

# Canada Reports

Ottawa  
Canada

Volume 2, No. 4  
February 19, 1986



1986 World Exposition -  
Vancouver, BC  
May 2 - October 13

## Surveillance drones for sales abroad

Two funding agreements providing for the pre-production of two military intelligence-gathering devices, the *CL-289* surveillance drone (unmanned air vehicle) and the remotely-piloted *CL-227 Sentinel*, developed by Canadair Limited of Montreal, have been signed by the Canadian government. It is expected that the surveillance systems will be sold to military forces in a number of countries including the United States, West Germany and France.

Canada will provide \$20 million and West Germany \$60 million and both countries will share production equally. Canadair will be the prime contractor and systems manager and Dornier GmbH of West Germany will be prime subcontractor. Société anonyme de télécommunications of France will produce the infra-red data systems.

Mr. Stevens said the *CL-289* agreement was Canada's "biggest-ever defence deve-

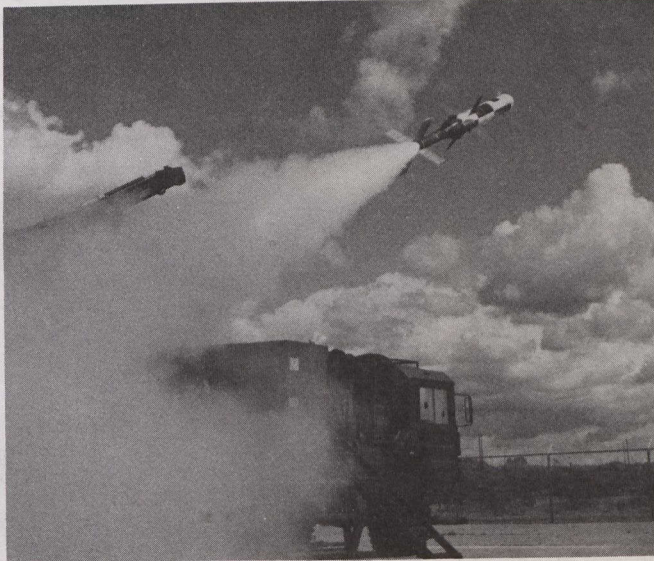
lopment venture with its European allies". The Canadian content of expected sales could exceed \$800 million by 1995, he added.

The missile-shaped *CL-289* is an extended version of the Canadair *CL-89*, which has been used by the military in West Germany, Britain, France and Italy since the 1970s.

Canadair built more than 600 of the *CL-89* drones, designed for use by division commanders. They are rocket-launched, fly a pre-programmed course and are sustained in flight by a small jet engine. The imaging system includes a television camera and an infra-red line scan sensor.

Once an area has been surveyed, the drone returns to a selected recovery area and parachutes to the ground where the imaging package can be retrieved.

The new *CL-289*, designed to cover an army corps area, has a longer range than the *CL-89*. Electronic sensors aboard the drone allow images of the area being surveyed to be recorded and transmitted back to the command base while the unit is in flight.



Canadair's booster-launched *CL-289* surveillance drone is being produced as a result of one of Canada's largest defence development agreements with West Germany and France.

The agreements, which were announced by Minister of Regional Industrial Expansion Sinclair Stevens, Minister of Mines Robert Layton and Treasury Board President Robert de Cotret, are expected to create 400 long-term jobs at Canadair and another 100 across the country and produce some \$1 billion in sales over the next decade.

### Extended capabilities

The first agreement signed by Canada, West Germany and France involves the pre-production of the booster-launched *CL-289* surveillance drone.

Surveillance drones for sales abroad, 1

Boiler maker seeks to boost exports to US, 2

Strong support for arms control negotiations, 3

Consultations in Africa, 3

Trade news: home products show, bilateral agreement, merchandise trade, 4-5

Fun and fantasy featured at largest shopping mall, 6

Award for decontaminating nuclear reactors, 6

Business suit winner, 6

Presenting Canadian foods, 7

Rapid circuit testing, 7

Exhibition goes back to our roots, 7

Economical wood stove fights pollution, 7

Trade update, 8

News briefs, 8

Top promotion film, 8

External Information Services Division



External Affairs  
Canada

Affaires extérieures  
Canada

### Unique advanced system

The second agreement involves \$30.9 million in grants for building ten prototype rotary-powered CL-227 Sentinel drones, two ground stations and six payload packages. Production is scheduled to start in 1988.

The CL-227 Sentinel drone can be remotely piloted from a ground station by radio signals or it can fly a pre-set course. Measuring only 1.64 metres, the air vehicle can take off and land vertically, fly in any direction, hover in flight and reach an altitude of more than 3 000 metres. It can stay aloft for up to three hours, has a very low noise level and low radar signature.

The sensor package on the CL-227 is different from that on the CL-289. The Sentinel uses thermal imaging and carries a laser designator which illuminates targets on the ground, thereby enabling aircraft or artillery to "home in" for an attack on the laser signal.

The medium-range system can be used for such military missions as monitoring troop movements on a battlefield, lining up targets or aiding in anti-submarine warfare.

Quasi-military applications might include border patrols, coast guard patrols and



The CL-227 Sentinel can be used in many military and commercial surveillance operations.

anti-smuggling patrols.

The CL-227 also has commercial applications. One recognized civilian task is the patrolling of power lines for hydro-electric

companies, which is now done by helicopters, often under risky and dangerous conditions. It can also be used on ice patrols for ships in the Arctic or in ice-infested waters.

## Boiler maker seeks to boost exports to US

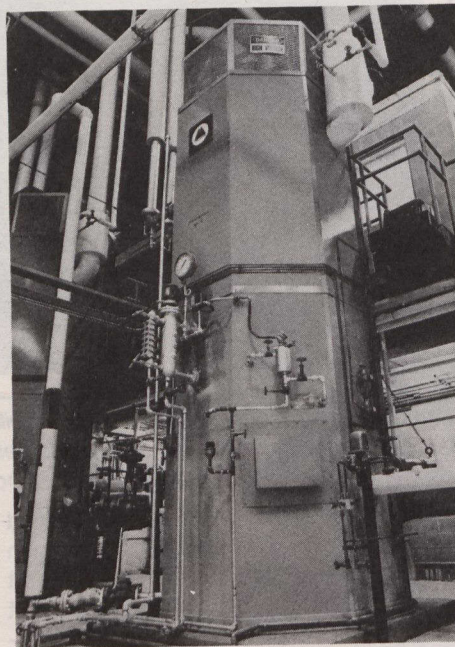
A leading Canadian boiler manufacturer, Volcano Inc., based in Saint-Hyacinthe, Quebec, is taking steps to expand its markets in the United States.

While all of Volcano's 1984 sales were made in Canada, the company has recently taken steps to sell products of its own design abroad by establishing a network of agents in the US.

Licence agreements which will terminate between 1986 and 1989, have been concluded with Zurn Industries Inc. of Erie, Pennsylvania for large capacity monobloc steam boilers and economizers; with the International Boiler Works Company of East Stroudsburg, Pennsylvania for high temperature thermal fluid or hot water Lamont boilers; with Wellons Inc. of Sherwood, Oregon for hog boilers and wood dryers; and with Hydro Steam Industries Inc. of Alexandria, Virginia for electrode boilers.

### Specialization

Volcano began to manufacture coal and oil-fired heating systems and domestic furnaces in the 1930s. Since then, services and products have increased to include the design, manufacture, installation and maintenance of industrial and commercial steam, thermal liquid or hot water boilers fired by oil, electricity, natural gas, coal, recovery gases,



An electric boiler with electrodes is one of many products manufactured and sold by Volcano Inc.

wood wastes and other fuels. The company now manufactures the most complete range of monobloc boilers in Canada.

Often designed and manufactured to meet the specific needs of a client, the boilers and related equipment range in price from

\$5 000 to \$3 million. The thermal capacity of the boilers varies between one million and 250 million BTU per hour.

The market for industrial and commercial boilers changed greatly in the past few years and Volcano has been able to adapt to meet new demands by improving existing products or designing new ones. Volcano was one of the first businesses in Canada in the area of fire tube boilers. New types of boiler systems that can be fired by hog fuel with a very high moisture content, have been developed. The product line has also been increased with the development of incinerator systems, gas and oil burners, wood dryers and other related equipment.

For the past three years, the conversion of oil-fired systems to natural gas or electricity has also been an important part of the company's business.

Sales which are mainly to the pulp and paper industry, the lumber industry, the oil industry, the food industry and the institutional sector have reflected the adaptability of the company. Approximately 75 per cent of 1984 sales were of products introduced in the past five years.

The company's sales have also grown significantly from \$20.4 million in 1980 to \$37.2 million in 1984. During the first six months of 1985, sales totalled \$15.12 million, compared with \$12.44 million for the corresponding period of the preceding year.

## Strong support for arms control negotiations

Secretary of State for External Affairs Joe Clark has stressed that as the fourth round of US-USSR nuclear arms talks begin in Geneva, Canada is determined to assist "the process of negotiation towards an equitable agreement". Speaking to the House of Commons on January 23, he said Canada would increase its efforts to encourage arms control progress by urging both countries to comply with existing arms control treaties, by developing practical solutions to verification problems and by supporting an improvement in East-West relations. Following are excerpts from his speech:

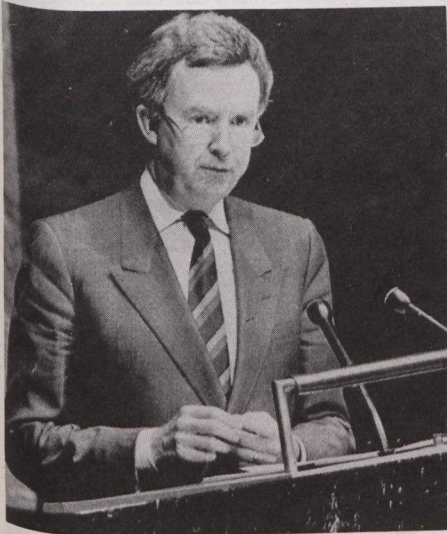
For Canadians, no duty is more challenging than to contribute constructively to peace among nations. In a world threatened by the spread of arms, we are one country who, decades ago, chose deliberately not to acquire nuclear weapons....

A year ago, in a statement in Parliament, I expressed the government's satisfaction at the agreement between the US and the Soviet Union to resume negotiations in Geneva....

### Positive progress

We are encouraged by the signs of progress, in particular, the tabling last fall of detailed American and Soviet proposals which contained some important common features: a 50 per cent reduction of nuclear arsenals, limits on warheads as well as launchers, and sublimits on ICBM warheads. We hope that, in this International Year of Peace, the experienced negotiators of both sides will be able to enlarge significantly on this common ground. Agreement on an equitable formula for the radical reduction of nuclear forces and on the appropriate relationship between offensive and defensive strategies and systems will remain the key challenges.

We welcome the broad-ranging proposal



Canapress

Joe Clark stressed that agreement on arms control must be based on negotiated treaties in his address to the House of Commons and to the fortieth session of the General Assembly of the UN (above) last September.

issued by General Secretary Gorbachev and its reaffirmation of the Soviet Union's commitment to nuclear disarmament....

The Geneva summit and the decision to regularize this high-level contact improve the prospects for progress in arms control. Besides bringing leaders together, regular meetings build in an annual accounting of progress on arms control and encourage leaders to resolve issues which negotiators cannot.

### Increased influence

Through the channels open to us, Canada will actively encourage the conduct of serious and constructive negotiations. The House should note the extraordinary degree to which the United States has informed and consulted with its allies since the Geneva process was resumed. The prime minister's personal meetings and conversations with President Reagan provide a continuing avenue of Canadian influence on the administration's positions on arms control.

In December, in Brussels, I convened a special meeting of Canadian arms control ambassadors to identify specific areas where Canada might contribute to practical progress. One instrument is to press within the North Atlantic Treaty Organization for more frequent and focused consultation on the state of the various arms control negotiations and their implications for Alliance policies.

We will not, however, be talking only amongst ourselves. This government is committed to promoting a more active and meaningful dialogue with the countries of the Eastern bloc. In September the prime minister wrote to General Secretary Gorbachev outlining Canadian views and priorities with respect to arms control and disarmament. Last month I sent a team of Canadian officials to Moscow for consultations on arms control with the top Soviet experts, Ambassadors Petrovsky and Karpov. Similar consultations are planned with other East European countries this year....

### Specific contributions

This government's activity will be focused in three directions: encouraging compliance with existing treaties; developing verification

mechanisms; and building confidence between East and West.

To deviate from a policy of full compliance is to threaten the credibility, and hence the viability of arms control. Canada firmly supports the regime created by the Anti-Ballistic Missile (ABM) Treaty and the existing Strategic Arms Limitation (SALT) agreements on limiting strategic forces. Our stance towards strategic defence initiative research is rooted in the need to conform strictly with the provisions of the ABM Treaty. We will continue to urge the parties to these treaties to do nothing to undermine their integrity, but rather work to reinforce their status and authority.

Effective verification provisions can help ensure compliance with arms control treaties as well as facilitate their negotiation. Verification is an area where Canadian expertise and diplomacy come together. At the UN this fall, a Canadian-initiated resolution on verification was unanimously adopted. We are second to none in our activity to develop verification procedures and technology that meet the practical requirements of arms control agreements actually under negotiation or envisaged....

## Consultations in Africa

Minister for External Relations Monique Vézina made official visits to Gabon, Senegal and Niger, January 7 to 17, to discuss international issues and Canada's political, economic and trade relations with each country.

She led the Canadian delegation to the third session of the Canada-Gabon Bilateral Commission, the third session of the Bilateral Commission in Senegal and the regular bilateral consultations on the co-operation program in Niger.

Consultations were also held in each country in preparation for the Francophone Summit, currently being held in Paris.

Mrs. Vézina visited a number of co-operation projects begun by the Canadian International Development Agency and met with groups of Canadian business leaders in each country. In Gabon, she participated in a cornerstone-laying ceremony for the new Ministry of Foreign Affairs and Co-operation building, which was designed and built by a Canadian firm. In Niger, she signed a general development co-operation agreement that establishes the main themes for Canadian involvement in the country.



Monique Vézina

## First showing of home products at Chicago fair

Canada will be participating for the first time with a national stand, sponsored by the Department of External Affairs, at the National Home Center Show in Chicago, Illinois, March 9-12.

The annual show, now in its eleventh year, features a complete range of products for the home, with particular emphasis on the do-it-yourself market. It is one of the largest North American home product shows and in 1984, some 1 300 exhibitors attracted more than 30 000 visitors.

### Total access to industry

Telidon, a highly sophisticated Canadian videotex system that converts a standard television set into a powerful information centre, will be a major component of Canada's exhibit at the show.

The versatile, easy-to-operate system provides two-way communications between user and data bank and will allow visitors to access some 700 Canadian manufacturers that export hardware products, housewares, hand tools, electrical and plumbing supplies, and hardware store equipment to the United States. Buyers interested in a specific product will receive up-to-date descriptions and realistic graphic representations of any of 200 home-centre-related wares.

The Telidon system will also help direct visitors to the booth locations of the 40 leading Canadian manufacturers participating in the trade fair.

The 19 Canadian companies, that will participate at the national stand, offer an

extensive range of products from maintenance-free fencing, premium-quality tools, handy storage equipment, fine cabinetry, luxurious bathtubs and home sauna kits to versatile gardening tool systems and oscillating heater fans. The companies are:

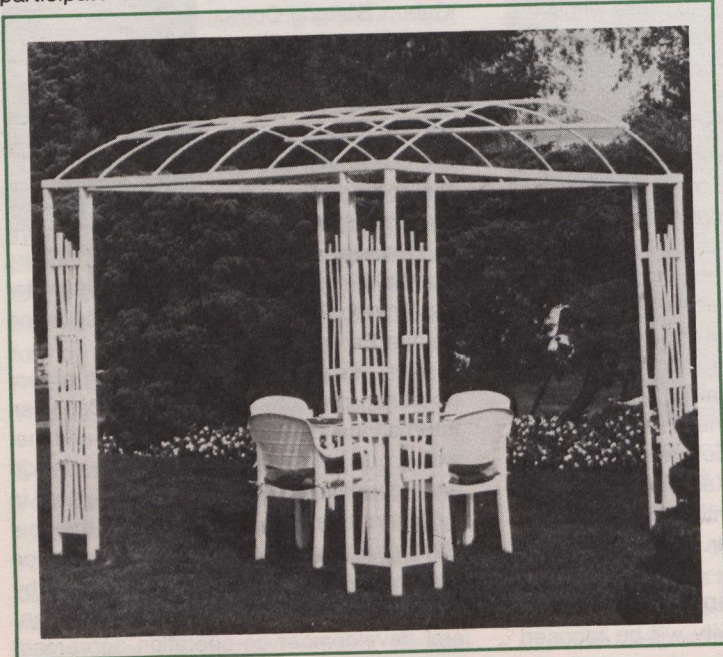
- Almico Limited — whirlpool, therapeutic and combination models of acrylic bathtubs;
- Ayton Park Industries Inc. — a number of products including circuit-finder tools and child's portable sinks;
- Balzac Inc. — oak wall panelling, wainscoting, pine and oak fireplace mantel-



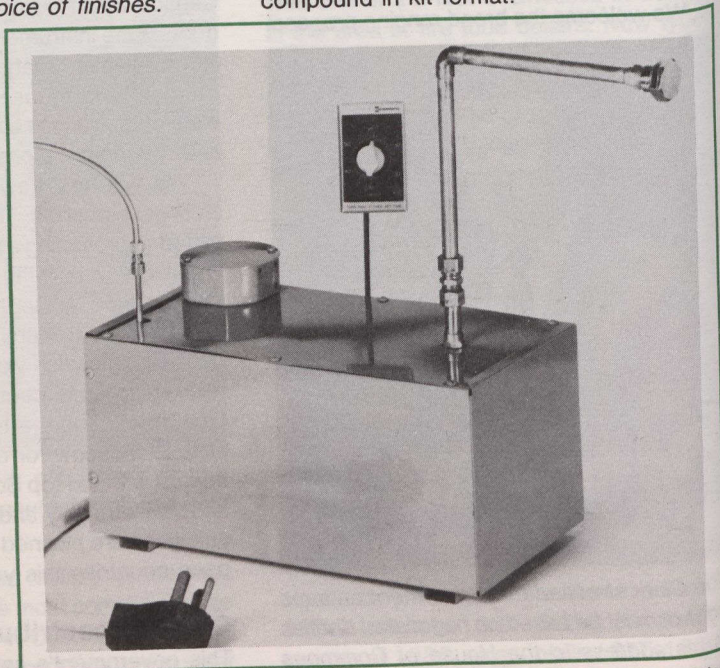
*Allen Simpson Marketing and Design's garden tools are cast from a rust-free, high-strength aluminum alloy in a choice of finishes.*

pieces, mouldings and accessories;

- Colonial Elegance Inc. — wooden staircase components, curtain rods, plate rails, mailboxes and paper towel holders;
- Creative Space, Division of Edfran Enterprises Limited — specialty hangers and ventilated storage bins;
- Garant Inc. — household tools including shovels, axes, hammers, sledges, snow scrapers, pushers and scoops;
- Giles Tool Agencies Limited — propane cylinders and torch kits;
- Gray Tool Company — hand tools for the professional and homeowner;
- Lorenzo Industries Inc. — simulated marble and onyx bathroom fixtures, vanity combinations, linen and utility cabinets;
- Manhattan Products Inc. — bathroom accessories, cabinets with co-ordinated lighting, tub enclosures and shower doors;
- Melnor Manufacturing Limited — shovels for house and car and roof racks;
- Niagara Triad Canada — high-strength PVC fencing and accessories;
- PALIMI — propane barbeques;
- Frank T. Ross & Sons Limited — weldbond adhesives;
- Seabreeze Electric Corporation — oscillating safety and heater fans;
- Allen Simpson Marketing & Design Limited — gardening tools with snap-on tool heads and household plant tool kits;
- Steam Sauna — household sauna kits;
- Swing Paints Limited — furniture stripper, lemon oil, tung oil, heavy body paint remover, teak oil and paste varnish; and
- Xypex Chemical Corporation — concrete waterproofing compounds, hydraulic cement compound in kit format.



*Attractive maintenance-free, high-strength PVC garden furniture is manufactured by Niagara Triad Canada.*



*The easy-to-install steam generator from Steam Sauna, is one of the many new products at the home show.*

## Bilateral agreement may expand world trade

International Trade Minister James Kelleher, in a speech in Los Angeles on January 16 to the Canada-California Chamber of Commerce and the California Council for International Trade, said that a new bilateral trade agreement between Canada and the United States could bring world trade barriers down and expand the multilateral trading system.



James Kelleher

Mr. Kelleher said that the principles of the 1935 bilateral agreement lowering trade barriers between the two countries became the foundation for the current world trading system. He added that "if Canada and the United States could lead the way, if we could show the rest of the world that trade liberalization is to everyone's advantage, I believe the multilateral negotiations might yield better results: more barriers would come down faster throughout the world".

### Progress slow

Emphasizing the importance of the General Agreement on Tariffs and Trade (GATT) for maintaining an orderly trading system and lowering trade barriers throughout the world, Mr. Kelleher pointed out that as the needs of a hundred nations must be considered, progress was often slow.

He added that GATT, "by itself, is not equipped to address the needs of a bilateral trading relationship as extensive, dynamic and complex as the one between Canada and the United States".

### Canada-US trade goals

Mr. Kelleher said Canada has three main objectives in bilateral trade negotiations with the United States. These are:

- assured and stable access to each other's markets to create employment in both countries and stimulate balanced economic development;
- the reduction and elimination of other tariff and non-tariff barriers; and
- the creation of a better framework of rules to settle disputes.

### Quadrilateral trade meeting

Following his visit to Los Angeles, Mr. Kelleher attended the Quadrilateral Trade Ministers Meeting, January 16-18, hosted by US trade representative Clayton Yeutter in San Diego, California.

The "quadrilateral representatives" are the ministers responsible for international trade from Canada, the US and Japan and the commissioner from the Commission of the European Community. Together these countries account for 65 per cent of world trade and the representatives have met two or three times a year since 1982 to informally discuss their views on issues concerning international trade. The Canadian minister hosted the last meeting in Sault Ste-Marie, July 11-14, 1985.

### Major agenda

The meeting in San Diego focused on the new round of GATT negotiations scheduled to begin in September.

The delegations agreed that there was an

urgent need to streamline the process for settling international trade disputes.

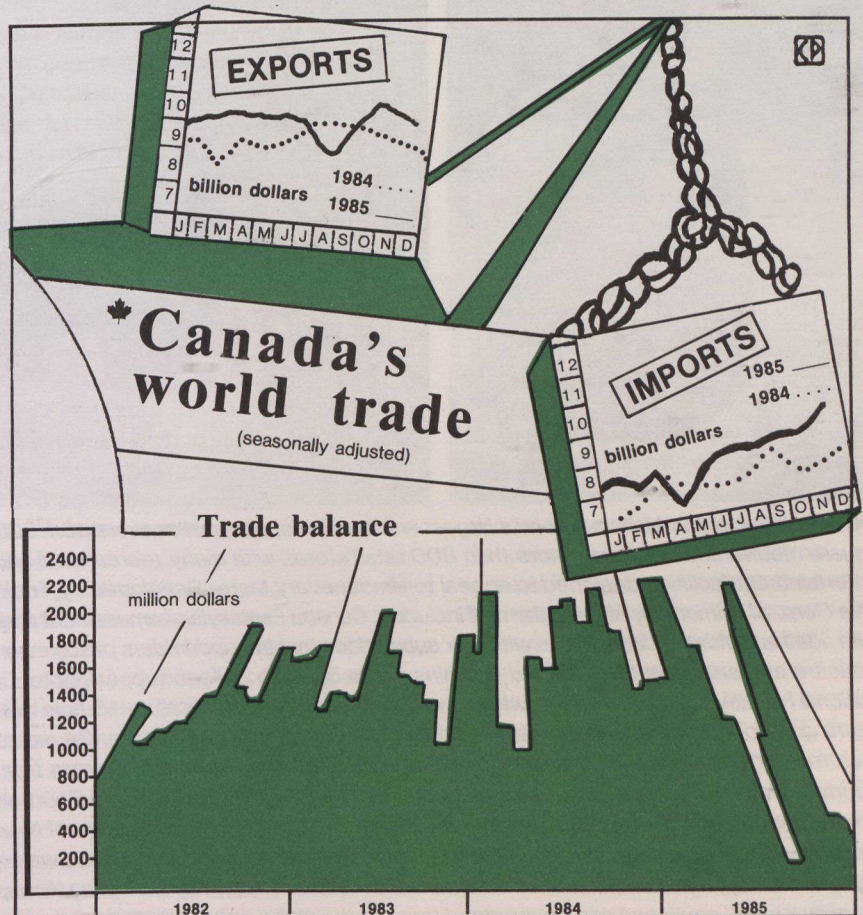
"There's a great deal of concern amongst the business community both in Canada and the United States that the GATT agreement is fine, but if you can't settle disputes when they arise, what good is the agreement," said Mr. Kelleher.

Other issues discussed at the meeting included trade in agriculture and natural resource products; discriminatory tariffs; trade in services such as banking, insurance and services; intellectual property such as patents and trade marks; and temporary trade barriers set up to protect a specific industry in special circumstances.

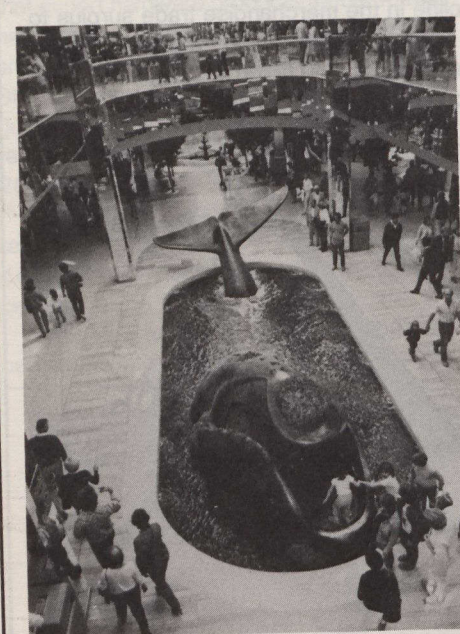
Mr. Kelleher re-emphasized the invitation made by Prime Minister Brian Mulroney late last year to hold the ministerial conference inaugurating the multilateral trade talks in Montreal, Quebec.

## Merchandise trade surplus decline

Preliminary estimates from Statistics Canada indicate that in November Canada's exports declined and imports rose resulting in a decline in the merchandise trade surplus to \$500 million from \$2.2 billion in October. Exports for November, which amounted to \$10 billion, declined 8.4 per cent from the record \$10.9 billion in October. Imports rose 8.9 per cent or \$781 million to a record level of \$9.5 billion.



## Fun and fantasy featured at largest shopping mall



The West Edmonton Mall, the world's largest enclosed shopping mall, covers 464 500 square metres and combines more than 800 retail stores with many recreational and entertainment facilities designed to appeal to almost every taste. Developed by Triple Five Corp. of Edmonton, Alberta, the mall includes: Canada Fantasyland amusement park with rides and video arcade; a lake with four submarines that transport riders past sunken treasure and sea monsters, trained dolphins and a Spanish galleon (upper photo); a National Hockey League-sized rink where the Edmonton Oilers practice; an 18-hole miniature golf course; aquariums, aviaries and animals from donkeys to tigers; 34 movie theatres and a theatre for live performances; and a number of specialized areas from gourmet dining to Europa Street with fountains modelled after Versailles and Bourbon Street (bottom right photo) modelled after the same street in the French Quarter of New Orleans. A four-hectare water park with lake, beach, white water rides, surfing and water-skiing and a Fantasyland hotel with 360 rooms are scheduled to open by the spring. Group tours and travel packages can be arranged through the mall's own tourism department.

## Award for decontaminating nuclear reactors

London Nuclear Limited of Niagara Falls, Ontario was the winner of the 1985 IR-100 Award for its CAN-DECON PWR nuclear decontamination process. The award is presented annually in a competition sponsored by *Research and Development* magazine of Barrington, Illinois.

Eric Lesurf, president of London Nuclear said "the process was judged one of the 100 most significant technological advances of the year".

The CAN-DECON PWR decontamination process is used in a pressurized water reactor, one of the two main types of reactor in the US, to dissolve deposits containing radioactive materials. In addition to significantly reducing radiation exposure, the process is fast, inexpensive, easy to apply and produces no liquid wastes.

### Modified method

The process is a modification of the CAN-DECON process developed by Atomic Energy of Canada Limited (AECL) and Ontario Hydro to reduce radiation fields around pumps and components of CANDU nuclear power plants and keep exposure of maintenance personnel to a minimum.

London Nuclear has been marketing the CAN-DECON process in the United States since 1979 for boiling water reactors, which are the other main type of reactor used in the country. As the radioactive materials in boiling water reactors are easier to dissolve and similar to those in the CANDU, the original CAN-DECON process could be applied with little modification.

Researchers from London Nuclear, led by Jeremy Smee, AECL, led by J. Torok and the Ontario Research Foundation, led by R.T. Lassau, were responsible for developing the modified process.

Canapress

David Ferguson photos

## Business suit winner

Santo Gallo, head designer for Cambridge Clothes of Hamilton, Ontario, recently received the top award for a business suit design from the International Association of Clothing Designers at a presentation in Abano Terme, Italy. The winning design was selected in a competition of designers from 16 countries.

The award-winning suit featured a single-breasted jacket without a vent and double-pleated trousers with tapered bottoms.

Mr. Gallo also won the award in 1979.

## Presenting Canadian foods

In March, Canadian food products, which are increasing in popularity in the United States, will be featured at a number of food fairs in the country. The events are expected to offer Canadian food product exporters good opportunities for expanding sales in the US multi-billion dollar market.

One retail food show will be held on March 5 as part of "Salute to Canada Week", February 28 to March 10, in Atlanta, Georgia. The salute will include a six-day tasting and sampling of Canadian products, hosted by the Canadian consulate general.

In New York City, Canada's mission will participate in the tenth annual New York Metro Food Service Show, March 25-27, sponsored by the New York State Restaurant Association. The event is expected to attract more than 300 exhibitors.

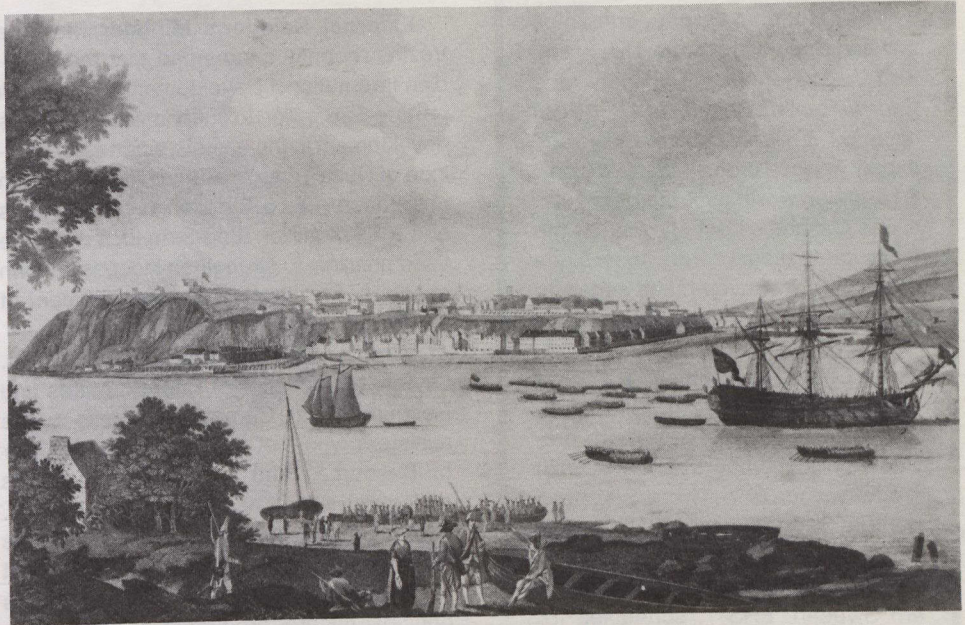
Another solo event, the March 25 Minneapolis Food and Beverage Fair, is being organized by the Department of External Affairs in Bloomington, Minnesota. Members of the American food trade interested in Canada as a long-term source of supply for food and beverage products, are expected to attend the show.

## Rapid circuit testing



Working with the most advanced integrated circuit tester in the world, Bell-Northern Research (BNR) scientist Robert Hum prepares to evaluate the quality of a new BNR-designed very large scale integrated circuit. The system can perform 11 520 million tests per second on a chip with 288 pins that connect the chip's internal circuitry to a surrounding protective package.

## Exhibition goes back to our roots



View of the town of Quebec, 1761, by Richard Short.

*Taking Root*, an exhibition of historical documents illustrating Canada's history from 1700 to 1760, is being presented at the Public Archives of Canada in Ottawa until March 23. It is the second exhibition in the series *Records of Our History* and has been designed to travel across the country.

The documents include maps, engravings, paintings, seals, medals manuscripts and printed material and reflect seven main themes: exploration and discovery, population and settlement, government, wars, economy, society and religion.

The exhibition has been designed to travel across the country and therefore copies, not originals, have been used. They have been selected from 29 Canadian, American and European institutions. Many of the hand written papers are unedited and have rarely been viewed except by historical researchers.

A book illustrating more than 200 documents from the period, including those in the exhibition, has also been published. It contains a review of the period, introductions to the themes and sub-themes and a description of the records by historian André Vachon.

## Economical wood stove fights pollution

Erwin Fernbach and Robert Gueriere of Ryerson Polytechnical Institute in Toronto have developed a wood stove they claim will burn a third fewer logs than a conventional one and cause 80 per cent less pollution.

The inventors have recently been awarded a US patent for the stove and they are currently negotiating a licensing agreement with a Canadian stove manufacturer. The first step will be to build several prototypes. Professor Fernbach estimated that a commercially available model will be ready in two years.

In the new stove, rather than burning, the wood smolders slowly — a process Professor Fernbach likened to the technique used to make charcoal briquettes. The poisonous carbon monoxide and other toxic hydrocarbons in the hot, thick, black smoke it gives off is then broken down into less harmful carbon dioxide.

This transformational cleansing is achieved by passing the noxious fumes through two filters coated with palladium that act as a catalyst causing the gases to change. The catalyst-induced changes in the black smoke also release energy that otherwise goes up the chimney during wood-burning.

After it has passed through the two filters, the hot air — at 500 to 900 degrees Celsius — travels through a complex heat-transfer system. Professor Fernbach said the process is so efficient that the air coming out of the chimney is only 70 to 75 degrees. This exit temperature compares with 400 degrees for an ordinary fireplace, and 200 for a typical modern wood-burning stove.

"This means you should be able to load the stove once a day," said Professor Fernbach. It is also possible that the stove pipe could be made from plastic, he added.

## Trade update

The Canadian carpet companies that participated at Heimtextil in Frankfurt, West Germany in January (see *Canada Reports* December 18, 1985) made \$4.8 million in on-site sales and expect to place orders for an additional \$15-million worth over the next year. It was Canada's best showing at the major international carpet show since the Canadian government began to sponsor participants in 1983.

**MacDonald, Dettwiler** and Associates Limited of Richmond B.C., has been given a \$5-million contract by the European Space Agency to provide a synthetic-aperture radar (SAR) processor for *ERS-1*, the European Remote Sensing satellite. The equipment will be housed in a tracking station the company is building in northern Sweden. *ERS-1*, scheduled for launch in 1989, is the first of three satellites that will monitor the world's oceans and coastal regions.

**Canadian General Electric** Company Limited of Toronto will receive up to \$34 million (Cdn) in financing support from the Export Development Corporation for a sale to Colombia. The sale involves the supply of generators, ancillary equipment, bridge cranes and services for Phase I of the Guavio Hydro-Electric Project.

**Northern Telecom Limited** of Mississauga, Ontario recently signed two agreements to supply its fully digital *SL-1* private branch exchanges (PBX) to China. A 2400-line *SL-IXN* is being installed at the Bai Yuen Airport in Guangzhou for the Civil Aviation Administration of China, the largest commercial airline in the country. The 4640-line *SL-IXN* will provide voice and data communications for Shougang Beijing (Capital Steel Factory), one of the five largest steel factories in China. Both PBX systems are scheduled for completion this year.

**Trillium Telephone Systems Inc.** of Kanata, Ontario has reached an agreement with a major US telecommunications equipment distributor, Graybar Electric Co. Inc., for the sale of Trillium's *TalkTo 208* electronic key telephone system, aimed at the small business and residential telephone market in the US. The deal is expected to boost the company's US sales by more than \$1 million this year.

## News briefs

**External Relations Minister** Monique Vézina recently announced that the Canadian International Development Agency will provide \$26 million to support water resource development in the eastern Indonesian province of Nusa Tenggara Timur. The Canadian assistance — \$16.3 million in contributions and a \$9.7 million long-term loan — will be used primarily to strengthen Indonesia's own capability for planning and management of its natural resources.

**Minister of State (Mines)** Robert E.J. Layton and Minister of Energy, Mines and Resources Pat Carney were among the ministers who met with Australian Minister of Resources and Energy Gareth Evans during his visit to Canada, January 22 to 28. International mineral issues as well as domestic mineral developments of interest to Canada and Australia as two of the world's principal mineral producers and exporters were discussed. Mr. Layton and Mr. Evans reaffirmed their support for the proposed establishment of an international study group on nickel in October.

**Robert Bourassa** won a by-election in Quebec on January 20 and will enter the National Assembly as premier of the province

## Top promotion film



Chris Mikula, The Citizen

*Corvideocom Limited of Ottawa, Ontario has won the sales promotion/public relations and corporate communications award, given annually by the Canadian Film and Television Association, for its film, Rewire Your Thinking. The three-minute promotion film was produced by Corvideocom's president Alan White and Andrea Minty (above), for showing at a trade fair in Las Vegas.*

## Can we help you?

If you would like the address of a company or organization mentioned in this issue of *Canada Reports*, please fill in and return this form to the address in the box below.

Name of company or organization:

Senders name and address:

on March 11. Mr. Bourassa, who did not win his riding in the December 2 provincial election, is leader of the Quebec Liberal Party which won 99 of 122 seats in the election.

**Otto Schaefer**, a physician who has worked on health problems of the northern native population for more than 30 years, has received the second northern science award. Dr. Schaefer has carried out some original studies into glucose, alcohol and INH metabolism and has prepared more than 70 papers and monographs on infectious diseases and general epidemiology, nutrition and metabolism, and cardio-pulmonary effects of exposure to cold. The northern science award includes a Centenary Medal designed to commemorate the one-hundredth anniversary of the first International Polar Year in 1882-83 and an award of \$5 000.

**Gareth Wood** of Sidney, BC has become the first Canadian to walk to the South Pole. He and Roger Mear and Robert Sean of Britain walked the 1 420-kilometre route in two-and-one-half months, arriving at their destination four days ahead of schedule. The \$1.5-million expedition was sponsored by 700 companies, for which the three conducted research and experiments.

**Canada Reports** is published by the External Information Services Division, Department of External Affairs, Ottawa, Ontario, Canada, K1A 0G2.

Telex: 053-3745.

Editor: Carole Stelmack.

Comments or suggestions from readers are welcome. A credit is requested for any material reprinted.

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

# Canada



# Canada Reports quarterly index

(December 1985, Volume 1, No. 7 — February 1986, Volume 2, No. 4)

## Acid rain

Envoys' report, Vol. 2, No. 3, P. 7

## Africa see Visits

## Agriculture

Canada-USSR agreement, Vol. 2,  
No. 1, P. 3

## Aid

CIDA assistance for Third World,  
Vol. 2, No. 3, P. 3  
Disaster relief for Colombia, Vol. 1,  
No. 7, P. 3

## America East '86 see Trade

## Anniversaries

Canadian Pacific centennial, Vol. 1,  
No. 7, P. 7  
Northwest Rebellion, Vol. 1,  
No. 8, P. 7  
Royal Canadian Navy, Vol. 1,  
No. 8, P. 7

## Aptitude tests see Computers

## Archimedes house see Builders and building products

## Arctic see Laser surveys

## Arms control and disarmament see Foreign policy

## Attaché service see Aviation

## Australia see Trade fairs

## Automotive industry see Trade

## Aviation

Attaché service, Vol. 2, No. 2, P. 5

## Awards

Clothing, Vol. 2, No. 4, P. 6  
Decontaminating nuclear reactors,  
Vol. 2, No. 4, P. 6  
Order of Canada (Pierre Trudeau),  
Vol. 1, No. 7, P. 8  
Promotion film, Vol. 2, No. 4, P. 8

## Barbados see Fishing

## Beneteau, Marc see Music

## Boilers see Trade

## British Columbia see Shipwreck

## Buchan, John see Exhibitions

## Builders and building products (see also Trade fairs)

Archimedes house, Vol. 2,  
No. 1, P. 1

## Business see Consulting service; and Trade

## Canadian International Development Agency (CIDA) see Aid

## Canadian Pacific see Anniversaries

## Carpets see Trade fairs

## Cellular telephones see Communications

## Christmas (see also Exhibitions; and Stamps)

Decorations, Vol. 1, No. 8, P. 4  
Prime minister's greeting, Vol. 1,  
No. 8, P. 4

## Circuit testing see Technology

## Clothing (see also Awards)

"Skelto-Ban" jacket, Vol. 2, No. 1, P. 5

Yukon parkas, Vol. 2, No. 1 P. 4

## Colombia see Aid

## Communications

Mobile cellular radio-telephone service, Vol. 2, No. 2, P. 4

## Computers

Aptitude test photos, Vol. 2,  
No. 1, P. 5  
Universal Teletex Controller, Vol. 1,  
No. 8, P. 8

## Conferences

First ministers', Vol. 2, No. 1, P. 8

## CONSTRUCTA '86 see Trade fairs

## Consulting service

Business, Vol. 2, No. 2, P. 5

## Corporate sponsors see Exhibitions

## Countertrade primer see Trade

## DOMOTECHNICA '86 see Trade fairs

## Drones see Surveillance

## Edmonton see Shopping services

## Electronic pricing see Shopping services

## Energy

Natural gas agreement, Vol. 7,  
No. 1, P. 2

## Ericsson see Shipwreck

## Exhibitions

Buchan, John, Vol. 1, No. 8, P. 7  
Christmas, Vol. 1, No. 8, P. 4  
Corporate sponsorship program  
(Pratt), Vol. 2, No. 2, P. 6  
Early history, Vol. 2, No. 4, P. 7

## Films see Awards

## FIME '86 see Trade fairs

## First ministers see Conferences

## Fish and food products see Trade; and Trade fairs

## Fishing

Harbour built in Barbados, Vol. 1,  
No. 7, P. 2

## Foreign policy

Arms control support, Vol. 2,  
No. 4, P. 3  
Support for UNESCO, Vol. 1,  
No. 7, P. 3

## Forestry see Trade fairs

## Health see Trade fairs

## Heimtextil '86 see Trade fairs

## History see Exhibitions

## Home products (see also Trade fairs)

Highly efficient wood stove, Vol. 2,  
No. 4, P. 7

## Hungary see Trade

## India see Visits

## Investment

Advisers appointed, Vol. 2,  
No. 3 P. 3

## Japan see Trade

## Laser surveys

Arctic, Vol. 2, No. 2, P. 6

## Marine institute see Research

## Medicine

Laser treatment, Vol. 2, No. 3, P. 7

## Microwave systems see Trade

## Music

Beneteau guitars, Vol. 2, No. 1, P. 4  
International year for Canada, Vol. 2,  
No. 3, P. 6

## Mustard see Trade

## Natural gas see Energy

## News briefs (all issues P. 8)

Aid to China, Vol. 1, No. 8  
Aid to Indonesia, Vol. 2, No. 4  
Aid to Mexico, Vol. 1, No. 7  
Aid to Pakistan, Vol. 2, No. 1  
Alberta investment, Vol. 2, No. 3  
Award for Tridon, Vol. 2, No. 1  
Bourassa, Robert, Vol. 2, No. 4  
B.C. business incentives, Vol. 2, No. 1  
Canada Print Register, Vol. 2, No. 1  
Centre for Advanced Technology  
Education, Vol. 2, No. 3  
Communications project for youth,  
Vol. 1, No. 8  
Fisheries, Vol. 2, No. 3  
Gretzky, Wayne, Vol. 2, No. 2  
Immigration levels, Vol. 2, No. 2  
Industrial co-operation with Brazil,  
Vol. 1, No. 7  
Johnson, Ben, Vol. 2, No. 3  
Kelley, Danford G., Vol. 1, No. 7  
Prescription for Health, Vol. 2, No. 3  
Samson, Rock, Vol. 2, No. 1  
Schaefer, Otto, Vol. 2, No. 4  
UN hostage convention, Vol. 2, No. 2  
Visit of Dante Caputo from Argentina,  
Vol. 1, No. 8  
Visit of Gareth Evans from Australia,  
Vol. 2, No. 4  
Visit of Jozsef Marjai from Hungary,  
Vol. 1, No. 7  
Wood, Gareth, Vol. 2, No. 4  
Wood Heating Alliance Show,  
Vol. 2, No. 3

## New Zealand see Trade

## North Atlantic Treaty Organization

Leaders post-summit meeting, Vol. 2,  
No. 1, P. 3

## Northwest Rebellion see Anniversaries

## Nuclear reactors see Awards

## Order of Canada see Awards

## Pacific Rim see Trade

## Pakistan see Visits

## Papermaking

Odour-free process, Vol. 2,  
No. 1, P. 4

## Pensions

Canada-West Germany agreement,  
Vol. 2, No. 1, P. 7

## Pollution see Awards; and Home products

## Pratt, Christopher see Exhibitions

**Publication** see Trade

**Research**

Marine facility, Vol. 2, No. 3, P. 3

**Royal Canadian Navy** see Anniversaries

**Shipwreck**

Ericsson in B.C. waters, Vol. 2,  
No. 1, P. 7

**Shochu** see Trade

**Shopping services**

Cable television, Vol. 2, No. 1, P. 5  
Edmonton mall, Vol. 2, No. 4, P. 6  
Electronic pricing, Vol. 2, No. 1, P. 5

**"Skeeto-Ban" jacket** see Clothing

**Sports**

Ski victories, Vol. 2, No. 3, P. 8

**Stamps**

Christmas, Vol. 1, No. 8, P. 5

**Stratford** see Theatre

**Surveillance**

Drone systems, Vol. 2, No. 4, P. 1

**Technology** (see also Medicine)

Circuit testing, Vol. 2, No. 4, P. 7

**Television** see Shopping service

**Theatre**

Stratford US tour, Vol. 1, No. 7, P. 7

**Third World** see Aid

**Trade**

Auto parts for West Germany, Vol. 1,  
No. 8, P. 6

Boilers for US, Vol. 2, No. 4, P. 2  
Canada-Hungary, Vol. 1, No. 8, P. 6  
Canada-Japan, Vol. 2, No. 3, P. 4  
Countertrade primer, Vol. 2,  
No. 1, P. 3

Envoy appointed, Vol. 1, No. 7, P. 1

Export advice book, Vol. 1,  
No. 7, P. 5

Fish sales, Vol. 1, No. 7, P. 4

Merchandise, Vol. 1, No. 7, P. 5;  
Vol. 2, No. 2, P. 7

Microwave markets, Vol. 1,  
No. 7, P. 4

Multilateral, Vol. 2, No. 4, P. 5

Mustard sales, Vol. 1, No. 7, P. 5

October exports and imports, Vol. 1,  
No. 7, P. 5

Shochu sales, Vol. 2, No. 3, P. 6

Trade surplus (November), Vol. 2,  
No. 4, P. 5

Visit by international trade minister to  
Pacific Rim, Vol. 1, No. 8, P. 1

Visit of Japanese prime minister,  
Vol. 2, No. 3, P. 1

Visit of US secretary of state, Vol. 1,  
No. 7, P. 1

**Trade fairs**

AMERICA EAST '86 (building pro-  
ducts) in the US, Vol. 2, No. 1, P. 6

CONSTRUCTA 86 (building products)  
in West Germany, Vol. 2, No. 1, P. 6

DOMOTECHNICA 86 (home products)  
in West Germany, Vol. 2, No. 2, P. 7

FIME '86 (forestry) in Australia,  
Vol. 1, No. 8, P. 3

Heimtextil '86 (carpets) in West  
Germany, Vol. 1, No. 8, P. 3

National Home Health Care Show in  
the US, Vol. 1, No. 7, P. 6

WOODEX '85 (forestry) in New  
Zealand, Vol. 1, No. 8, P. 3

**Trade update** (all issues P. 8)

ANUGA '85, Vol. 2, No. 1

Array Technologies, Vol. 2, No. 2

BG Checo International, Vol. 1, No. 7

CAE Electronics, Vol. 2, No. 2

Canada-Ghana Mining Group,  
Vol. 1, No. 8

Canada-Hungary line of credit,  
Vol. 1, No. 8

Canada-USSR agriculture agreement,  
Vol. 2, No. 2

Canadian General Electric,  
Vol. 2, No. 4

Canadian international project  
managers, Vol. 1, No. 7

Cattle exporters, Vol. 2, No. 2

Columbia Chrome Industries,  
Vol. 1, No. 8

Combustion Engineering, Vol. 2, No. 2

COMPEC, Vol. 2, No. 2

Export Development Corporation  
insurance, Vol. 1, No. 7

EIMCO Process Equipment,  
Vol. 2, No. 2

Griffith Oil Tool, Vol. 1, No. 7

Heimtextil, Vol. 2, No. 4

Hyundai Automobile Company,  
Vol. 2, No. 3

I.P. Sharp, Vol. 2, No. 2

Import controls on footwear,  
Vol. 1, No. 8

INTERA Technologies, Vol. 2, No. 3

International Trade Advisory  
Committee, Vol. 2, No. 3

Kelk, George, Vol. 2, No. 2

McCain Foods, Vol. 2, No. 2

MacDonald, Dettwiler and Associates,  
Vol. 2, No. 4

Moli Energy, Vol. 2, No. 1

Northern Telecom, Vol. 2, No. 4

Ontario Bus Industries, Vol. 1, No. 8

Partec Lavalin, Vol. 2, No. 1

Sandwell and Company, Vol. 1, No. 8

Sklar-Peppler, Vol. 1, No. 7

Tanguay Industries, Vol. 2, No. 1

*Techniques of Exporting*, Vol. 2, No. 3

Teklogix, Vol. 2, No. 1

Trillium Telephone Systems,  
Vol. 2, No. 4

**Trudeau, Pierre** see Awards

**United Nations** (see also Foreign policy)  
Weapons guide, Vol. 2, No. 3, P. 3

**Union of Soviet Socialist Republics** see  
Agriculture

**United States** see Theatre; Trade; and  
Trade fairs

**Universal Teletex Controller** see  
computers

**Visits** (see also Trade)

External relations minister to Africa,  
Vol. 2, No. 4, P. 3

Secretary of state for external affairs  
to India and Pakistan, Vol. 2,  
No. 2, P. 1

**Weapons** see United Nations

**West Germany** see Pensions; and Trade

**Wheelchairs**

Battery-powered, Vol. 2, No. 7, P. 6

**WOODEX '85** see Trade

**Yukon parkas** see Clothing