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Canada's computing industry continues to grow

The Canadian computer industry is a burgeoning sector of the Canadian economy that is moving towards becoming a major force on the world scene — both as user and supplier.

The products and services of the industry are affecting many other sectors of the economy as Canada enters the throes of a global information "explosion" associated with the rapid expansion in the use of computers. Technological advances promise to open up new business and consumer markets and the evolution of the market can be expected to continue at a rapid pace.

Canada's data processing industry has experienced a phenomenal growth. In 1982, Canadian computer industry revenues were approximately \$4.5-billion retail for computers and office machines, growing at a rate of about 20 per cent a year. In addition there was in excess of \$1.2-billion revenue from computer services.

Several hundred companies are directly engaged in generating computer equip-

ment sales. These companies supply a variety of products encompassing microcomputers, large mainframes, peripherals and operating software. The fastest growing segment of this sector involves the production and sale of microcomputers and related peripherals and software.

In the services subsector, the industry provides a wide range of systems design services, data processing by service bureaus, on-line data bases, consulting and custom software. Unlike the equipment industry, the Canadian service sector is dominated by Canadian-owned companies. The statistics for computer services are impressive. There are more than 1 400 companies directly engaged in services employing in excess of 20 000 people. At least 90 per cent of the companies are Canadian-owned and it is estimated that Canadians produce 82 per cent of the total service industry revenues. An average growth rate exceeding 20 per cent has been realized in recent years and shows no sign of abatement.

The Canadian market for computing



A version of the AES C20 made up of four work-stations connected to a central unit containing a microprocessor. Each of the four units can type up to 540 words a minute making the total output of the system 8 000 words a minute.



External Affairs
Canada

Affaires extérieures
Canada

equipment is largely furnished by imports, reflecting the dominant position of US-owned subsidiaries of multinationals in the Canadian hardware industry. In 1982 the value of imports reached \$3 billion, the bulk of which originated in the US. In a complementary manner, about 90 per cent or \$900-million worth of the output of domestic production was exported by the industry. In terms of world trade, Canada is the fifth largest import market and eighth largest exporter of computing equipment.

Canada's foreign trade levels in computer equipment have soared, mainly as a result of the high degree of rationalization taking place in the production of hardware by foreign-owned subsidiaries located in Canada. Due in part to government encouragement, Canadian plants of multinational firms have secured world-wide mandates for a particular product or product line. This has spurred the growth of a sizable production destined to meet international requirements. Recognizing the favourable economic environment and taking advantage of Canada's highly skilled labour force, a handful of US companies have elected to develop and manufacture new computer products in Canada.

Although the multinational companies do play an important part in this sector, there are a growing number of Canadian-owned firms which have established themselves successfully in the market. These companies have developed excellent capabilities in software, data communications and specialized hardware products, primarily in the terminal equipment and small business systems areas.

Innovative designs

Canadian-owned firms have generally chosen not to compete with multinationals in the production of general purpose computers. They have, instead, concentrated on the design of innovative products for which the need is not being met elsewhere. Generally, such products cover a wide range of applications and most incorporate the latest advances in microprocessors.

The following capabilities have met with particular international success:

- Canada's lead in the design and manufacture of word processing systems has received international recognition, with products sold in more than 80 countries. Suppliers are now moving into the word processor systems area and the integrated electronic office.
- A score of Canadian manufacturers of "intelligent" terminals export their pro-



Department of Communications

Telidon — an innovative design in Canadian computer technology.

ducts world-wide to serve a variety of needs. Some terminals are particularly suited to graphics, while others are oriented to computer-aided learning and industrial data collection. A special high resolution terminal has been developed for Telidon, Canada's contribution to the international interest in interactive television displays.

- Data communications products have been developed in Canada to link computers to data networks, including packet switching.

- Canadian suppliers are entering the field of CAD/CAM graphics with specialized terminals and software languages.

- Custom-designed on-line computer systems for banks, fleet management, hospitals, stockbrokers, mapmaking and retailing applications, employ latest advances in distributed data processing.

- Canadian manufacturers produce proprietary software packages in data base management, file retrieval, and "user friendly" software productivity tools.

- Desk-top microprocessors are available for financial management applications in small businesses.

- Specialized data bases have been generated by Canadian companies to provide quick reference to financial, legal and literary areas, economics, current events and other subjects.

- Canadian designed microcomputers are capable of receiving a wide variety of software services through cable television networks. With this capability, it is possible to create a communications network which will provide home computer users access to large computer data bases at a small cost relative to existing distribution

methods.

These are but a few examples of Canada's achievements in the computer industry; and Canadian companies offer a diversified range of capabilities covering all aspects of business, industry and government. Because of its proximity to the United States, the Canadian industry faces competitive challenges unmatched anywhere else in the world.

Anti-terrorist reward offered

The Canadian government is offering a reward of up to \$100 000 for information and/or evidence leading to the arrest and conviction of the person or persons responsible for the attempted assassination of Turkish diplomat Kani Gungor in Ottawa, on April 8, 1982 and the murder of Turkish military attaché Colonel Atilla Altikat, also in Ottawa, on August 27, 1982.

Two terrorist organizations, the Armenian Secret Army for the Liberation of Armenia and the Justice Commandos of the Armenian Genocide, have claimed responsibility for these crimes.

Prior to the crimes against the two Turkish officials, Canada was not seriously affected by international terrorism. By offering this reward, the Canadian government reasserts its unrelenting commitment to combat terrorism and to do everything in its power to bring the perpetrators of such acts to justice. The offer of this reward is consistent with the practice of other states in cases involving acts of terrorism.

Disarmament — Canada contributes to United Nations campaign

The Canadian government will contribute \$100 000 to the United Nations to further the objectives of the World Disarmament Campaign.

Two financial contributions totalling \$100 000 will promote research and public information activities being undertaken within the United Nations. The objective of the campaign is a more informed public throughout the world.

Canada will give \$70 000 to the United Nations to make possible wider circulation of the UN Disarmament Yearbook. One of the more ambitious projects undertaken by the UN Secretariat in recent years, the Yearbook is reference for those wishing information about arms control and disarmament issues of multilateral forums. In addition to providing a factual account of deliberations in the UN General Assembly and the UN Disarmament Commission, it also covers the work of the Committee on Disarmament, the multilateral negotiating body in Geneva.

To date the Yearbook has received limited distribution in a number of languages. Canada's contribution will help to reduce its price thereby widening its circulation and enhancing the work of the UN Department for Disarmament Affairs which has primary responsibility for the World Disarmament Campaign.

Canada will also provide \$30 000 to the UN Institute for Disarmament Research to facilitate its work in areas of special Canadian interest such as verification problems in current arms control and disarmament negotiations. Based in Geneva, the institute began to function on a temporary basis after the first UN Special Session on Disarmament (UNSSOD I) in 1978. The UN General Assembly last autumn passed a resolution, co-sponsored by Canada, which provided for an autonomous institution, working closely with the UN Department for Disarmament Affairs, to undertake independent research on disarmament and related security issues. Its activities are to be funded by voluntary contributions from states as well as private organizations.

Guidelines for the World Disarmament Campaign were agreed to last year at the second UN Special Session on Disarmament (UNSSOD II). Canada had a leading role in the search for consensus on the guidelines which also provide for

an annual review of its activities. Canada will continue to follow closely developments related to the campaign with a view to determining the most effective ways of further contributing to its objectives.

The Canadian statement on the World Disarmament Campaign at UNSSOD II highlighted the increased attention Canada has been devoting to research and public information activities in Canada in light of the recommendations in the final document of UNSSOD I. Canada attaches the greatest importance to activities under the World Disarmament Campaign being carried out in all regions of the world in a balanced, factual and objective manner.

Foundation furthers Canada-Asia relations

Prime Minister Pierre Trudeau has named a committee to organize and seek financial support for the Asia Pacific Foundation for Canada.

The founding committee, announced in Vancouver, March 10, will be chaired by John Bruk of Vancouver. The committee will also comprise 14 members from business, labour, academic and other interests.

The foundation was initially suggested at the first Pacific Rim Opportunities Conference held in 1980. It attracted support in business, academic and government circles as a means of promoting greater knowledge and increased awareness in Canada of Asia and the Pacific region.

Mr. Bruk was asked by the federal government to undertake a study of the feasibility of establishing a foundation. The report submitted last fall, incorporated the results of extensive interviews and research, including several major symposiums sponsored by universities to discuss the idea of a foundation.

Co-ordinating activities

The foundation, which would be somewhat removed from government, would serve to promote the relationship between Canada and its Pacific partners and would act as a body to co-ordinate Canadian activities in the region.

The federal government will cover the expenses of the committee and will provide funding on a matching basis with other levels of government and private contributions, for at least the first five

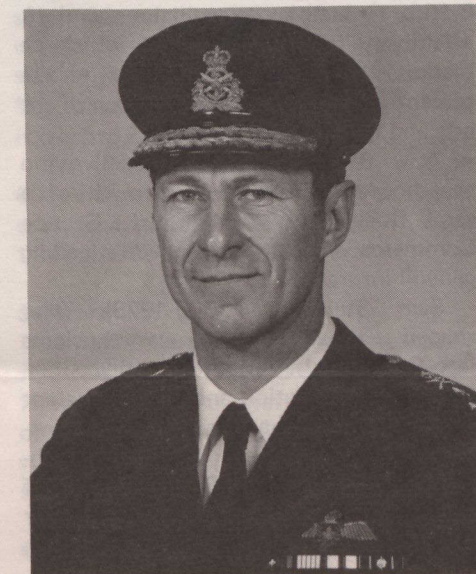
years of the foundation's operation.

In announcing the founding committee, Mr. Trudeau said the move to establish the Asia Pacific foundation reflected greater Canadian government attention on Asia and the Pacific region and helped raise Canada's profile in the Pacific Rim, one of the objectives of his recent Asian tour.

The Prime Minister said that the federal government was encouraging Canadian firms to expand links with the Association of Southeast Asian Nations through joint ventures and licensing agreements. The major element of this effort, he said, will centre on the CANEX 83 exhibition to be held in Singapore in June under the auspices of the industrial co-operation program of the Canadian International Development Agency.

In addition, the third Pacific Rim Opportunities Conference will be held in Calgary this October. It will focus on market opportunities in five major industrial and resource sectors for Canadian exporters.

New defence chief named



Lieutenant-General Gérard C.E. Thériault is to be promoted to the rank of General and will be appointed Chief of the Defence Staff, effective July 1, 1983. Lieutenant-General Thériault, who is currently Vice-Chief of the Defence Staff, will replace General Ramsey Muir Withers, who will have completed the normal three-year term of office. During his career, Lieutenant-General Thériault has served with various squadrons in France and West Germany.

Businessmen enter Hall of Fame

Six Canadian businessmen who have made outstanding contributions to the development of private enterprise in Canada have been named to the Canadian Business Hall of Fame.

The 1983 inductees are:

- Robert Carlton Scrivener (born 1914), retired chairman of Bell Canada and of Northern Telecom, whose leadership and foresight transformed these corporations into an international communications equipment giant and a world leader in electronic technology, respectively;
- Timothy Eaton (1834-1907), who revolutionized the retailing business by selling for cash at a fixed price, backed by the pledge "goods satisfactory or money refunded", to build one of North America's largest department stores;
- Izaak Walton Killam (1885-1955), who built his financial empire by developing pulp and paper and hydroelectric power companies from Newfoundland to British Columbia, including Calgary Power Limited and Mersey Paper in Nova Scotia;
- Leon J. Koerner (1892-1972), who revolutionized the forest industry in British Columbia by utilizing hemlock effectively for the first time, which he marketed as Alaska Pine. He was a philanthropist and generous patron of the arts and learning;
- T.A. St-Germain (1874-1956), who spearheaded the dynamic growth of a small Quebec insurance firm, Le Groupe Commerce, into one of Canada's leading general insurance firms; and
- Sam Steinberg (1905-1978), who shaped a small family grocery business into Steinberg Incorporated, a diversified Canadian corporation and was a constant innovator and humanitarian.

Junior Achievement of Canada established the Canadian Business Hall of Fame in 1979, with the intent to honour leaders both living and from the past. Those currently occupying active executive positions do not qualify, because their books are still open. Selection of the inductees to the Hall of Fame is made by a board of senior editors from major Canadian publications across the country.

The Junior Achievement organization aims to provide young Canadians with an opportunity to learn about Canada's free enterprise system and to achieve a better understanding of how business operates. More than 11 000 teenagers in 67 communities are involved in Junior Achievement.

Canada pledges to double aid to the Caribbean

Canada will double its aid to the Caribbean region over the next five years, Prime Minister Pierre Trudeau assured Commonwealth Caribbean heads of government at a meeting held in St. Lucia, February 20-21.

Participating in the talks, in addition to Canada, were the heads of government of Anguilla, Antigua and Barbuda, The Bahamas, Barbados, Belize, the British Virgin Islands, Dominica, Grenada, Jamaica, St. Lucia, St. Kitts-Nevis, Trinidad and Tobago and the Turks and Caicos Islands. St. Vincent and the Grenadines were represented at the ministerial level, while Montserrat was represented by its financial secretary. Representatives from the Caribbean Community and Common Market (CARICOM), the Organization of Eastern Caribbean States, the Caribbean Development Bank and the Commonwealth Secretariat also attended the talks.

The Commonwealth Caribbean is already the largest *per capita* recipient of Canadian foreign aid. In 1981, former External Affairs Minister Mark MacGuigan, announced relations with the Caribbean countries would become a priority and announced a commitment that Canada would double its development assistance to the area over the next five years. Canadian aid to the region is expected to reach \$350 million during the period 1982-87.

During their discussions the leaders focused on political relations, trade,

development assistance, investment and tourism, as well as on the situation in the Caribbean, on political developments in the Hemisphere, and on the severe problems facing the world economy. While in St. Lucia, Prime Minister Trudeau held separate meetings with some Caribbean leaders.

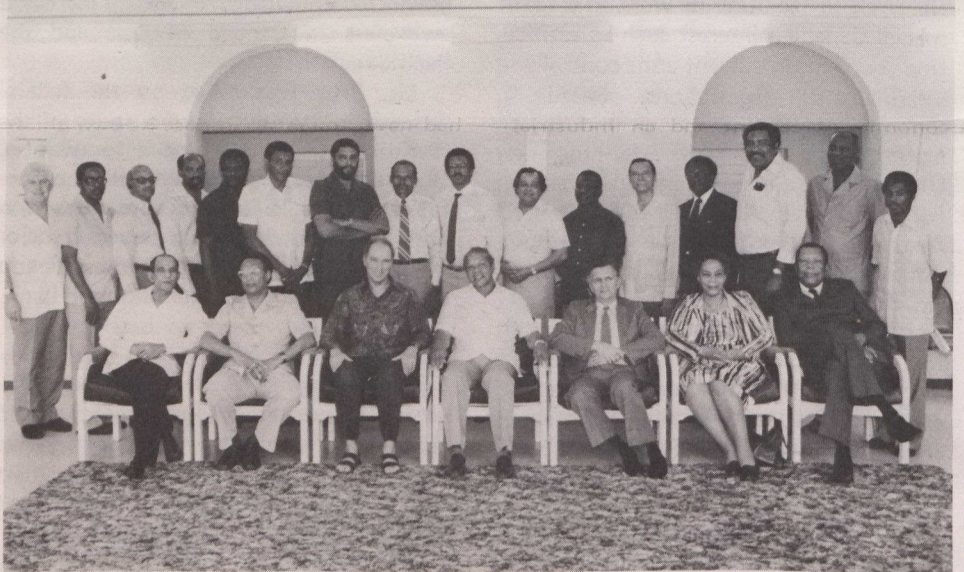
In remarks to the meeting, Mr. Trudeau told the heads of government that Canada prefers to "let countries choose their own paths for development. If they keep their social and humanitarian obligations to their people in the forefront of their actions they will have Canada's help. If they work to meet the real needs of their people they will have our support," he said.

Co-operation stressed

"The historic ties, the cultural traditions, the trading links and the extensive human contacts all form the basis on which we can build to encourage greater economic and political co-operation that will benefit each state represented here, including Canada," said Prime Minister Trudeau.

"Consistency in our relationship over time and among programs is a goal for all of us," said Mr. Trudeau. He added that "Canada is a friend for all seasons — not only the Canadian winter".

In addition to sea-trading links dating back to the seventeenth century, Canada's presence in the Caribbean region has been evident in tourism, foreign aid and



The heads of government from the Commonwealth Caribbean and Canada pose for photo during the meeting in St. Lucia. Third from the left is Canadian Prime Minister Pierre Trudeau and seated on his left is the host of the meeting, St. Lucia's Prime Minister John Compton.

Bob Cooper



Heads of government from the Commonwealth Caribbean and Canada at the talks.

private investment. Canadian preferences were first offered on selected West Indian exports in 1898 and have been extended so at present 95 per cent of all Commonwealth exports enter Canada duty-free and of the remaining 5 per cent most enjoy preferential tariff treatment.

The heads of government stressed the importance of investment in the Caribbean economies and of improved access to markets for the products of the Caribbean. They noted the opportunities for trade and investment available under the 1979 Canada-CARICOM Trade and Economic Agreement and indicated that areas for improvement should be pursued at the next meeting of the Canada-CARICOM Joint Trade and Economic Committee to be held this year in Ottawa.

The Canada-CARICOM Trade and Economic Agreement and an Industrial Co-operation Protocol have led to new approaches to industrial development over recent years.

Canadian input in the Caribbean in this area has been channelled through the industrial co-operation program of the Canadian International Development Agency (CIDA) which will sponsor an exhibition of Canadian products in the food and energy sectors in Port of Spain, Trinidad, April 19-21. Fifty Canadian firms will display their expertise and entrepreneurial skills in the CAN-TEC 83 Caribbean exhibition. The exhibition is part of an ongoing program by CIDA to hold transfer of technology exhibitions and seminars in a number of countries.

The Canadian industrial co-operation program makes financial contributions to

projects in the Caribbean that: provide information on industrial co-operation opportunities in a readily usable format; facilitate contacts between Canadian businessmen and their Caribbean counterparts; involve pre-investment studies by Canadians; assist Canadian companies in overcoming special problems; increase the developmental impact of Canadian business ventures; assist technical, business and other organizations providing services or activities relating to the objectives of the program; and assist selected developing countries to improve their capacities for industrialization.

Focus on Caribbean needs

During their talks in St. Lucia, the Caribbean leaders said they were pleased that Canada in its relations with the region had never sought to impose its own philosophy and perceptions on Commonwealth Caribbean countries, but had sought to respond to the needs and priorities of the countries themselves.

They also expressed satisfaction that the Canadian aid program promotes efforts at regional integration and co-operation and supports multilateral regional institutions such as the Caribbean Development Bank, the Caribbean Community Secretariat, the University of the West Indies and similar institutions. The heads of government also said they welcomed the establishment of an annual small projects assistance fund (amounting to \$150 000 in 1983-84) for the CARICOM Secretariat.

The Caribbean leaders expressed the hope that Canada would expand its sup-

port to organizations such as the Caribbean Food Plan. The Caribbean Research and Development Institute, the West Indies Shipping Corporation, the Leeward Island Air Transport Service and the Caribbean Examinations Councils. They expressed a desire for assistance in the region to rationalize air and sea transportation. The leaders said they welcomed the assistance being given by Petro Canada International in helping to develop hydrocarbons both onshore and offshore the Caribbean.

Oil rig disaster simulated

Canada's National Research Council is testing scale models of the *Ocean Ranger*, the ill-fated oil rig which sank February 1982, killing all 84 crew members.

In an effort to determine the cause of the disaster, the NRC and Norwegian experts have built several models of the rig at the NRC laboratories in Ottawa under a \$700 000 contract to the Royal Commission on the *Ocean Ranger* Marine Disaster.

Details of testing at the NRC's hydraulics laboratory and National Aeronautical Establishment are being kept secret because the data collected will be used as evidence at the royal commission's public hearings on the disaster. NRC's portion of the testing contract is worth \$230 000.

Researchers plan to subject a large 600-kilogram model of the rig to rough seas generated in a totally rebuilt wave tank at NRC's hydraulics laboratory.

Seaworthiness tested

In a related experiment, the researchers will also subject a model of the rig to different wind and wave conditions to obtain more general data about the seaworthiness of oil rigs and other "semi-submersible" vessels.

"It will be a landmark in testing because it's the most intensive study of a semi-submersible ever," said Earl Dudgeon, director of the NRC's mechanical engineering division.

The Norwegian segment of the testing will be done at the Hydraulic Laboratories in Trondheim, Norway, giving researchers two separate sets of data to work with. Trondheim was chosen because it had specialized hydraulic equipment necessary for the tests. Norway — a major supplier of offshore rigs and structures — has a world-wide reputation for testing them.

Bob Cooper

Ontario firm flying high with scaffolding

In less than two decades, an Ontario firm has become one of North America's largest manufacturers and distributors of suspended scaffolding.

Swing Stage was founded in 1962 as a two-man operation working out of a small, wood-frame garage in northwest Toronto. The company now has branches in Montreal, Vancouver and Los Angeles and employs 175 staff. It has gone from renting manually-operated aluminum stages to providing a complete range of permanent and portable window-maintenance systems, customized to individual needs, that it manufactures, supplies, installs and services.

"Seventy-eight per cent of our Canadian production is now exported," said company president Dean Dunlop, "with 70 per cent going to the United States. Sales have risen from \$3.8 million in 1977 to \$11 million in 1981. I feel a lot of this success has to do with our safety-conscious approach."

Safety stressed

Swing Stage has placed a great emphasis on safety in the systems it has designed, many of which have been unusual and have required considerable ingenuity in

developing proper access.

To maintain an excellent safety record, the company has always worked closely with architects and engineers, especially on permanent window-washing installations.

"Many of the unique safety features we've developed are now being specified for new buildings," Mr. Dunlop said.

Swing Stage's list of accomplishments is long. In addition to those already mentioned, it installed the longest suspended stage in Canada — 20 metres — on a building in Montreal, and all of the window maintenance equipment for the Mirabel Airport in Montreal, one of the longest glass-covered surfaces ever designed.

At its twentieth anniversary celebration last year, the firm held its own international trade exhibition which attracted about 700 participants from Canada, the US and Europe. At the same gathering, Mr. Dunlop announced that Swing Stage had been awarded a multi-million-dollar contract with the US Air Force, three other major building contracts in the US and another three in western Canada.

The firm also announced it would be forming an association with a major

British company that will allow Swing Stage to service the oil and petrochemical industry. Most of the equipment needed to supply these foreign ventures will be manufactured domestically.

As the buildings that Swing Stage services get higher and higher, so do the company's sales. The firm's manufacturing division had contracts in 1981 amounting to less than \$6 million. Contracts for 1982 accounted for about \$14 million.

(Article from Ontario Business News, June 1982.)

Canadian studies office marks first year of service

The Association for Canadian Studies in the United States (ACSUS) celebrated the first anniversary of its national secretariat in Washington, D.C. on March 1.

During the past year, membership, now approaching 900, has increased by more than 50 per cent. While the majority of the members are academics, there has been marked growth on the part of lawyers, consultants and corporate executives involved in Canada-US relations.

ACSUS will hold its biennial conference in Rockport, Maine from September 29 to October 1. The program will include over 50 sessions representing all areas of Canadian studies, ranging from trade, energy and foreign policy to literature, culture and communications.

Survey conducted

The association is also conducting a nation-wide survey to determine the extent of Canadian studies in colleges and universities throughout the United States. Questionnaires have been sent to each university and four-year college as well as to every ACSUS member. The results will be published in May. The nation-wide study, the first of its kind, is being made possible by a grant from Northern Telecom Limited of Montreal.

The association publishes a biannual newsletter, *Canadian Studies Update*, as well as a triannual journal, *The American Review of Canadian Studies*. Through regular mailings, members are informed of Canadian studies activities throughout the United States.

For further information about ACSUS, please contact: Dr. Ellen Reisman Babby, Executive Officer, Association for Canadian Studies in the United States, 1776 Massachusetts Ave., N.W., Washington, D.C. 20036.

Stamp marks communications year

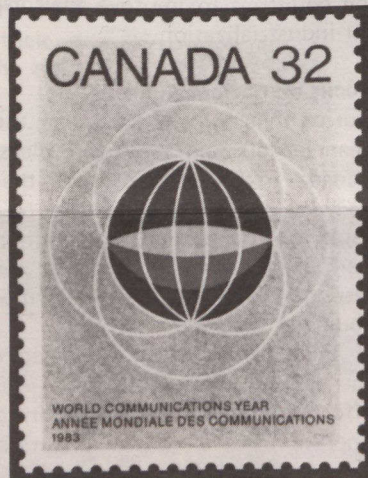
Canada Post has issued a postage stamp in honour of World Communications Year.

"The postage stamp is probably the most widely used means of communication, and it is only fitting that a Canadian stamp issue be part of World Communications Year activities," said André Ouellet, Minister responsible for Canada Post.

"The postal service plays a vital role in communications and contributes a great deal to making the goals of World Communications Year a reality," R. Michael Warren, President of Canada Post Corporation, added. "The country's postal service helps to reduce isolation, promote commerce, connect governments and people, and facilitate the exchange of ideas."

The World Communications Year stamp was designed by Raymond Bellemare of Montreal. The design features a symbolic multicolour globe surrounded by orbits, suggesting the universal nature of communication and the impact of technical innovation.

In 1981 the General Assembly of the United Nations declared 1983 World Communications Year: Development of Communications Infrastructures. By doing so, the assembly has officially recognized the fundamental importance of communications infrastructures to the economic and social development of all countries. The assembly views World Communications Year as "the beginning of a new era where every nation will be in a position to benefit from the services provided by equitably and harmoniously developed communications infrastructures".



World Music Days a first

World Music Days will be held in Toronto and Montreal in 1984 by the International Society for Contemporary Music.

The Canadian Music Council said that, during the observance, held in Canada for the first time in the society's 61-year history, special concerts will feature music chosen by an international selection committee. Six Canadian compositions have been submitted for performance at this year's festival in Denmark.

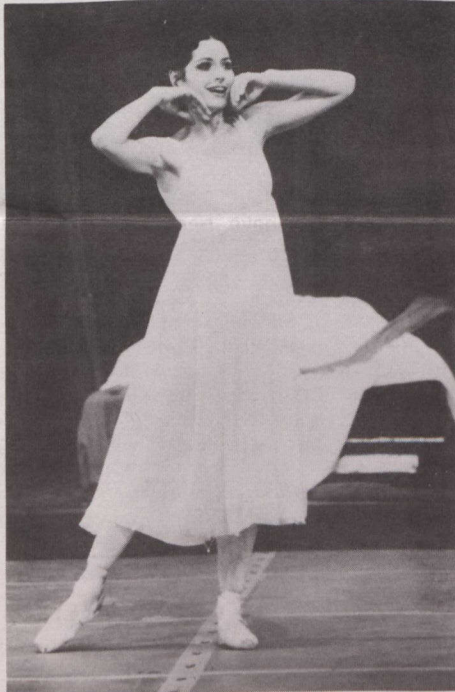
Television program features prima ballerina

Prima ballerina Veronica Tennant, who performs with the National Ballet of Canada, was the subject of a program recently broadcast by the Canadian Broadcasting Corporation.

Veronica Tennant: A Dancer of Distinction was directed by Carol Moore-Ede and was part of CBC-TV's *Portraits* series.

The documentary pays tribute to Miss Tennant, an internationally acclaimed Canadian artist. She is one of Canada's foremost dance-actresses, a children's novelist and is actively involved in many other art forms.

The program showcases the interpretive powers and technical virtuosity of



The National Ballet of Canada's Veronica Tennant in a scene from Romeo and Juliet.

Miss Tennant, while tracing her development from a young girl determined to become a ballerina, to her position today as a dancer of international stature. It includes interviews and performances with such dancers as Eric Bruhn, Anthony Dowell, Peter Schaufuss and Frank Augustyn.

Interwoven with these elements, and forming the backbone of the program, are sequences from many of the ballets, classical and modern, in which Miss Tennant has starred. These include sequences from *The Dream*, *Mad Shadows*, *Giselle*, *Washington Square* and *Romeo and Juliet*. Her dancing partners include Anthony Dowell, Peter Schaufuss, Frank Augustyn, Thomas Schramek, Kevin Pugh and Raymond Smith.

As well, the program reveals the multifaceted nature of Miss Tennant's interests and her sense of fulfilment in both her professional and domestic life.

NFB honoured in Hawaii

The artistry of the National Film Board of Canada (NFB) is the subject of a three-month film festival that began last month in Hawaii.

The festival, *Hawaii Celebrates 40 Years of Canadian Films*, presents a series of programs taken from the rich mosaic of documentary and animated works produced at the NFB during the past 30 years.

The festival, being sponsored by eight organizations, opened with a special screening and reception at the Honolulu Academy of Arts on February 2.

"The academy takes special pride in presenting the world of filmmakers from the National Film Board of Canada during this Hawaii Film Festival, arranged with the NFB and other organizations," said George Ellis, director of the Honolulu Academy of Arts. "This collaboration," he said, "has made possible the statewide exposure of these documentary and animated works and will contribute significantly to a broader awareness of film as an art form as well as a greater appreciation of this world-renowned Canadian institution."

In addition to the Honolulu Academy of Arts, films are being screened at the East-West Centre and at a number of colleges. A program of animated films will also tour the neighbour islands.

Since its founding in 1939, the board has earned an international reputation as

one of the most innovative contributors to the art of filmmaking: *cinéma vérité* techniques, revolutionary forms of animation, improvements to camera equipment, multi-screen films, new printing processes — all have been developed at the National Film Board in the course of producing thousands of films.

Broad mandate

According to its mandate the NFB's responsibility is to "interpret Canada to Canadians and to other nations". With that broad responsibility, the subjects of NFB films are almost too numerous to categorize. There are films on politics, science, education, psychology, social change, health, men, women, children... seen regularly in theatres, on television screens and in classrooms across the world.

The film board has received more than 2 000 prizes for excellence in international film festivals, including six Oscars. In 1979, the National Film Board was honoured by the Academy of Motion Picture Arts and Sciences "in recognition of 40 years of superior artistry in motion pictures, of leading the way in the development of the documentary film, of guidance and inspiration to a generation of young filmmakers who are now among the world's professionals, and of entertaining the world with cinema images of beauty, grace and intelligence".

Canadian pianist receives posthumous awards

Pianist Glenn Gould received three honours posthumously from the United States National Academy of Recording Arts Science's at the recent Grammy awards ceremony held in Los Angeles.

Mr. Gould was awarded two Grammys in the classical category for his recording of Bach's *The Goldberg Variations*, which took top honours for best album and best instrumental soloist. In addition, his 1956 recording of *The Goldberg Variations* was also given a Hall of Fame award for recordings made in the pre-Grammy era.

Mr. Gould, who was from Toronto, died in October at the age of 50. He was a celebrated classical pianist with a repertoire that included hundreds of pieces by a wide range of composers. His foremost interests were the works of Johann Sebastian Bach and the twentieth-century composer Arnold Schoenberg.

News briefs

Legislation to amend the National Energy Board Act, was proclaimed on March 1. The amended legislation contains new measures designed to protect the rights of landowners affected by the construction of pipelines across Canada and power lines under federal jurisdiction. Under the amendments, new expropriation procedures give landowners the right to local public hearings before their land can be expropriated. The new legislation, Bill C-60, also provides new procedures of negotiation and arbitration to settle questions of compensation arising between companies and landowners.

The Manitoba government has established a new wildlife refuge on 64 hectares of private land donated to the province by Alexander MacPhail of Shoal Lake, Manitoba. The land offers a rich mixture of woodland, marsh and cultivated fields which the province will manage as the John MacPhail Wildlife Refuge. A variety of grasses will be planted on cultivated lands to protect the soil and offer food and cover to a host of wildlife species. First homesteaded by John MacPhail in 1882, the property provides habitat for grouse, deer, ducks and a wide range of small birds and mammals.

Northern Telecom Limited's US subsidiary, Northern Telecom Incorporated and Data General Corporation have announced an agreement to develop an advanced capability for interconnecting Data General's Comprehensive Electronic Office (CEO) system work stations through Northern Telecom's SL-1 digital business communications system (PBX). Under the agreement the companies will also develop products to enable Northern Telecom's Displayphone to function as a work station in Data General's CEO office systems network.

The federal government has announced a new policy allowing persons receiving unemployment insurance benefits to take full-time language training if the training is required to obtain employment. Those taking advantage of the new policy will receive benefits during training and for up to six weeks while seeking employment following their courses. The average training course will last about 26 weeks.

TransCanada PipeLines has reported net income applicable to common shares for 1982 increased 28 per cent to \$161.1 million from \$125.5 million in 1981. Earnings per share for the year increased

by 27 per cent to \$3.62 from \$2.85 the year before.

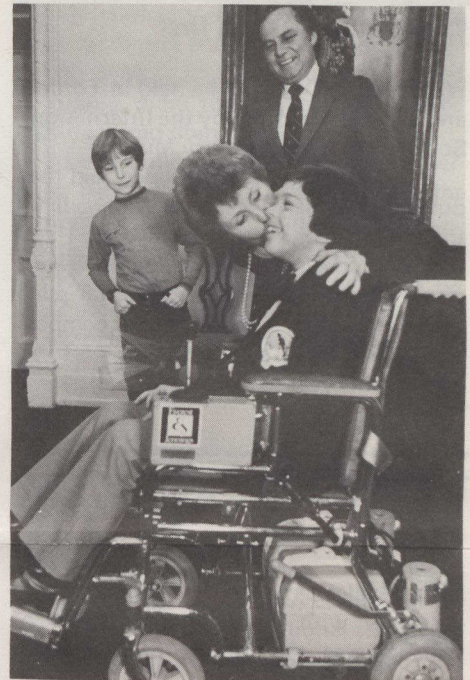
Farm Credit Corporation Canada has undertaken its first venture in the international capital markets by issuing \$50-million worth of notes at 12.125 per cent due March 31, 1983. The notes are non-callable prior to maturity and have been listed on the Luxembourg Stock Exchange. Since the notes were issued in Canadian funds no hedging was required. The issue is lead-managed by Wood Gundy Limited and Société Générale de Banque S.A. The co-managers are an international group of banks.

Nine Ontario manufacturers recently made a ten-day general trade mission to Colombia and Venezuela. During their stay, mission members met with potential South American buyers for health care products and mining and transportation equipment. The mission was organized by the Ontario Ministry of Industry and Trade.

Cyclist Mike Flynn of British Columbia completed a cross-Canada bike trip on February 28 by wading in the Atlantic Ocean at Halifax, Nova Scotia. Flynn, who started his trip January 6, beat his 1980 cross-Canada record of 65 days and raised funds for the Kidney Foundation.

The Export Development Corporation (EDC) has signed three financing agreements totalling \$4.4 million (US) to support sales of Canadian goods and services to Czechoslovakia, Peru and the United States. They are: \$2.85-million (US) loan agreement to support the sale of two DHC-6 Series *Twin Otter* aircraft with spares to FundSources International, Incorporated of Washington, D.C. by the De Havilland Aircraft of Canada Limited of Downsview, Ontario; a \$1.5-million (US) allocation under a line of credit agreement with Ceskoslovenska Obchodni Banka, A.S. of Czechoslovakia to support the sale of bonnet valves including spare parts to Strojexport of Czechoslovakia by Velan Incorporated of Montreal; and a \$83 300 (US) "forfeiting" of six promissory notes to support the sale of a mining vehicle to Compania Minerales Santander Incorporated of Peru by Jarvis Clark Company Limited of Burlington, Ontario.

Carling Bassett of Toronto recently won the \$50 000 Ginny tennis tournament of central Pennsylvania title by beating Sandra Collin 2-6, 6-0 and 6-4. Bassett, the 15-year-old Canadian champion, was playing in only her third professional tournament.



The Citizen

Eddie Jacobi, an 11-year-old cerebral palsy victim from Niagara Falls gets a congratulatory kiss from Lily Schreyer for being chosen the 1983 "Timmy" for the Easter Seal campaign. Looking on are Governor-General Edward Schreyer and the Schreyers' son Toban.

Forty-four graduates of the University of New Brunswick have formed a new alumni chapter in Hong Kong. The chapter — the first such one outside North America — includes graduates from all disciplines and classes.

The elderly, children and disabled are the focal points of the latest group of research projects approved by Health and Welfare Canada. In all, 23 Canadian health researchers will share a total of \$1.34 million in federal research funds made available through the national health research and development program.

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