

# Canada Reports

## Offshore Europe: From drilling to diving

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# Canada Reports

Ottawa  
Canada

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## New directions

This is the first issue of *Canada Reports*, a new periodical to be published twice monthly by the Department of External Affairs.

*Canada Reports* replaces *Canada Weekly*. While continuing to keep its readers informed of new directions in Canadian foreign policy and affairs, it will place special emphasis on Canadian trade, industrial and technological developments.

An index, to be published quarterly as an insert, will facilitate reference to articles in previous issues.

Readers' comments and suggestions, as well as their questions about items that have appeared in *Canada Reports* will be welcome and should be sent to The Editor, *Canada Reports*, at the address shown on page 8 of each issue.

Cette publication existe également en français sous le titre *Reportage Canada*.

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## Offshore Europe: From drilling to diving

The latest in advanced offshore technology and equipment designed to endure the world's toughest offshore conditions, as well as consulting services in all areas of offshore engineering, are being offered by 13 Canadian companies at Offshore Europe '85 in Aberdeen, Scotland, September 10 to 13.

Products on display at the Canadian exhibit, sponsored by the Department of External Affairs, vary from exploration, processing and surveying equipment to specialized support equipment. Included are airborne remote sensing equipment for offshore exploration; lifting and salvage balloons for oil containment and emergency flotation; deck and drill rig machinery; disc oil skimmers used to clean up oil spills; and quality oil well casing and tubing couplings. Heavy equipment manufacturers are displaying products such as drilling rigs, drilling ships and platforms, and large-volume processing equipment.

### Modern technology

Among the highlights are the most recent products from three companies that provide state-of-the-art technology in offshore underwater survey equipment, seismic sub-bottom profiling equipment and life-support systems for divers.

International Submarine Engineering Limited has introduced the first autonomous underwater vehicle in the world, the Autonomous Acoustically Remotely Controlled Submersible (ARCS) for offshore surveying; Hunttec (70) Limited has presented the Hydrosonde SeaOtter Subbottom Profiler

for obtaining seabed survey information; and Nova Scotia Research Corp. has developed the New External Environment Conditioning System (ECS).

### Autonomous surveys

The ARCS represents a major breakthrough in offshore survey equipment in that it requires no physical link to surface support facilities. It can follow a computer-operated pre-programmed course within a range of 150 kilometres at depths of over 300 metres and automatically avoid obstacles, using its own radar. An operator can also intervene to change programs or take over manual control.

Battery-supplied power enables the ARCS to operate at 5 knots an hour for up to 20 hours. In addition, the ARCS features fault tolerance which allows the vehicle to find its way back to its starting point despite the failure of any single component.

International Submarine, which has produced more than 125 pipeline inspection, platform maintenance and drillship support underwater vehicles, is planning to build a number of autonomous vehicles based on the ARCS prototype. They are being designed to operate not only under ice, but also in deep ocean and in oil patches.

### Extended searches

The Hydrosonde SeaOtter is the newest of a series of Hunttec's high-resolution seismic sub-bottom profilers, which are also available with side scan sonar.



Canada's largest shipyard, Versatile Davie Inc., builds drilling rigs, drilling ships, production platforms, support vessels and other heavy-duty equipment, to specification.

The SeaOtter features high-intensity acoustic pulse with wide frequency bandwidth and can operate in a wide range of geological conditions and water depths. It is fitted with a unique acoustic filter that suppresses radiation from the rear, front and sides. It can be used as a catamaran-mounted lightweight unit, allowing one person to easily launch, operate and retrieve it.

### Diving support system

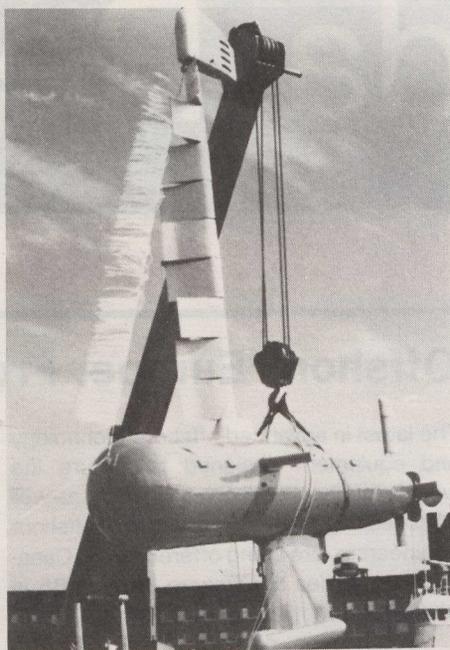
Nova's ECS is used with diver decompression chambers, where it provides high gas flow for diver life support. It features variable speed control, and humidity control for high performance on deep dives.

The company is also a leading world supplier of electrical slip rings, fluid rotary unions and hyperbaric blowers.

### Overcoming challenges

Canada's offshore industry is renowned for the manufacture of equipment that is capable of functioning for long periods of time under great stress and at great distances from repair facilities. The country's offshore area, more than six million square kilometres, covers a diverse topography and climate. Offshore exploration activity represents an annual investment of \$2 billion in Canada and it is carried out regularly even in severe environments like the High Arctic, where awesome winter storms, pack ice and 10-12-million-tonne drifting icebergs can be encountered.

Most current oil and gas exploration activity in Canada is based on extensive marine surveys. Canadian firms have developed special oceanographic, hydrographic and



*The DOLPHIN is one of International Submarine's complete range of underwater surveying vehicles.*

other surveying techniques and equipment suited to the demanding operating conditions of the Arctic and the deep, storm-laden waters of the continental shelf, off Canada's east coast.

In addition to the ARCS, a complete range of tethered, manned and radio remote-controlled vehicles, such as the DOLPHIN, a semi-submersible instrument platform, have been designed and manufactured in the country. The DOLPHIN improves previous surveying techniques by allowing several small vehicles to run along courses parallel

to the main survey ship.

Canadian firms are also pioneering new drilling techniques. In the Beaufort Sea, for example, conventional drilling equipment could only be used during the short open water drilling season of between 80 and 120 days. For year-round use, Canadian companies have become world leaders in ice management, and are involved in daily ice reconnaissance, ice reconnaissance interpretation, and the use of specially-designed equipment such as icebreaking vessels.

### Adapting to conditions

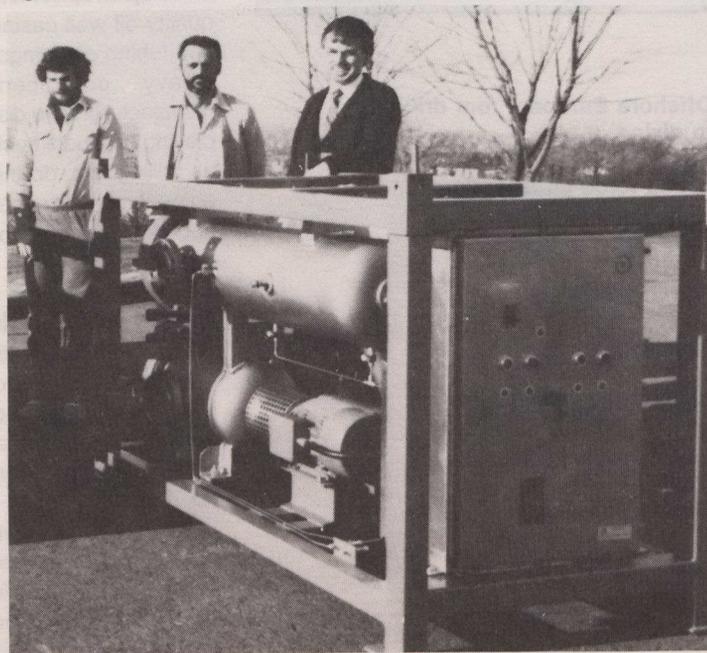
In the Arctic Islands, shallow waters are covered in a permanent sheet of land-fast ice. To adapt to these conditions, a method of drilling through the ice and using the ice itself as a work platform during the exploration phase has been devised.

On the Grand Banks, the danger posed by huge floating icebergs and pack ice is constant and during the winter season ice floes and tie-in ice are present, and superstructure icing occurs. Special positioning equipment to keep drilling vessels on location, as well as navigation and communications equipment to track movement of rigs and ships, and to anticipate the need to quickly move off location, have been designed to overcome these problems. In addition Canada has developed offshore supply vessels and other support equipment capable of withstanding severe conditions.

Another example of Canadian technology specially designed for the Arctic is the artificial island that enables operators to conduct exploration drilling work in ice-covered or ice-infested waters. The three main types



*The SeaOtter is the newest high-resolution seismic sub-bottom profiler from Huntec, that features high-intensity acoustic pulse.*



*Nova Scotia Research's ECS is used with diver decompression chambers and provides high gas flow for life support.*

currently in use in the Canadian North are the caisson island which uses a circular ring of concrete or metal filled with sand or gravel; the synthetic, cloth-like material used to encase sand dredged up from the sea floor; and the sacrificial beach island, made by piling up a large amount of sand and silt.

### Support technology

Canada also designs and manufactures support facilities for artificial islands, such as specially-designed topside and drilling packages that can fit onto restricted caisson islands. Canadian support technology for exploration and production includes heavy equipment designed to keep drilling rigs and ships safely, accurately and dependably positioned on location.



*Survival Systems uses the most current rescue equipment and procedures in safety and survival training programs.*

Oil and gas processing equipment made in Canada includes a full range of batteries, compressors, dehydrators, foundations, gauges, heaters and heat exchangers, pipe fabricators, process control systems, and treaters. This equipment is widely used in the North Sea and the Gulf of Mexico and in Southeast Asian markets.

### Safety a major concern

Canada is also actively involved in offshore safety, and the firms specializing in this field offer a wide range of survival and emergency response training programs to offshore workers.

Recent improvements in Canadian offshore safety practices and standards include the establishment of a common traffic-monitoring centre in offshore areas where several operators are located. This centre is intended to trace the movements of support vessels and aircraft to be able to contact the

closest rescue craft in an emergency. The mandatory use of common radio frequencies among operators will improve communication between all mobile offshore drilling units, support craft, and government search and rescue craft during emergencies.

### Canadian participants at Offshore Europe '85

- Atlantic Canada Airborne Sensing Inc. of Amherst, Nova Scotia — Remote sensing and collection of airborne data for offshore exploration;
- Canflex Manufacturing Inc. of Coquitlam, British Columbia — Lifting and salvage balloons for oil containment and emergency flotation;
- John T. Hepburn, Limited of Toronto, Ontario — Deck and drill rig machinery including winches, windlasses and cranes;
- Huntex (70) Limited of Scarborough, Ontario — High resolution seismic sub-bottom profiling equipment for seabed surveys;
- International Submarine Engineering Limited of Port Moody, British Columbia — Remote-controlled underwater vehicles for the offshore petroleum market;
- J. Kobelt Manufacturing Company Limited of Richmond, British Columbia — Disc brakes and pneumatic and mechanical controls;
- Maloney Steel Limited of Calgary, Alberta — Complete range of oil and gas production and processing equipment;
- Morris International Trading Limited of Vancouver, British Columbia — Disc oil skimmers with various applications, including major oil spill cleanup;
- Nova Scotia Research Corp. of Dartmouth, Nova Scotia — Slip rings for umbilical winches and diver life-support systems;
- Survival Systems Limited of Dartmouth — Offshore safety and survival training and consulting services;
- Techwest, A Division of Fleet Aerospace Corporation of Vancouver — Motion compensation systems, including winches and cranes;
- T.P.S. Industries Inc. of Tillsonburg, Ontario — A.P.I. licensed oil well casing and tubing couplings; and
- Versatile Davie Inc. of Levis, Quebec — Drilling rigs, drilling ships, production platforms, and other equipment.

A new type of rescue apparatus, the Emergency Multi-Person Rescue Apparatus (EMPRA) basket, is now carried aboard all standby vessels. The EMPRA basket can be suspended below a helicopter to lift people from drilling units or from the water under certain sea conditions.

Several major safety research projects were carried out in 1984, including a study into the Canadian offshore industry's ability to conduct relief well operations and minimize the environmental impact of a blowout.

### Further developments

New products under development include a device similar in concept to the "black box" used in an aircraft, which will provide a record of events over the four-hour period prior to an accident. This device will be waterproof and ice-resistant, and will operate even in the event of a power failure.

Another project involves the design of a new submersible compression chamber, or diving bell, that can be used by divers to reach the work site in any weather conditions.

### Peace force contribution

An agreement for Canadian participation in the Multinational Force and Observers (MFO), was signed by Secretary of State for External Affairs Joe Clark and Peter Constable, director-general of the Sinai-based peacekeeping force, on June 28.

Under the agreement, Canada will participate in the MFO for a period of two years and will provide up to 140 personnel and nine CH 135 helicopters. The Canadian contingent will assume responsibility for its mission on March 31, 1986 and will replace the Australian helicopter unit that will be withdrawing in April.

The MFO was established in 1981 to monitor security provisions of the 1979 Egypt-Israel Peace Treaty. Other participating countries include Britain, Colombia, Fiji, France, Italy, the Netherlands, New Zealand, Uruguay and the US.

Canada's decision to join the MFO was made at the request of Egypt and Israel and was based on a "firm commitment to assist in the search for peace and stability in the Middle East", said Mr. Clark. He added that the peace treaty between the two countries "is testimony that peace can be achieved in the region when the will exists on both sides", and that the Canadian government hopes "that ways will eventually be found to bring about negotiations among other parties leading toward comprehensive peace in the region".

# Focus on China

## Visit of President Li paves the way for stepped-up trade with China

The eight-day official visit to Canada by Chinese President Li Xiannian, his wife Lin Jiamei and a delegation including Vice-Premier Li Peng and State Councillor Ji Pengfei, is expected to increase friendship and promote trade ties between the two countries, particularly in the areas of energy, transportation, mineral resources, science and technology.

Arriving in Ottawa on July 14 after a three-day visit to Vancouver, President Li said that he hoped the trip would "further deepen our mutual understanding and friendship, promote economic and technological co-operation and trade and enhance the good relations existing between us".

Discussions on trade and other bilateral relations were held with Prime Minister Brian Mulroney, International Trade Minister James Kelleher and other government and business leaders. Trade was also a main topic for discussion with provincial leaders and businessmen in Quebec City and Toronto.

Mr. Mulroney said after meeting with President Li that Canada views China "as a very important trading partner" and that "we will continue to trade and to upgrade our relationship". He added that he has accepted an invitation to visit China possibly in the spring, either before or after the annual summit of leading non-Communist countries in Tokyo.

### Trade balance

Trade between Canada and China has grown steadily since the two countries established diplomatic relations in 1970. In 1984,



(From left): Governor General Jeanne Sauvé, President Li, Lin Jiamei, Mr. Sauvé and Prime Minister Brian Mulroney attended a state dinner in Ottawa.

Canada's exports to China amounted to more than \$1.27 billion, while imports to Canada totalled \$333 million, representing a 40 per cent increase over the 1983 figure. And for the first quarter of 1985, Canadian exports were over \$350 million, up 40 per cent over those in the same period last year. Canada has already sent more manufactured goods to China in 1985 than in all of 1984.

Commercial relations with China are facilitated by the annual Canada/China Joint Trade Committee, which meets alternately in Ottawa and Beijing. Large numbers of commercial delegations are also exchanged.

In order to help expand trade with China, International Trade Minister James Kelleher has announced that up to four additional trade representatives will be assigned to the Canadian embassy in China with two of them specializing in regions outside Beijing. He also indicated that further initiatives would be announced over the next few months. In addition, an offer was made to help China present trade shows in Canada.

### Agreement renewed

On July 16, Mr. Kelleher and Mr. Li Peng signed an exchange of notes to renew the Canada-China Trade Agreement that had originally been signed in 1973 and renewed for three years in 1976, 1979 and 1982. Under this agreement, which was made open-ended by the recent exchange, Canada and China grant each other most-favoured-nation trading status and a number of sectors are identified for increased bilateral activity.

Minister of State for the Wheat Board Charles Mayer exchanged letters with the Chinese ambassador to Canada to establish a consultative committee on agriculture.

Mr. Kelleher said the signing of the two agreements "emphasizes the opportunities which exist for increased commercial activity between Canada and China". He added that the Chinese program of modernization was concentrating on such sectors as energy, agriculture, mining, telecommunications and transportation, where Canada had well-developed, internationally competitive industries. "A number of Canadian firms



Prime Minister Brian Mulroney and President Li Xiannian discuss Canada-China relations through interpreter Jean Duval.

are actively pursuing projects in China in such areas as energy, mining and transportation," he said.

Mr. Kelleher indicated that the exchange of letters on agriculture highlighted the importance of this sector in Canada's trade with China. He noted that the recent signing of five health-of-animals agreements with China opened the door for Canadian sales of live animals, embryos and semen which, with related services, could reach \$50 million over the next few years.

### Medical links

Touring the Ottawa Civic Hospital, President Li said Canadian and Chinese doctors share a "special attachment" that will continue to develop and expand. He said the close medical ties began with the contributions made by Canadian physician Norman Bethune, who helped the injured and dying in China during the revolution.

Since the introduction of the Bethune Medical Exchange program in the early 1970s, many Chinese doctors have studied in Canada in such areas as neurophysiology, urology and organ transplantation, while Canadian doctors have studied acupuncture techniques in China.

China and Canada have also signed an agreement to support a twinning arrangement between the University of Toronto and the Sichuan Medical College.

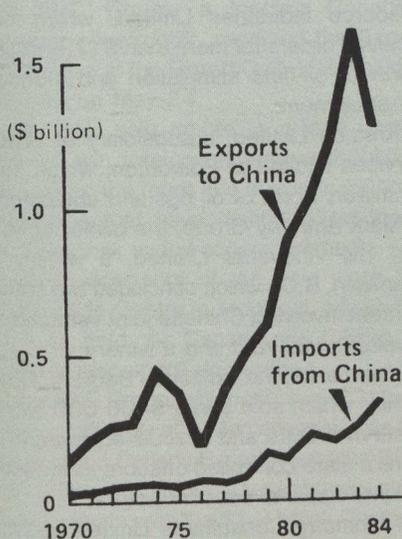
### Quebec seeks sales

In Quebec City, President Li and the Chinese delegation met with Vice-Premier Marc-André Bedard, Foreign Trade Minister Bernard

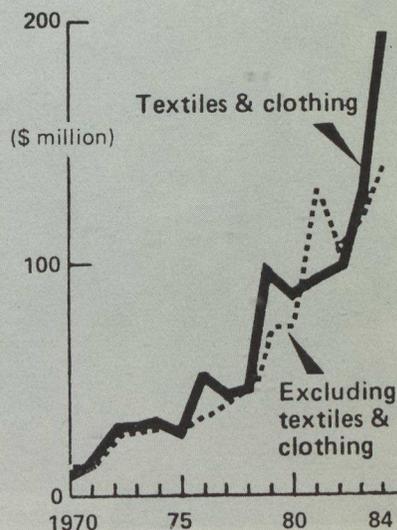
## Highlights in Canada-China relations

- 1970 – Diplomatic relations established
- 1971 – Ambassadors exchanged
- 1972 – Canadian trade show in Shanghai
- 1973 – Bilateral air agreement  
Trade agreement  
Consular agreement  
Family reunification agreement  
Education agreement
- 1974 – Chinese archaeological exhibit at Royal Ontario Museum  
Chinese consulate-general in Vancouver
- 1976 – Bethune House opens in Gravenhurst, Ontario  
Trade agreement renewed
- 1978 – Toronto Symphony in China
- 1979 – Bethune fortieth anniversary ceremony in Peking  
Export Development Corporation's \$2 billion credit line  
Trade agreement renewed  
Economic co-operation protocol  
Scholars program begun  
First National Defence College tour of China
- 1980 – Second consular agreement  
Agricultural memorandum of understanding  
IDRC agreement  
China's military academy tour of Canada
- 1981 – Private claims agreement
- CIDA program begins  
Forestry memorandum of understanding  
SSHRC agreement  
Alberta/Heilongjiang twinned
- 1982 – Trade agreement renewed  
Wuhan Circus in Canada  
Chinese science and technology exhibit at Ontario Science Centre
- 1983 – Development co-operation agreement  
Science circus in Beijing  
Canada Week in Shanghai  
NRC agreement
- 1984 – Foreign investment insurance agreement  
Saskatchewan/Jilin twinned  
Grands Ballets Canadiens tour China  
EDC/Bank of China financing facility  
China trade seminars in Canada  
Chinese consulate-general in Toronto
- 1985 – Sports memorandum of understanding  
Quarantine agreements  
Ontario/Jiangsu scientific and technological agreement  
Trade agreement renewed  
Agricultural consultative committee

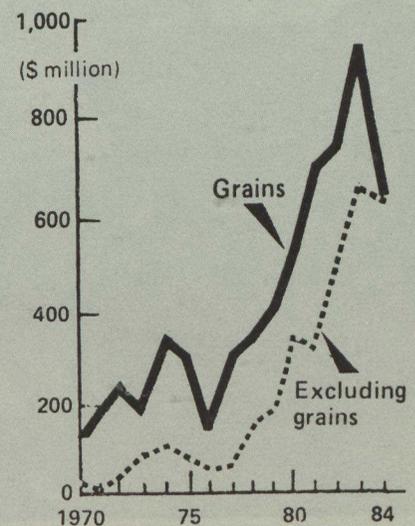
## Canada-China trade at a glance



China is Canada's fifth largest export market worldwide and second largest in the Asia-Pacific region.



Canada imports a wide range of goods from China, with textiles and clothing the major components.



Grain, long, Canada's main export to China, dropped below 50 per cent of total exports in 1984.

Landry and other ministers, as well as business leaders including representatives from Lavalin International Inc., Dominion Engineering Works, SNC Inc., Spar Aerospace Limited, Bombardier, Cascades Inc. and Hydro Quebec. The companies are attempting to expand their markets in China.

Jean Gagnon, a vice-president with Lavalin, said his company signed a letter of intent which allows them to seek financing and prepare proposals for further negotiations. The company recently signed a contract to supervise construction of a hydroelectric dam in China.

### More co-operation with Ontario

President Li was welcomed to Toronto by Premier David Peterson, who said the visit "has greatly contributed to the long-term co-operation between our peoples". After outlining the growth in various endeavours between China and Ontario, Mr. Peterson said that Ontario is about to begin a new phase in its relations with China as the province is expected to sign a twinning arrangement with Jiangsu and a science technology and trade agreement this autumn.

Trade and technology were also important topics for discussion between the Chinese and government and industry representatives from Ontario. President Li's tour of the Downsview plant of de Havilland Aircraft of Canada Limited was an important part of his itinerary as China and Canada have agreed to begin discussions on expanding the existing airworthiness co-operation. CP Air and the Chinese airline CAAC are discussing the possible inauguration of services between the two countries.

## CIDA's Chinese programs

The Canadian International Development Agency (CIDA) began its program in China in 1981. Spending, which was \$2 million in 1982, steadily rose to \$16 million in 1984. It is expected that \$20 million will be spent this year and \$30-\$35 million in 1986.

CIDA's efforts in China are concentrated on educational and technical support programs, especially in agriculture, forestry and energy. There are also a number of general educational projects especially in management training.

Two of CIDA's current projects are a five-year agreement with Ontario's Ministry of Natural Resources to provide technical expertise on fighting forest fires and a four-year program involving Alberta's Olds College, the University of Alberta, and the University of Guelph in Ontario for Chinese students to study agriculture and farm management in Canada.

CIDA's China program also involves special projects, many of which are sponsored by the industrial co-operation division (INC). Several missions have been underwritten, including the most recent one of Alberta oil-field equipment manufacturers who visited major oil centres in northern China. The sale of satellite earth stations by Spar Aerospace was supported by CIDA money to train Chinese technicians.

INC's programs are aimed especially at small- and medium-sized companies, and its primary goal is to develop opportunities for technical co-operation with companies in developing countries.

## The provinces and China

Across Canada a number of companies have actively been seeking sales in the Chinese market. In Ontario alone, an estimated 50 firms now do business with China and trade is expected to increase even further when the province opens its combined trade and technology centre in Nanjing, the capital of Jiangsu, one of China's wealthiest and most industrialized provinces. Alberta and Saskatchewan have both signed twinning agreements with Chinese provinces and British Columbia and other Canadian provinces have increased their trade in a number of ways including ministerial visits and trade fair involvement.

### New agreements

Some of the companies that have signed recent contracts with China include:

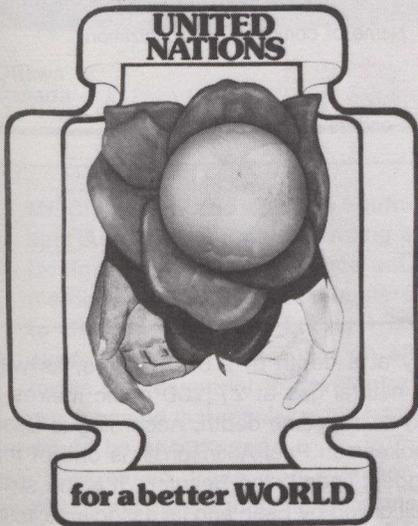
- Basic Manpower Training Interprovincial Limited of Cold Lake, Alberta, which won a \$2.4-million consulting contract;
- B.C. Hydro International Limited, which won a \$7.5-million contract to do a technical support program for China's Electric Power Institute;
- Canadian International Project Managers Limited with major principals SNC Inc., Lavalin Inc. and Acres Limited, which has signed a number of agreements to develop hydro in China;
- Coronet Housewares of Montreal, Quebec, which has made a number of sales of stainless steel cookware and plastic housewares and has been invited to Beijing to discuss a manufacturing joint venture;
- Dyer Equipment Inc. of Calgary, Alberta, a subsidiary of Edmonton-based Strathcona Resource Industries Limited, which has received orders for more than \$17.5-million worth of oil-field stimulation and monitoring equipment;
- Kremco Limited, a subsidiary of Dreco Services Limited of Edmonton, which sold \$8 million worth of oil rigs and equipment;
- Mark Anthony Group, the owner of Mission Hill Vineyards Limited, a winery in Okanagan, B.C., which concluded two letters of intent involving Chinese joint ventures to develop a vineyard and a winery;
- Narwhal Marine Limited of Bedford, Nova Scotia, which sold some \$400 000 worth of survival suits and rescue equipment to China's state-controlled offshore oil industry and international subcontractors;
- Teshmong Consultants Limited of Winnipeg, Manitoba, which has signed contracts for systems studies; and
- Wright Engineers Limited of B.C., which is engineering a gold mine.

### Playful pandas



Two visitors from China, Quan Quan (rear) and Qing Quig, on loan to the Metropolitan Toronto Zoo for 100 days, ham it up for spectators. The giant panda exhibition at the zoo was officially opened by Madam Li on July 20.

## Winning poster



Canada's entry in the United Nation's international poster competition to celebrate this year's fortieth anniversary of the signing of the Charter of the United Nations, was selected from more than 950 submissions by two internationally known Canadians, photographer Youssef Karsh and painter Henri Masson. The poster will be hung with the winning posters from the other countries during the commemorative General Assembly, October 24, in New York.

## Ontario business centre

The first business self-help centre in the province of Ontario has been established in Kitchener. It will provide "one-stop shopping" from information on good management techniques to government assistance programs to aspiring entrepreneurs when they need help in starting their own business or maintaining their current business.

The Kitchener centre is one of several that will be established across Ontario during the next three years to assist small business people in non-manufacturing sectors. They will be keyed particularly to the requirements of women and young people going into business for themselves.

"Last year, women started 11 000 small businesses in Ontario," said Minister of Industry and Trade Andy Brandt. "They are an increasingly important factor, and one that we want to encourage as much as we can," he added. "As well, we are now seeing more young people than ever before interested in starting and running a small business and we are concentrating on helping them too," he said.

Specifically, the centres will provide advice on developing a business plan; a variety of resource material relating to starting and running a successful small business; detailed information on assistance programs that are available from all levels of government; and seminars on management techniques for small business people.

## Queen Mother visits



Prime Minister Brian Mulroney walks with the Queen Mother as she greets spectators in Ottawa at the outset of her July 12-19 visit to Canada. In Toronto, she attended the one-hundred-and-twenty-sixth running of the Queen's Plate horse race; in Regina, she participated in the eightieth anniversary celebrations of the province of Saskatchewan. During her last stop in Edmonton, Alberta, she attended the fifth annual world Aberdeen Angus Forum, a major cattle show.

## Major export award

The SNC Group, a leading Canadian engineer-constructor, received the Export Grand Prize at the Export Gala 1985 held in Montreal on May 24.

The gala paid tribute to efforts undertaken to win foreign markets and publicly recognized the merit and success of those companies that have distinguished themselves by their export accomplishments. Co-operating sponsors of the gala were the World Trade Centre in Montreal, where the gala was held, Air Canada and Caisse de dépôt et placement du Québec.

The SNC Group, which is engaged in large projects nationally and internationally, was the winner of the Canada Export Award in 1983. One of The SNC Group's recent major overseas contracts was the \$1.3 billion Chamera hydroelectric project in India, signed by a consortium of SNC/ACRES, Canadian General Electric and Marine Industries. (See *Canada Weekly*, October 24, 1984.)



From left: Jacques E. Lefebvre, vice-president of public affairs with the SNC Group; Jean Campeau, vice-president and general manager of La Caisse de dépôt et de placement du Québec; Bernard Landry, minister of foreign trade of Quebec; Jean-Paul Gourdeau, president of The SNC Group; and André Vallerand, president of the Montreal World Trade Centre, at the Export Gala 1985.

PMO

## Trade update

The 21 Canadian companies that participated at MINING '85 in Birmingham, England in June (see *Canada Weekly*, May 25, 1985) secured almost \$20 million in projected sales at the trade fair. The largest orders were for Africa, Spain, Portugal and the Middle East.

**International Trade Minister** James Kelleher and Agriculture Minister John Wise have expressed the regret of the Canadian government regarding the United States International Trade Commission's decision to allow the retention of the countervailing duty of 4.4 cents (Cdn) per pound on Canadian exports of live swine to the US market. The two ministers said they are concerned about the impact of the ruling on Canadian hog producers. They did express some satisfaction that the duties on fresh, chilled and frozen pork would be removed.

**Toyota Motor Corp.**, Japan's largest automaker, recently announced that it will set up an assembly plant in Canada to produce 50 000 1.6-litre Corolla-type vehicles a year starting late in 1988. Susumu Yanagisawa, president of Toyota Canada Inc., said the company will announce the size of the investment, the number of jobs to be created and the location this autumn.

**Gaco Systems** of Brantford, Ontario has been awarded two contracts from International Business Machines Corp. of Armonk, New York. The contracts are for the supply of high-purity water treatment systems in IBM's semi-conductor plant in Bromont, Quebec.

**The Canadian International Development Agency (CIDA)** has published a new booklet *Canadian Business and the Third World - A Growing Partnership* that outlines the role of Canada's private business sector in developing the economies of countries in the Third World. The publication outlines the activities of CIDA's industrial cooperation program (INC), highlights some of the successes over the five-year life of the program, and gives Canadian businessmen helpful hints on doing business in developing countries.

## News briefs

**Secretary of State for External Affairs** Joe Clark has announced the signing of an agreement between Canada and the European Atomic Energy Community for cooperation in the peaceful uses of nuclear energy. The agreement, which is in the form of an Exchange of Letters, was signed in Brussels on June 21 by Willy de Clercq for the European Communities and by Ambassador Jacques Gignac for Canada.

**The Minister for External Relations** Monique Vézina recently announced that Canada will contribute \$1 million to support the activities of the International Committee of the Red Cross in Nicaragua, Honduras, Costa Rica and El Salvador. The money will be provided through the Canadian International Development Agency to particularly assist the victims of armed conflict in El Salvador and Nicaragua.

**A major oil find** in a shallow area of the Beaufort Sea, some 98 kilometres northwest of Tuktoyaktuk, has been confirmed by a group headed by Esso Resources Canada Limited of Calgary, Alberta. Tests on the Nipterk L-19A delineation well showed oil flowing at rates of up to 3 390 barrels a

## Gas economy champs



A team from the University of Saskatchewan in Regina, broke the North American fuel economy record at the Shell Canada Fuel-a-Thon May 30 at Oakville, Ontario. Their lightweight, three-wheeled vehicle, Westwind IX, averaged only .0948 litres of gasoline per 100 kilometres. University students from across Canada and the United States compete each year to see who can go the furthest on the least amount of gasoline.

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day at a depth of 2 088 metres, as well as natural gas at 27 100 cubic metres a day at the same depth. According to Esso spokesman Paul Atkinson, it is one of the biggest finds in the Beaufort. It is the sixth well drilled by Esso and its associates in its 1985 program in the Beaufort.

**Olympia and York Developments** of Toronto, Ontario has purchased an immediate 49.9 per cent interest that Chevron Corp. of San Francisco held in Gulf Canada, raising Canadian control of the industry, measured by revenues from oil and gas production, to 47 per cent from 44 per cent. Olympia and York has also taken an option to buy the remaining 11 per cent interest Chevron still holds. In a further move it was announced that the Canadian Crown corporation, Petro Canada had reached an agreement with Gulf Canada to purchase Gulf's refining and marketing business in Ontario and Western Canada.

**An experimental aviation weather** television program designed to serve the aviation community in the Canadian Arctic, began on July 29. The early morning ten-minute program is being broadcast five days a week during the initial one-year test period.

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