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Hydrographic agency celebrates a hundred years of service

The Canadian Hydrographic Service, responsible for surveying and charting Canadian waters, is marking its centennial this year and Minister of Fisheries and Oceans Pierre De Bané recently made an address at the opening of the Toronto International Boat Show on the services provided by the organization.

The following are excerpts from the minister's speech:

...Today \$40 million a year is spent on surveying and charting Canadian waters and there are charts that are specifically designed exclusively for the recreational boater. When the service was established 100 years ago, the situation was very different.

Back in 1882 there was a terrible marine disaster. The steamer, *Asia*, foundered in a great storm in Georgian Bay and 150 lives were lost. This accident made it clear that early nineteenth century charts designed for small sailing vessels simply were not adequate for the iron-hulled steamships of the 1880s. Thus the Canadian Hydrographic Service, under the name of the Georgian Bay Survey, came into being....

The service and the wide range of charts and publications which it provides today bears little resemblance to that early organization. Today the service publishes more than 1 500 nautical charts covering all of Canada's navigable waters. With a staff of 600 people working out of five offices across the country, Canada has developed a world-wide reputation for excellence in its hydrographic activity.

Where once survey soundings were painstakingly made by dropping a lead-line overboard at regular intervals, today we have research and development projects to study how to use laser technology in surveys. We are already employing satellites and remote sensing technology to work in the survey data collection process and we have made great strides in automating chart production through computer technology.

Current and accurate charts

What does all this mean to the recreational boater? As the recreational boater is purchasing more than 60 per cent of



Minister of Fisheries and Oceans Pierre De Bané (centre) presents Toronto's Harbour Master, Captain John Mann (left) with a copy of the first nautical chart of the Toronto area at the Toronto International Boat Show. The person on the right is dressed as British Admiral Henry Wolsey Payfield who charted Canadian waters from 1816-1856.

Department of Fisheries and Oceans

the half million charts sold annually in Canada — all this technological improvement will ensure continuing production of up-to-date, accurate charts by the most efficient and cost-effective methods.

In fact, the Hydrographic Service is spending in excess of \$3 million on research and development in new technologies during the current fiscal year.... One area of research that may prove particularly useful for the production of recreational charts is the increasing use of aircraft remote sensing technology for



External Affairs
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shallow water surveys. This will assist in the increased production of charts, particularly of inland lakes and river systems.

In addition to the regular charts, the recreational boater has all the additional publications of the Hydrographic Service — sailing directions, small craft guides, small craft charts and the tides and currents tables which are available to assist him in reaching his chosen destination. And that destination may well be a marina developed through the department's small craft harbours program. This year, small craft harbours and related facilities were developed at a cost of \$40.4 million. Today there are 2 400 such facilities throughout Canada, ranging from large harbour complexes to boat launching ramps.

It may interest you to know that \$3.4 million is being spent in Ontario during the current year on harbour projects and that there are a number of major marine developments in progress in the province. The Greg Cay development at Lancaster on the St. Lawrence River system, a marina development in Sarnia, and installations being built at Bruce Mines, Grand Bend, Nepean and Hudson are among these small craft harbour developments in Ontario....

Recognizing the potential for the small craft harbours program to provide even greater economic opportunities for Canadians, harbour projects across Canada amounting to \$20 million by the end of this coming fiscal year, will be undertaken through the special employment initiatives program announced in last June's budget. Of this sum, \$2.8 million will go towards some 17 Ontario harbour projects. At the present time there are approximately 375 recreational and com-

mercial fishery harbour facilities in Ontario alone that are administered by the department's small craft harbours branch....

Search and rescue duties

All the department's vessels can and are called upon to carry out search and rescue duties in an emergency. In recent years survey parties operating in Lake Huron have been specially tasked for search and rescue duties. A specially equipped launch is kept available at all times through the boating season and carries out regular hydrographic surveys when not called upon for search and rescue. At night and on the weekends the launch crew is on standby with a special hot-line telephone to the rescue co-ordinating centre at Trenton, the Ontario Provincial Police and the local police....

In recent months we have seen much publicity about the state of the commercial fisheries on the East and West coasts as we strive to find solutions to critical problems which confront this industry.

At the same time, the federal government is concerned with developing a fuller understanding of the oceans, not just for their potential as a fishery resource, important as that is. We realize that the oceans themselves are the last great unexplored territory of the globe, a fact which has been brought sharply into focus during the lengthy Law of the Sea deliberations of the past decade. When I was in Jamaica in December for the signing of the Law of the Sea agreement, I know it was present in our minds that all nations have a shared responsibility to ensure that the exploitation of this priceless resource is adequately controlled and monitored.



NFB

Fishermen rely on the agency's services.

The Hydrographic Service is just part of the Department of Fisheries and Oceans' responsibilities in relation to the scientific exploration and surveying of Canadian waters. Programs of oceanographic and fisheries research are conducted on both coasts and at a variety of installations throughout the country. This oceanographic research is carried out during extensive cruises by ships such as the *Hudson* and *Baffin*, providing us with vital information on the biological, chemical and physical properties of the ocean and sea bottom....

Oceanography is a science in its infancy. Canada has been active in this area of research for about 25 years and in this time we have developed two major oceanographic institutes, one on each coast, as well as research facilities in Quebec City and in Ontario at the Canada Centre for Inland Waters in Burlington.

As we strive to understand the oceans, one of our priorities is surveying our Arctic waters. These have become increasingly important to Canada as we have discovered reserves of oil and gas and mineral wealth in this fragile northern environment. It is only possible to exploit these resources if we know that we have safe, charted transportation routes to bring them to southern distribution points. Here, the Hydrographic Service is performing a vital role, charting some of the most inaccessible ice-covered waters in the world, supported by elaborate computer systems and the latest technological aids. Those who are involved in this survey work are truly the explorers of our last frontier....



The Canadian Hydrographic Service provides charts for recreational boaters.

Canada considers proposal

Canada will give serious consideration to a proposal in the Prague Declaration which is directed to member countries of the North Atlantic Treaty Organization, Deputy Prime Minister and Secretary of State for External Affairs Allan MacEachen told Czechoslovakian Ambassador Vincent Buzek on January 21.

Mr. Buzek, on behalf of all Warsaw Pact countries, had officially presented the text of the declaration to Mr. MacEachen in Ottawa. The declaration contains a proposal directed to NATO member countries by Warsaw Treaty member states to conclude an agreement on "the mutual non-use of military force and on the maintenance of relations of peace".

Canada has already accepted the commitment not to be the first to use force under the United Nations Charter as a member of that organization. Moreover, as Prime Minister Pierre Trudeau pointed out in his speech at the Second United Nations Special Session on Disarmament last June, "The Charter lays down that there shall be no first use of force, any force." In signing the Helsinki Final Act of the Conference on Security and Cooperation in Europe, Canada, the United States and all European states except Albania made a similar commitment where Europe is concerned.

Mr. MacEachen said it may be useful from time to time to reaffirm obligations which have been assumed in the past, provided such statements are not treated as a substitute for balanced verifiable agreements on arms control and disarmament, including current efforts to reach agreement on the reduction of conventional forces in Europe. Canada will therefore consider this proposal seriously, he said, and discuss it with its NATO allies. The reference in the proposal to the renunciation of the first use of conventional weapons appears to be a step in the right direction. It is important because NATO is concerned over Soviet and Eastern European superiority in conventional strength.

The proposal also includes components related to arms control and confidence building measures which will receive careful and serious study. Mr. MacEachen gave the assurance that any aspect of these proposals which would lead to progress toward concrete and verifiable arms control and disarmament agreements would receive full Canadian support.

Further aid for North Yemen earthquake victims

Deputy Prime Minister and Secretary of State for External Affairs Allan J. MacEachen has announced that Canada is providing \$400 000 in response to an appeal by the Office of the United Nations Disaster Relief Co-ordinator (UNDRO) for the Yemen Arab Republic (North Yemen).

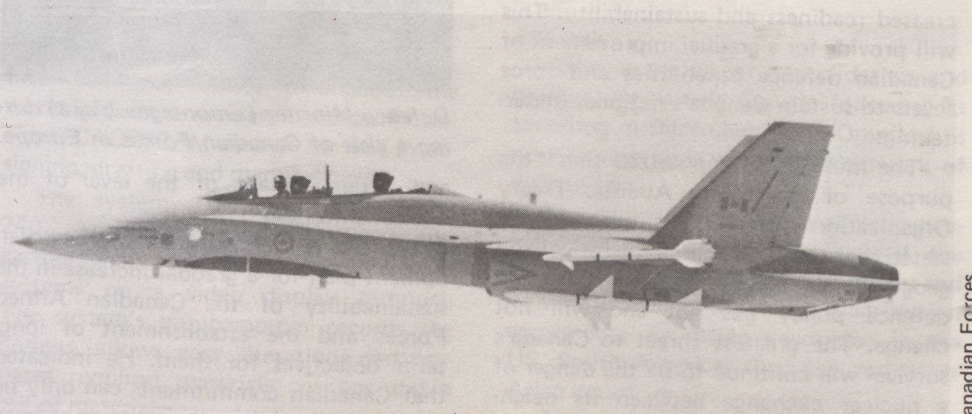
The funds, which will be channelled through UNICEF, will be provided through the Canadian International Development Agency.

Reports received from United Nations

and North Yemen sources indicate that damage, resulting from the recent earthquake in the Dhamar area, is more extensive than originally estimated. It is reported that some 400 000 people have been left homeless by the destruction of 300 villages and the need for shelter remains acute. The funds provided through UNICEF will be used to provide 2 800 tents for the affected families.

Canada provided \$175 000 for a Red Cross relief program at the time of the earthquake in December.

New fighter aircraft exceeds forces' expectations



Canadian Forces

In tests the CF-18 fighter plane has been performing exceptionally well.

The Department of National Defence is "extremely enthusiastic and happy" with its new fighter aircraft, the *CF-18*, said Major-General Paul D. Manson, chief of air doctrine and operations at National Defence Headquarters.

"In the short time that we have been operating the *CF-18* our new fighter is already exceeding our very high expectations.... It is a superb fighter," said Major-General Manson. He also said that the pilots and maintenance crews were pleased with the aircraft's performance.

For ten weeks, instructor pilots of 410 Squadron put the first two *CF-18*s delivered to Canada through their paces at CFB Cold Lake, Alberta. Operational squadron training is scheduled to commence this month. During operations conducted in cold weather down to minus 30 degrees Celsius and under light to moderate icing conditions, the *CF-18* performed exceptionally well. All avionic systems, including the radar, proved very reliable and easy to operate. The squadron has experienced aircraft availability rates approaching 100 per cent.

No less than 115 missions for a total of 147.5 hours have been flown.

Major-General Manson said he was equally enthusiastic with the training of *CF-18* support personnel. "One-hundred-and-sixty technicians are currently being converted to the new aircraft. Our servicing load will be reduced tremendously with the *CF-18*. Fifteen minute turn-arounds have been accomplished. Tires have to be changed only every 100 landings or so — compared to less than 25 landings for the *CF-101*s and *CF-104*s. On the first try, our people have changed a complete engine in four hours. With more training we'll cut that in half," he said.

The pace of training has now increased with the delivery of the third *CF-18* in December.

The new fighter plane was built in Canada by McDonnell Douglas. The contract signed with the company in 1980 was for delivery of 138 *CF-18* fighter aircraft to the Canadian Armed Forces between 1982 and 1988 (see *Canada Weekly* dated November 24, 1982).

Canada's defence capabilities to be improved to meet commitments

The Canadian Cabinet has agreed in principle that the Canadian Armed Forces should be able to meet and sustain their commitments in an emergency and to further expand their capabilities, Defence Minister Gilles Lamontagne told the fifty-first annual meeting of the Canadian Defence Associations held in Ottawa, January 13.

This policy decision will mean that more emphasis is to be placed on Canada's "total forces" and on the ability to exploit the full potential of both the supplementary and primary reserves, said Mr. Lamontagne. The decision was reinforced by the allocation of an additional \$20 million in 1984-85 specifically for increased readiness and sustainability. This will provide for a gradual improvement of Canadian defence capabilities and force levels to sustain Canada's national undertakings.

The minister re-emphasized that "the purpose of the North Atlantic Treaty Organization (NATO) is peace". He stated that the fundamental historical and geographical factors behind Canadian defence policy has not and will not change. The greatest threat to Canada's survival will continue to be the danger of a nuclear exchange between its neighbours. Thus the Canadian Forces must continue to contribute to the effectiveness of NATO to prevent a world war as well as participate in international peace-keeping efforts.

While "the challenge which the Soviet Union poses to Western democracies continues unabated", he said, "the logic of deterrence remains unassailable for it has given us 37 years of peace. Canadians must be helped to understand that this legitimate policy of deterrence, along with our positive efforts towards mutual and balanced arms reductions, provides the best hope of maintaining the peace which we enjoy".

Mr. Lamontagne then focused on the "gut-issue" of Canadian defence which, he said was "the level of forces which should, and can, be maintained to ensure the credibility of our contribution to deterrence".

Focus on conventional forces

In his address to the meeting, Chief of Defence Staff, General Ramsey M. Withers, concentrated on the need for conventional forces which he said were "a major element of effective deterrence



Defence Minister Lamontagne (right) during a visit of Canadian Forces in Europe.

and a determinant of the level of the nuclear threshold".

General Withers outlined a force development plan for a gradual increase in the sustainability of the Canadian Armed Forces and the establishment of long-term objectives for them. He indicated that Canadian commitments can only be met by a "total force" consisting of both regulars and reserves, "all parts of a single structure, tasked to carry out wartime operational and support missions".

In peacetime, priorities must be given to Canadian Forces Europe, the ocean-going Navy, and the aerospace defence forces. But, there are other missions, he said, where reserve forces can form the basis of Canada's military response — such as the defence of North America on land and in coastal waters or the protection of vital ports. Necessary personnel, equipment and supplies must be identified for each mission to ensure that assigned forces will remain effective and viable, said General Withers.

General Withers indicated that the Department of National Defence is examining the creation of a supplementary ready reserve to be made up of trained personnel, who retired in the past five years and would be immediately employable on call-up "to ensure that the peacetime posture of the Canadian Forces (is) backed by the preparations and resources — human and material — necessary to permit current commitments to be met in conventional combat".

Duty-free shop opens

The first duty free shop established on the Canadian side of the Canada-United States land border has been officially opened in Emerson, Manitoba.

Minister of National Revenue Pierre Bussières, along with Solicitor General of Manitoba Roland Penner, took part in the opening ceremony.

The duty free shop program will promote the sale of domestic goods; offer a service to the travelling public with significant levels of savings; create direct and indirect employment; and encourage private sector operation of these shops with an emphasis on the small business community.

The Emerson duty free shop now employs 12 people and will eventually have more on its payroll.

The business which will be generated will be significant to the community — for instance, more than 700 000 travellers pass through Emerson and the neighbouring US centres of Noyes and Pembina each year, and it is anticipated that 15 to 20 per cent of eligible travellers will make a duty free purchase, averaging about \$20 each.

The national duty free shop program is expected to generate more than \$80 million annually when fully implemented over the next few years.

Unique fish found in Nova Scotia

The Acadian whitefish, last reported in 1925 and feared to be extinct, has been discovered alive and well in Millipsigate Lake, near Bridgewater, Nova Scotia, reports the *Canadian Press*.

A small population of the whitefish, one of the few fish species unique to Canada, was found in the lake by a team from the Department of Fisheries and Oceans and the National Museum of Natural Sciences.

The species was known previously to exist only in the lake and the waters of the Tusket River in Yarmouth County, Nova Scotia.

Recently featured on a Canadian postage stamp, the species was thought to have been destroyed by dams and acid rain.

Little is known of the history of the species. Other waters in southern Nova Scotia will be explored to determine whether other populations exist beyond the waters of Millipsigate Lake.

Canadian Forces

Nuclear waste breakthrough

An important technological breakthrough with particular application to the nuclear industry has been announced by McGill University scientists, Dr. Irving W. DeVoe and Dr. Bruce E. Holbein.

Following three years of laboratory research, the Montreal doctors have developed a series of compounds specifically designed to remove virtually all hazardous radioactive metals from water and other waste materials found in nuclear power plants. Unlike conventional methods of removing radioactive material, these novel compounds represent the first technology that can extract even the smallest traces of radioactive metals.

In addition to waste clean-up in power plants, Drs. DeVoe and Holbein believe their compounds will be important in the areas of nuclear waste management, environmental monitoring for radioactive contamination and reduction of corrosion in nuclear reactor water cooling systems. Scientists and engineers of Atomic Energy of Canada Ltd. have recently expressed enthusiasm for the potential of this new technology, assuming field trials prove as successful as the laboratory tests.

Drs. DeVoe and Holbein say their compounds, for which they have several patents pending, will soon be ready for full-scale testing world-wide.

TREC on the ocean's floor

Thanks to a box-like structure loaded with cameras, floodlights and electronic equipment, video pictures can now be sent from the floor of the ocean to a ship riding the waves above.

The device called TREC — Tethered Remote Camera — is manufactured by International Submarine Engineering Ltd. (ISE) of Port Moody, British Columbia, an international high technology company that has pioneered the design and production of unmanned submarines. Of the 150 such submersibles, costing from \$135 000 to \$1 million, now in use throughout the world, ISE has built half of them.

TREC, which weighs some 182 kilograms, can dive to 365 metres. The structure measures 114-by-357-by-387-centimetres.

TREC is one of three other submersibles the firm designs:

— TROV, Tethered Remotely Operated Vehicle, which has a crab-like mechanical

arm that can close valves, recover torpedoes or carry sonar equipment. (A TROV found the sunken ship in the North Atlantic that, for a few exciting days last summer, was assumed to be the *Titanic*.); — DART, Deep Access Reconnaissance Television, which is a compact 101-by-45-by-30-centimetre device weighing some 40 kilograms, that can slip easily into underwater pipes and other narrow places;

— Sea MARC, Sea Mapping and Remote Characterization, which scans and maps the bottom of the sea, discovering and identifying geological hazards to shipping. (The United States Geological Survey

used Sea MARC to map almost 3 000 square kilometres along the slope of the eastern continental shelf in 17 days.)

The company was created in 1974 by its president, Jim McFarlane, who retired from the Canadian Navy in 1971 when he began building manned submersibles. He formed ISE when high density integrated circuitry became available. In less than a year he had built the first TROV and sold a model to Canada's Environment Department for \$100 000.

For more information, contact International Submarine Engineering Ltd., 2601 Murray Street, Port Moody, British Columbia, Canada V3H 1X1.

Computer graphics firm eyes world-wide markets

Ottawa's Omnitech Graphics Systems Inc. is making life easier for designers, draftsmen and map-makers throughout the world with its newly developed computer-aided CADD/CAM system for use in designing, drafting and manufacturing.

The system, trade-marked "ERGOS 240", enables designers, draftsmen and cartographers to design products and systems on a video display terminal. The system's minicomputer records the designs, allows easy alterations and prepares required materials costings and a bill of materials.

Once the drawings have been produced, another Omnitech software package lets the system be used to co-ordinate and direct the manufacture of parts and

assembly.

After a period of consolidation and building its base in Canada following its founding in December 1979, Omnitech is now setting up a world-wide network of distributors.

The company has already signed agreements with distributors in England, the eastern United States, West Germany and Taiwan as well as Indonesia. Distribution agreements are being negotiated in the US, South America, Australia and other Asian countries.

At prices ranging from \$125 000 to \$150 000, the company's systems are competitive in price with similar US systems selling in the \$250 000 to \$600 000 range.



Alex McCallum, manager of software production for Omnitech Graphics Systems Inc., displays the new Omnitech CADD/CAM system for use in designing, drafting and manufacturing. Although the ERGOS was introduced only last April at the Hannover World Trade Fair, purchase orders are being received from West Germany, Britain, Taiwan, Indonesia and the United States, as well as a number of Canadian companies.

Skiers win at World Cup meets

Canadian athletes placed first in World Cup ski competitions held recently in Kitzbuehel, Austria and Thunder Bay, Ontario.

In Kitzbuehel, Todd Brooker of Paris, Ontario won his first World Cup downhill ski event on the Hahnenkamm course. Brooker, 23, covered the 3510-metre course in two minutes 1.96 seconds beating Urs Raeber of Switzerland by .23 seconds. Ken Read of Calgary finished third in a time of 2:02.47 while Steve Podborski of Toronto finished ninth in 2:03.20. Podborski had placed second to Switzerland's Bruno Kernin in another race held at Kitzbuehel a few days earlier.



Todd Brooker

Canadian Ski Association

Read's finish moved him into fifth place in the World Cup downhill standings with 68 points.

In Thunder Bay, ski jumper Horst Bulau of Ottawa placed first and second in the 70- and 90-metre competitions. Bulau was beaten in the 90-metre jump by Finland's Matti Nykanen.

In recording his seventh World Cup victory, Bulau jumped 91.5 and 89.9 metres on the 70-metre hill for a total of 263.7 points. In the 90-metre competition, the Canadian jumper registered jumps of 113.5 metres and 117.5 metres totalling 257.4 points. As a result of his finishes, Bulau earned 45 points capturing third place in the World Cup standings with 105 points.

Steve Collins of Thunder Bay finished in the top ten in both competitions placing tenth in the 70-metre jump and eighth on the 90-metre hill.

Salt squeezed from sea water

A portable device that can take the salt out of the sea water has been created by a British Columbia firm.

A reverse-osmosis machine developed by Seagold Industries Corporation of Burnaby, British Columbia allows fresh water to cross a semi-permeable membrane when pressure is applied on it. The new device uses this principle in a hand-held converter pumped by a 12-volt DC motor.

The system, the company says, is much more efficient than the multi-stage evaporation systems requiring boiling and condensing of water. A large-scale Seagold system powered by a diesel engine can produce 4500 litres of fresh water while burning 4.5 litres of oil, says the device's designer Bowie Keefer.

A solar-powered version of the system is being tested in Qatar. Seagold is controlled by TDC Technology Development Corporation, which is owned jointly by Teck Corporation and CDC Ventures Incorporated, a division of the Canadian Development Corporation.

Canadian survival suit helps exposure victims

A new cold-weather survival suit that will be a great boon to victims of hypothermia or exposure has been designed by Canadian Richard James, vice-president of J.G. Safety Products of Ottawa.

Looking over the inexpensive American survival suit and mylar safety blankets that he sold in his Ottawa, Cornwall and Brockville, Ontario outlets — equipment that lasted for only one emergency — James decided he could improve upon them.

By combining two commonly used materials, mylar and tyvek, he now has a sturdier, superior product to protect people suffering from exposure and hypothermia.

Hypothermia, the plague of cross-country skiers and people who fall into freezing water, can quickly reduce body temperature to the point of death. A survival suit reacts to body temperature and slowly warms the body back to normal. A zipper is used to regulate the temperature.

Known by the trade name, Armour Cold Weather Survival Suit, it is manufactured in Hamilton, Ontario and sells for about \$35.

The bright yellow suit, which is 90 per cent waterproof, is easily recognizable from the air, weighs only eight ounces and can be folded up into a knapsack.

James has also designed a \$14 safety blanket from the same material which is especially useful to ambulance attendants and the police who can quickly wrap up an injured person.

To check out the suit, a newspaper reporter from the *Toronto Sun* recently exposed himself to hypothermia by jumping into Lake Ontario in his bathing suit and then warming up in one of the new survival outfits.

"That's not exactly how it's supposed to be used," said James, but according to the freezing reporter, it worked.

Operation restores hearing

A delicate operation, performed for the first time in Canada, restored hearing to a woman who had been deaf for more than two years.

Lucy Philpott, 25, of Fraser Lake, British Columbia, can hear again after the operation, performed by ear specialist Patrick Doyle at St. Paul's Hospital in Vancouver. Although normal hearing will never be restored, a pocket-size device feeds electrical signal directly to her brain allowing her to be in touch with a world from which she had been isolated.

During the operation, doctors threaded a tiny wire through the patient's skull behind her right ear and through her eardrum, looped it around the tiny bones of her middle ear and then inserted it into her cochlea, a snail-shaped organ that, in a normal ear, converts sound waves into electrical signals.

Miss Philpott's cochlea was incurably damaged by a bout of meningitis in 1980, but the wire brings in electrical signals that travel up her auditory nerve to her brain. The "sounds" she hears are alien, unlike what she can remember, but they are sounds, and with training she will learn to recognize many of them and, with the help of lip-reading, to understand speech.

The electrical signals are generated by a small transmitter hooked up to a microphone.

Dr. Doyle, who is collaborating with a Los Angeles group led by Dr. William House, inventor of the method, said there was funding for four such operations a year in British Columbia.

Song places first

Two Canadian song writers, Tim Thorney and Lisa Dal Bello of Toronto, won the \$10 000 best song award at the American Song Festival in Los Angeles, January 16.

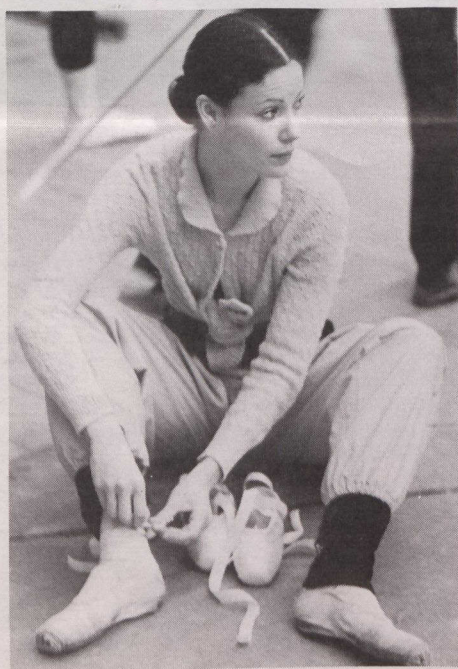
The competition, which attracted more than 30 000 entrants, is divided into five categories — top 40, classical, jazz, country and adult contemporary. *Can I Do It*, with music by Mr. Thorney and lyrics by Miss Dal Bello, first won in the top 40 category before winning the over-all best song. The song writers are the first Canadians to win the contest.

Dancer Karen Kain to marry

Karen Kain, Canada's most famous ballerina, is getting married. Miss Kain, 31, principal ballerina with the National Ballet of Canada, and actor Ross Petty, 36, are planning a wedding in May.

Mr. Petty, who was born in Winnipeg, has appeared in theatre, film and television in New York and London. His best-known role in Canada was as the star of *Sweeney Todd*, the Harold Prince-Stephen Sondheim musical, which played at Toronto's Royal Alexandra Theatre.

Miss Kain has been the National's most popular dancer for several years, as well as dancing throughout the world, chiefly with Roland Petit's Ballet de Marseilles. This is the first marriage for both. They will be making their home in Toronto.



Karen Kain

Amish play wins laurels

Quiet in the Land by playwright Anne Chislett of Victoria, British Columbia, has won the \$5 000 Chalmers Canadian Play Award as best new play of 1983.

The play, which opened to popular acclaim at the Toronto Free Theatre this fall, was originally written for the Blyth Summer Festival. It is set in an Ontario Amish community at the time of the First World War.

The two runner-up plays, which received \$1 500 each, were John Lazarus' *Dreaming and Duelling*, and Tom Walmsley's *White Boys*. Both Lazarus and Walmsley are Vancouver writers.

This year's special achievement award went to Tom Hendry, a co-founder of the Manitoba Theatre Centre and Toronto Free Theatre. Mr. Hendry resigned last spring as producer of the Free Theatre.

The first Chalmers Children's Play Award was awarded jointly to Marcel Sabourin for *Pleurer pour Rire*, and Robert Morgan for *How I Wonder What You Are*. Both were presented during the International Children's Festival at Harbourfront.

New young cellist celebrity

At the age of 17, Toronto cellist Orfa Harnoy is one of Canada's five or six most sought-after instrumental soloists.

In 1981, she was simply a "rumour" making the rounds of Toronto's musical society. In 1983, she is an authentic celebrity, with a positive *New York Times* review behind her, a tour of France sponsored by Canada's Jeunesses Musicales ahead of her, more concert requests than she can handle and a New York manager to deal with the ones she can.

As a sign of Miss Harnoy's increasing command over her own career, she is aware that she must avoid what does not work for her. It was a lesson she learned from last year's New York Concert Artists Guild competition, which drew contestants from all over the world.

"When I first went to the competition, people told me, 'Well, you made it in Canada, but when you go to the States, your playing will not be accepted there.' I went there and played completely 'me'. Obviously, people liked it, so I kept doing that."

Harnoy went on to become the youngest first-prize winner in the 31-year



Orfa Harnoy

history of the competition. The win entitled her to two New York appearances, one with an orchestra in Carnegie Hall, and the other on her own in the recital chamber of that prestigious structure.

The excellent *New York Times* response to the solo concert has already brought queries from orchestra managers across the United States, where most of her engagements for next season will be. But she regards herself as Canadian and does not foresee abandoning Toronto as her home base.

Arts briefs

The National Film Board is collaborating with the United Nations in its campaign to improve water supply and sanitary facilities in developing countries. Producer George Pearson and film director Doug Cameron are exploring film possibilities and potential filming sites in Africa for four films to be made for the United Nations "International Drinking Water Supply and Sanitation Decade".

Canadian poet and novelist, Margaret Atwood, was awarded the 1983 Welsh Arts Council's prestigious International Writer's Prize which recognizes outstanding achievement in contemporary literature. Former winners of the prize — worth £1 000 — have included Eugene Ionesco and Friedrich Durrenmatt. Since 1970 Miss Atwood has made her home in Toronto, the setting for much of her writing.

News briefs

Retired Canadians are joining together under a federal government program to volunteer their services to their communities. These older citizens are being supported by \$1.257 million in New Horizons grants recently announced by Health and Welfare Minister Monique Bégin. The grants will cover 193 projects throughout Canada for over 22 000 participants.

Canada's official monetary reserves rose \$127.4 million (US) in December, according to the federal Finance Department. At December 31, 1982 reserves of gold, foreign currencies and other financial assets totalled \$3.79 billion, up from \$3.67 billion a month earlier, but down from \$4.37 billion a year earlier.

The official inflation rate has fallen below 10 per cent but the decline is stalling. Statistics Canada said consumer prices rose by only 9.8 per cent during the 12 months ending in November 1982. It was the first time the year-over-year inflation rate has dropped below 10 per cent since May 1980. However, on a month-to-month basis, the inflation rate remained steady since mid-summer when it fell dramatically.

The federal and Manitoba governments have announced details of a demonstration project to investigate methanol blends as transportation fuels. Total cost of the two-year demonstration project will be \$385 700. The project will test and demonstrate the use of methanol as a vehicle fuel in Manitoba weather. Two fuel types are proposed: a low-percentage (5 per cent) blend with gasoline, and "neat" methanol with low-temperature starting additives. Field trials will be undertaken on three fleets of 25 vehicles each. Two of the fleets will use methanol-based fuels, while the control group will use standard unleaded gasoline.

Canadian athletes grabbed both top titles at a two-day international speed skating event held in Madonna di Campiglio, Italy, January 12-13. Gaetan Boucher of Brossard, Quebec, a silver medallist in the 1982 world championships, completed a sweep of all four sprint races he entered to capture the men's title and Sylvie Daigle of Sherbrooke, Quebec, took three of four events on the outdoor track to win the women's championship. Jean Pichette of Ste. Foy, Quebec won the Nicolodi Trophy for distance events up to 5 000 metres, capitalizing on a series of top placings but no victories.



The Citizen

As Governor General Edward Schreyer (centre) looks on, Jennifer Graham, 7, and Jan Conradi help 107-year-old skiing pioneer Herman "Jackrabbit" Smith-Johannsen put on his number for the Shell Jackrabbit Ski Day held in Ottawa. More than 500 youngsters, including two of the Schreyer children, took part in the event.

Canada has passed China to become the third-largest gold producing country in the world, according to the Gold Institute. The Washington-based association of gold mining companies, refiners and dealers reported in its annual survey that Canadian production rose to an estimated 1.84 million troy ounces last year. Actual production in 1981 was 1.41 million ounces. Chinese production was 1.69 million ounces in 1981 and rose to an estimated 1.77 million ounces last year.

Starting daylight time two months earlier would save Canadians about \$23.8 million a year in electrical energy, says a National Research Council official. Cecil Costain of the council's electrical and time standards, estimates starting daylight time at the beginning of March instead of the end of April would provide an additional 1.3 billion hours of sunlight and would knock about \$1.50 off each household's monthly electric bill.

The federal government has agreed to pay Yukon Indians \$183 million to settle one of the three largest native land claims in Canada. In exchange for the money, the Council for Yukon Indians will give up its aboriginal claim to most of the Yukon. The native-rights group represents the territory's 5 500 Indians. The Yukon is 478 034 square kilometres in

land area, or almost the size of the four Atlantic provinces combined.

Terry Fox, the young cancer victim from Port Coquitlam, British Columbia, who inspired millions with his attempt to run across Canada in 1980 and who died June 28, 1981, a month short of his twenty-third birthday, is credited in the *Guinness Book of World Records* 1983 edition with having raised the greatest amount of money in a charity walk or run. The entry, in the "economic" records category, says that in his 143-day, 5 373-kilometre run he raised \$24.7 million. He had lost a leg to cancer.

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