

# Canada Weekly

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## Company produces foods with longer shelf-life

A Canadian company is developing nutritional dairy and non-dairy foods that can last more than three months without refrigeration.

Nelson's Dairy Limited of Weston, Ontario is developing the products with a longer shelf-life under a National Research Council of Canada industrial grant.

Shelf-life is one of the main complaints registered by customers when milk products are returned to the store — they go "off" in a short period of time — resulting in a financial loss to merchants and considerable inconvenience to the consumer. In addition to being able to keep products longer, extended shelf-life would eliminate the cost of refrigeration and freezing, save energy, and encourage the introduction of new dairy products.

In North America, people are used to the fresh pasteurized taste of milk beverages which must be sterilized in order to prolong shelf-life. But attempts to introduce sterilized milk, which has a slightly

cooked or chalky flavour, have met with considerable resistance.

Nelson's itself had tried distribution of sterilized milk products in the Toronto area in 1968, but met with failure because of the flavour, incomplete sterility, packaging problems and the high cost of ingredients and processing. The company subsequently concentrated its efforts on producing coffee cream for institutional users.

### Problems with sterilization

To sterilize milk it must be subjected to ultra-high temperatures (at least 136 degrees Celsius) for short holding times in order to obtain a product of high bacteriological quality with little change in colour, flavour, or nutrition. But high temperatures diminish the original properties of milk giving it a cooked flavour. Coagulation, wheying off, or precipitation may also occur. Often, enzyme reactivation after sterilization and during



Development of a fortified skim milk sterilized by the ultra high temperature system with added milk proteins and vitamins, has been completed. Dairy employee Lester Dobosz measures the viscosity of the finished product.



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prolonged storage takes place, and certain spore-forming organisms, which are inactive during sterilization, may become activated during long periods at room temperature.

Nelson's has put together a highly qualified research team which is working to find answers to basic problems of microbial and physical-chemical stability of dairy and non-dairy foods. In addition, considerable effort is directed towards the sterility of conventional packaging material.

Parameters and techniques such as ultra-high temperatures, homogenization pressures, storage temperatures, organoleptic and nutritional properties, body and texture, appearance, colour, etc., are currently being evaluated in research studies and data is carefully analyzed and related to each specific product during its entire shelf-life.

Products such as coffee whitener, chocolate-flavoured drinks and ice cream mixes are just a few of the many under study. Available sources of all ingredients are currently being investigated and these will be analyzed for microbiological, chemical and taste qualities. Vegetable proteins, corn syrup solids, vegetable fats, emulsifiers and stabilizers are now being introduced and tested and particular attention is being given to whether or not spore-forming bacteria will reactivate during the course of long shelf storage.

#### Potential international markets

The end products — sterilized chocolate milk, egg nog, coffee whitener, sterilized



*Chin Ting, operating the pilot plant in Weston, Ontario, where studies are carried out on homogenization pressures, storage temperatures, nutritional properties, body and texture, appearance, colour, etc. of each product.*

milk and partially skim milk, butter milk, fruit flavoured milk and low calorie sterilized diet products — will have a potential market both in Canada and abroad. Some are expected to replace existing pasteurized products at refrigeration temperature. And due to lack of refrigeration costs, the consumer may enjoy price benefits.

Last year, the company marketed its



*Nelson's Peter Cheng and Diana Neizvestny discuss the quality of cream being tested.*

newly formulated liquid coffee whitener in packages capable of holding the product stable and in a durable form for 90 days (the usual length of time is only 15 days) on a regular refrigerated shelf. The company expects this item alone will generate up to \$1 million in additional sales this year and \$5 million in three year's time.

Development of a fortified skim milk sterilized by the ultra-high temperature system has now been completed. The new product, which contains added milk proteins, is fortified with vitamins and has a taste more closely associated with 2 per cent milk. The company hopes to obtain a significant percentage of the Ontario market with this and its sterile chocolate milk (now being developed).

Ice cream mix, ice milk and sherbet are also under investigation and have been taste tested against major leading domestic and imported brands and were found to be highly acceptable.

*(Excerpts from an article by Joan Powers Rickerd in Science Dimension 1981/6.)*

#### Work sharing funds increased

Employment and Immigration Minister Lloyd Axworthy announced that an additional \$20 million has been allocated to the federal government's work sharing program.

The program, aimed at preventing temporary layoffs, was introduced in early January with a budget of \$10 million. By March 2, the program had prevented 4 271 layoffs, and more than \$11 million had been committed.

Under work sharing, all employees in a work sharing unit agree to work one to three days less a week to prevent layoffs. Unemployment insurance benefits are added to the salary so that most workers receive about 90 per cent of their normal weekly pay.

There are 9 671 workers involved in the work sharing projects, 56 in Ontario, 47 in British Columbia, 17 in Manitoba, 11 in Quebec, nine in Nova Scotia, eight in Alberta, five in Saskatchewan, one in New Brunswick and one in Newfoundland.

"The response to the program clearly shows that workers and employers will accept imaginative measures if they are convinced that jobs can be protected," said Mr. Axworthy.

Nelson's Dairy photos

## Law of the Sea Conference

A Canadian delegation is currently attending the eleventh session of the Third United Nations Conference on the Law of the Sea being held in New York.

Canada's Ambassador to the Conference J. Alan Beesley led the delegation to the session, which is scheduled to be the final negotiating session of the conference. It is hoped that negotiations can be concluded so that the Law of the Sea Convention might be ready for signature in September, in Caracas.

### Comprehensive convention needed

Canada has stressed the importance of achieving a comprehensive and universal Law of the Sea Convention for many years. The success of the conference is important to Canada, not only in terms of national interests as a major coastal state with a broad continental shelf but also from the broader perspective of peace and security on the oceans.

The United States has endorsed the multilateral treaty-making process as the best means of solving law of the sea problems, but is seeking changes to the provisions on deep seabed mining in the draft Law of the Sea Convention. Canada has encouraged the United States to put forward realistic proposals for changes in the draft convention which would not upset the fundamental agreements achieved over the past nine years of negotiations.

## Somalian president visits Canada

Somalian President Mohamed Siad Barré visited Canada, March 16-17, at the invitation of Governor General Edward Schreyer.

While in Ottawa the President met with Prime Minister Pierre Trudeau, other ministers and parliamentarians to discuss international issues and bilateral questions such as Canada's humanitarian relief assistance to refugees in Somalia.

### Funds for university

During his visit, Secretary of State for External Affairs Mark MacGuigan announced approval of a \$2.16-million project to assist in upgrading the Somali National University. The University of Saskatchewan will participate in the venture with Canadian funding being provided by the Canadian International Development Agency (CIDA).

The primary objective of the project is to train and upgrade Somalian graduate students and faculty members in the areas of agriculture, education, health and veterinary medicine. CIDA will provide financing for fellowships, training, equipment, library books and journals, transport vehicles and laboratory materials.

### Feasibility study

In addition, CIDA has approved in principle a contribution of \$150 000 to two Canadian companies, Ontel Communications Limited and Alberta Government Telephones, to conduct a feasibility study of a pilot rural radio system in Somalia. The study would determine the technical, economic, financial and social factors involved in improving communication links between major centres in Somalia. The \$3-million project will also receive funds from Arab financial institutions.

Canadian assistance to Somalia will reach about \$10 million in the current fiscal year, including food aid, refugee relief and other types of humanitarian assistance. Since 1979, a number of Canadian church and voluntary groups have been active in providing assistance to refugees in Somalia, most notably World Vision and the Mennonite Central Committee.

## Mining incentives proposed

A review of mineral policy in Canada, stressing the need for measures to help junior mining companies and promote Canadian mining machinery manufactur-

ing, has been released by Mines Minister Judy Erola.

The review sets out a proposed framework for policies to be developed and implemented in support of the government's economic development strategy for the 1980s.

It notes specific needs in the areas of government research, employment opportunities for natives and women, enhanced international markets and provision of infrastructure for new mines. The review acknowledges provincial government ownership of resources and the importance of private sector initiative in mining.

Mrs. Erola said the study comes at a time when international mineral markets are depressed. Since the Canadian industry exports the great bulk of its production, the results are being felt in lower returns, production cuts and unemployment.

### Small companies uncover deposits

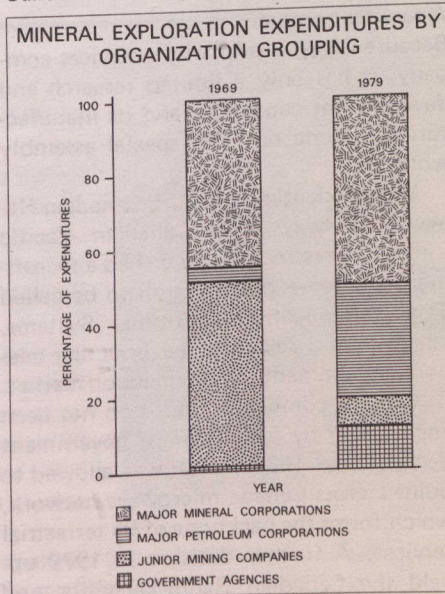
Small junior mining companies, largely Canadian-owned, have a solid record of making mineral discoveries in this high-risk sector, where only one hole in 1 000 drilled yields a significant deposit, said Mrs. Erola.

To aid this sector, the review suggests revamped tax incentives geared to companies with smaller incomes and more government research into new techniques to explore and develop mineral deposits. It proposes encouragement for custom milling operations and a speedier transfer to the whole industry of geological information collected from individual firms by the government.

### Mines ministers meet

A federal-provincial mines ministers meeting was held in Ottawa, January 18 — the first such meeting in four years. At that gathering, the review was thoroughly discussed, a first step in the process of consultation being pursued by the federal government. The views of industry and labour have also been sought.

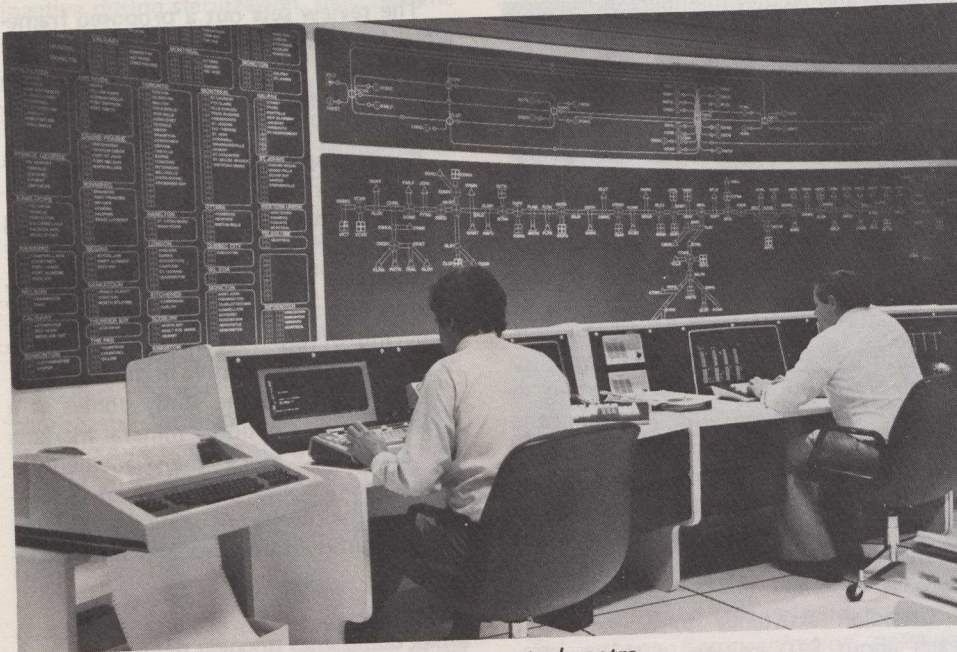
The meeting decided to have an existing federal-provincial working group of officials analyze the tax system to see what tools are available to help mining companies and to strike a special task force to identify the particular needs of communities dependent on mining for their economic life, especially those hardest-hit by the recession. All provinces agreed to study the feasibility of a national mining accident data base. The ministers will meet again in September.



Help needed for junior mining companies.

EMF

## CNCP telecommunications company growing rapidly



A view of the CNCP network management control centre.

Canadian National and Canadian Pacific (CNCP) Telecommunications of Toronto is growing rapidly with revenue expected to advance 20 per cent and exceed \$330 million in 1982, according to the company's president and chief executive officer John Graham Sutherland.

The corporation was created last year when the telecommunications operations of Canadian National Railways and Canadian Pacific Limited were amalgamated. CN Telecommunications has its headquarters in Toronto while CP Telecommunications is based in Montreal.

CNCP represents the only major competition to the telephone companies comprising the Trans-Canada Telephone System. Of the 13 per cent of the Canadian telecommunications industry that is not a monopoly and open to competition, CNCP has about a 35 per cent share of the business.

### Data communications

CNCP is primarily in the data communications services business. CN Telecommunications also owns two telephone companies, NorthwestTel Incorporated of Whitehorse and Terra Nova Tel Incorporated of Gander, Newfoundland.

The corporation's traditional Telex services constitute half of its business, followed by private wire data services for government and industry. Last year, CNCP installed a record 3 000 new Telex terminals to an existing base of 50 000 machines.

Capital expenditures amounted to \$72 million in 1981 and CNCP will spend \$93 million by 1986 to expand and modernize the basic network, and to gradually eliminate the use of pole lines.

One of the company's newer services is the Infotex network, which allows communicating word processors made by a number of different vendors to "talk" to each other. The vendors include AES Data Limited and Micom Company, both of Montreal; Wang Laboratories Incorporated of Lowell, Massachusetts; and Nelma Electronics Limited of Mississauga, Ontario.

### A services company

Because CNCP is primarily a services company, it has only a limited research and development capability, and its manufacturing is done only for special assembly work.

Independently of CNCP, Canadian National Railways and Canadian Pacific Limited, have recently launched a recruiting drive for a new division to be called Telecommunications Terminal Systems, which would sell into the booming telephone equipment interconnection market.

CNCP's competitive position has been encouraged by a number of government decisions. In 1961, CNCP was allowed to build a cross-Canada microwave network, which forms the backbone of its terrestrial services. A further decision in 1979 upheld the Canadian Radio-Television and Telecommunications Commission (CRTC)

recommendation that CNCP be allowed to interconnect its installations with Bell Canada's network.

With the expansion of its microwave network in the Ottawa-Montreal-Toronto triangle, CNCP is in a favourable position to exploit that market. The extra business is worth \$50 million a year.

Because the CRTC does not have jurisdiction over telecommunications outside Ontario, British Columbia, parts of Quebec and Newfoundland and the Northwest Territories, CNCP and its users are requesting similar decisions from other regulatory agencies in the country.

## Quebec company specializes in essential items

Industries Provinciales Limitée (IPL), a Quebec company specializing in manufacturing household items, has grown in the past 30 years from a small family business to an international competitor.

The company, located in St. Damien de Bellechasse, Quebec, is one of the largest of its kind in Canada, and provides a range of about 850 different personal and household products.

Founded in 1939 by Emile Métivier, IPL started out manufacturing only brooms and mops. In 1950, IPL branched out into brushes of all kinds, making toothbrushes their specialty. Later, a small injection moulding press was purchased to produce plastic toothbrush handles. Plastic was also used for a wide variety of industrial products varying from milk and soft drink crates to maple syrup pails.

### Continual growth

IPL has grown steadily since then, never ceasing to make innovations in the process. In 1978, IPL marketed a new set of high-quality plastic kitchenware called Collection IPL.

The company has 37 injection moulding machines and three extruders of the latest design. A staff of 450, including engineers, technicians and designers, is employed at the factory.

Exports represent 12 per cent of IPL's annual sales which were over \$24 million in 1981. The company exports fish packing containers and shipping crates which are purchased by New England fishermen. Collection IPL products are exported mainly to Australia, Germany, France, Scandinavia and Italy and have won several prizes for their design and quality.

## Island declared international site

St. Croix Island (or Docket's Island), situated in the middle of the St. Croix River has been declared an international island and will be administered jointly by Canada and the United States.

The St. Croix River, which divides New Brunswick from Maine along the southern edge, was declared the boundary between New Brunswick and Maine by a treaty in 1783. The island at that time was considered part of the United States because of its location in the U.S. side of the river.

St. Croix Island, however, is considered to have more historical significance for Canadians. It was on the island in June 1604 that Sieur de Monts and Samuel de Champlain started the first permanent French settlement in North America. During the following harsh winter, the colonists were cut off from their main-land wood supply by ice floes moving in and out with the tides. In addition, many contracted scurvy and by the end of the winter, 35 in the colony of 79 had died.

St. Croix Island was declared a U.S. national landmark a few years ago by the U.S. government. However, in 1979, New Brunswick's Acadians, celebrating the three-hundred-and-seventy-fifth anniversary of their founding, had to travel to U.S. soil to visit the site of what they called "the founding of Canada".

In addition to being the first French settlement in North America, St. Croix was also the site of the first European settlement in North America, north of Florida.

## Eldorado plans spending increase

Eldorado Nuclear Limited, a Crown corporation which mines and refines uranium and produces nuclear fuels, will spend \$218 million this year on several new ventures.

The capital budget of the corporation, which was recently approved by the federal Cabinet, reflects an increase of 63 per cent over spending in 1981.

The corporation will spend \$87 million on the construction of a new uranium refinery at Blind River, Ontario. The plant, with a refinery capacity of 18 000 tonnes a year of uranium ore, is expected to be completed in 1983 at a cost of \$152 million.

### Addition to plant

In addition, the corporation expects to spend \$44.9 million on an addition to its conversion plant in Port Hope, Ontario, which transforms the refined uranium to nuclear-grade material. The expansion is to be completed late next year at an estimated cost of \$106 million to meet the increased refinery plant capacity.

Eldorado still requires approval from the Atomic Energy Control Board before construction can begin this year at the Port Hope plant.

Key Lake uranium mine in Saskatchewan, which is due to open in 1983, will receive \$59.3 million. Eldorado holds 16.6 per cent interest in the Key Lake project through a subsidiary, Eldor Resources. The majority shareholder is Uranium Mineral Development Corporation, a provincial agency.

## Job insurance for executives

"Careerguard", North America's first executive job insurance plan has been started by Gestas Incorporated of Montreal.

The plan, available through most insurance brokers, guarantees an executive full salary for up to two years after he has been dismissed from his company.

The career protection plan, according to a Gestas spokesman, will afford fired executives at least an element of dignity — through financial stability — after they have been fired.

### Specialized skills required

Being an executive used to be a reasonably secure position," a Gestas spokesman said, "but not any more. Companies are looking for specialized skills from their executives. When they've picked those skills clean, they now toss out the executive."

Recent Statistics Canada figures show that executive firings are now almost three times the rate they were in 1975.

According to the firm, executives have become the least mobile of the labour force and are at a distinct disadvantage in coping with job dismissal.

The new insurance plan which also provides executive relocation consulting services, is available only to those in the \$25 000 to \$100 000 a year salary bracket.

Premiums are based on 1.3 per cent of salary and it pays up to six months salary for policy holders in their first year, a year's salary for those in the plan from one to five years, and two year's pay for policy holders of five years and over.

## Canadian firm helps build British robot

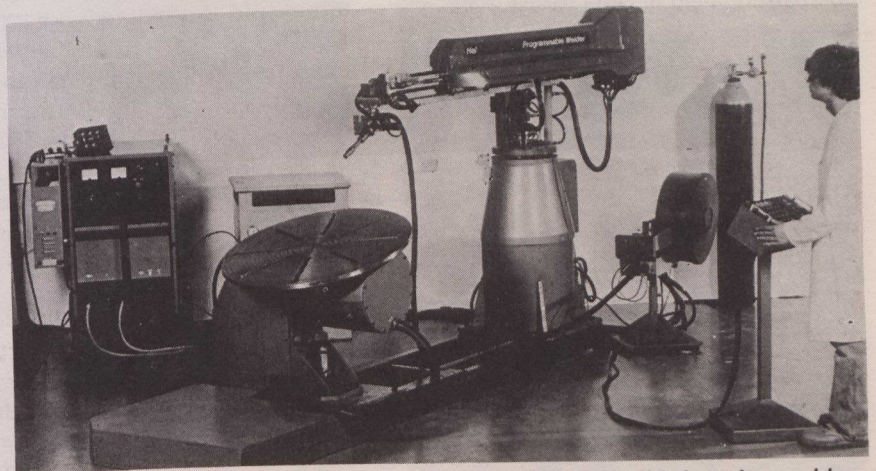
A Canadian company has signed an agreement to help build a British-designed robot.

Harber Manufacturing Limited of Fort Erie signed the agreement with Hall Automation Limited of Watford, England and members of the GEC group. The agreement also covers sales and distribution rights for the equipment in Canada and the United States.

Harber Manufacturing, which makes wood-burning stoves and aluminium boats will add North American welding components, hydraulics, and workpiece positioners to the torch manipulator and system 90 microprocessor control console supplied by Hall Automation. About two-thirds of each unit's value will represent Ontario content.

The robot welder operates in a manner that allows fast, accurate seam welding of sheet metal to take place. Once programmed, the unit works automatically and it can be applied in any batch or mass production welding plant with considerable increases in productivity.

(An article from Ontario Bulletin, dated February-March 1982.)



Harber Manufacturing will help build the robot welder.

## Library starts program for disabled

The National Library of Canada has announced a new program that will benefit disabled Canadians.

The program is designed to help meet the needs of many Canadians whose access to information is limited by a reading disability. Under the program, the National Library will provide information and advice to libraries across the country. The service is in response to the federal government's report of the Special Commons Committee on the Disabled and Handicapped, released last year.

To avoid duplication of effort among libraries, the National Library will provide information on special materials being produced for the print handicapped and on new aids to help disabled readers.

The National Library will also hold a registry of reading materials with information on titles in braille and on tape so that other producers of such materials, as well as libraries and educators, can pass the information on to users. Once these titles have been acquired by libraries, the National Library will keep records of these library holdings in a catalogue for the visually and physically handicapped. Print handicapped readers will also benefit from their own register of reading materials which will be maintained by the National Library.

## Canadian skiers win at World Cup competitions

Canadian skiers won both the men's and women's events at the World Cup aerial competition held in Sella Nevea, Italy.



Marie-Claude Asselin

Athlete Information

Jean Corriveau, 23, of Quebec City, defending World Cup aerial champion, performed a twisting triple somersault on his final jump to win his third consecutive aerial event.

Marie Claude Asselin, 19, of St. Agathe, Quebec, captured her fifth consecutive women's aerial competition, landing a double somersault called a layout tuck. Asselin also won the women's combined gold medal after placing second in the mogul competition and fourth in the ballet event.

## Acid snow threatens Arctic

Federal scientists have determined that the level of acid snow falling in the high Arctic now is more than twice the historical average.

Data for the federal study by Drs. Roy Koerner and David Fisher was gleaned from the 300-metre-thick glacier on Ellesmere Island, which contains ice dating back thousands of years. Results from their experiments indicated that acid levels started to climb in the 1950s.

The new data, recently published by the two scientists in the science journal *Nature*, shows that at the current rate of increase the level of acid in the Arctic snow could be five times the 10 000-year norm by the turn of the century. Dr. Koerner cites man-made pollution as the only possible explanation for the increasing acid rain.

Canada's acid-rain monitoring network has been gathering data for less than a decade and the oldest evidence from the United States dates back only to the 1950s. The haze that results from the pollution can cut winter visibility in the Arctic from 300 to 30 kilometres and is important in that it proves "the link between pollution in the Arctic and distant sources", according to an Environment Canada spokesman.

"Our interest now is to find out where it's coming from," said Dr. Koerner, who uses the help of many scientists travelling in the Arctic for the project.

While the amount of acid falling in the snow in the Arctic today is surprising to researchers because Ellesmere Island is several hundred kilometres from the nearest source of pollution, the concentration of acid in the precipitation on the island is about ten times weaker than that threatening lakes, crops and human health in the eastern Canadian and New England states.

## Canada at computer exhibition

Three Canadian companies were among those which took part in the first Gulf Computer Exhibition held recently at the Dubai International Trade Centre in the United Arab Emirates.

Arabic Latin Information Systems of Montreal showed the first products in its complete line of peripherals and micro-computers handling Arabic scripts. Also shown were the *Alis* terminal and printer, which form the basis of a low-cost Arabic micro-computer where English is not required, and the *Alis* bilingual terminal and twin-headed printer for applications requiring simultaneous processing of both Arabic and English script.

## Simultaneous translation

Arya Systems International Incorporated of Montreal showed a word and data processing system which can handle English, French and Arabic or any other three languages simultaneously.

Systems Dynamic Corporation of Markham, Ontario displayed software products for applications in business management, manufacturing, government, education, food distribution and report writing, together with a desk-top micro-computer system.

## Ontario Hydro Candus top list

Ontario Hydro's eight Candu reactors, as a group, were the best performers among the non-communist world's nuclear power stations last year, according to a recent issue of *Nucleonics Week*.

Five of Ontario Hydro's reactors placed in the top ten and all eight in the top 20 of a survey by the New York-based McGraw-Hill Incorporated news-letter which rated 130 reactors in the non-communist world.

## Rated first and second

Unit 1 at the Bruce Nuclear Power Development site ranked first with a 95.5 rating, followed by Unit 4 at the Pickering site with 92 per cent. The rankings measure reactor output performance as a percentage of capacity.

A 100 per cent rating would require a reactor to produce at maximum generating capacity 24 hours a day throughout the entire year.

Ontario Hydro has four reactors at both the Bruce and Pickering sites.

# News of the arts

## Canadian heads new arts and conference centre in London

The newly-opened Barbican Arts and Conference Centre is headed by Canadian Henry Wrong and one of its first exhibitions is Canadian.

Construction began on the centre 20 years ago and Wrong was engaged 12 years ago to administer the centre.

### Arts management career

For the past 30 years, Wrong has pursued a career in arts management in the United States, Britain and Canada.

After graduating from the University of Toronto in 1952, he joined the Metropolitan Opera in New York as an assistant to Rudolf Bing. Some of his duties included the planning of the Lincoln Centre which became the opera hall for the Metropolitan.

He came to Ottawa in 1964 to help plan the National Arts Centre and remained there as head of programming

until 1969. During the Canadian centennial celebrations in 1967, Wrong was involved in Festival Canada which for the first time presented 33 Canadian and foreign performing arts companies across Canada.

One of the highlights of the opening of the Barbican Centre was an exhibition of Canadian tapestries.

### Canadian tapestries exhibited

The collection was assembled by the Agnes Etherington Art Centre in Kingston, Ontario. Financial support was provided by the Department of External Affairs. Tapestries by 22 artists from all regions of the country were featured, including: David Kaye, Susan Watson, Aiko Suzuki, Ursula Matrasov, Susan Warner Keene, Kai Chan, Guerite Fera Steinbach, Joyce Wieland and Hilda Schrier.

## Exhibition depicts history of eighteenth century America

*Colonial America: Eighteenth-Century Views*, an exhibition currently at the Royal Ontario Museum in Toronto, reflects some of the history that altered the face of North America during the eighteenth century.

Associate curator Mary Allodi prepared the exhibition largely from the Sigmund Samuel Collection at the museum.

The exhibition includes: prints, oil

paintings, water colours and illustrations from rare books which depict views of early cities, landscapes, maps and battle plans.

### Military artists

The works of several military artists are represented in the exhibition. These well-trained draftsmen produced maps and plans and, often in their leisure time, sketched city and landscape views that

were later published as prints.

It was these types of pictures that were readily available to the eighteenth-century European public eager for visual



Cunne Shote, The Indian Chief, a Great Warrior of the Cherokee Nation by James McArdell, 1763.

information about the growing North American eastern seaports, the exploration of the uncharted west and the newly independent colonies of the south.

Portraits, cartoons and battle scenes that depict the heroes and the political events of the century are also included.

## Mozart prizes awarded

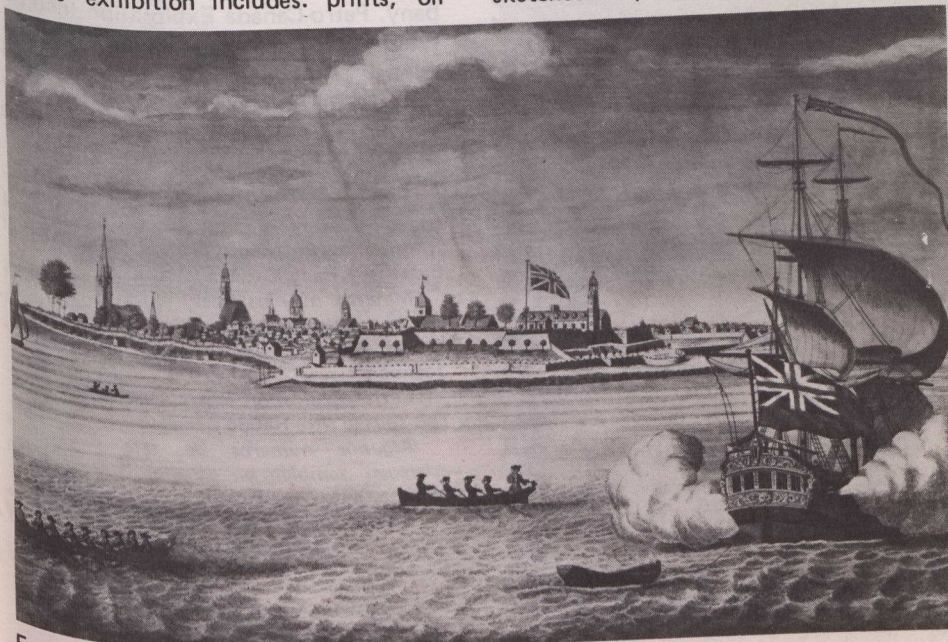
Soprano Shari Saunders and bass Christopher Cameron received the top awards of \$2 000 each in the finals of the first Canadian Mozart Singers Competition.

The competition was established through a private donation, and is administered by the Canadian Opera Company Ensemble as part of its program to develop young Canadian singers.

Divided into categories for female and male voices, the competition featured 12 young singers (30 and under) selected in audition from across Canada.

Miss Saunders is a native of New Brunswick, currently studying in Montreal, and Cameron has already gained recognition in a variety of musical activities in Toronto, where he was born and has received most of his training.

Honourable mention in the competition was awarded to Irena Welhasch, a Winnipeg soprano.



Fort George, with the City of New York, by J. Carwitham, 1764.

Royal Ontario Museum photos

## News briefs

Toronto's Litton Systems Canada Limited has won an additional \$60-million (Cdn.) contract to supply LN-35 inertial navigation systems to the U.S. Department of Defense. Arranged by the Canadian Commercial Corporation, the contract was won under the U.S.-Canada defence production sharing arrangement, and brings the value of the original contract awarded to Litton Canada in March 1981 to more than \$110 million.

The University Consortium for Research on North America (Harvard-Brandeis-Tufts-The Fletcher School of Law and Diplomacy) has been awarded a five-year grant from the government of Quebec, valued at up to \$200 000. The grant, annually renewable, will help support a research project on Canadian-American relations in the 1980s and will fund a senior fellowship for research on Quebec. The consortium research is co-directed by Professor Lily Gardner Feldman of Tufts University and Professor Panayotis Soldatos of the University of Montreal.

Preliminary figures show that the number of visitors to Canada in 1981 increased by 3.1 per cent over the previous year's figure, while the number of Canadians leaving the country decreased by 3.6 per cent. The number of U.S. visitors reached 39.8 million (an increase of 3.3 per cent) while overseas travellers totalled 2.1 million. Long-term visitors (one or more nights in Canada) from the U.S. and overseas numbered 13.2 million last year, an increase of 1.7 per cent over the 1980 figure.

A Canadian firm, in a joint venture with a British company, has been awarded an \$850 000 automated trading system for the London International Financial Futures Exchange. Homestead Computer Services Limited of Winnipeg and International Data Media Limited of London will install the system which is expected to be in operation by next September. The Winnipeg firm designed and implemented the automated trading system the Winnipeg Commodity Exchange started in July 1980.

Health and Welfare Canada has announced that projects involving 23 755 participants in 159 senior citizens groups across Canada will receive federal contributions totalling \$971 895. The funds are made available through the department's New Horizon program.

The Manitoba government, has announced a \$23-million, two-year interest-relief program that will assist needy homeowners, businessmen and farmers. Homeowners whose new mortgage payments exceed 30 per cent of their household income will receive benefits up to \$275 a month. Some farmers and businessmen will be eligible for up to \$6 000, which will take the form of a 50 per cent grant and a 50 per cent repayable loan that will be interest-free for up to 24 months.

Varian Canada Incorporated of Georgetown, Ontario has been awarded a \$1.7-million (U.S.) contract to supply portable magnetometers to the United States Navy. The contract calls for the shipment of 144 units, with an option to double this quantity by December and thus increase the contract's total value to \$3.7 million (U.S.). Delivery of the initial order of magnetometers, used in the detection of buried ferrous metals, is scheduled for May 1983.

Bombardier Incorporated of Montreal has received an order to supply rail equipment valued at \$9.3 million to Peru's national railway, Empresa Nacional de Ferrocarriles S.A. The parts include eight locomotive bodies, a marine diesel engine and equipment for diesel electric locomotives.

The number of marriages solemnized in 1980 in Canada was 191 069, an increase of 1.7 per cent over the 1979 figure. The rate per 1 000 population was eight, a fractional increase from that for the previous year. Among the provinces, Alberta had the highest marriage rate (ten) in 1980 while Newfoundland had the lowest. Slight decreases in the number of marriages were registered in Quebec, Nova Scotia and New Brunswick while Ontario and the western provinces recorded increases in the numbers compared to those of 1979.

The Export Development Corporation (EDC) has approved five financing agreements totalling \$3.8 million (U.S.) to support Canadian export sales to the Netherland Antilles, Yugoslavia and Israel. Sales include trucks, and construction and agricultural equipment.

Gulf Canada Resources Incorporated of Calgary has placed an order with Nippon Kokan KK, Japan's second-largest steel-maker and a leading shipbuilder, to build an ice-breaking vessel. The vessel, to be delivered in April 1983, will be used for transporting supplies to offshore drilling installations and in anchor-



Marg Schur of Ottawa uses a different kind of putting touch to chip the ball into the cup during a little winter fun on the golf course at Dunrobin. "Fore!" was not necessary as only yellow tennis balls were in play during a recent nine-hole tournament.

handling operations, towing and ice management in the Beaufort Sea.

Minister of Indian and Northern Affairs John Munro has approved the drilling of four wells by Panarctic Limited in the high Arctic. While Panarctic is the operator and has a working interest in all four wells, other participants in the drilling include: Suncor Incorporated, Phoenix Resources Company, Petro-Canada Exploration Incorporated, Esso Resources Canada Limited, Global Arctic Islands Limited, Gulf Canada Resources Incorporated, Phillips Petroleum Canada Limited and Dome Petroleum Limited.

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