

Canada Weekly

Ottawa
Canada

Volume 12 No. 16
April 18, 1984

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TORONTO INTERNATIONAL FESTIVAL



For one entire month — beginning in June — Toronto will become the world capital of music and dance.

The Toronto International Festival, the biggest international cultural event ever held in Canada, will present over 175 performances by many of the world's finest musicians, singers and dancers in concert halls, theatres, churches and parks, throughout the city. It is part of the celebrations honouring Toronto's one-hundred-and-fiftieth birthday and the bicentennial of the province of Ontario.

There will be attractions for people of all ages, tastes and pocket-books. Canadian artists will share the limelight with some 3 000 artists from 17 countries including the United States, the Netherlands, England, Wales, Japan, Spain, India, China, France, Ghana,

South Korea, Austria and West Germany, many of whom have never before appeared in Toronto.

Participants

Among the Canadian and international artists and groups participating in the festival are: the Metropolitan Opera; the Toronto Symphony; Ottawa's National Arts Centre Orchestra; the Montreal Symphony Orchestra; the Canadian Opera Company; the National Ballet of Canada; Germany's Hamburg Ballet and Tanztheater Wuppertal — Direction Pina Bausch; the Toronto Dance Theatre; the Dance Theatre of Harlem; the Mormon Tabernacle Choir; the Toronto Mendelssohn Choir; India's Kathakali Dance Drama; Sankai Juku, a post-war dance company from Japan; Ontario's Nexus and Quebec's Repercussion; the Froncy-syllte Male Voice Choir of Wales; flamenco guitarist Paco de Lucia from Spain; Canada's Anton Kuerti and Maureen Forrester; New York's Bobby Short; Trinidad and Tobago's Catelli Trinidad All Stars Steel Orchestra; Shanghai Chamber Ensemble; Oscar Peterson and the Modern Jazz Quartet.

Special commissions

In recognition of the artistic contribution that has been made by the National Ballet of Canada and the Canadian Opera Company (COC), the festival has commissioned both companies to produce new works specially for the occasion. The National Ballet will present its *première* of John Cranko's ballet *Onegin* on June 14-17 and the COC's Canadian *première* of Benjamin Britten's opera *Death in Venice* will be held June 24-30.

The opening celebrations will be held at Ontario Place June 1, with a Celebration Concert featuring Maureen Forrester, an 800-voice choir with singers drawn from leading choirs throughout the province, including the Toronto Mendelssohn Choir, the Canadian Children's Opera Chorus and the Toronto Children's Chorus.

One of the top attractions will be the



External Affairs
Canada

Affaires extérieures
Canada

appearance of New York's prestigious Metropolitan Opera, which is celebrating its one-hundredth birthday this year. The company, visiting Toronto for the first time in almost 20 years, will be conducted by James Levine. Stars such as Plácido Domingo, Renata Scotto, Marilyn Horne, Sherrill Milne, Jon Vickers, Cornell MacNeil and Leona Mitchell will present seven different operas in six days, including Benjamin Britten's *Peter Grimes*, Zandonai's *Francesca da Rimini*, Verdi's *Ernani*, Wagner's *Die Walküre*, Mozart's *Abduction from the Seraglio*, Puccini's *Tosca* and Handel's *Rinaldo*.

The Hamburg Ballet will make its Canadian debut with three ballets: *A Midsummer Night's Dream*, Mahler's *Third Symphony* and *Saint Matthew Passion*, all choreographed by artistic director John Neumeier.

Dance theatre

The festival will also feature dance theatre from around the world. The Kathakali Dance Drama, a unique traditional dance form, will dramatize stories drawn from Hindu mythology in colourful costumes and elaborate makeup.

The Japanese dance company Sankai Juku will perform two programs: *Kinkan Shonen*, a young boy's dream of the origins of life and death, and *Jomon Sho*, a homage to pre-history.

The Ottawa-based National Arts Centre Orchestra will perform an all-Mozart program under the baton of its principal conductor, Franco Mannino, while the Montreal Symphony Orchestra, celebrating its fiftieth birthday this year,



Virtuoso pianist Oscar Peterson.



Al Simmons will perform his vaudeville acts in streets, squares and parks.

will make its Roy Thomson Hall debut. With conductor Charles Dutoit at the helm, the orchestra will perform two evening concerts, one of which will include Berlioz's *Symphonie Fantastique* and the other, Stravinsky's *Le Sacre du Printemps*. In addition, the ever-popular Canadian Brass will perform a world première for the festival combining chamber music, ragtime, rock, jazz, opera and classical music.

Festival highlight

One major highlight of the festival will be the Toronto Symphony, which, together with the Toronto Mendelssohn Choir and soloists Florence Quivar, James Morris and Mark DuBois, will bring to



Toronto's Nexus (above) will join with Montreal's Repercussion in Supercession in two concerts at Roy Thomson Hall.

life Berlioz's *Romeo and Juliet*. The Mendelssohn Choir will also perform Handel's oratorio *Alexander's Feast* and the 340-voice Mormon Tabernacle Choir will make its first appearance in Toronto since 1969 performing two different programs, one of popular music and the other featuring classical choral music.

Great percussion event

The festival will also feature one of the great percussion events of the century when Toronto's Nexus and Montreal's Repercussion join forces in *Supercussion* at two concerts in Roy Thomson Hall. There will be bright nights of jazz when Canada's virtuoso pianist, Oscar Peterson, the Modern Jazz Quartet and Jazz Guitar Greats, perform in a concert spanning the whole of jazz guitar spectrum, with a sextet of jazz guitarists Ed Bickert, Charlie Byrd, Herb Ellis, Marty Grosz, Barney Kessel and Joe Pass.

One of the Caribbean's finest steel bands, the Catelli Trinidad All Stars Steel Orchestra will give two concerts at Massey Hall, under conductor Gerry Jemmott, while the Shanghai Chamber Ensemble will create music from China, an exotic concert of traditional Chinese and Western music, performed on authentic Chinese instruments.

In addition to these major events, there will be 28 concerts held in churches and synagogues across the city at lunchtime and at twilight, and free concerts in parks.

The festival also plans to offer seminars, lecture demonstrations and performance workshops.



Leading ballerina Karen Kain.

Computers for European market

Northern Telecom has announced a new family of computer and office information systems for the European market, called the Vienna Family. It combines a fully compatible range of hardware, the most universal communications standards and the most widely used operating systems and software languages.

The Vienna Family, built around a choice of three powerful data processing units, includes a range of intelligent terminals and a selection of printers and other peripherals, all linked by high-speed local and wide area communications networks.

The system was developed and is built in Europe by Northern Telecom Data Systems, a subsidiary of Northern Telecom plc in London, England. It will meet the demands of users in office automation, data processing, personal computing and local and remote communications.

The new line incorporates three shared-resource computers with compatible hardware and software; a multi-function terminal available at four levels of capability, including a high-resolution colour display; a range of seven printers including high-speed, letter-quality, and



The Vienna multi-function terminal has a choice of black and white or colour screen.

ink-jet models; and a choice of magnetic disk storage.

Multi-function terminals within the Vienna Family of systems are available now, and shipments of shared-resource computers will start in June.

The Vienna Family of systems adheres to Northern Telecom's OPEN World approach (see *Canada Weekly*, special issue January 1984). They are built around industry standards in communications and emerging industry standards in operating systems and software languages.

"The Vienna systems adopt an Intel standard in processor chips and a twin MS-DOS/Xenix standard in operating systems. Communications standards are based on the ISO (International Standards Organization) model for world-wide communications standards, including support of the X.25 protocol," said Barry Eames, vice-president, Europe. "Just as important, the Vienna Family includes support of SNA (Systems Network Architecture) which makes it compatible with the IBM environment," he added.

Finally, local Vienna systems are linked by a local area network. Applications portability is ensured through a common language standard.

As part of the Vienna Family, Northern Telecom also announced a processing unit that will enable users of existing Northern Telecom distributed data processing systems to have access to Vienna functions and capabilities.

There is almost unlimited flexibility in the way in which Vienna systems can be

configured, giving system sizes and functions that range from "stand-alone" personal computing to national and international networks. Prices start at \$5 000 (US) for a multi-functional terminal.

The development of the Vienna Family is part of a major Northern Telecom expansion of its operations in Europe. The company recently announced the establishment of a product development centre in Hemel Hempstead, in Britain, as well as a new manufacturing facility there. Northern Telecom data systems, with an installed base of more than 4 200 systems in Europe, operates from 60 offices and service centres in nine European countries.

Northern Telecom, the second largest designer and manufacturer of telecommunications equipment in North America and sixth largest in the world, employs more than 39 000 people throughout the world, has research facilities and 46 plants in Canada, the United States, Britain, the Republic of Ireland, Malaysia and Brazil.

First summer institute in China

The University of Victoria (UVic) has established Canada's first Summer Institute for studies in China at East China Normal University (ECNU) in Shanghai. UVic and ECNU, which have a special exchange relationship, are involved in several joint research projects in education.

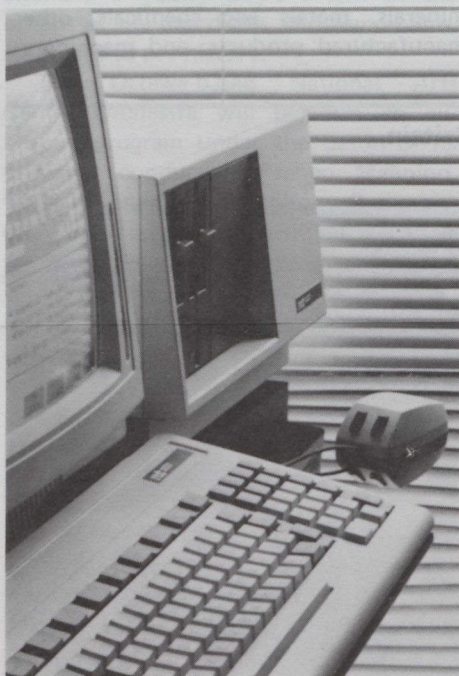
The institute is offering UVic credit courses in Chinese language studies from May 11 to June 29, and education and society in China from July 1 to August 21.

Educators, students and anyone interested in Chinese education, society or language can register for the institute. Those not qualified to receive UVic credits can take the programs as non-credit students. All registrants will live in residence at ECNU.

"It's a marvellous deal for anyone interested in China," says Dr. Jan Walls, director of UVic's Centre for Pacific and Oriental Studies.

"We welcome people who wish to start at the beginning in the Mandarin language program," he said. "Those with a first-year or second-year university level of learning the language will be given a placement test upon arrival at ECNU and will be placed at the appropriate level."

The 20 Canadians chosen will attend classes at ECNU five-days a week for seven weeks.



Close-up of the Vienna Multi-function terminal showing the "soft" keys on the top row which are used to overcome repetition of frequently used command strings. The low-profile keyboard is available in five national forms: French, Austrian/German, Italian, English and International.

Electrical implant corrects curvature of the spine



The Toronto Star

Eddie Chin uses a portable hand programmer to change the voltage in a pulse generator implanted in his 13-year-old daughter Juliana's back to correct a curvature in her spine.

Juliana Chin, a 13-year-old Toronto girl, is believed to be the first person in the world to have an electrical device implanted in her back to correct the curvature of her spine.

The surgery was performed recently by Dr. Walter Bobechko, the inventor of the technique and chief of orthopedic surgery at the Hospital for Sick Children in Toronto. He called the technique a big step forward in treating scoliosis, a condition in which the spine curves sideways, deforming the patient.

Ten years ago, Dr. Bobechko devised the first electrical-magnetic device to treat the condition, but it could not be implanted. It was attached to the skin with a wire running from the device to a battery and transmitter.

Silver dollar size

The new implant, about the size of a silver dollar, has no external wires or parts to entangle the patient and interfere with sleep. It gradually straightens the spine through electrical-magnetic force.

Juliana Chin was discovered to have a curved spine about two years ago. The family doctor sent her to Dr. Bobechko and she spent a week in hospital to have

the implant. The device can be turned on and off by use of a magnet and can be programmed from outside as a stronger voltage is needed. Juliana feels a tingling when it's turned on at bedtime each night.

Dr. Bobechko, who got the idea of straightening spines with electricity in 1969, says electronics was a boyhood hobby. In 1971, an American heart pacemaker company, Medtronic, offered financial support and put \$1.2 million into his idea during the next three years. The original device is now used in most countries of the world.

Dr. Bobechko spends three or four months a year teaching doctors in other countries his procedure. He has operated on patients in 20 countries without charge, because, he says, he believes that affluent countries such as Canada have a responsibility to share medical advances internationally.

Dr. Bobechko also devised a new brace for children with a hip condition called Legg-Perthes disease that allows them to run and play. Previously they had to be in full leg casts. The brace, known worldwide as the Toronto brace, was featured on a postage stamp in Australia in 1972.

Air agreement with USSR

Canada and the Soviet Union signed a letter of understanding recently that could rebuild much of the lost Aeroflot air traffic to the Gander, Newfoundland international airport.

The agreement, signed by Transport Minister Lloyd Axworthy and Soviet Ambassador Alexey Rodionov, was drawn up months ago but was put on hold by the Canadian government after the Soviet downing of a Korean Air Lines jumbo jet last September 1 that claimed 269 lives, including eight Canadians.

It calls for construction of a tanker discharge facility at Lewisport, near Gander, two jet fuel storage tanks there, and another tank at the airport itself.

The agreement also regularizes a practice of Aeroflot flying fishing crews from Montreal to Gander to rejoin ships in dry dock at St. John's.

Previously, the Soviets were only allowed "technical" stops under Canadian air route regulations, but those stops were most often used to bring in Soviet crews for drydocked ships.

Canadian medals at freestyle meet

Alain Laroche of Beaupré, Quebec won the 1984 men's World Cup freestyle skiing title and Canadians received four individual medals at the final event of the season held in Tignes, France.

Mr. Laroche, 20, became the youngest freestyle champion with a four-event, season-long points total of 74.87.

American Bruce Bolksi was second with 67 points while last year's champion Peter Judge of Canmore, Alberta was fourth with 58.27. Freestyle skiers are judged on their season's performance in aerials, ballet, moguls and combined.

In the women's competition, Meredith Gardner of Toronto was third over-all behind champion Conny Kissling of Switzerland. Canada swept the top three spots in the aerials competition.

Mr. Laroche's older brother, Yves, placed first with 124 points; Paul Poulin of Quebec was second with 122 points; and Lloyd Langois of Magog, Quebec was third with 116 points. Alain Laroche also had 116 points but fewer high placings so he was ranked fourth in the event.

It was one of Canada's best showings in the seven-year history of the freestyle World Cup, contested from January to March in Europe and North America.

Global "ear" monitors nuclear tests

Canada is among 40 countries preparing for the first major test of a global seismic information system designed to monitor underground nuclear testing throughout the world.

The two-month test is to begin in October and will include the United States and the Soviet Union, world leaders in underground nuclear explosions.

The new system is actually a communications network intended to gather seismic data from across the world and make it available to countries that suspect an underground blast has occurred.

If the system works, scientists and disarmament officials say it will advance discussions towards a treaty banning underground nuclear tests.

Under international agreements, only underground nuclear testing is permitted, with a limit of 150 kilotons, or ten times the strength of the Hiroshima bomb. Because seismic data can be used to distinguish earthquakes from major underground nuclear explosions, an international exchange of this information would allow countries to monitor nuclear testing.

The October experiment is an attempt to determine if a satisfactory seismic means can be found to verify testing. If so, progress could be made towards a treaty banning all testing.

The subject of a total test ban is expected to be discussed at the Conference on Disarmament in Geneva, Switzerland, this summer.

Help for India's forests

Canada and India have signed an agreement covering an interest-free loan of \$44 million for co-operation in a major project of social forestry in Andhra Pradesh.

The loan, administered through the Canadian International Development Agency (CIDA), will provide budgetary assistance over five years to the social forestry project implemented by the forest department of the Andhra Pradesh government. It will be complemented by a \$2-million grant for consultancy, advisory and training services. The terms of the loan are zero per cent interest, with a ten-year grace period and a 50-year repayment period.

The social forestry project will help farmers and villagers meet their basic needs by providing them with planting

stock and technical services, as well as involving them in the management of the forest lands. It will serve to slow the pace of deforestation, supply domestic needs for fuelwood, small timber, poles and fodder, and provide employment in planting, harvesting and marketing for the rural population. By the end of the project, it is anticipated that 54 000 hectares will be planted; sufficient seedlings will have been distributed to plant a further 71 000 hectares; and 13 000 hectares of degraded areas will be reforested.

The signing of the loan agreement is the latest element in Canada's long-standing program of development assistance to India. Since 1951, Canada has provided over \$1.7 billion for co-operation in sectors ranging from energy to telecommunications to agriculture. Commitments have grown steadily over the past several years with disbursements in the 1983-84 fiscal year expected to total \$50 million. Much of the program has been directed toward collaborating with India to meet its agricultural requirements. In this respect, Canada is currently providing assistance to the India Council of Agricultural Research all-India co-ordinated project for dryland agriculture, and recently also signed an agreement to supply rapeseed canola oil and technical assistance to the National Dairy Development Board vegetable oils project.

Canadian office furniture a big seller in Britain

Canadian office furniture is big business in Britain. Montreal's All Steel Canada Limited, through its British agents, Wiltshier Contract Furniture, recently established a new division in London to fully promote the Canadian company's highly successful office furniture systems.

The new division, All Steel Systems Furniture, displays through an office complex in London's Covent Garden, the Canadian manufacturer's latest lines in screen-based furniture, freestanding desks, work stations and comprehensive storage facilities.

According to Erol Russo, All Steel Canada's director of international sales, the advanced styling of the All Steel office furniture has been largely responsible for its selection and installation in the offices of many banks and commercial enterprises throughout Britain.

The two companies say the volume of business has been "most satisfying" and expect sales to "increase considerably" as a result of the new operation.

EDC reports record earnings

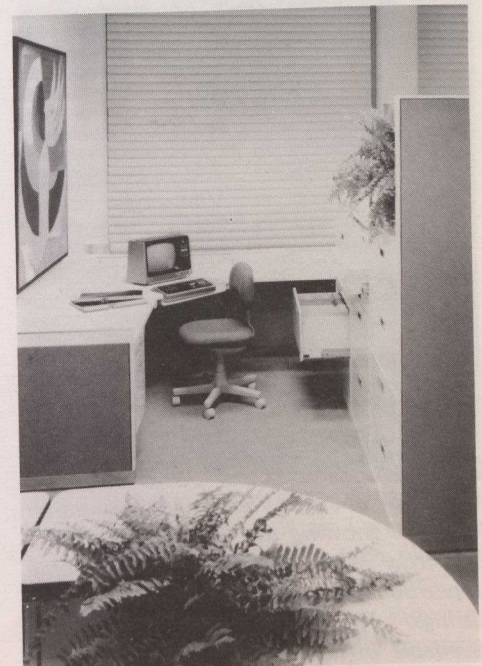
The Export Development Corporation (EDC) provided a record \$4.57 billion worth of services to Canadian exporters in 1983. It also maintained its unbroken record of profitability by recording net earnings for the year of \$2 million compared to \$1.1 million in 1982.

In his annual report as chairman of the Board and president of the Crown corporation, Sylvain Cloutier said that EDC's insurance and guarantees totalled a record \$3.9 billion in 1983, compared to \$2.3 billion in 1982.

Export financing totalled \$969 million in 1983, compared to \$2.5 billion in 1982 when one transaction, a sale of subway cars to the United States, accounted for \$921.6 million of the total.

The five leading product groups supported by EDC's financing services were engineering and trading services, followed by communications and electronic equipment, electrical equipment, ship-building construction and transportation equipment.

The five leading commodity groups supported by Export Development Corporation insurance and guarantees were services, followed by forestry products; minerals, metals and chemicals; other manufactured products, and machinery.



Desks and storage units are available in a variety of sizes, colours and finishes.

Winter garden

Once a day, Mike Peters trudges through the heavy snow outside Inco Ltd.'s South Mine in Sudbury, Ontario to a small nondescript building made out of translucent plastic.

After fumbling briefly with a frozen padlock, Mr. Peters opens a door and steps quickly into one of the most improbable winter environments northern Ontario has ever seen.

The air inside the building is warm and damp, smelling faintly of vegetable matter and hard-rock mining. Towering over Mr. Peters' head are twin rows of thriving tomato plants, two metres tall and heavy with fruit. In winter, these are the only vine-ripened tomatoes within 2 000 kilometres.

Mr. Peters, an agricultural technician with Inco's Ontario Division Agriculture Department, is standing in a unique greenhouse, heated almost entirely by the free waste heat that is generated in the company's south mine.

Several experts in Inco's Agriculture Department are convinced they have discovered a way to supply fresh salad vegetables to the Sudbury district year-round and to make money doing it. However, the company's top management remains reluctant to expand the scale of the current waste heat experiment.

Even greenhouse operators many kilometres to the south rarely attempt to grow "tender vegetables" like tomatoes in winter, because of the short winter days and soaring costs of heating fuel.

As a result, most of the tomatoes sold in Ontario supermarkets in winter are imported from the Carolinas or Florida. They are harvested green and ripened *en route*, which gives them a dry texture and sawdust taste. Not so for Inco's home-grown produce.

Unique design

The experimental greenhouse at Inco is unique in at least one respect: rather than pumping the warm air directly from the mine into the greenhouse interior, it goes instead between the two walls that form the building's shell. Mine air is saturated with water — it has relative humidity of 99.99 per cent. If this air was vented directly into the greenhouse, condensation and plant disease problems could occur. The high humidity arises from naturally occurring ground water in the mine plus the water pumped into the mine to operate equipment and to sup-

press dust. Inco designers came up with the double-wall construction — an outer wall of rigid corrugated translucent glass fibre and an inner wall of eight-millimetre-thick clear polyethylene plastic — to avoid pumping the air directly into the interior.

A second novel feature of the experimental greenhouse is that it rests on a bed of rock which serves to filter out particulate matter contained in the mine's waste air. The bedrock also evens out any variations in air temperature.

The greenhouse is equipped with four electric baseboard heaters, but they are needed only on the darkest, coldest days, because the average temperature of the waste air from the mine is 13 degrees Celsius, just below the 15.6 to 16.7 that is the optimum temperature for tomato growth. Heat from the sun through the greenhouse walls is usually adequate to make up the difference.

Company blows its own horn

For a few years back in the Forties and Fifties, trains did not sound like trains, with the result that cars, trucks, moose, and domestic animals kept colliding with them.



Airchime president Bill Piercy tests model

"The trouble was that when the railways replaced the steam locomotive with the diesel locomotive, there wasn't any steam to drive the steam whistle, so they had to use an air horn, and it sounded more like a truck," explains D.W. (Bill) Challenger, marketing manager of Airchime Manufacturing Co. Ltd. of Burnaby, British Columbia.

Today Airchime, of which Mr. Swanson is chairman, supplies air horns for Canadian railways and many railways in the United States. It also manufactures everything from the \$21 hand-held freight horns used by boaters, industries, and the man behind you at the hockey game to the EP 90, a 170-kilogram electric piston horn costing \$16 000 that clears the way for the world's giant supertankers.

"What Mr. Swanson did was to break down the steam whistle into its harmonic components," explains Mr. Challenger. "Then, with six air horns, he duplicated the chord you get with a steam whistle."

Modifications were required for the export market because the steam whistles used in other countries differed from the one used in Canada. The ones used in Europe, for instance, had a two-note chord.

Airchime exports about 75 per cent of its production and insures its foreign accounts receivable with export credit insurance from the Export Development Corporation.

In addition to their uses in railroading and shipping, Airchime whistles are widely used in industry to notify workers of such things as emergencies and the imminence of blasting operations.

Several years ago, an international convention decided that there should be different whistles for different-sized ships and Airchime follows the specifications of the convention in producing its whistles. Most Canadian Navy ships use Airchime whistles and a large portion of the US Navy is Airchime-equipped.

One of the problems of manufacturing horns for supertankers is finding a place to test them. Airchime has testing equipment in its Burnaby plant but for testing out in the open, it uses a site on logging company property in a remote section of Vancouver Island.

Grain exporters approach record

Western grain exporters could break through the 30-million-tonne barrier for the first time this year if grain shipments continue at their current high rate.

So far this year, exporters have shipped 16.8 million tonnes of grain, up 8 per cent from the level a year earlier. If shipments continue at this pace, exports will total 31.8 million tonnes by the end of the crop year, July 31.

Last year, exporters shipped a record 29.4 million tonnes worth, an estimated \$5.75 billion.

News of the arts

TV film examines the radical Sixties

The Company of Young Canadians (CYC) and the unique decade that it spawned are the subjects of filmmaker Donald Brittain's latest documentary, *The Children's Crusade*, aired recently on the Canadian Broadcasting Corporation (CBC) network.

Drop-outs, hippies and flower children were the names given to the radical youth of the Sixties. Their revolution grew out of a deep mistrust of the smug post-war, middle-class world in which they had been raised.

Against this background, in 1965, Prime Minister Lester B. Pearson announced the creation of a Company of Young Canadians. This Crown corporation, with an annual budget of \$2 million, was to channel the energies of the young into social action and community development. On paper, it was government-subsidized revolution; in practice, it was doomed to failure from the start.

In *The Children's Crusade*, director-narrator Donald Brittain slices through the maze of confusion, mismanagement and political intrigue that plagued the company's first five years with an incisive commentary, and interviews with a number of its leading volunteers and organizers. He recreates the atmosphere of the Sixties through archival film of some of the CYC's most dramatic and highly publicized activities, including David Depoe's organization of the Yorkville hippie movement in Toronto and Bernie Muzeen's fight to save from expropriation a low-income community in Calgary, Alberta.

Despite the valuable work of CYC volunteers in remote, poor and disadvantaged communities all over the country, the increasingly flamboyant behaviour of some of the company's more radical members, particularly those in the Quebec wing, made the CYC increasingly a storm centre of controversy. In 1969, the government called a parliamentary committee hearing and placed the CYC under trusteeship.

Although the children's crusade did not survive the decade, it could be argued that the CYC, along with other young crusaders of the Sixties, broke the ground for the eventual formation of effective native associations, consumer pressure groups, tenants' associations, the anti-nuclear movement and the breakdown of repressive sexual and educational traditions.

Canadian Inuit art tours US centres

Arctic Vision, a travelling exhibition of Canadian Inuit art is embarking on a tour that will include 12 museums throughout the United States. The tour is sponsored by Canadian Arctic Producers with the assistance of Canada's Department of Indian and Northern Affairs.



Mosesie Kilola's Woman Stretching Boot.

The exhibit is organized into six categories designed to describe Inuit life through the ages. It includes 37 prints and 38 stone sculptures as well as 14 reproductions of pre-historic artifacts which provide the visual link between past and present.

Supporting information consists of text panels, interpretive labels and a fully-illustrated catalogue.

Arctic Vision: United States itinerary

May 13 to June 17, Roberson Centre for the Arts and Sciences, Binghamton, New York.

June 11 to September 2, Erie Art Museum, Erie, Pennsylvania.

October 23 to November 29, Bronx Museum of the Arts, The Bronx, New York.

December 27 to February 24, 1985, The Science Museum, West Palm Beach, Florida.

March 19 to April 23, 1985, the Museum of Arts and Sciences, Macon, Georgia.

May 19 to June 23, 1985, Columbus Museum of Arts and Sciences, Columbus, Georgia.

July 22 to August 26, 1985, Columbia Museums of Art and Science, Columbia, South Carolina.

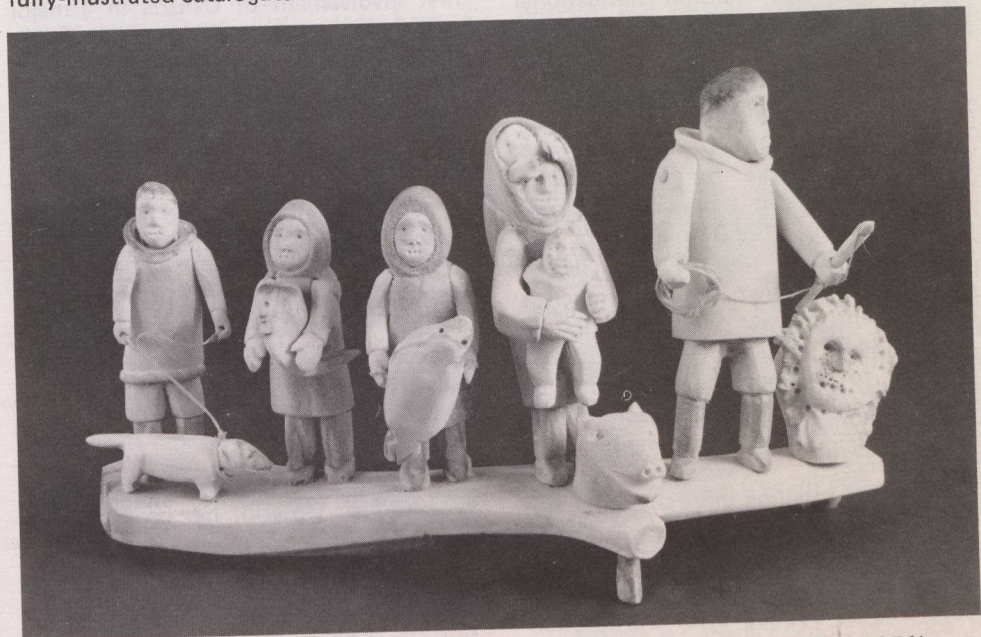
September 21 to October 27, 1985, Cumberland Museum and Science Center, Nashville, Tennessee.

December 1, 1985 to January 5, 1986, The Montclair Art Museum, Montclair, New Jersey.

January 29 to February 28, 1986, Robert Hull Fleming Museum, The University of Vermont, Burlington, Vermont.

March 29 to April 27, 1986, Guild Hall Museum, East Hampton, New York.

May 17 to June 26, 1986, The Edith C. Blum Art Institute, Annandale-on-Hudson, New York.



Family Group, a carving from caribou antler and sinew by Romeo Erkerkuk (1974).

Calgary exhibits Costa Rican treasures

An exhibition of priceless national treasures from Costa Rica opened recently at the Glenbow Museum in Calgary.

More than 300 artifacts in gold, jade, ceramic and volcanic stone, drawn from the collections of Costa Rica's Banco Central, the Banco Nacional and the Museum of Jade, will be on display until June 10.

They reveal the remarkable artistry of this precolombian Central American civilization in carvings, pottery and metalwork, dating from 500 B.C. until the landing of the conquistadors in 550 A.D.

Duncan Cameron, director of the Glenbow Museum, calls the exhibition "absolutely one of the great shows of the decade". It was made possible by a grant from TransCanada Pipelines.



A ceramic anthropomorphic vessel, part of an exhibition of Costa Rican treasures at Glenbow Museum.

News briefs

Two federal government contracts totalling \$1.1 million have been awarded to Nautical Electronic Laboratories Limited to manufacture navigational beacons for Transport Canada. These beacons will be installed at various locations across Canada and will transmit navigational signals to pilots and navigators of aircraft and ships.

Donald Johnston, Minister of State for Science and Technology and for Economic and Regional Development and Minister responsible for space policy, recently announced a new space expenditure plan of \$122.2 million for the years 1984/85 to 1986/87. This 38 per cent increase brings the government's commitment to space over this period to almost \$446 million. The funds will be used to enhance the application of space technology to meet Canadian needs in communications, remote sensing and space science.

Contracts totalling more than \$13 million have been awarded to Canadian firms for projects that will improve 192 kilometres of the Nacala railway line in Mozambique. Sydney Steel Corporation of Sydney, Nova Scotia will receive

\$12 021 023 to manufacture 17 710 tonnes of light rail sections while ABEX Industries Ltd. of Niagara Falls, Ontario will manufacture rail sections and 70 sets of turnouts. A turnout is that portion of a track designed to permit traffic to "turn out" from one rail line to another. The awarding of the contracts marks the first involvement of Canada in a major project of the South African Development Coordination Conference (SADCC).

Radio Canada International shortwave service will broadcast a stronger, clearer signal into Eastern Europe and the Soviet Union within two years as a result of an agreement announced recently with British Broadcasting Corp. The \$5-million project includes delivery, installation and maintenance until 2008 of two new transmitters in Daventry, England. Radio Canada International now uses 40-year-old BBC transmitters in Daventry to deliver its signal to Eastern Europe and the Soviet Union.

Mainline Construction Equipment of Woodbridge, Ontario, has been awarded its first contract valued at \$749 000 (US) by Canadian Commercial Corporation for the supply of ten Liftking rough terrain forklift trucks to the United States Defense Construction Supply Center. The

vehicles will be delivered by the end of October 1984.

I.P. Sharp Associates Limited of Ottawa, Ontario, has been awarded a \$495 000 (US) contract through Canadian Commercial Corporation for the supply of a Euclid based verification system to the US Navy. This system will enhance the accuracy of computer systems on board ships. The US Navy is purchasing this system under the Canada/US Defence Production Sharing Arrangement.

More than \$2.57 million was raised for cancer research in the 1983 Terry Fox Run, it was announced recently. As of January 31, a total of \$2 575 200 was raised by 223 563 Canadians who ran, walked or jogged at 1 518 organized run sites across Canada. This year's run has been scheduled for September 23.

An integrated office system based on its SL family of digital private-branch exchanges is planned this year by Northern Telecom Ltd. of Mississauga, Ontario. In its annual report, Northern Telecom says the products will form a modular voice and data system; and they will include a star-configuration local-area network, mass memory storage systems, integrated voice and data work stations, file servers and printers.

Two nearly-blind Toronto journalists have launched a large-print, tabloid newspaper to inform other visually impaired Canadians of vision aids. The project is being funded with a \$5 000 grant from the Gannett Foundation to the Low Vision Association of Ontario on the recommendation of Mediacom Inc., said Bill Carroll, editor of the tabloid, which will be called the *Low Vision News*. He said that beyond the 240 000 Canadians who are visually impaired, the quarterly tabloid is aimed at eye care professionals and family doctors.

Canada Weekly is published by the Public Affairs Branch, Department of External Affairs, Ottawa K1A 0G2.

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Cette publication existe également en français sous le titre Hebdo Canada.

Algunos números de esta publicación aparecen también en español bajo el título Noticiario de Canadá.

Alguns artigos desta publicação são também editados em português sob o título Notícias do Canadá.

Canada

ISSN 0384-2312