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Finest quality giftware at International Spring Fair '85

Eight Canadian companies are displaying some of Canada's top quality giftware products at the Canadian exhibit of the International Spring Fair '85, in Birmingham, England, February 3-7.

The range of product lines include quality greeting cards, distinctive jewellery, limited-edition Indian art prints, fabric-covered jewellery boxes, fine pewterware and colourful vinyl giftware.

Variety of cards

A. Booth Company of Scarborough, Ontario, has offered greeting cards, book-marks and mini-posters in both English and French to markets in Canada, the United States and Britain for many years. Life Lines Verse A cards, Windows on Life greeting cards, Just Words greeting cards and book-marks, New Horizons greeting cards and book-marks, and mini-posters are among their products being displayed at the fair.

Notecards, gift enclosures and folios to suit any occasion, and to express any mood are on display from the Immagini Fine Papers of Vancouver collection. Original artworks in a variety of styles and techniques are

used on 88 different designs including the Collector series of note cards; the Gallery series of note cards and gift enclosures; and the whimsical captioned greeting cards of Miller and Webber.

Range of jewellery

Diamond and precious-stone rings, as well as tubular gold-bangled bracelets are available from D.G. Jewellery of Canada Ltd. of Toronto, Ontario. The jewellery pieces, in modern and traditional designs, are light and easy to wear, yet give the appearance of massive metal.

Nathan Hennick jewellery by "Marvel" has a full range of rings with diamonds, precious stones including rubies, sapphires and emeralds and semi-precious stones such as amethyst, garnet, opal or onyx. The Downsview, Ontario company also offers signet rings, wedding bands and diamond stud earrings.

Velvet-covered jewellery boxes are manufactured by Impenco Packaging Corp. of Montreal, Quebec. Metal boxes covered with imitation velour, leatherette, suede, or leather are also produced for a wide range



Little Leader, a limited edition print by Indian artist Robert Kakegamic, is offered by the Great Canadian Print Company.



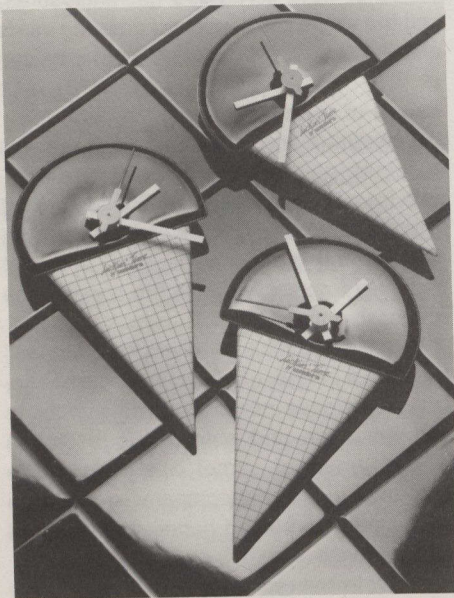
External Affairs
Canada

Affaires extérieures
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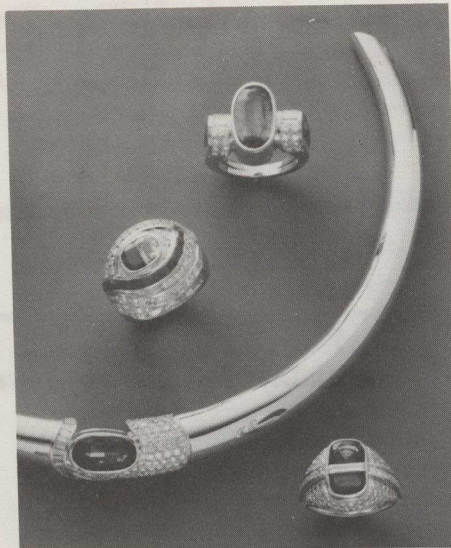
of uses including cosmetics, opticals, gifts, coins, watches and other precision instruments. In addition, Impenco manufactures a wide selection of plastic and paper boxes, and one of Canada's most extensive selections of plastic containers.

Limited edition prints

The Great Canadian Print Company from Winnipeg, Manitoba offers original silk-screened and hand-printed Indian art prints by recognized Canadian Indian artists like Clemence Wescoupe, David B. Williams and Robert Kakegamic. Subjects include powerful stylized nature images: such as a flight of Canada geese; a brace of loons; Indian braves; and animal spirits. The prints, on



Ice cream cone shaped quartz clocks by Umbra Shades Limited.



A number of companies at the fair in Birmingham are displaying jewellery set with precious and semi-precious stones.

acid-free paper, come in limited editions of 99 to 150 copies. Each is signed, numbered and titled by the artist.

Pewter originals are being shown by Seagull Pewterers & Silversmiths, of Pugwash, Nova Scotia. Cast and spun pewter original designs, include picture frames, ornaments, goblets, candlestick-holders, bowls, vases, key chains, country hooks and holloware.

Umbra Shades Limited of Scarborough, Ontario manufactures vinyl tabletop and gift products such as coasters, place mats and soft vinyl wall clocks. The company's original line of products provide accents of bright splashes of vibrant reds, blues and yellows. They have become increasingly popular and are marketed nationally and internationally.



Notecards and gift enclosures from Immagini Fine Papers of Vancouver

Telesat in Australia

Telesat Canada of Ottawa, Ontario has installed a Telemetry, Tracking and Command (TTAC) antenna at an AUSSAT facility near Perth, Australia, which will allow the company to provide commercial satellite tracking services in 1985.

Working with the specialized antenna in Australia and a similar Telesat antenna in Allan Park, Ontario, some 90 miles north west of Toronto, Telesat will be able to give complete Transfer Orbit Services (TOS) during the launch of geostationary communications satellites.

During a launch, the TTAC system is used when the satellite is released from a space shuttle or rocket and put in a transfer orbit. It commands on-board systems to manoeuvre the satellite into final geostationary orbit 35 800 kilometres above the equator, and verifies its position in space.

Both of Telesat's TTAC antennas operate in the 14/12 GHz band as well as the more common 6/4 GHz frequency band.

Telesat's first use of its new global coverage tracking services will be tracking its own *Anik C1* communications satellite, scheduled for launch by NASA's space shuttle *Challenger* in February 1985.

TOS customers may opt to use one or both Telesat stations. Australia, will use the Allan Park facility for the launch of its first communications satellites, in July and November 1985.

Telesat Canada owns and operates Canada's five *Anik* satellites, and provides a range of satellite system services, hardware and consulting to other countries.

Water flow curb used abroad

A computer system that controls overflows in urban storm and sanitary sewers and prevents flooding has been developed by the computational hydrology group at McMaster University in Hamilton, Ontario.

The group, in McMaster's civil engineering department, has supplied the system to users in the United States, Sweden, Denmark, South Africa and Australia.

The system uses micro-computers and software that models rainstorms and their effects. Run-off flows are curbed by computerized control gates and flow gauges that redirect them. The aim is to divert hazardous wastes into storage areas during sudden storm run-offs so that polluted waters do not escape into pollution control systems. The cleaner water that follows the first run-off is allowed to flow separated from pollutants.

Towards strengthening relations with the Ivory Coast and Kenya

Minister for External Relations Monique Vézina made official visits to the Ivory Coast and Kenya in January.

In the Ivory Coast, January 8-11, Mrs. Vézina co-chaired the second meeting of the Bilateral Commission where general relations between the two countries was examined and a new General Agreement on Development Assistance was signed. Canadian development aid to the Ivory Coast has surpassed \$85 million over the past 20 years. In Abidjan, Mrs. Vézina inaugurated the Polyclinique Sainte-Anne-Marie which was constructed by a Canadian company at a cost of \$50 million.



Monique Vézina

The visit is expected to consolidate co-operation between Canada and the Ivory Coast and permit discussions on major international political issues with senior government officials. Ministerial visits in both directions over the years and the visit to Canada of President Houphouët-Boigny in June 1983 have helped to reinforce relations between the countries.

The visit to Kenya, January 12-17, provided an opportunity to study the development co-operation program, to discuss the challenge facing Kenyan society and how best Canada can assist, and to review major international issues with government leaders. The Canadian program of development co-operation has grown substantially in recent years and disbursements are expected to reach \$25 million in 1984-85.

Mrs. Vézina visited a number of grass roots development projects in central Kenya.

Canada-EC newsprint pact

Minister for International Trade James Kelleher has announced that a newsprint agreement was signed with the European Communities (EC) in Brussels on December 28. The agreement requires the EC to bind in the General Agreement on Tariffs and Trade (GATT) a 650 000-tonne duty-free quota for newsprint. It also stipulates that within that quota, 600 000 tonnes will be allocated to Canada.

The terms of access of newsprint, Canada's fourth largest export to the EC, were discussed by Mr. Kelleher and Étienne Davignon, the vice-president of the European Commission responsible for industrial affairs, during Mr. Kelleher's visit to Brussels earlier in December.

The agreement was signed by Canada's ambassador to the EC, Jacques Gignac, and Paul Luyten, the deputy director-general of external relations, Commission of the EC.

Continued commitment to the European satellite program

Canada recently announced the continuation of its participation with the European Space Agency (ESA) in the development of ESA's remote sensing satellite, ERS-1.

Canada has been a co-operating member of ESA since 1979 and has participated in the three stages of ERS-1's preliminary planning phases since March 1980. This participation is now being extended to the next three phases — construction, launch and two-year operation — of the ERS-1 satellite which is scheduled for lift-off in April 1989.

The country's initial investment for the first three phases was almost \$6 million. For the last three phases Canada will invest about \$40 million in the program, which represents 6.2 per cent of the approximate total cost of \$700 million.

Remote sensing is the acquisition of information about the earth's surface by sensors mounted aboard aircraft or satellites.

Canada's remote sensing program is coordinated by a branch of Energy, Mines and Resources. Initially Canada was actively engaged in receiving, processing and utilizing remotely sensed data, but did not contribute to the design and construction of the satellites involved. Recently Canada has become involved in the development of its own remote sensing satellite, RADARSAT.

Objectives for ERS-1

ERS-1 is expected to be the forerunner of a series of European remote sensing satellites to become operational in the 1990s.

One of the objectives is to establish, develop and exploit the coastal, ocean and ice applications of remotely sensed data. These applications, related mainly to obtaining a better knowledge of ocean parameters and sea-state conditions, are important because of the increasing development of coastal and offshore activities and the adoption by countries of the 200-nautical-mile economic zone. In addition, all-weather, 24-hour, high-resolution imaging capability over the earth's surface with a synthetic aperture radar (SAR) will provide useful data as a complement to optical data received from other satellites.

ERS-1 is also expected to increase the scientific understanding of coastal zones and global ocean processes. This, together with the monitoring of polar regions, will be a major contribution to the World Climate Research Program (WCRP).

Benefits to Canada

Announcing Canada's continued participation in ERS's program, Minister of State for Mines Robert Layton said "it will help Canadian aerospace industries improve their expertise in this high technology area; will complement the development of Canada's own RADARSAT remote sensing satellite; and will enhance Canada's endeavours in international co-operation".

The program enables Canada to participate in a remote sensing satellite program at a fraction of the cost of doing the work alone,

while at the same time acquiring the technological expertise to build a SAR package particularly suited to Canadian needs. The SAR will be the prime sensor aboard RADARSAT.

Another benefit to Canada is the access to all technical information produced by the ERS-1 program, including information acquired by ESA before the commencement of Canadian participation.

Canada will also have access to the data that will be provided by the satellite. Such data will provide an opportunity to demonstrate and evaluate the effectiveness of microwave remote sensing data for ice monitoring and related applications. It will also serve as a forerunner to RADARSAT, in terms of developing comprehensive data distribution and information systems.

Canadian industrial participation in the program will include MacDonald, Dettwiler and Associates of Vancouver, British Columbia as the prime contractor for the ground segment; SPAR Aerospace of Montreal, Quebec, the contractor for the satellite data handling subsystem; and COMDEV Limited, Cambridge, Ontario, as the supplier of microwave components.

The leading European ESA members involved in the program include West Germany, France, the United Kingdom, Italy and the Netherlands.



Robert Layton

Electronic pollutants battle new standards

Researchers at the Bell Northern Research Laboratories Ltd. (BNR) in Ottawa, the research and development arm of Northern Telecom of Mississauga, Ontario and Bell Canada, a subsidiary of Bell Canada Enterprises Inc. of Montreal, test various products to reduce electronic pollution.

Although electromagnetic interference (EMI) is often not noticed, all electronic equipment gives off undesirable signals that may interfere with other equipment. For example, electric appliances can produce audible interference, or noise, on a stereo set.

To curb electronic pollution from business telephone switches and exchanges, the United States Federal Communications Commission (FCC) developed a set of standards in October 1983 and the magnetic product group at BNR are working to ensure that Northern Telecom and Bell Canada products meet the rigorous standards.

Canada to increase standards

The FCC standards are expected to be adopted by Canadian authorities in 1985. That will mean all Northern Telecom equipment will have to be certified at the BNR lab, said Stan Xavier, manager of the BNR magnetic product group.

EMI testing begins under controlled and isolated conditions in BNR's anechoic "echo chamber", dubbed Jaws 3. The room is like a large vault, shielded by two steel panels behind each wall, underneath the floor and above the ceiling. The chamber keeps out all electromagnetic energy so that engineers can measure exactly what is being

emitted from a particular product inside.

The laboratory is equipped with instruments that span almost the entire range of the electromagnetic spectrum — from low frequency 20 Hertz to super-high frequency waves at 40 Gigahertz.

Testing in the environment

Once the EMI characteristics of a product are known and are within acceptable limits, it is tested under less-isolated conditions to measure its susceptibility to external EMI sources in the environment and its relationship with other external frequency levels. The environment is full of EMI; the background level includes emissions from power lines and broadcast transmitters.

This part of the testing is done in a special EMI laboratory in an all wood and glass fibre shed that is completely grounded. The background EMI from outside the shed is measured and additional emissions can be produced by a neighbouring antenna. Engineers measure the interaction between the product's signals with these outside signals to discover possible interference.

The lab can also be used to test communications-security equipment that is used by government and military agencies to transmit and receive classified information. EMI emissions can compromise classified information if detected and intercepted.

As one constraint for the BNR engineers is the limits of theoretical knowledge, they have a number of co-operative programs with university researchers to help develop new theories.

First digital telephone exchange in Turkey

Northern Telecom International Limited of Mississauga, Ontario, recently announced that the Post, Telegraph and Telephone (PTT) Administration of the Republic of Turkey has inaugurated the country's first fully digital telephone exchange at the PTT central office in Kavalidere in Ankara.

The switch, a Northern Telecom DMS-10M, is portable and is designed specifically for small, growing communities. It can handle from a few hundred to as many as 8 000 telephone lines.

The inauguration marks the beginning of a program by the PTT to introduce fully digital telecommunications technology to the Turkish telecommunications network. "The installation of the switching system launches the country into the era of fully digital telecommunications, and will help provide

the people of Turkey with the most advanced telecommunications services available in the world," said General Servet Bilgi, general manager of the PTT.

In 1967, Northern Telecom and PTT established Netas, now the largest telecommunications manufacturing company in the Middle East. Over the past 17 years the Netas plant in Istanbul has manufactured and supplied some 1.8 million telephone lines of telecommunications products to the PTT.

In 1983 Northern Telecom signed a licensing agreement with Netas to enable Netas to manufacture and market DMS digital telephone exchanges for domestic and international markets. The agreement is expected to result in the installation of some 250 000 telephone lines of fully digital switching systems in Turkey by the end of 1985.

Railway cars for Mali

Hawker-Siddeley Company of Trenton, Nova Scotia, has been awarded a contract for the manufacture of some 100 railway cars for the West African country of Mali.

The contract is being funded by the Canadian International Development Agency (CIDA) as part of a support program for Mali's national railway system. Canada has contributed \$8.5 million to this program since 1973 for the purchase of railway equipment, the provision of technical services and the training of personnel.

Hawker-Siddeley is a leading Canadian manufacturer of railway cars and the country's only manufacturer of axles for railway cars and locomotives. It has been actively involved in producing railway equipment for developing countries for some years.

In 1980, Hawker-Siddeley supplied 14 ballast cars and 18 tank cars to Mali under the first phase of the current program. The company has produced more than 1 000 railway cars over the past ten years for various railway projects in Indonesia and in several African countries.

Co-operatives assisted

Minister for External Relations Monique Vézina recently signed an agreement to provide \$2.5 million in the form of block funding to the Co-operative Development Foundation (CDF) for 1984-85.

The sum which, in addition to the \$1.6 million already committed by the government to support more than 140 projects run by the CDF in 34 developing countries, is being provided through the Canadian International Development Agency (CIDA). The additional sum will allow for the support of a larger number of projects.

The CDF is the international development arm of the Co-operative Union of Canada (CUC), the national association of co-operatives in English Canada. In the co-operative movement, co-operatives in one country help co-operatives in other countries through the provision of technical assistance and financial contributions.

The projects of the foundation range in size from \$7 000 to construct a co-operative bakery in Dominica to \$1 million for the multi-year development program of the Caribbean Confederation of Credit Unions. Other examples include co-operative education and the purchase of equipment for members of a fishing co-operative in Zambia, and training in co-operative management for women in Bangladesh.

Canada makes marvellous music at MUSIKMESSE 85



Electric violin from Raad Instruments is the first in the musical world to offer undistorted amplified acoustic violin sound.

Canada's musical products industry, renowned for its development of new and innovative quality equipment that is marketed both in the country and internationally, will be represented at MUSIKMESSE 85 in Frankfurt, Federal Republic of Germany, from February 9 to 13, 1985, by a number of firms offering a wide range of products.

Twelve leading musical product companies will display their products that include power amplifiers and sound equipment, hand-made instruments including violins, acoustic and electric guitars, recorders,

flutes, musical accessories and publications.

Among the new products is the world's first electric violin. Designed and developed by Raad Instruments Inc. of Toronto, Ontario, the violin maintains the rich characteristics found in quality acoustic violins and allows the player complete control of texture, intonation and articulation. The violin integrates a novel tone-producing element with an advanced transducer system to give a rich sound quality free of distortion. Shaped like a graceful Renaissance instrument, it is also functional with easy access to all registers.

The voice, scope and compatibility of the Raad give it the necessary versatility for jazz, rock, pop, country, classical and contemporary forms of music.

Pitchrider 2000 is another new Canadian development. Developed by IVL Technologies of Victoria, British Columbia, the innovative microprocessor-based device instantly recognizes notes played by any musical instrument and feeds this data in standard MIDI format to a synthesizer or computer. This allows any instrument to "drive" accom-

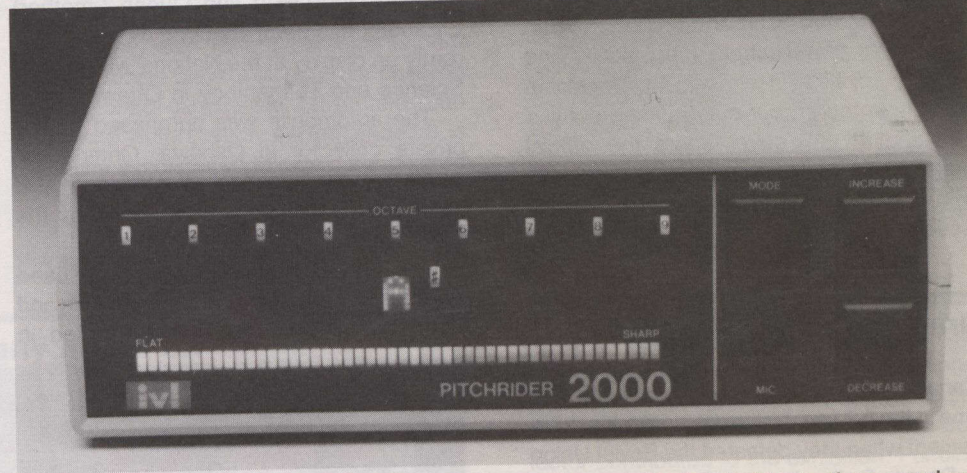
paniment on a MIDI-equipped synthesizer. The Pitchrider 2000 tracks the melody precisely and with imperceptible delay generates the accompaniment on the synthesizer.

This capability also makes the Pitchrider 2000 attractive for individual musicians to aid them in intonation training. Pitchrider 2000 sends both visual and audible signals to provide instantaneous and continuous feedback on pitch errors while the musician is playing scale exercises or a piece of music.

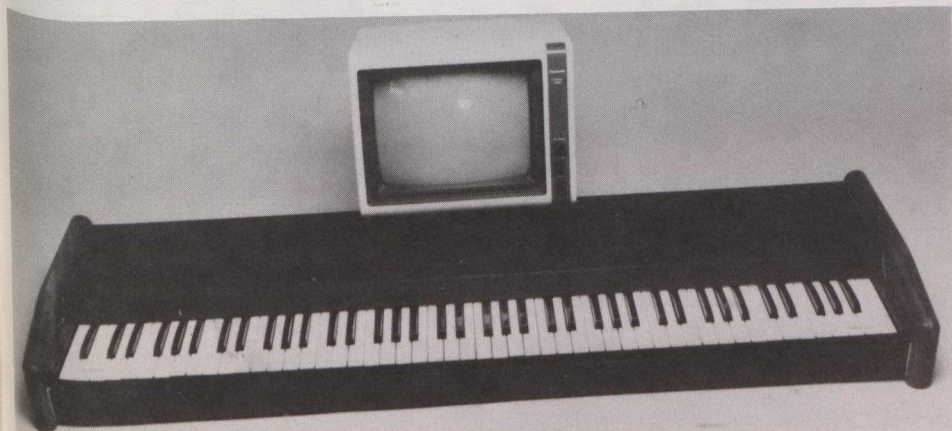
Syntronics/542435 Ontario Limited of Toronto, Ontario, is recognized as a leader in computer music instruments. The new IMP digital interactive music processor represents a further development of the company's McLeyvier computer-based synthesizer introduced in 1981.

Music that is played on the IMP keyboard can be reproduced in full score on its video screen. Using the instrument's text editing system, the composition then can be modified to the composer's satisfaction. A print-out of any finished piece of music composed on the IMP is available on hard copy suitable for publication.

A Portable Professional Synthesizer which



IVL Technologies' Pitchrider 2000 is a pitch identification device that instantly recognizes notes played by any musical instrument.



A new generation computer music instrument by Syntronics/542435 that offers reproduction of a full score on the video screen.

is a smaller version of the IMP, has also been developed by Syntronics. It is a 16-channel polyphonic with lightweight keyboard and a separate key-pad, and has a built-in sequencer which will retain musical sessions on a floppy disk.

Canada's musical products industry has grown steadily in both domestic and export sales. The recent annual average growth is 15 per cent. Total 1983 production is estimated at over \$50 million (Cdn) with about \$25 million shipped abroad, mostly to the United States and Europe.

The manufacturing sector of the industry consists of approximately 70 firms most of which are small in size and specialize in a particular segment of the musical industry.

International Youth Year stamp

Canada Post Corp. will issue a new stamp February 8 to mark the designation of 1985 as International Youth Year by the United Nations. During the year countries throughout the world have been asked to re-assess their policies and programs concerning youth.



"In its proclamation of 1985 as International Youth Year, the United Nations urged all levels of government to consider the concerns and aspirations of young people when developing policies and programs that would affect them directly or indirectly," said Judge René J. Marin, chairman of the board of Canada Post.

The 32-cent domestic stamp was designed by François Dallaire of Montreal. It features a green heart and yellow arrow in neon lights that illustrate the positive and peaceful spirit that inspires youth. The stamp will be printed in four-colour lithography.

The first day cover bears the official United Nations International Youth Year logo, with a line version of that logo in the day of issue cancellation.

Dramatic hockey victory

Canada won the Spengler Cup for the first time in the 58-year history of the hockey tournament when they defeated the Soviet Union in Davos, Switzerland on December 30.

Team captain Rob Plumb scored a breakaway goal with 48 seconds remaining in the game to lift Canada to a dramatic 4-3, come-from-behind victory over Chimik Voskresensk of the Soviet Union. The Canadian victory ended a 19-year Soviet-Czechoslovakian domination of the tournament. Team Canada comprised Canadian players from Canadian and US universities and Swiss and West German club teams.

It was the third consecutive win for Canada, the country's first entry in this tournament in 16 years. They finished with a 3-1-0 won-lost-tied record. Dukla Jihlava of Czechoslovakia, the pre-tournament favourite, finished second at 2-1-1. Chimik, the host Davos club and ERC Schwenningen of West Germany each finished at 1-2-1.

Ontario-Jiangsu twinning promises increased trade

The province of Ontario in Canada and the Chinese province of Jiangsu have agreed in principle to a twinning arrangement which is expected to increase business opportunities.

Officials in Ontario expect the twinning agreement, the first for the province, to help it quadruple its \$91-million yearly export trade with China over five years.

"From the Ontario point of view, the aim is to gain access to the large Chinese market and to do so by focusing on this province and developing personal relationships," says Gary Posen, deputy minister of intergovernmental affairs.

Representatives from both provinces have visited each other's country to assess potential business projects.

The Chinese are looking at everything from high technology and transportation

equipment to agricultural, food-processing, electrical and textile machinery. Ontario can also export technical expertise for training in various areas.

For Bob Kelly, president of Interimco Inc., an agricultural-based project implementation company in Ottawa, the twinning arrangement and improved relations are extremely important as the company is actively involved in establishing projects in China. Currently the company has a \$30-million project in another Chinese province to build up a dairy, beef and sheep herd of 10 000 head. In addition, the project requires building a slaughterhouse and developing all marketing and processing.

Interimco has also just signed a contract with Jiangsu province to develop dairy and beef herds on five state farms.

Special royal tour automobile at Ottawa museum

A 1939 McLaughlin-Buick specially built and outfitted for the 1939 royal tour of Canada by King George VI and Queen Elizabeth, has been acquired by and is currently on display at the National Museum of Science and Technology in Ottawa.

The automobile was purchased from a private collector in Oshawa, Ontario because of its historical significance and because it represents "the state of the art" at that time.

The hand-built car and another used during the 1939 tour, were the seventh and eighth McLaughlin-Buicks constructed in

Oshawa for members of the British royal family. They were both more than six metres long and were finished externally in a special shade of maroon exactly duplicating the hue of the royal cars regularly used in Britain.

The interiors of both automobiles were finished in the best woods, leathers, fabrics, metals and conveniences available at the time. A push-button, electrically operated glass panel separates the front and the rear compartments and the collapsible tops are almost 20 centimetres higher than normal to accommodate the plumed head-dresses of the royal party.



King George VI and Queen Elizabeth in their specially constructed McLaughlin-Buick at dockside in Halifax, Nova Scotia during their 1939 tour of Canada.

Traditional Inuit music on North American tour



Print by Tucassie Echaluq of Inoucdjouak, Quebec shows Inuit throat singers, two women in vocal competition imitating natural sounds from their environment.

Francisco, Philadelphia, New York and Brunswick, Maine; and Peterborough, Ontario. The Department of External Affairs and the Canada Council are major sponsors.

Singing competition

Throat singing is a style of vocal chanting now practised only by women in the eastern and central Arctic. At one time it was a game — a competition of stamina and inventiveness between two women.

The sounds produced by the women through voice manipulation and breathing techniques, are intricate weavings of guttural and melodic patterns, unlike those heard anywhere else. The songs may contain nonsense syllables as well as imitate natural sounds in the women's environment. Anything from the sound of a baby crying, to the sound of a bubbling, boiling pot, to the sounds of the wind and the seashore may be included.

Experiences reflected in dance

The drum dance performances of Donald Suluk and his wife Alice, who are both in their sixties, also reflect personal experiences. Donald plays a large drum covered with a young caribou skin stretched onto the frame before each performance. It is sometimes moistened to give it the desired rumbling resonance.

The Pisiit songs performed by the couple are in parallel seconds and fourths with the

drum accompaniment. The songs, which are ancient records of life and survival in the Canadian Arctic, range in theme from celebrations of hunting, fishing and other exploits, to sentimental and philosophic themes, magical incantations or satire.

Traditionally, the art of drum dancing was practised on social and festive occasions, such as the arrival of visitors or after successful hunting expeditions. A large, circular snowhouse was built and festive dress was worn. The audience joined in the swinging movement, while the performer was transported into an exalted, joyous state.



Alice and Donald Suluk from Eskimo Point, Northwest Territories are performers of Pisiit songs and drum dances.

Two members of the Povungnituk Throat Singers group in Northern Quebec and drum dancers Donald and Alice Suluk from Eskimo Point, Northwest Territories, are currently on tour giving the first North American multi-city presentation of their traditional Inuit music.

The two-month, 21-concert tour, which opened on January 20 at the Royal Ontario Museum in Toronto, includes stops in Niagara Falls, New York; Vancouver, British Columbia; the US cities of Seattle, San

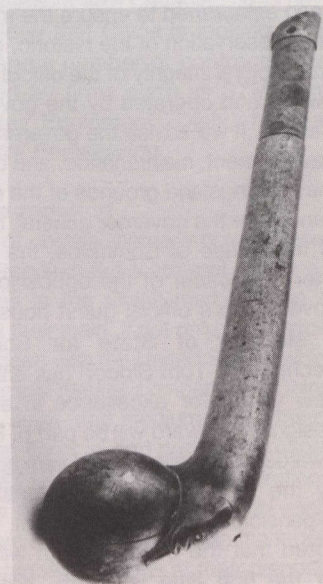
Collection reflects diversity in early Indian art

Patterns of Power on view at the McCord Museum in Montreal until March 10, features the collection of Jasper Grant and Great Lakes Indian art of the early nineteenth century.

The exhibition, organized by the McMichael Canadian Collection in Kleinburg, Ontario, contains very rare examples of Indian clothing including shirts, leggings, moccasins, arm bands and pouches, as well as utensils and ornaments. The 90 artifacts on display are enriched with images and designs, the "pattern of power", illustrating the forces which, according to Indian belief, pervade the natural world.

Colonel Jasper Grant served in the British militia in Upper Canada from 1799 to 1809 when he returned to Ireland. His large and well-documented collection of Indian artifacts, donated to the National Museum of Ireland in 1902, reflects the diversity of the tribal art traditions of the Great Lakes region as well as new materials and stylistic influences introduced by Europeans.

The importance of the collection is enhanced by a large number of letters written by Colonel Grant during his stay in Canada.



Eastern Ojibwa wood and metal club made before 1880.

The National Museum of Ireland, the National Library of Ireland, the National Museum of Man, the Royal Ontario Museum, the McCord Museum and a private collector contributed to the exhibition. Funding was provided by the National Museums of Canada, le ministère des Affaires culturelles du Québec, and le Conseil des arts de la Communauté urbaine de Montréal.

Art brief

The twenty-fifth anniversary of the National Ballet School was marked in Toronto by a special week from November 19 to 25 when the public was invited to the school for tours and demonstrations. The highlight of the week was a celebration performance when graduates of the School, now dancing in major companies in Canada and abroad, participated in an evening of classical excerpts and specially created new works.

Growth in mineral industry

Minister of State for Mines Robert Layton recently released figures showing that Canada's mineral industry experienced a moderate but sustained economic growth in 1984. The value of mineral output increased by \$4.6 billion from 1983 to 1984.

The total value of output of the four sectors of the industry — metallics, non-metallics, structural materials and fuels — reached \$43 billion, compared with \$38.5 billion the previous year. The metallic sector, after recording a 7.6 per cent increase in value in 1983, reached \$8.5 billion in 1984, a 14.9 per cent increase. Value of output for nonmetallics and structural materials totalled \$4.2 billion, up 13.5 per cent from the previous year. The fuel sector, by far the largest of the four, totalled \$30 billion, an increase of 10.5 per cent.

Increase in top groups

On a commodity basis, the ten leading minerals in 1984 were petroleum, natural gas, natural gas byproducts, coal, iron ore, zinc, copper, gold, nickel and uranium. These represented 87 per cent of the total value of output of the industry, and all except copper, gold and silver showed increases over the previous year's figures.

News briefs

The Export Development Corporation (EDC) has announced a \$19.4-million (Cdn) financing agreement to support a sale by Pirelli Cables Inc. of Saint-Jean-sur-Richelieu, Quebec, to LCI Communications Inc. of Worthington, Ohio, for a telecommunications network in seven US states. The sale involves the supply of fibre optic cable which will be manufactured at Pirelli Cables Surrey, British Columbia plant.

Northern Telecom Inc., the US subsidiary of Northern Telecom Limited in Mississauga, Ontario, has signed a three-year agreement with Ameritech Services to supply communications transmission equipment on an as-ordered basis to the five Bell companies of the American Information Technologies (Ameritech) corporate family. The actual value of the multi-million dollar contract cannot be determined until the Bell companies — Illinois Bell, Indiana Bell, Michigan Bell, Ohio Bell, and Wisconsin Bell — decide how much equipment they will order from Northern Telecom under the agreement. The contract, which sets the terms, conditions and price of purchases, covers Northern

Some changes in leading minerals from 1983

	1984 production value (\$ million)	Change in volume (per cent)	Change in value (per cent)
Metals			
Iron ore	1 500	+24.6	+15.8
Copper	1 400	+9.1	-1.0
Zinc	1 400	+3.5	+26.7
Nickel	1 200	+39.3	+49.1
Gold	1 200	+10.6	-0.2
Uranium	916	+42.1	+37.2
Silver	409	-2.2	-24.9
Lead	190	-4.6	+18.9
Molybdenum	109	+6.6	+24.2
Nonmetals and structurals			
Potash	759	+10.8	+17.6
Sulphur, elemental	574	+16.1	+34.4
Cement	667	+9.5	+10.1
Clay products	141	..	+6.5
Fuels			
Petroleum	17 900	+5.4	+11.2
Natural gas	7 500	+2.0	+6.2
Natural gas byproducts	2 800	+7.7	+3.8
Coal	1 800	+26.8	+39.1

The largest share of output was in Alberta, where 60 per cent of the total or \$26 billion was reached in 1984, up from \$24.1 billion in 1983. Ontario followed with 10 per cent of the total, reaching \$4.5 billion. Output was up slightly in British Columbia, totalling

\$3.4 billion. Quebec remained unchanged with \$2 billion. With the re-opening of some mining operations, the Northwest Territories showed the sharpest increase as the value of output reached \$738 million in 1984 compared with \$595 million in 1983.

Telecom's full range of transmission products, including digital radio, fibre optic cable, fibre optic terminals, channel banks, multiplexers, digital line equipment, and subscriber carrier systems.

An Official Residences Council has been established to ensure the maintenance and preservation of the historic, cultural and architectural integrity of the official residences owned and operated by the government of Canada. It will advise the government on the development, maintenance, and operation of the buildings and grounds of the official residences for the governor general, the speaker of the House of Commons, the prime minister, the leader of the opposition, and the government's official guest house.

Minister of State for Science and Technology Tom Siddon has announced a new award for excellence in engineering design. The award will be part of the Canada Awards for Excellence program administered by the Department of Regional Industrial Expansion. In his announcement, Mr. Siddon noted that the award, which will be given for the first time in 1985, will honour a professional engineer whose work has led to the development of a new product design

with demonstrated potential for commercial viability in the international market-place.

Billy Chau of Edmonton, Alberta defeated Milt Bennett of Portland, Oregon in the seventh round of a World Karate Association (WKA) super-welterweight (70 kilogram) title fight in Reno, Nevada in January. The referee stopped the fight and awarded a knockout to Billy Chau, who had knocked Milt Bennett to the canvas in the second and sixth rounds, forcing a standing eight count. Billy Chau was ranked No. 1 by the WKA in the super-welterweight division prior to the fight.

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Canada

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