

Canada Reports

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Canada

Special issue

April 1986

“World in motion, world in touch”: Canada leads the way

EXPO 86, the largest special category world exposition ever staged in North America and the first to focus on transportation and communications, is being held in Vancouver, British Columbia, May 2 — October 13, 1986. A salute to past achievements, a celebration of present progress and a signpost to the future, EXPO 86 provides a compelling chronicle of the “world in motion, world in touch” from its earliest steps to the conquest of space. Reflecting a subject of key importance to all countries, EXPO 86 has attracted the most international participants of any exposition of its type for decades. More than 80 Canadian, foreign and corporate participants reflect their own unique interpretation of the theme amid a galaxy of attractions and special events.



K. Allen

The Canadian pavilion unfurls its sails in welcome.

As national host and sponsor of EXPO 86, Canada is presenting the leading showcase for the twin themes transportation and communications. The country's pavilion acclaims Canada's contributions to a “world in motion, world in touch”.

While the official theme at the Canadian pavilion is “Canada in motion: the challenge of the country and the responses of the people”, the interpretation of the theme is “a Canada you've never experienced before”.

Bruce Howe, commissioner general of the Canadian section said Canada Pavilion is presenting “our people's innovative use of transportation and communications — the EXPO themes — as they've responded to the incredible challenges posed by our ex-

pansive and rugged geography and our astonishingly varied climate”.

Distinguished by a roofline of five white sails of teflon-coated fibreglass, Canada Pavilion is located on Vancouver's mountain-backed waterfront, 1.2 kilometres from the main exposition site. It is inside Canada Place, a federal government complex containing a new cruise ship terminal that will

be open during the exposition, and a world-class trade and convention centre scheduled to open July 1, 1987.

As the flagship of the exposition, the complex extends the equivalent of three city blocks into Burrard Inlet, one of the world's busiest harbours. With its surf-white sails that appear to be catching the Pacific winds, wide, deck-like promenades and prow-shaped observation plaza, the structure resembles an immense ocean liner in full sail.

Beneath the sails, in the Great Hall, some 43 000 visitors daily can view both serious and playful exhibits on EXPO's twin themes.



Important dates

Opening ceremonies	May 2
<i>Tomorrow Begins Today</i> (International symposium)	May 8 — 9
National and special days honouring all participating nations	throughout
Fireworks and laser light show	nightly at 10 p.m.
Sunset ceremonies	July 18 — 21
Closing ceremonies	October 13

External Information Services Division



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Traffic through the ages in a 26-metre cone by Canadian sculptor Bill Lishman.

The displays — some static, others kinetic — range from an airship that floats overhead to a model of the next generation M-SAT satellite: they chart the course of Canadian-developed technologies from the past through the present and into the future. Many of the displays are also providing a “hands-on” experience of Canada’s breakthroughs in science and technology.

Introducing the country

Three introductory theatres are presenting images of Canada from the vantage points

of space, the earth’s atmosphere, the land and below the three oceans that surround the country.

This Is My Home, a 14-screen audio-visual feature, captures Canadians across the country celebrating their national holiday, on July 1, 1985. In the Earthwatch Theatre, new dimensions of Canada are highlighted by space photographs of the land from remote-sensing satellites. The film, *New frontiers*, blends live action and visual effects to show how Canadians are taming the once hostile environments of space and sea. An astronaut and aquanaut guide visitors on this voyage of discovery that includes the Canadarm, the robotic arm used in the US space shuttle program, space medicine, underwater submersibles and the futuristic Newtsuit, a diving suit that prevents the user from suffering the effects of compression and decompression.

Bill Lishman

Unique film technique

Two other special film presentations can be viewed in the Canadian National IMAX Theatre and the Teleglobe Canada Theatre. For CN, *Transitions* is the first three-dimensional film made by employing the Canadian-developed IMAX film technique that uses the largest frame in motion-picture history. In Teleglobe’s theatre, *The Taming of the Demons*, which traces the evolution of the search for effective communications from man’s primitive beginnings to the frontiers of modern technology, has been produced by Emil Radok, using nine rectangular screens and a single, spinning hoop.

The Vidiwall, the largest system of its kind ever unveiled in North America, is a visual highlight in Canada Pavilion. The wall, composed of 108 computer-controlled video



Terry O'Connor

Canada’s Snowbirds entertain with their breathtaking aerial gymnastics.

images, presents a continuously shifting panorama of multiple moving or still images that ebb and flow in brilliant patterns.

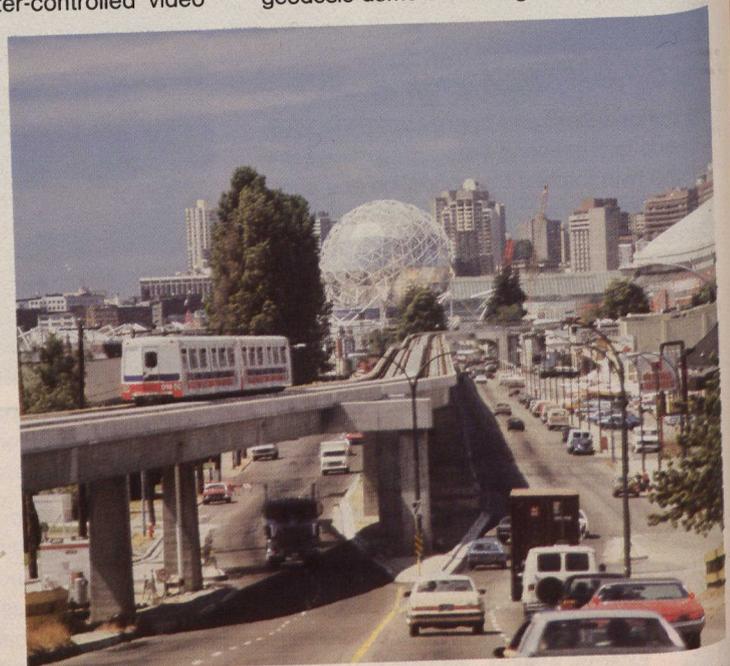
Technology also enhances live performances by Canadian actors, dancers, singers and musicians in the 375-seat Studio Theatre. Computerized multi-screen video projectors produce innovative visual effects for up to nine performances daily.

At the main EXPO site on the shore of False Creek, displays in more than 60 pavilions from Canada’s provinces, territories and corporations and some 52 countries, the most ever to participate at a specialized world exposition, highlight history’s adventures in transportation and communications.

At the EXPO Centre, a 17-storey high geodesic dome containing theatres, exhibits,



Visitors can take the free monorail circuit around the False Creek site.



The new Regional Rapid Transit links EXPO with Vancouver’s suburbs.

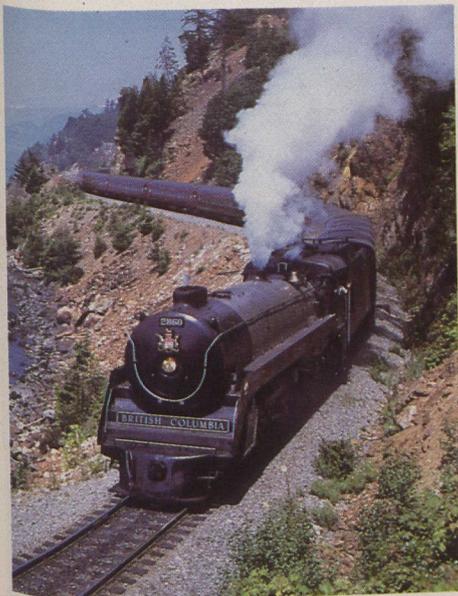
restaurants and shops, Canada's first and the world's largest 500-seat OMNIMAX Theatre is presenting *A Freedom to Move*. It is a sensory voyage that transports the viewer from the frozen tundra of the North Pole to the sun-baked flats of the Mohave Desert, and beyond to the far regions of space.

Inside the Futures Theatre, visitors can forecast the future at the first interactive theatre in Canada. By pressing buttons located in the arms of their seats, the audience helps to determine possible future scenarios in world transportation and communications.

The third EXPO Centre presentation, Design 2000, is a dynamic walk-through exhibit presenting more ideas of what may happen in the future.

Provincial and corporate pavilions

The three-building, 4.5-hectare complex of the host province, British Columbia, is the largest of the provincial pavilions and a permanent legacy of the exposition. The pavilion takes visitors on a voyage of discovery through B.C. for-



Vintage locomotives like B.C.'s Royal Hudson are participating at SteamExpo.

ests, into mines and on undersea excursions.

Pavilions from six other Canadian provinces — Alberta, Saskatchewan, Ontario, Quebec, Nova Scotia and Prince Edward Island — as well as two federal pavilions sponsored by the Northwest Territories and the Yukon, show the development of transportation and communications in Canada from early canoe routes to projected technological developments in the future.

Six major Canadian corporations — Canadian Pacific, Canadian National, Telecom Canada, Air Canada, General Motors and Crossroads Christian Communications Inc. — are making their own unique presentations on the EXPO theme.



Gondolas provide an over-all view of the EXPO site.

World developments

Foreign participants include the United States (with separate pavilions by Washington, Oregon and California states), the Union of Soviet Socialist Republics, the People's Republic of China and Cuba together on one site for the first time. The US and USSR pavilions are among the largest on site and both feature space displays. Inside the USSR pavilion, visitors can visit a functioning space lab, while the US presents its record-breaking space adventure with the theme "Why explore?"

Visitors ride Japan's HSST (high speed surface transport) train on a 450-metre test track, and France's SK people-mover. At the Philippines pavilion, they enter a tropical landscape, complete with waterfall, while Hong Kong's interior bustles with daily life in the city.

Britain, the first foreign participant to sign, recalls some of the country's epoch-making "firsts" such as the first railway locomotive (1804), the first jet engine (1941) and the first computer designed for commercial use. Switzerland, the official EXPO time-keeper, displays the world's largest wrist-watch and entertains visitors with a breathtaking journey through the country on the "multi-mobile" or as they play an ingenious transportation game.

Norway marks the one thousandth anniversary of the first European sighting of North America by Viking Bjarni Hjerulfson in 986 A.D. Norway's maritime traditions and modern skills above and below the waves form the central theme of the country's pavilion.

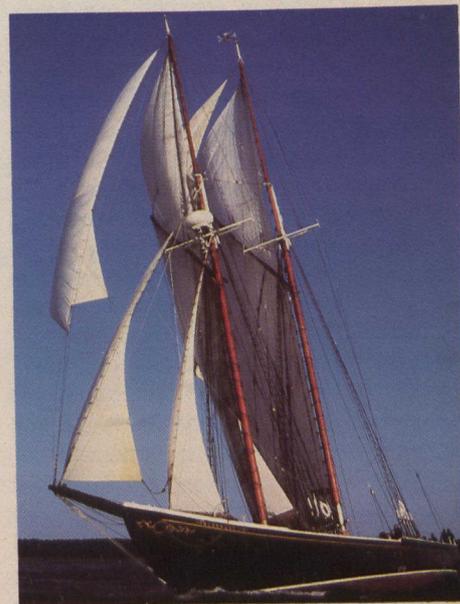
Moving on site

In keeping with the EXPO theme, a number of advanced transportation systems have been developed to help people move on, to and from the two EXPO sites.

A 5.5-kilometre monorail system, elevated five metres above the ground, offers a panoramic view of the exposition to passengers on the main site. An intrasite ferry system that stops every few hundred metres along the shore and two skyride transportation systems, the Air Canada and Canadian Pacific gondolas, also serve the site.

Between the main site and Canada Place, visitors can travel on a new electrically powered light-rail transit system developed in Canada. Or they may choose to travel by water via a speeding hydrofoil or hovercraft, that are part of EXPO's intersite system.

The transportation and communications theme of EXPO 86 is also emphasized by the inauguration of the Vancouver Regional Rapid Transit (VRRT). It will eventually connect downtown Vancouver with all its suburbs.



Nova Scotia's Bluenose is leading the sail past of the ships of the world.

Charting the future

Tomorrow Begins Today, the three-part EXPO 86 Symposium Series, is expected to establish some guidelines for the world to follow in the development of transportation and communications into the next century.

The first symposium, held in January 1984, and the second symposium, held in March 1985, have been widely acclaimed, both for the over-all objective and the quality of experts involved.

"We wanted to make a serious contribution to the development of the world's knowledge," said EXPO 86 commissioner general Patrick Reid. "Response to the first two symposia makes it clear that we have been working in the right direction."

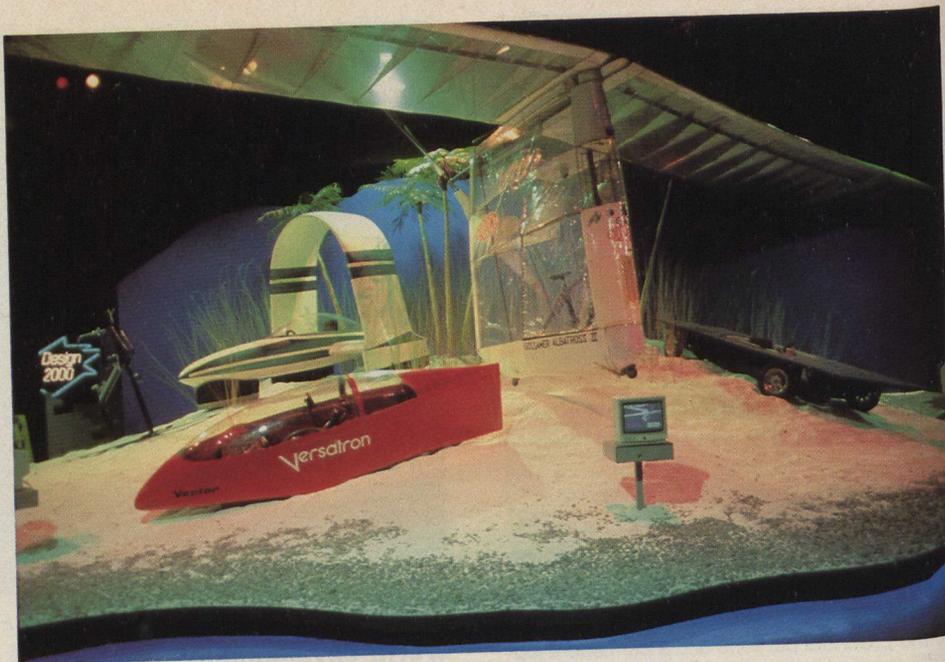
At the first symposium, a small group from all continents considered the major problems, issues and opportunities that the series as a whole would address. At the second symposium, experts in transportation and communications from some 27 nations addressed questions associated with planning techniques, the introduction of new technologies, the need for greater international co-operation, problems of urban transportation, the movement of goods and resources, and the worldwide problem of maintaining both vehicles and transportation infrastructure.

The third and final symposium, scheduled for May 8-9, is expected to be one of the highlights of the opening week of EXPO 86. The keynote speaker will be Thor Heyerdahl, Norway's leading anthropologist and explorer.

Experts seek consensus

The participants whose expertise covers a diversity of technical, scientific, regulatory, financial and social concerns, are attending from all regions of the world. They will address four major issues: the international arrangements that govern the worldwide movement of people, goods and messages; reducing or eliminating outdated barriers to movement, and simplifying and harmonizing necessary regulations such as safety regulations; the development and dissemination of new knowledge; and finding better approaches to building or renewing infrastructures, including the ways of financing them. The objective is to end the symposium with a statement of principles on these issues that will be a consensus of the participants.

"This meeting will be the culmination of three years of work," said Expo commissioner general Patrick Reid. "It is the third and final event in our Symposium Series, and I expect that its results will influence the way world transportation and communications systems develop for years to come."



The Design 2000 exhibit shows transportation vehicles of the future.

Special events

RCMP Musical Ride	May 2	—	October 13
Aircraft construction	May 2	—	October 13
Ship construction	May 2	—	October 13
Kaifeng motorcycle thrill team	May 2	—	September 3
SteamExpo	May 23	—	June 1
DC-3 Airmada	June 7	—	
Vintage International Antique Auto Show	July 7	—	July 9
Innovative vehicle design competition	July 11	—	July 18
Ships of the World	July 18	—	July 21
Abbotsford International Air Show	August 8	—	August 10



The RCMP Musical Ride is a popular daily event.

The theme comes alive

Specialized periods, a program set up for the first time in world exposition history, highlights aspects of the transportation and communications theme through state-of-the-art technology and flashbacks to the past. Several international conferences, professional seminars and trade exhibitions are central to specific periods. The highlights include:

• Polar transportation and communications

May 5 — 11

Demonstration of vehicles, vessels, aircraft and equipment designed for operations in polar environments. A world-class gathering of ice-breaking and ice-capable vessels, the International Polar Transportation Conference and the Pipeline Transportation Symposium are scheduled.

• Search and rescue

May 12 — 18

Launched by a sail-past of rescue vessels, the period features displays and demonstrations of air, marine and land search and rescue techniques and technology. Activities include seminars on hovercraft and rigid hull inflatables, SAR programs from Britain and France, a demonstration of (SARSAT), Canada's search and rescue satellite, and Rescue 86, an aquatic conference and lifeguard championship.

• Trucks and intercity buses

June 9 — 15

Efficiency, economy, performance, reliability, safety, passenger comfort and the impact of large specialized vehicles on urban and rural road systems are the concerns of this period. The International Highway Transportation Exhibition features modern equipment from many countries and displays of vintage trucks and buses on the EXPO site.

• Urban transit

June 16 — 30

Focusing on urban rail and bus transit technologies in industrialized and developing countries, this period features the annual conference of the Canadian Urban Transit Association as well as important meetings of public transportation groups. Special seminars cover the Canadian-designed Vancouver light rapid transit system, the French SK people-mover, the Japanese HSST and Swiss transit technology.

• Automobiles

July 6 — 19

Displays, demonstrations and rallies for automobiles. An EXPO 86 special event, the Vintage International Antique Auto Show presents 700 classic vehicles. In the innovative vehicle design competition teams of engineering students design and build vehicles.

• Communications and mobility for elderly and disabled people

July 20 — 25

Demonstrations of equipment and technology for elderly and disabled people, as well as a program of sports for the disabled. Other activities include Mobility in the Global Village, the fourth International Conference on Transport and Mobility for Elderly and Disabled Persons, and the International Conference on Medical Transportation and Communications.

• Marine commerce

July 21 — August 2

Displays and demonstrations of marine communication, navigation and collision avoidance systems, cargo handling, vessel management, commercial vessel technologies and a towing competition. Conferences include the Third International Maritime Law Seminar, the Canadian Institute of Marine Engineering Conference, the Pan Pacific Sister Port Seminar and the Maritime Transportation History Symposium.

• Aviation

August 1 — 10

AIR FAIR 86, a major trade exhibition, the Flight Into History, a flypast of transport aircraft, and the Abbotsford International Airshow, are highlights. Other events include the Canadian Open Aerobatics Competition, an International Hang-Gliding Competition, airship demonstrations and a seminar on "Aerospace and the Community of Man".

• Alternative fuel and power systems for transportation

August 8 — 17

The focus is on recent technological developments in alternative fuels and power systems for transportation. Two alternative fuel automobile rallies and conferences on Gaseous Fuels for Transportation and Alternative Power Systems for Automotive Propulsion are scheduled.

• Transportation for recreation

August 18 — 24

Displays of recreational vehicles including off-road vehicles and air and water craft. Events include the 1986 Jeep Cup, the Women's World Sailing Competition, ultra-light and hot air balloon rallies and an international skateboard competition.

• Human powered transportation

August 25 — 31

The first truly multi-modal, international human powered vehicle competition is being held. The world championship of BMX Freestyle is the first world event of "bicycle gymnastics".

• Communications

September 7 — 13

The International Communications and Computer Exhibition, the International Conference on Satellite and Fibre Optic Communications and seminars on Communications Systems for Responding to Hazardous Material Spills present the latest technologies in communications.

• Underwater and offshore resources

September 12 — 21

Current technology on submersibles, diving equipment, remote operated vehicles and life support, exploration and communications are demonstrated. Scheduled are the Challenge of Offshore Development from an International Perspective, the International Symposium on Coal Transportation and the Marine Technology Society Conference with a presentation by the leaders of the *Titanic* expedition.

• Modern rail

September 29 — October 5

Future directions for the design of vehicles and systems for modern rail operations are being explored. A display of passenger and freight rolling stock and equipment takes place in the Canadian National railyards adjacent to the exposition site. The American Railway Engineering Association Conference, the Third International Heavy Haul Conference and a Swissrail Symposium are scheduled.

Entertainment and culture: an unequalled extravaganza

Canada Pavilion is presenting what is described as the country's largest cultural festival ever. Some 200 productions involving about 2 000 artists are being given in 9 000 separate performances.

Many of the performers, like contralto Maureen Forrester and pianist-composer André Gagnon, are very well known, while others, like Saskatchewan country and western singer Glorianne Carrière and Montreal dancer-choreographer Michel Lemieux, are making their names.

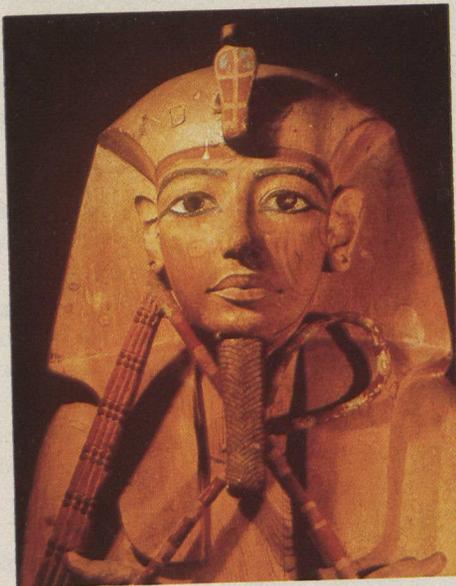
Inside Canada Pavilion, music ensembles, modern dance and contemporary theatre are featured in the Amiga Studio Theatre, while musical ensembles perform everything from baroque fugues to Dixieland jazz at the Inner Stage. In the evening, the informal theatre is a comedy cabaret.

Outside the pavilion at the amphitheatre, the Children's Festival and a Canadian heritage festival are staged. Story-tellers perform regularly as well in a special program, "Our Feet on the Ground", designed to make Canadian history come to life.

Along the promenades bordering the Canadian pavilion, visitors are entertained by jugglers, musicians, dancers, poets and clowns who are part of *Tabootenay*, a Canadian version of a travelling carnival that began in B.C.'s Slocan Valley and whose trademark is spontaneous, spirited entertainment.

The major players in *Tabootenay* are the Promenauts, symbolizing EXPO 86's theme of transportation and communications in fanciful attire. They greet visitors daily in their own special ways of motion.

The art works inside the Canadian pavilion are integrated in the design to help create



Ramses II and his Time, an exhibition of treasures from the Egyptian pharaoh's tomb is housed in the Great Hall.

an "image of Canada, 1986". More than 20 original art works by notable Canadian artists have been unveiled.

Folk festival

On the main site, a new region of Canada is visited every week in the first comprehensive folklife festival to explore folk traditions in the country. Native and settler cultures are highlighted with programs, demonstrations of crafts, food and other activities. During Newfoundland days, for example, there are fiddlers and step-dancers, birch broom-makers and cooks preparing special provincial dishes like "flipper pie".

The colour and rhythm of cultures from

six continents are on display. From morning till night, a wide variety of performances from classics to contemporary animates the exposition in theatres, bandshells, pavilions, plazas and open spaces throughout the 70-hectare site.

At the Xerox International Theatre, entertainment ranges from Japan's Ikuta Shrine performers and Inuit throat singers to colonial dancers from the Philippines and aboriginal musicians from Australia. The covered outdoor Expo Theatre, which seats 4 200 spectators, also offers superb entertainment, while the Kodak Pacific Bowl presents the Royal Canadian Mounted Police Musical Ride and a Chinese motorcycle thrill team performing inside an eight-metre-wide metal mesh globe.

A fireworks and laser show nightly at 10, signals the closing of the pavilions and the beginning of "Expo after hours". Located in the B.C. pavilion complex, three cabarets express the theme of transportation on land, sea and air, against a variety of whimsical sets.

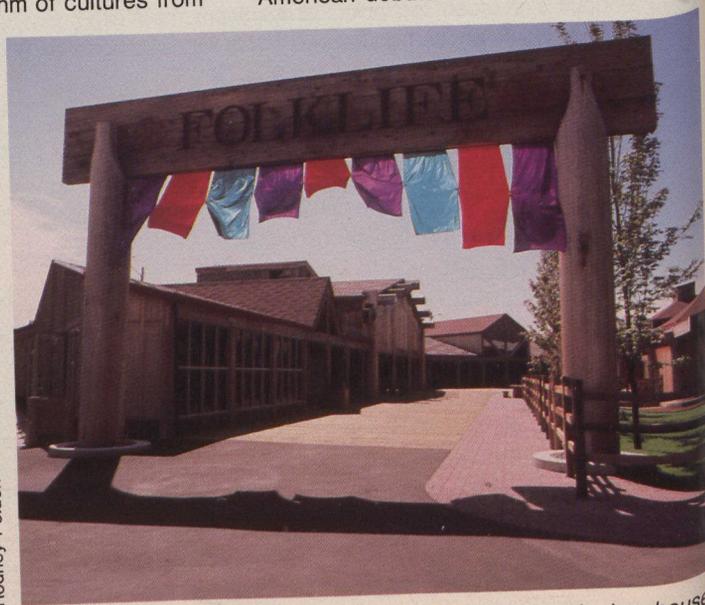
World arts festival

Both on the EXPO 86 site and in major theatres in Vancouver, the Royal Bank/Expo 86 World Festival is presenting the cultural diversity of over 30 countries in a 165-day celebration of the best of the performing arts. One of the gala events is a visit by Leningrad's Kirov Ballet, which is making its first North American appearance in more than two decades.

Twelve Canadian groups are offering various programs ranging from contemporary dance to orchestral concerts and opera, while the Beijing People's Art Theatre from the People's Republic of China, the West Australian Playhouse Company and the State Theatre of Heidelberg are making their North American debuts.



The Anna Wyman Dance Theatre presents contemporary dance.



Canada's folklife festival is in a special area with a cedar longhouse.

EXPO essentials

Hours

Sunday – Saturday
10 a.m. – 10 p.m.
Plus Expo After Hours

Admission price

\$20.00 daily
\$45.00 three-day pass
\$160.00 season pass
Reduced rates for children and seniors
Group rates

Included in cost

Entrance to pavilions
All displays
Some 14 000 performances
Unlimited use of the monorail, cable skyways, ferries and the rapid transit system between the two sites.



The EXPO Centre draws visitors night and day.



From a carousel to a "scream machine" that reaches speeds of 88 kilometres an hour, the amusement rides delight children of all ages.



At some 70 sites, up to 14 000 people are served gourmet meals or quick cuisine by many international participants.

Business opportunities and technology transfers

EXPO 86 is expected to generate business for many participating or visiting companies. Achievements in transportation and communications of interest to businesses are being demonstrated in pavilions, specialized periods, conferences, seminars and trade shows.

To expand business opportunities and to promote and expand commercial links to Canada, the Canadian government set up the Canada Business Opportunity Centre near the Canadian pavilion and business information centres are being operated in a number of provincial pavilions.

The Business Visitors Program provides many personal services to international visitors. In addition to briefings on trade, industry and investment, introductions and itineraries are also arranged for individuals or business

groups wanting to visit companies and industrial sites. Hospitality, translators, and meeting and presentation facilities are also available.

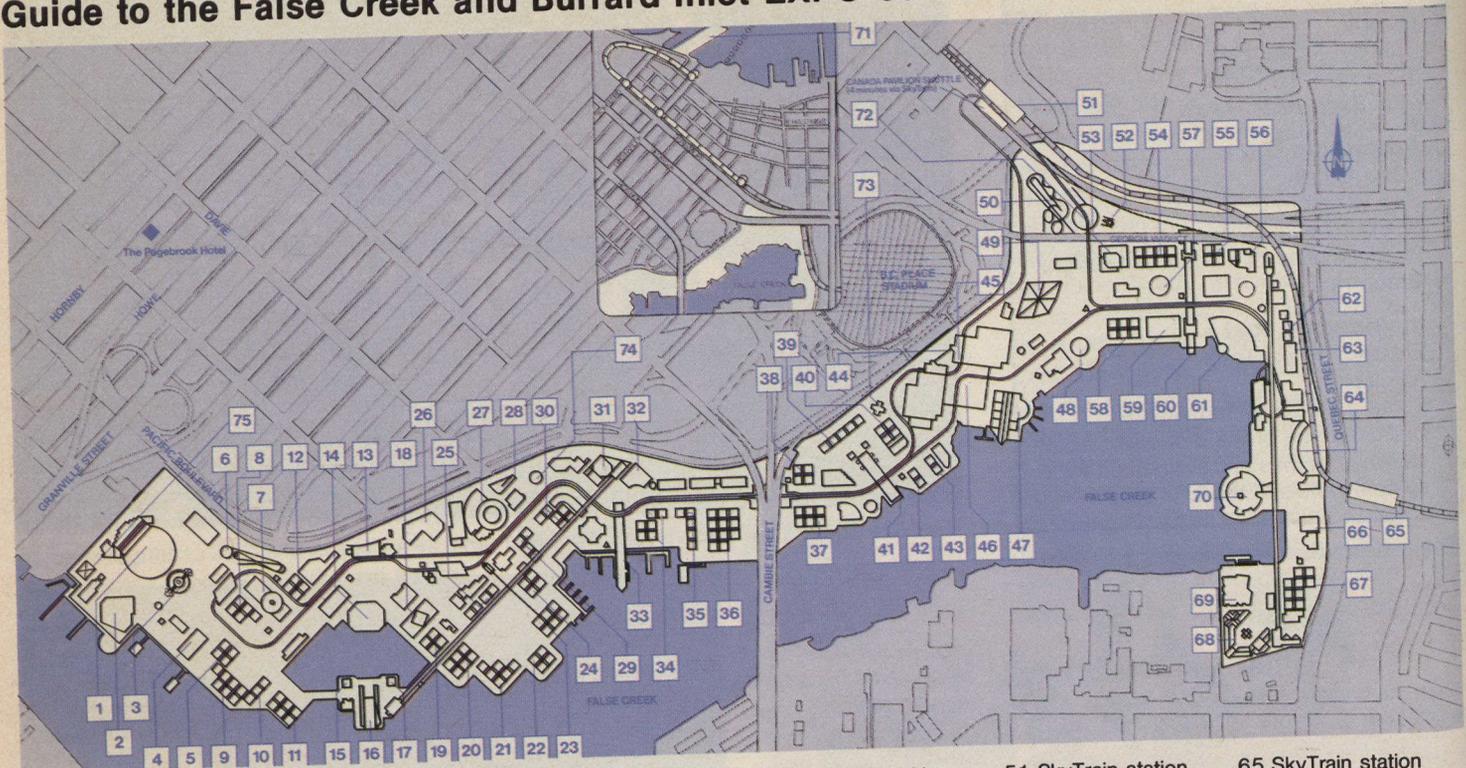
A new program, EXPO Industrial Cooperation '86, is operating at EXPO to promote technology transfers and increased collaboration between Canadian companies and businesses in developing countries. The program focuses on communications and transportation and encompasses everything from advanced telecommunications components to products involved in the construction of mass transit systems.

More than 130 Third World business and government representatives from more than 15 countries are taking part in the program, along with some 600 Canadian businesses, and trade and import/export organizations.



Expo Ernie, EXPO 86's mascot and robot ambassador, greets visitors to the exposition.

Guide to the False Creek and Burrard Inlet EXPO 86 sites



- 1 Kodak Pacific Bowl
- 2 Great Hall of Ramses II
- 3 Space tower
- 4 Munich Festhaus
- 5 California
- 6 Cariboo log chute
- 7 Telecom Canada
- 8 Republic of Korea
- 9 Oregon
- 10 Washington
- 11 United States
- 12 BCTV
- 13 West gate
- 14 Xerox International Theatre

- 15 Côte d'Ivoire
- 16 General Motors
- 17 Cuba
- 18 Quebec
- 19 United Nations
- 20 Italy
- 21 Britain
- 22 European Community
- 23 France
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- 25 Spain/Belgium
- 26 Canadian Pacific
- 27 Roundhouse/Holography Gallery
- 28 First aid & security

- 29 Barbados/Norway/Costa Rica
- 30 Hong Kong/Hungary/Nova Scotia/Prince Edward Island
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- 73 South Pacific
- 74 American Express
- 75 Specialized periods tent

Site plan as of February 1986

Photos, unless otherwise indicated, have been provided by EXPO 86 Information Services and the Department of External Affairs.



A panoramic view of downtown Vancouver and the main EXPO site (foreground) on False Creek with Canada Place jutting into the harbour in Burrard Inlet.

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