Step Beyond Adventure Group
Canmore, Alta Anctil, Pierre Ancili, Pierre
Researcher
Institut québécois de recherche sur
la culture, Montréal
Anderson, Donald W.
General Secretary
Canadian Council of Churches, Toronto
Anderson, Doris H.
President President National Action Committee on the Status of Women, Toronto
Anderson, Duncan M.
Associate Professor of Geography Associate rojessof of Geography
Carleton University
Anderson, Frank W.
Historian, Saskatoon
Anderson, Grace Merle
Professor of Sociology & Anthropology
Wilfrid Laurier University Anderson, Peter S.
Research Associate of Communication Simon Fraser University Andreae, Christopher A. Historica Research Limited

London, Ont

Andrès, Bernard
Professeur d'études littéraires Université du Québec à Montréal Andrew, Sheila Graduate Student University of New Brunswick
Andrews, Florence
Associate Professor of Sociology
Carleton University
Andrus, Donald F.P. Associate Professor of Art History Concordia University Concordia University
Anisef, Paul
Associate Professor of Sociology
York University
Anstey, Thomas H.
Agrologist, Ottawa
Applebaum, Louls
Composer & conductor:
Chairman, Federal Cultural Policy
Review Committee (1980-82), Toronto
Archer, Christon I.
Professor of History
University of Calgary
Archer, Davld J.W
Archaeologist, Vancouver
Archibald, Clinton
Professor of Administration
University of Ottawa
Archibald, Mary
Writer
Shelburne, NS
Arima, Eugene Anisef, Paul Arima, Eugene Ethnologist, Ottawa Arlett, Allan Executive Director The Canadian Centre for Philanthropy Toronto Toronto
Armour, Leslie
Professor of Philosophy
University of Ottawa
Armstrong, G.H.M.
President, Law Society of
Saskatchewan (1977).
Parille W. Edwartion of L. President, Federation of Law Societies of Canada (1980-81), Regina Armstrong, Pat Professor of Sociology & Women's Studies Studies
Vanier College, Montréal
Arnason, John T.
Associate Professor of Biology
University of Ottawa Arsenault, Georges
Visiting Professor in Acadian
Studies Studies University of Prince Edward Island Arseneault, Céline Botamiste (Bibliothécaire), Jardin botanique de la Ville de Montréal Arthur, Eric R. (deceased) Architect et writer, Toronto Architect & writer, Toronto
Artibise, Alan F.J.
Director, Institute of Urban Studies
University of Winnipeg
Asch, Michael I.
Associate Professor of Anthropology
University of Alberta
Asimakopulos, Athanasios
Professor of Economics
McGill University
Asseelin Alain Asselin, Alain Professeur de phytopathologie Université Laval Atchison, John
Lecturer in History
Armidale College of Advanced Education
Armidale, NSW, Australia
Atwood, Margaret Writer, Toronto Aubrey, Irene E.
Chief, Children's Literature Service National Library of Canada, Ottawa Aun, Karl Professor Emeritus of Political Science
Wilfrid Laurier University
Austin-Smith, Peter J.

Non-game Biologist Dept of Lands & Forests, Nova Scotia

Austman, Helgi H.
Agricultural consultant
Gimli, Man
Avery, Donald H.
Associate Professor of History
University of Western Ontario
Ayer, William A.
Professor of Chemistry
University of Alberta
Ayers, Hugh D.
School of Engineering
University of Guelph
Ayles, G. Burton
Director of Research Director of Research Dept of Fisheries & Oceans, Winnipeg Ayre, John Writer, Guelph Aytenfisu, Maureen Student, Edmonton Babcock, Douglas R.
Research Officer
Historic Sites Service, Edmonton
Babcock, Robert H. Professor of History University of Maine Babe, Robert E. Associate Professor of Communication University of Ottawa Bachynski, Morrel P. Bachynski, Morrel P.
President, MPB Technologies Inc
Ste-Anne-de-Bellevue, Qué
Baglole, Harry
Historian, PEI
Bal, David H.
Associate Professor of Anthropology
University of Alberta
Balgent, Margaret J.
Associate Professor of Nutritional
Sciences University of Toronto Baird, David M. Baird, David M.
Director
Tyrrell Museum of Palaeontology
Drumheller, Alta
Baird, Patricia A.
Professor of Medical Genetics
University of British Columbia
Baker, Allan J.
Contains in the Allan J.
Contains in the Allan J. Baker, Allan J.
Curator-in-charge
Dept of Ornithology
Royal Ontario Museum:
Associate Professor of Zoology
University of Toronto
Baker, G. Blaine
Assistant Professor of Law
McGill University
Paker, Malvin Baker, Melvin Baker, Melvin
Researcher, House of Assembly
Province of Newfoundland
Baldwin, Douglas O.
Assistant Professor of History
University of Prince Edward Island
Baldwin, John R.
Kingston, Ont
Bale, Gordon
Professor of Low Professor of Law Queen's University Bandoni, Robert J. Professor of Botany University of British Columbia Banfield, Paul A. Bantield, Paul A.
Queen's University
Barber, Marilyn J.
Associate Professor of History
Carleton University Carteton University
Barbour, Douglas F.
Professor of English
University of Alberta
Barker, Clifford A.V.
Professor of Theriogenology (retired)
Ontario Veterinary College Guelph, Ont Barlow, Jon C. Curator of Ornithology Royal Ontario Museum; Professor of Zoology University of Toronto

Barman, Jean Canadian Childhood History Project University of British Columbia
Barnard, David T.
Associate Professor of Computing & Information Science: Director of Computing Services Queen's University Barnes, John
Associate Professor of Law
Carleton University Cartetion on Inversity
Barr, Elinor
Writer & researcher
Thunder Bay, Ont
Barr, John J.
Director of Public Affairs
Syncrude Canada Ltd, Edmonton
Barratt, Robert E Barratt, Robert F.
Editor, Food in Canada magazine Barrett, Tony
Investment banker & environmentalist Toronto Barrie, H.J. Schomberg, Ont Barris, Ted Writer, Edmonton
Barry, George S.
Energy, Mines & Resources Canada Ottawa Bartlett, Donald R. Bartlett, Donald R.
Professor of English
Memorial University of Newfoundland
Basinger, James F.
Assistant Professor of Geology
University of Saskatchewan
Baskerville, Peter A.
Associate Professor of History
University of Victoria
Baszczynski, Marilyn J.
Dent of Erench Baszczyński, Mariiyn J.
Dept of French
University of Western Ontario
Batten, Alan H.
Senior Research Officer
Dominion Astrophysical Observatory Victoria Victoria
Herzberg Institute of Astrophysics
Baudouin, Jean-Louis
Professeur de droit
Université de Montréal
Baum, Carol
Canadiana Dept
Royal Omario Museum, Toronto
Bazin, Jules
Historien d'art, Montréal
Bean Gladys Bean, Gladys Sports historian, Montréal Beard, William R. Lecturer in Film University of Alberta Beaton, Belinda A. Beaton, Belinda A.
Writer, Toronto
Beaudoin-Ross, Jacqueline
Curator of Costumes & Textiles
McCord Museum
McGill University
Beaudoin, Gérald-A.
De l'Académic canadienne-française
Faculté de droit
Université d'Ottawa
Beaudoin, Réjean
Assistant Professor Assistant Professor University of British Columbia Beaudry, Louise
Historienne de l'art, Montréal
Beauregard, France
Université Laval Beaven, Brian P.N. Visiting Assistant Professor University of Western Ontario Beck, J. Murray
Professor Emeritus of Political Dalhousie University Beckman, Margaret Chief Librarian University of Guelph
Beckwith, John
Composer, Toronto
Bedard, Roger
Professeur d'horticulture Université Laval

xvi / Contributors Beer, Don Senior Lecturer in History University of New England Armidale, NSW, Australia Behiels, Michael D. Associate Professor of History Acadia University Béland, Madeleine Centre d'études sur la langue, les arts et les traditions populaires (CELAT) Université Laval Béland, Mario Etudiant en histoire de l'art (maîtrise)
Université Laval
Bélanger, Guy
Etudiant en histoire
Université de Montréal Bélanger, Réal Professeur d'histoire Université Laval Bélanger, René Historien Sillery, Qué Bélisle, Jean Professor of Visual Arts Concordia University Bell, Norman W. Professor of Sociology University of Toronto Bellan, Ruben C. Professor of Economics University of Manitoba Belleau, André Professeur de littérature Université du Québec à Montréal Belzile, René J.
Professeur d'alimentation animale
Université Laval Bennett, Gerry Writer Woodbridge, Ont Bennett, John Writer, Ottawa Bensley, Edward Horton Professor Emeritus of Medicine: Honorary Osler Librarian McGill University Bentley, D.M.R. Professor of English University of Western Ontario Bercuson, David J. Professor of History University of Calgary Bergen, John J. Professor of Educational Administration University of Alberta Berger, Jeniva President Canadian Theatre Critics Association; Theatre journalist & editor, Toronto Berger, Thomas R. Professor of Law University of British Columbia Bergeron, Claude Professeur d'histoire d'architecture Université Laval Onversite Lava Bergerud, A.T. Honorary Professor of Biology University of Victoria Berkowitz, Norbert Professor of Fuel Science Dept of Mineral Engineering Dept of Mineral Engineering
University of Alberta
Bernard, André
Professeur de science politique
Université du Québec à Montréal
Bernard, Frank R.
Fisheries & Oceans
Pacific Biological Station
Nanaimo. BC
Bernard, Jean-Paul
Professeur d'histoire Professeur d'histoire Université du Québec à Montréal Bernard, Jean-Thomas Professeur d'économique Université Laval Bernier, Jacques Professeur agrégé d'histoire Université Laval Bernier, Marc Directeur des relations publiques Université de Sherbrooke Bernier, Silvie Sherbrooke, Qué Bernshaw, Nicole Ste Thérèse, Qué

Berry, Jonathan
Business Manager Chess Federation of Canada, Ottawa Berry, Michael J. Director Director
Division of Seismology & Geomagnetism
Earth Physics Branch, Ottawa
Berry, Ralph
Professor of English
University of Ottawa
Betton, Pierre
Writer & Brandenster Writer & broadcaster, Toronto
Besner, Neil
English Instructor Mount Royal College, Calgary Bessai, Diane E.
Professor of English
University of Alberta
Betke, Carl
Chief of Research Historic Sites Service Alberta Culture, Edmonton Betz, Roger Ontario Trappers Association North Bay, Ont Bewers, John Michael Bedford Institute of Oceanography Dartmouth, NS Beylerian, Onnig Montréal, Qué Bezeau, M. Vincent Historian, Directorate of History Dept of National Defence, Ottawa Bibby, Reginald W. Associate Professor of Sociology University of Lethbridge
Bibeau, Gilles
Professeur d'anthropologie médicale
Université de Montréal Bickell, Ivan B. Bickell, Ivan B.
Vice-President & Marketing Manager
Gillis Quarries Ltd, Winnipeg
Bigauskas, Julius
Energy, Mines & Resources Canada Ottawa Bilaniuk, Petro B.T. Halluk, Felio B.1. Professor of Theology University of St Michael's College; Professor of Religious Studies University of Toronto Bird, Carolyn J. Associate Research Officer National Research Council of Canada *Halifax* Bird. Michael S. Associate Professor of Religious Studies & Fine Arts Renison College & University of Waterloo Bird, Richard M.
Professor of Economics
University of Toronto Birrell, Andrew Director Director
National Photography Collection
Public Archives of Canada, Ottawa
Bishop, Carol Anne
Writer, Toronto Bishop, Charles A.

Professor of Anthropology

State University of New York Oswego, NY Bishop, Mary F. Research Associate of Health Care & Epidemiology University of British Columbia; Historian, Vancouver Bissett-Johnson, Alastair Professor of Law Dalhousie University Black, Conrad M. Chairman Argus Corporation Limited, Toronto Black, Joseph Laurence Professor of History Carleton University; Director, Institute of Soviet Studies
Black, M. Jean
Assistant Professor
University of North Carolina
Chapel Hill, NC
Black, Naomi Associate Professor of Political Science York University Blackadar, Robert G. Director Geological Information Division Geological Survey of Canada, Ottawa Blackburn, Robert H. Librarian Emeritus

University of Toronto

Blackwell, John D. Lecturer in History Queen's University Blair, Alex M. York University Blair, Robert Professor of Animal & Poultry Science: Executive Director Prairie Swine Centre University of Saskatchewan Blais, André Public Archives of Nova Scotia Halifax Bleakney, J. Sherman Professor of Biology Acadia University Blevis, Bertram C.
Director General
Research Policy & Planning Dept of Communications Communications Research Centre Ottawa Bliss, L.C. Bliss, L.C.
Professor of Botany
University of Washington
Bliss, Michael
Historian, Toronto
Blodgett, E.D.
Professor of Comparative Literature
University of Alberta
Blodgett, Jean
Freelance curator, Ottawa
Blue, Arthur W.
Professor of Native Studies Blue, Arthur W.
Professor of Native Studies
Brandon University
Boadway, Robin W.
Professor of Economics
Queen's University
Boag, David A.
Professor of Zoology
University of Alberta
Bocking, Douglas H.
Associate Provincial Archivist
Saskatchewan Archives Board
University of Saskatchewan
Boddington, J. Boddington, J.

By-Law Officer, Edmonton
Boddy, Trevor Lecturer, School of Architecture University of British Columbia Bodner, John M. All-Breed Judge; Western Canada Regional Director American Cat Fanciers Association Winnipeg Boer, George J.

Chief, Numerical Modelling Division Canadian Climate Centre
Atmospheric Environment Service
Downsview, Ont Bogart, James P. Bogart, James P.
Associate Professor of Zoology
University of Guelph
Boggs, Jean Sutherland
Chairman & Chief Executive Officer
Canada Museums Construction
Corporation Inc, Ottawa
Boileau, Gilles
Département de géographie
Université de Montréal
Bolyin Aurélien Boivin, Aurélien Professionel de recherche Dictionnaire des oeuvres littéraires du Québec Université Laval Boivin, Bernard Herbier, Louis-Marie Université Laval Boivin, Jean Professeur de Relations Industrielles Université Laval Bolduc, André Conseiller, Vice-présidence Information nyormaton Hydro-Québec, Montréal Bolduc, Yves Professeur de littérature québécoise Université de Moncton

Boles, Glen W.

Waterworks Planner, City of Calgary Bolger, Francis W.P. Professor of History University of Prince Edward Island

Bollinger, Kenneth E. Bollinger, Kenneth E.
Professor of Electrical Engineering
University of Alberta
Bonavia, George
Journalist, Ottawa
Bondurant, Flint
BC Hydro, Vancouver
Bonenfant, Joseph
Brofessor tituling Associate Professor of Geography Professeur titulaire Département d'études françaises Université de Sherbrooke Bonish, Gayle Graphic Co-ordinator Blais, Andre
Professeur de science politique
Université de Montréal
Blakeley, Phyllis
Provincial Archivist for Nova Scotia Imax Systems Corporation, Toronto Bonisteel, Roy Broadcaster & journalist Trenton, Ont Associate Professor of Zoology
University of Toronto
Bothwell, Robert
Professor of History Professor of History
University of Toronto
Bott, Robert D.
Writer, Calgary
Bouchard, Randy & Dorothy Kennedy
British Columbia Indian Language
Project, Victoria
Boucher, Michel A.
Economies (Wings et métaux) Economiste (mines et métaux) Secteur de la politique minérale Energie, Mines et Ressources, Canada, Ottawa Boulet, Gilles Président
Université du Québec
Boulet, Roger H.
Author & curator;
Director, Burnaby Art Gallery Director, Burnaby Art Gaitery
Burnaby, BC
Bourassa, André G.
Professeur de théâtre
Université du Québec à Montréal
Bourbonnais, Nicole
Professeure de lettres françaises
Université d'Ottaud Professeure de lettres français Université d'Ottawa Bourgault, Pierre L. Vice-Rector, Administration University of Ottawa Bovey, Patricia E. Director Art Gallery of Greater Victoria Victoria Bowker, Wilbur Fee Professor Emeritus of Law University of Alberta Bowles, Roy T. Professor of Sociology Trent University Bowsfield, Hartwell Associate Professor of History York University
Boyanoski, Christine Boyanoski, Christine
Assistant Curator of Canadian
Historical Art
Art Gallery of Ontario, Toronto
Boyce, Farrell M.
Research Scientist
Environment Canada Burlington, Ont
Bradt, Oliver A.
Research Scientist (retired)
Horticulture Research Institute of Ontario Vineland Station, Ont Brady, William J.
Station Manager, CFPL AM & FM
London, Ont
Braiden, Chris Inspector Edmonton Police Dept, Edmonton Brander, F. Gerald
President Emeritus
Tourism Industry Association of Canada, Toronto
Brassard, Guy R.
Associate Professor of Biology
Memorial University of Newfoundland Brasser, Ted
Ethnologist
Canadian Ethnology Service
National Museum of Man, Ottawa
Bray, R. Matthew Associate Professor of History Laurentian University Breen, David H. Associate Professor of History University of British Columbia Bregha, François Energy analyst, Ottawa

Brehaut, Willard Professor of History & Philosophy of Education Ontario Institute for Studies in Education, Toronto Brennan, J. William Associate Professor of History University of Regina Brennan, Paul W. Senior Milling Technologist Canadian International Grains Canaatan International Grains
Institute, Winnipeg
Brierley, John E.C.
Sir William Macdonald Professor;
Dean, Faculty of Law
McGill University
Briggs Lean J MGGIII University
Briggs, Jean L.
Professor of Anthropology
Memorial University of Newfoundland
Brillinger, David R. Professor of Statistics riojessoi oj statatus University of California at Berkeley Brink, Jack Senior Archaeologist Archaeological Survey of Alberta Edmonton Edmonton
Brinkhurst, Ralph O.
Chief, Ocean Ecology Laboratory
Institute of Ocean Sciences
Canadian Federal Dept of Fisheries & Oceans Sidney, BC; Adjunct Professor University of Victoria; Associate, Royal Ontario Museum Toronto Brochu, André Professeur de lettres Université de Montréal Brodo, Irwin M. Curator of Lichens National Museums of Canada, Ottawa Brodribb, Somer Dept of Sociology in Education Ontario Institute for Studies in Education Toronto Brookes, Alan A. Associate Professor of History University of Guelph Brookes, Ian A. York University
Brooks, David B.
Marbek Resource Consultants Ltd Broughton, Robert S.
Professor of Agricultural Engineering
McGill University Brown, David
PhD Student of Physical Education & Brown, Davident of Physical Education of Sport Studies
University of Alberta
Brown, Desmond H.
Dept of History
University of Alberta
Brown, Jennifer S.H.
Associate Professor of History
University of Winnipeg
Brown, R.G.B.
Research Scientist
Canadian Wildlife Service
Dartmouth, NS
Brown, Robert Craig
Professor of History
University of Toronto
Brown, Roy 1.
Professor of Educational Psychology
University of Calgary
Brown, Thomas E.
Alberta Culture Alberta Culture Lethbridge, Alta Bruce, Lorne D. Reference Librarian
Social Science Division
University of Guelph Library
Brumley, John H. President, Ethos Consultants Ltd Medicine Hat, Alta Brunger, Alan G.
Associate Professor of Geography
Trent University Trem University
Brust, Reinhart A.
Professor of Entomology
University of Manitoba
Bryan, Rorke Bardon
Professor of Geography & Forestry
Scarborough Campus
University of Toronto
Bryant, Giles Bradley
Organist & Master of the Choristers
St James' Cathedral, Toronto

Brzustowski, Thomas A. Professor of Mechanical Engineering University of Waterloo Buchignani, Norman Associate Professor of Anthropology University of Lethbridge Buck, Ruth Matheson Writer, Regina
Buckner, Phillip A. Professor of History
University of New Brunswick
Budden, Geoff Budden, Geott
Professor of History
Memorial University of Newfoundland
Buggey, Susan
Chief, Historical Research Parks Canada, Winnipeg Buisson, Lise Montréal Montreal
Bumsted, J.M.
Professor of History
St John's College
University of Manitoba
Burant, James Curator Collections Management Section Picture Division Public Archives of Canada, Ottawa Burke, Joan Royal Ontario Museum, Toronto Burke, Robert D.

NSERC University Fellow &
Adjunct Assistant Professor Adjunit Assistant Projessor University of Victoria Burnet, Jean Professor of Sociology Glendon College, York University Burnett, David Burnett, David
Independent curator & writer, Toronto
Burnett, Marilyn (Schiff)
Researcher & writer, Toronto
Burnham, Dorothy K.
Research Associate, Textile Dept
Royal Ontario Museum, Toronto
Burns, Eedson Louis Millard Adjunct Professor of International Affairs Carleton University Burns, Robert J.

Parks Canada, Ottawa
Burns, Robin Associate Professor of History Bishop's University Burton, Ian Director
Institute for Environmental Studies
University of Toronto Buteux, Paul Associate Professor of Political Studies University of Manitoba Butler, Frank Taylor Assistant Professor of Physical Education
Memorial University of Newfoundland
Butler, K.J. (Jack) Painter, Winnipeg Butts, Edward Writer Writer
Mississauga, Ont
Butts, Robert E.
Professor of Philosophy
University of Western Ontario Cadotte, Marcel Cadotte, Marcel
Professeur agrégé de pathologie
Université de Montréal
Callaghan, John C.
Clinical Professor of Surgery;
Director, Division of Thoracic &
Cardiovascular Surgery
University of Alberta Hospital
Callahan, John W.
Associatt Professor of Paediatrics &
Biochemistry

Biochemistry Research Institute, The Hospital for Sick Children, Toronto Camerlain, Lorraine Cahiers de théâtre Jeu, Montréal Cameron, Bill Writer, Saskatoon Cameron, Christina Chief, Canadian Inventory of Historic Building Parks Canada, Hull Cameron, Elspeth
Co-ordinator, Canadian Literature &
Language Programme
University of Toronto
Cameron, Wendy
Toronto, Ontario

Chagnon, Roland

Professeur de sciences de la religion Université du Québec à Montréal

Campbell, A. Barrie
A griculture Canada, Research Station
winnipeg
Campbell, Beverly
Biosystematics Research Institute Chambers, Edward J.
Professor of Economics University of Alberta Chambers, Francis J. Chief Pilot PISCES IV Institute of Ocean Sciences Campbell, Douglas F.
Associate Professor of Sociology Institute of ocean Sciences
Sidney, BC
Chambers, Robert D.
Professor of English Literature
Trent University
Champagne, Michel
Conservateur de l'art moderne
Musée du Québec, Québec
Chapman, James K.
Professor of History Erindale College University of Toronto University of Toronto
Campbell, Gordon
Professor of Education
University of Lethbridge
Campbell, Ian A.
Professor of Geography
University of Alberta
Campbell, J. Milton
Biosystematics Research Institute Professor of History
University of New Brunswick
Chapman, John D. Professor of Geography University of British Columbia Campbell, Neil John
Director-General, Marine Sciences & Charbonneau, Louis Professeur de mathématiques Université du Québec à Montréal Information Directorate Information Directorate
Dept of Fisheries & Oceans, Ottawa
Campbell, Percy I.
Chief, Water Survey of Canada
Hull, Qué
Campbell, Sandra
National Arts Centre, Ottawa
Campion, Richard
Technical Director
Canadian Weightlifting Federation Charlton, Murray Norman National Water Research Institute Aquatic Ecology Division Burlington, Ont Chartrand, L. Margaret Novice historical researcher Winnipeg
Chartrand, Luc
Journaliste, Radio-Canada
Montréal Canadian Weightlifting Federation Ottawa Montréal
Chartrand, René
Senior Military Advisor/Curator
Parks Canada, Ottawa
Chatterton, Brian D.E.
Professor of Geology
University of Alberta
Cheff, Michel Vincent
Galerie Nationale du Canada, Ottawa
Childers, Walter R.
Agriculture Canada (retired) Cannon, William T. Associate Professor of Business Queen's University Cantin, Pierre Profeseur
Collège de l'Outaouais, Hull
Caplan, Usher
Editor, Ottawa Catasco, Emily F.
Associate Professor of Law
University of Windsor
Carbin, Clifton F.
Executive Director, Deaf Children's
Society of British Columbia: Agriculture Canada (retired) Ottawa Chimbos, Peter D. Associate Professor of Sociology Brescia College University of Western Ontario Chisholm, Alexander J. Director, Atmospheric Processes Research Branch Vice-President Anterrestaem
Anterrestaem
Anterrestaem
Cardy, Patrick Robert Thomas
Associate Professor of Music
Carleton University Environment Canada Downsview, Ont Choquette, Robert Professeur agrége Université d'Ottawa Carefoot, Thomas H.
Professor of Zoology
University of British Columbia
Careless, J.M.S. Oniversite a Oitawa
Chornia wy, Catherine
Research historian, Edmonton
Christian, Timothy J.
Associate Professor of Law
University of Alberta
Christian, William E.
Associate Professor of Political
Studies Professor Emeritus
Massey College
University of Toronto
Carlisle, Jock Alan
Proprietor, Carlisle Consultants
Deep River, Ont Deep River, Om.
CATON, Laurent G.
Professeur de physique
Université de Sherbrooke
Carpenter, Carole H.
Associate Professor of Humanities Studies University of Guelph
Christie, Carl A.
Historian, Directorate of History
Dept of National Defence, Ottawa York University Carpenter, Ken
Associate Professor of Art History Christie, Innis Chistle, Innis
Associate Dean & Professor of Law
Dalhousie University
Chubey, B. Bert
Research Scientist
Agriculture Canada York University Carrière, Gaston Archiviste, Archives Deschâtelets Carroll, Carman V.
Public Archives of Canada, Ottawa
Carter, Brian G. Morden, Man
Churcher, Charles Stephen
Professor of Zoology
University of Toronto: Associate Professor of Immunology University of Manitoba Carter, George E. Professor of Economics Ryerson Polytechnical Institute & Atkinson College, York University Research Associate Royal Ontario Museum, Toronto Chute, Janet Graduate Student, Doctoral Program McMaster University Chutter, S. Donald C. Carter, Margaret Heritage research consultant, Ottawa Cashin, Richard J. President, Newfoundland Fishermen, Food & Allied Workers Union SI John's Ottawa Bureau Chief Revay & Associates Limited, Ottawa Cinq-Mars, Jacques Commission archéologique du Canada Musée national de l'Homme, Ottawa Casselman, Ian Clague, John J.
Geological Survey of Canada
Vancouver

Clandinin, Michael Thomas
Associate Professor of Nutritional
Biochemistry
University of Toronto

Clark, A. McFadyen
Chief, Canadian Ethnology Service
National Museum of Man, Ottawa

Clark, Howard C.
Professor of Chemistry:
Vice-President Academic
University of Guelph Clague, John J. Casserman, Ian
Historian, Toronto
Cavers, Paul B.
Professor of Plant Ecology
University of Western Ontario
Chabot, Richard Professeur d'histoire Université du Québec à Montréal

Clark, Lovell Professor of History University of Manitoba Clark, Robert H. Professional engineer, Ottawa Clark, T. Alan Professor of Physics University of Calgary Clark, Thomas H.
Professor Emeritus of Geological McGill University Clarke, R. Allyn
Bedford Institute of Oceanography Dartmouth, NS
Clarkson, Stephen
Professor of Political Economy
University of Toronto
Clement, Wallace Professor of Sociology Carleton University Clerk, Nathalie Analyste en architecture Parcs Canada Hull, Qué Clermont, Norman Département d'anthropologie Université de Montréal Clermont, Yves W.

Professor of Histology

McGill University Clifford, Howard Consultant on Day Care Health & Welfare Canada, Ottawa Clippingdale, Richard Director, Canadian Studies Carleton University Cloutier, Nicole

Curator of Early Canadian Art

Montréal Museum of Fine Arts Clowes, Gigi Writer, Vancouver Coad, Brian W. Associate Curator of Fishes National Museum of Natural Sciences Ottawa Coakley, John P. National Water Research Institute Burlington, Ont Coates, Donna Instructor of English Mount Royal College, Calgary Cochran, Bente Roed
Art historian & writer
Athabasca University Cody, William James Curator, Vascular Plant Herbarium Biosystematics Research Institute Agriculture Canada, Ottawa Cogswell, Dale R.
Government Records Archivist Provincial Archives of New Brunswick, Fredericton Cogswell, Fred Professor Emeritus of English Literature University of New Brunswick Cohen, Stanley A. Counsel, Human Rights Law Dept of Justice, Ottawa Cole, Susan G. Writer, Toronto
Coleman, Patricia H.
Nutritional Sciences Research Officer University of Toronto Collard, Elizabeth Consultant on Ceramics National Museum of Man, Ottawa Collins, Malcolm M.C. Head, Power Engineering Section National Research Council, Ottawa Colombo, John Robert Writer, Toronto
Condemine, Odette
Professor of French Canadian Literature
Carleton University
Connelly, M. Patricia Associate Professor of Sociology Saint Mary's University Connor, James T.H. Historian London, Ont Conolly, Leonard W. Professor of Drama University of Guelph Conover, Robert J. Research Scientist Bedford Institute of Oceanography Dartmouth, NS

Conrad, Margaret
Associate Professor of History Acadia University Conron, A. Brandon Professor Emeritus University of Western Ontario Conway, Brian E.
Professor of Chemistry; Killam Research Fellow (1984) University of Ottawa Cooch, F. Graham Senior Research Science Advisor Canadian Wildlife Service, Ottawa Cook, Eung-Do Professor & Head of Linguistics University of Calgary Cook, Francis R. Curator, Herpetology Section National Museum of Natural Sciences Ottawa Cooke, O.A. Senior Archival Officer Directorate of History
Dept of National Defence, Ottawa
Cope, Gordon William Cope, Gordon William
Professor of Geology
University of Calgary
Corbeil, Pierre
Professeur d'histoire
CEGEP de Drummondville, Qué
Corcoran, Frank
Assistant Director
Public Programmina Public Programming
National Museum of Man, Ottawa
Cormier, J. Clement
Founding President (1963-67);
Chancellor (1973-78) University of Moncton
Cornell, Peter McCaul
Director, Economic Council of Canada Ottawa Cosentino, Frank
Professor of Physical Education & Athletics York University Cosper, Ronald L. Cosper, Rollaid L.

Associate Professor of Sociology
Saint Mary's University
Cotnam, Jacques
Professeur de littérature québécois
Vent Mainenier Professeur de litterature quebec York University Coupland, Robert T. Professor of Plant Ecology University of Saskatchewan Courchene, Thomas J. Professor of Economics University of Western Ontario Courtney, John C. Professor of Political Science University of Saskatchewan University of Saskatchewan Cove, John J. Associate Professor of Anthropology Carleton University Cowan, Jeff G.
Partner, Weir & Foulds Toronto
Coward, Harold G.
Professor of Religious Studies University of Calgary Cox, Bruce
Associate Professor of Anthropology Carleton University
Cox, Diane Wilson
Professor, Research Institute The Hospital for Sick Children; Depts of Paediatrics, Medical Genetics & Medical Biophysics University of Toronto
Crabb, Michael F.
Freelance writer & broadcaster Toronto
Cragg, Laurence Harold
President & Professor Emeritus of Chemistry Mount Allison University Mount Allison University
Craig, Mary M.
La Fédération des Coopératives du
Nouveau-Québec, Montréal
Craig, Terrence L. Assistant Professor of English University of Western Ontario Crain, Ian K. Canada Land Data Systems Environment Canada, Ottawa

Crane, Brian A.

Barrister & Solicitor Gowling & Henderson, Ottawa

Crane, David Dagg, Anne Innis Freelance wildlife biologist Director of Corporate Affairs Canada Development Investment Waterloo, Ont Waterloo, On Dahl, Edward H. National Map Collection Public Archives of Canada, Ottawa Dahlie, Hallvard Professor of English Corporation, Toronto Cranmer-Byng, John L Professor Emeritus of History University of Toronto Cranstone, Donald A. University of Calgary Dahms, Moshie E. Reference Librarian Energy, Mines & Resources Canada Ottawa Craven, David L. Associate Professor of Art History
State University of New York
Callege at Cortland, NY
Crawford, Roy D.
Professor of Animal & Poultry Humanities Division University of Guelph Library Dale, Hugh Monro Professor of Botany University of Guelph Dale, Ralph Genetics
University of Saskatchewan
Creery, Tim
Journalist, Ottawa
Crine, Philippe
Professeur de biochimie
Université de Montréal
Crookell, Harold
Professor of Business
University of Western Ontario
Cross, Michael S.
Dean of Continuing Education;
Professor of History
Dalhousie University
Crossley, Diane
Victoria, BC
Crossman, E.J. Librarian, Central Region Libraries Grand Falls, Nfld Dales, John H. Toronio
Daly, Eric W.
Manager Administration Metro Toronto Region The Canada Trust Company, Toronto Dansereau, Pierre Professeur d'écologie Université du Québec à Montréal Danys, Ruth Freelance writer, Toronto
Darnell, Regna
Professor of Anthropology
University of Alberta Crossman, E.J. Curator-in-Charge Daubeny, Hugh
Research Scientist
Agriculture Canada, Vancouver Dept of Ichthyology & Herpetology Royal Ontario Museum, Toronto Davenport, Paul
Associate Professor
McGill University Croteau, Omer Professeur titulaire de sciences comptable École des hautes études commerciales David, Gilbert Montréal
Crowe, A. David
Head, Tree Fruits Program
Agriculture Canada
Kentville, NS
Crowe, Keith Jeffray Ecrivain, Montréal David, Hélène Chercheure Institut de recherche appliquée sur le travail, Montréal David, Peter P. Professeur titulaire de géologie Université de Montréal Davidson, William A.B. Senior Negotiator Office of Native Claims Dept of Indian & Northern Affairs Editor (retired)
Canadian Textile Journal, Montréal
Davies, Gwendolyn
Associate Professor of English;
Associate of the Centre for Canadian Ottawa Cruden, David M. Professor of Civil Engineering & of Geology University of Alberta Cruickshank, David A. Mount Allison University
Davies, John A.
Professor of Geography
McMaster University
Davis, Ann Professor of Law University of Calgary Crunican, Paul Professor of History
University of Western Ontario
Cuješ, Rudolf P. Freelance curator Cûješ, Rudolf P.
Professor of Sociology
St Francis Xavier University
Cumming, Carman W.
Professor of Journalism
Carleton University
Cumming, Leslie Merrill
Research Scientist
Geological Survey of Canada, Ottawa
Currie, Philip J.
Assistant Director (Curatorial)
Tyrrell Museum of Palaeontology
Drumheller, Alta
Currie, Raymond F. London, Ont Davis, Chuck Davis, Cruck
Writer & broadcaster. Vancouver
Davis, Richard C.
Dept of English:
Arctic Institute of North America University of Calgary Dawe, Michael J. Archivist Red Deer & District Archives Red Deer, Alta Day, John M. Management Consultant, Vancouver Currie, Raymond F. Associate Professor of Sociology University of Manitoba Curtis, Christopher G. Day, Lawrence Toronto de Jong, Nicolas J.
Provincial Archivist of Prince Edward
Island, Charlottetown Historian Parks Canada, Ottawa Curtis, James
Associate Professor of Sociology
University of Waterloo de Pencier, Honor Curatorial Assistant, Canadiana Dept Royal Ontario Museum, Toronto Dearden, P.
Assistant Professor of Geography Cusack, Leonard J.
History Teacher
Kinkora Regional High School, PEI Assistan Projessor of Geogra University of Victoria DeBresson, Chris Professeur Invité, Histoire et Socio-Politique des Sciences Université de Montréal Decarie, Malcolm Graeme Cutler, Maurice
Director, Public Affairs
Office of the Auditor General of Canada
Cybulski, Jerome S.
Curator of Physical Anthropology
National Museum of Man, Ottawa Associate Professor of History Concordia University Czypionka, Joachim B.
Historian & writer, Edmonton Deeg, Bart F.
Recreation Planning Consultant Bart Deeg & Associates, Edmonton Deeprose, Ronald K. d'Agincourt, Lorraine G. Writer, California D'Allaire, Micheline Professeur agrégé d'histoire Université d'Ottawa

Technical Services Division Alberta Environment, Edmonton

DeFelice, James Professor of Drama & writer University of Alberta
Del Buono, Vincent M.
Chief, Police Powers Project Dept of Justice, Ottawa Delorme, L. Denis National Water Research Institute Environment Canada
Burlington, Ont
Dempsey, Hugh A.
Assistant Director (Collections)
Glenbow Museum, Calgary Dempsey, L. James Graduate Student University of Calgary den Otter, A. A.

Associate Professor of History

Memorial University of Newfoundland Derome, Jacques F.
Associate Professor of Meteorology
McGill University Derry, Duncan R Consulting geologist Derry, Michener, Booth & Wahl Toronto
Derry, Ramsay
Editor, Toronto Eattor, Loronto
Desbarats, Peter
Dean, Graduate School of Journalism
University of Western Ontario
Deschênes, Donald

Ethnomusicologue Moncton, NB DesGranges, Jean-Luc Chercheur scientifique Service canadien de la faune Région du Québec Désilets, Andrée Professeur d'histoire Université de Sherbrooke

Desloges, Yvon Agent de recherche Parcs Canada, Québec DeSorcy, Gerald L.
Energy Resources Conservation Board Calgary

Dick, Lyle
Historian, Parks Canada

Historian, Parks Canada Winnipeg Dickie, Lloyd Merlin Research Scientist Bedford Institute of Oceanography: Adjunct Professor of Oceanography Dalhousie University Dickin McGinnis, Janice

Calgary
Dickinson, John A.
Professeur d'histoire Université de Montréal Dickinson, W. Trevor Professor of Hydrology

University of Guelph
Dimić, Milan V.
Professor of Comparative Literature
University of Alberta
Dion, Gérard

Professeur de relations industrielles Université Laval Dionne, René

Professeur titulaire de lettres françaises Université d'Ottawa

Dirks, Gerald E. Associate Professor of Politics Brock University Dirks, Patricia G.

Assistant Professor of History Brock University Diubaldo, Richard J

Associate Professor of History; Director, Centre for Mature Students Concordia University

Onkorala University
Dobbin, Murray
Writer, Saskatoon
Dobell, Rodney
Professor of Public Administration
University of Victoria
Dodd Diagrae

Dodd, Dianne PhD Candidate Carleton University Dodman, Donald A.

Parish Priest
St Albert, Alta
Doerr, Audrey D.

Indian & Northern Affairs, Ottawa
Doiron, Allen
Archiviste Archives provinciales du Nouveau-Brunswick, Fredericton

Dolman, Claude Ernest Professor Emeritus of Microbiology University of British Columbia Dompierre, Louise Associate Curator

Agnes Etherington Art Centre Kingston, Ont Donaldson, Mairi

Victoria
Donaldson, Sue Anne
Associate Professor of Environmental Design University of Calgary

Donelan, Mark A. Research Scientist Environment Canada

Burlington, Ont
Donnelly, Margaret Mary
Barrister & Solicitor, Edmonton

Donner, John

Donner, John
Brampton, Ont
Donneur, André
Montréal, Qué
Doob, Penelope B.R.
Associate Professor of English
& Multidisciplinary Studies
York University

York University
Doody, Peter K.
Barrister & Solicitor, Ottawa
Doolittle, Joyce
Professor of Drama
University of Calgary
Dorcey, Anthony H.J.
Assistant Director
Westwater Research Centre
University of British Columbia
Dorion, Gilles

Professeur titulaire des littératures Université Laval Dotto, Lydia

Science writer, Toronto

Doucet, Roger A.

Agronome, Ministère de l'Agriculture

des Pêcheries et de l'Alimentation du Québec Doucette, Leonard E.

Professor of French Scarborough College University of Toronto Dougall, Charles

Dictionary of Canadian Biography Toronio

Toronto
Dougan, Jane L.
Research Assistant
University of Guelph
Douglas, W.A.B.
Director, Directorate of History
Dept of National Defence, Ottawa
Dowbiggin, William F.
Executive Sport Publications Ltd;
Publisher, Edmonton

Downey, R. Keith Principal Research Scientist Agriculture Canada Research Station Saskatoon

Doyle, Arthur T.
Political historian, Fredericton Doyle, Denzil J.

President, Doyletech Corporation

Ottawa Doyle, Richard

Editor, the Globe and Mail

Toronto

Doyon, Pierre Professeur d'histoire de l'art Université de Montréal

Drache, Sharon Writer, Ottawa
Drager, Derek C.
Writer, Edmonton
Drake, W.M.
Toronto

Draper, James A.

Dept of Adult Education

Ontario Institute for Studies in

Education, Toronto Draper, Wayne Environment Canada, Ottawa

Preisziger, Nandor Fred
Associate Professor of History
Royal Military College of Canada
Drinkwater, Kenneth F.

Marine Ecology Laboratory Bedford Institute of Oceanography Dartmouth, NS
Driscoll, Bernadette

Associate Curator of Inuit Art The Winnipeg Art Gallery, Winnipeg

Drolet, Jean-Paul Mining engineer, Ottawa Drover, Glenn Professor of Social Work

Professor of Social Work
University of British Columbia
Drummond, Ian M.
Professor of Economics
University of Toronto
Drummond, R. Norman
Associate Professor of Geography
McGill University
Dryden, Jean E.
Provincial Archives of Alberta
Edmonton

Edmonton Drysdale, Patrick D.

Lexicographer
Toronto & Abingdon, England
Dubois, Jean-Marie M. Professeur de géographie Université de Sherbrooke Dubro, James R.

Investigative Journalist
Norfolk Research Unit, Toronto
Ducharme, Léo
Professeur, Faculté de droit
Section de droit civil
Université d'Ottawa

Duchesne, Raymond Professeur d'histoire des sciences Télé-université, Université du Québec

Duchesneau, François
Professeur titulaire de philosophie
et d'histoire des sciences

Université de Montréal Duciaume, Jean-Marcel Professeur de littérature et civilisation québécoise University of Alberta Ducrocq-Poirier, Madeleine

Docteur d'Etat es lettres (littérature québécois) Université de Paris - Sorbonne Centre national de la recherche

Centre national de la recherche scientifique. France Duffy, J. Dennis Professor of English; Principal of Innis College University of Toronto Dufresne, M.R. Ex-Medical Director (retired) Pharmaceutical Industry Duley, Walter W. Professor of Physics York University Dulong Gaston

Dulong, Gaston
Professeur titulaire de linguistique
Université Laval

Dumont, Micheline Professeure d'histoire Université de Sherbrooke

Dunbar, Max
Professor of Oceanography
McGill University
Duncan, Graham W.

Secretary, Canadian Billiards & Snooker Referees' Association Willowdale, Ontario

Duncan, Neil J.

Special Lecturer in Mining

special Lecturer in Mining Engineering University of Alberta Dunlop, Marilyn E. Medical writer, Toronto Star

Toronto

Dunton, Davidson Fellow, Institute of Canadian Studies Carleton University
Duperreault, Jean R.

School of Human Kinetics
University of Ottawa
Dupont, Jean-Claude
Professeur d'ethnologie
Université Laval
Durocher, René

Professeur d'histoire Université de Montréal Dussault, Gabriel

Professeur agrégé de sociologie Université Laval Dyck, Noel

Associate Professor of Anthropology Simon Fraser University Dyer, Charles C.

Associate Professor of Astronomy
University of Toronto
Dykes, James Toronto

Eagle, John A.
Associate Professor of History
University of Alberta Eakins, Peter R.

Associate Professor of Geology McGill University

McGill University
Eaman, Ross
Assistant Professor of Journalism
Carleton University
Eastman, Harry C.
Professor of Economics
University of Toronto
Eber, Dorothy Harley
Writer, Montréal
Eccles, William John
Professor Emeritus

Professor Emeritus University of Toronto Eddie, Christine

Chercheure en communications, Québec Edwards, Oliver Edward Chemistry Division National Research Council of Canada Ottawa

Ottawa
Edwards, Peggy
Fitness consultant, Ottawa
Ehrhardt, Roger B.
North-South Institute, Ottawa
Eichler, Margrit
Professor of Sociology
Ontario Institute for Studies in

Education, Toronto Einarson, Neil Manitoba Culture

Heritage & Recreation, Winnipeg Elder, R. Bruce Lightworks, Toronto Elford, Jean Writer, Sarnia Elias, Peter Douglas

Prince Albert, Sask
Eliot, C.W.J.
Professor of Classics
Mount Allison University
Elliott, David R.
Historical contractor

Nanoose Bay, BC Elliott, James A. Research Scientist

Bedford Institute of Oceanography Dartmouth, NS

Elson, John A.

Professor of Geological Sciences
McGill University

Emery, George
Associate Professor of History
University of Western Ontario
Emmerson, Donald W.

Consultant, Ottawa Emmons, Douglas B. Food Research Institute

Agriculture Canada, Ottawa Emond, Maurice Professeur de littérature

Université Laval
Empey, William F.
Vice President & General Manager

Data Resources of Canada, Toronto English, John R. Professor of History

rrojessor oj History University of Waterloo Enkin, Murray W. Professor of Obstetrics & Gynecology, Clinical Epidemiology & Biostatistics McMaster University Enros, Philip C.

Toronto
Epp, Frank H.
Professor of History
Conrad Grebel College
University of Waterloo
Erb, Robert Bruce

Executive Vice President Canadian Automobile Association

Ottawa
Erskine, Anthony J.
Canadian Wildlife Service
Sackville, NS Evans, Brian L Professor of History University of Alberta

Fahey, Curtis Dictionary of Canadian Biography

Toronto Fall, Valerie J. Executive Director The Catholic Women's League of Canada, Winnipeg

Fallis, A. Murray
Professor Emeritus of Parasitology University of Toronto

Fankboner, Peter V. Associate Professor of Biology Simon Fraser University Farr, D.M.L. Professor of History Carleton University Farr, Dorothy M. Agnes Etherington Art Centre Queen's University Farrell, Fred Archivist Provincial Archives of New Brunswick Feder, Alison Professor of English Memorial University of Newfoundland Fedoroff, Sergey
Professor & Head of Anatomy College of Medicine University of Saskatchewan Fee, Margery Writer, Victoria Fehr, Kevin O'Brien Pharmacologist Addiction Research Foundation Toronto Feindel, William Montreal Neurological Institute Montréal Feldman, Seth R. Associate Professor of Film Studies York University Fenna, Donald Professor of Applied Sciences in Medicine University of Alberta Fennell, William O. Professor Emeritus Emmanuel College, Toronto Fenton, M. Brock
Professor of Biology Carleton University Fenton, Terry L.
Director, The Edmonton Art Gallery Edmonton Ferguson, Bob Author, Who's Who in Canadian Sport: Sports Writer, Ottawa Citizen, Ottawa Ferguson, Howard L. Director General Canadian Climate Centre Atmospheric Environment Service Environment Canada Downsview, Ont Ferron, Jean retion, Jean Professeur de biologie Université du Québec à Rimouski Fetherling, Doug Author, Toronto Field, George Institute of Law Research & Reform University of Alberta Field, John L. Historical consultant Niagara Historical Society Niagara-on-the-Lake, Ont Field, Richard Henning Independent curator & writer Halifax, NS Findlay, Leonard M. Professor of English University of Saskatchewan Fink, Howard R. Professor of English; Director, Radio Drama Project Concordia University Finklestein, Maxwell Parks Canada, Ottawa Farks Canada, Ottawa Finlayson, Douglas A. Graduate Studies in Geography University of Alberta Finn, Gérard Historien, Ottawa Fisher, Richard S.

Moncrieff Management Ltd., Montréal Fisher, Robin
Professor of History
Simon Fraser University Fisher, Stan C.

Canadian Handball Association
Sherwood Park, Alta Fitsell, John Walter (Bill)
Historian, International Hockey Hall
of Fame & Museum Kingston, Ont Fitzgerald, Patrick J. Professor of Law Carleton University Flaherty, David H. Privacy Project University of Western Ontario

Flanagan, Thomas Professor of Political Science University of Calgary Fleming, R.B. Graduate Student University of Saskatchewan Flitton, Marilyn G. Researcher, Vancouver
Fong, David G.
Mineral Economist
Mineral Policy Sector
Energy, Mines & Resources Canada Ottawa Foran, Maxwell School Principal Calgary Board of Education Forbes, Ernest R. Professor of History University of New Brunswick Forbes, R.E.
Industrial Commissioner Brandon, Man
Forbes, William B.
Executive Editor Canadian Printer & Publisher Maclean Hunter Ltd, Toronto Forbis, Richard G. Professor of Archaeology University of Calgary Forcese, Dennis P. Professor of Sociology & Anthropology: Dean, Faculty of Social Sciences Carleton University Ford, Anne Rochon National Field Director DES Action: Canada, Toronto Ford, Clifford Executive Secretary Canadian Musical Heritage Society Ottawa Ford, Derek C. Professor of Geography McMaster University Ford, Gillian Devonian Botanic Garden University of Alberta Ford, Susan Ballenford Architectural Books Toronto Forest, Bertrand Agricultural Consultant Roche Associés Ltêe, Québec Forrester, Ronald W. President Canadian Jiu-jitsu Association Oakville, Ont Forrester, Warren D.

Oceanographic consultant, Ottawa
Forsey, Eugene Alfred Retired senator, professor & trade union official, Ottawa Forsyth, Frank R. Horticultural consultant Berwick, NS Forsyth, Peter A Professor of Physics University of Western Ontario Fortin, Claire-Andrée Etudes québécoises Université du Québec à Trois-Rivières Fortin, Gérald Professeur, Institut national de la recherche scientifique INRS-Urbanization, Montréal Forward, Charles N Professor of Geography
University of Victoria
Forward, William F.
Research Associate
Science Council of Canada, Ottawa Foss, Brian F. Lecturer Dawson College, Montréal Foster, Franklin Kingston, Ont Foster, J. Bristol Ecological consultant, Victoria Foster, John E.

Associate Professor of History
University of Alberta
Foster, Michael K.
Iroquoian Ethnologist Canadian Ethnology Service National Museum of Man, Ottawa Foulds, Glenn B.

Fowke, Edith M. Professor of English York University Fowler, Marian Writer Shelburne, Ont Fox, Paul W.

Principal, Erindale Campus
University of Toronto Mississauga, Ont
Fox, Richard C.
Professor of Geology & Zoology
University of Alberta
Fox, Rosemary J. Vice-President Canadian Nature Federation; Director, Friends of the Stikine Smithers, BC Francis, Daniel Writer, Ottawa Francis, Diane The Toronto Star, Toronto
Frank, David
Associate Professor of History
University of New Brunswick
Frank, Julius F. Frank, Julius F.
Animal health consultant
Manotick, Ont
Franklin, Colin Athol
Director General
Applications Program
Dept of Communications, Ottawa Franks, C.E.S.
Associate Professor of Political Studies Queen's University
Fransen, David
Historian, Directorate of History Dept of National Defence, Ottawa Franson, Robert T. Associate Professor of Law University of British Columbia Frappier, Armand Retired director & consultant Institut Armand-Frappier Laval-des-Rapides, Qué Fraser, Kathleen D.J. Doctoral Student University of Western Ontario Fraser, Robert Lochiel Senior Manuscript Editor Dictionary of Canadian Biography Toronto Fréchette, Pierre Professeur d'économique Université Laval Fredeen, Howard Townley
Research Scientist. Animal Breeding (retired) Lacombe, Alta
Freedman, Benjamin
Associate for Bioethics, Westminster
Institute for Ethics & Human Values Institute for Ethics & Human Va London, Ont Freeman, Gordon Russel Professor of Chemistry University of Alberta Freeman, Mac Professor of Education Queen's University Freeman, Milton M.R. Henry Marshall Tory Professor University of Alberta Freeman, Minnie Aodla Writer, Edmonton Freeman, Roger D. Clinical Professor of Psychiatry University of British Columbia; Psychiatric Consultant Western Institute for the Deaf Freitag, Walter H.P. Freitag, Walter H.P.
Professor of the Church in Historic
Witness & Biblical Interpretation
Lutheran Theological Seminary Saskatoon The Globe and Mail, Toronto
French, Hugh M.
Professor of Geography & Geology University of Ottawa Frideres, James S.
Professor of Sociology
University of Calgary
Friesen, Gerald
Associate Professor of History
University of Maniloba
Friesen, Lames D. Friesen, James D. Professor of Medical Genetics University of Toronto

Director, History of McGill Project McGill University Fuerstenberg, Adam G.
Professor of English
Ryerson Polytechnical Institute Toronto Fulford, Robert Saturday Night magazine, Toronto Fuller, Anthony (Tony) M. Associate Professor of Rural Development University of Guelph University of uceiph
Fuller, George R.
Professor of Interior Design
University of Manitoba
Fuller, William A.
Professor of Zoology
University of Alberta
Fuller of Douglas H Fullerton, Douglas H.
Retired Chairman
National Capital Commission; Consultant & writer, Ottawa Furniss, Ian F. Economist, Ottawa Fyfe, Richard Environment Canada Canadian Wildlife Service Edmonton

Fyfe, William S.

Professor of Geology
University of Western Ontario Gadacz, René Robert Dept of Anthropology University of Alberta Gaffield, Chad Associate Professor of History University of Victoria Gagan, David Professor of History McMaster University Gagnon, François-Marc Professeur d'histoire de l'art Université de Montréal Gaizauskas, Victor Herzberg Institute of Astrophysics National Research Council of Canada Ottawa Galarneau, Claude Professeur d'histoire Université Laval Gale, Peggy
Independent curator, Toronto
Gall, Gerald L. Gall, Gelalu L.
Professor of Law
University of Alberta
Gallacher, Daniel T.
Curator of Modern History
British Columbia Provincial Museum Victoria Gallagher, Paul
Principal, Capilano College
North Vancouver Galloway, Strome
Writer, Ottawa
Ganapathy, Natarajan
Metric Commission Canada, Ottawa
Ganzevoort, Herman Ganzevoort, Herman
Associate Professor of History
University of Calgary
Gardner, David E.
Actor. director e theatre historian
University of Toronto
Gardner, Norman
President
CPCL - Condian Productivity CPCI - Canadian Productivity Consultants Inc, Ottawa Garrett, Christopher J.R. Professor of Oceanography Dalhousie University Garrett, John F.
Institute of Ocean Sciences
Sidney, BC
Gaskell, Jane Associate Professor of Education University of British Columbia Gauvin, Lise Professeur de littérature Université de Montréal Gauvin, M.J. Nonferrous Commodities Division Minerals & Metals Strategy Branch Energy, Mines & Resources Canada Ottawa Gayler, Hugh J.

Associate Professor of Geography
Brock University Geekie, Douglas A Director of Communications Canadian Medical Association, Ottawa

Frost, Stanley Brice