



EXPO 86

COMMUNIQUE

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Expo 86
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UNITED STATES, PERU, INDONESIA AND AUSTRALIA ANNOUNCE EXPO 86 PARTICIPATION

Four new countries have officially announced participation in Expo 86, bringing the total to 13 nations, and confirming Expo's excellent reputation in the international community.

Three New Continents

Commitment by Peru and Indonesia brings the first flags from the continents of South America and Asia to the growing roster. Australia's entry adds the only island continent.

U.S.A.: Exciting History of Exhibits

The U.S. has a unique international reputation, both as a major exhibitor and host, having held 21 expositions since 1853 — including the recent Energy Expo 82 in Knoxville, Tennessee.

Always a magnet for visitors, American pavilions traditionally delight in showing the diverse and distinctive culture of the United States, as well as technological breakthroughs. The U.S. Pavilion at Montreal's Expo 67 — a giant geodesic dome designed by Buckminster Fuller — and the moon rock at Osaka 1970 drew record crowds.

Indonesia: Tanah Air Kita ("Our Land and Water")

Indonesia's special geography of land and water (a sea area four times the size of their 13,677 islands) gives rise to unique transportation needs.

Now the largest and most populous Moslem state in the world, Indonesia, with five of the world's ten largest islands, has seen its elephants and plank boats give way to thousands of bicycles, mopeds and inventive four-wheeled vehicles to move people and products in bustling cities like Djakarta.

A developing aerospace industry, featuring Indonesia's new satellite communications system, supplements the traditional shipbuilding industry.

Continued Overleaf



Plaza of Nations: Expo 86 site dedication on October 7 marked the symbolic start of the four year long construction phase. British Columbia Premier Bill Bennett joined Commissioner General Patrick Reid in driving the first surveying stake.

STOP PRESS FRANCE ANNOUNCES

French Minister of Transportation Charles Fiterman has announced that France will participate in Expo 86. The commitment was made during November 1982 meetings between Prime Ministers Mauroy and Trudeau in Paris.

Peru: A Tradition of Transportation

Expo 86's theme is a natural for Peru, with its proud heritage of transportation and communications, dating back to the Inca's 14th century Royal Highway, then the longest and grandest road in the world.

Today, Peru's national railroad includes the world's highest stretch of standard gauge railroad track — a dizzying 4,781 metres (15,688 ft.) high on the Andes between Lima and La Oroya. And a dirigible is currently being tested, possibly representing the beginnings of a new Third World fleet.

Australia: Inroads to the Outback

Like Peru, Australia's experience in transporting people, goods and ideas along its extensive coastline and rugged interior holds interesting parallels for many other nations.

Due to sheer size, plus lack of inland waterways, Australia's road, rail and sea links are all well-developed.

Historically, this continent within a country can claim the aboriginal double catamaran, the last regular use of clipper ships, pioneering of the Flying Doctor Air Service, and a magnificent railway system that took 120 years to build.

This spring, an interurban Express Passenger Train, capable of hitting 257 kph (160 mph) goes into service.

Already a significant aerospace centre (producing supersonic fighter aircraft and manufacturing commercial airline parts), Australia inaugurates a three-satellite communications system in 1985.

NEW HOTEL BREAKS GROUND

In September, the first of a number of new hotels planned for the area around the Expo 86 False Creek site began excavation at the foot of Robson Street, with an opening target date of November, 1983.

The Georgian Court, just across the plaza from the new Stadium and one of Expo's entrance gates, has taken to heart the awakening North American interest in a long-established European concept — the truly first-class small hotel. Golden Tulip Hotel Management, a subsidiary of KLM Royal Dutch Airlines, with 320 unique and individual hotels in 60 countries, will manage the new 161-room hotel.

EXPO SPREADS THE WORD

Inquiries about Expo 86 are coming in daily, not only from the international level, but from local citizens and the business sector.

In response, Expo staff are getting involved at the grassroots level of urban and rural communities to reach the core audience of two million fairgoers living within an 80-km (50-mi.) radius of Vancouver.

Every week, Expo's profile is increased in British Columbia and Washington State through promotions, concerts, and audio-visual presentations requested by groups ranging from chambers of commerce to engineering associations and aviation clubs.

RICHMOND APPOINTED

B.C. Tourism Minister Claude Richmond was recently appointed Provincial Minister Responsible for Expo 86.

Richmond said he was pleased to see the project assigned to his ministry.

"Expo 86 will be the most exciting event to happen in B.C. for many, many years, attracting some 13 to 15 million visitors," points out Richmond. "It offers all kinds of opportunities and challenges for communities throughout the Pacific Northwest. Even after the gates close in October, 1986, Expo's impact will be long felt."

EXPO ERNIE RETURNS

The roving ambassador who walks, talks, and lights up, returned home after a successful six months at the Knoxville 1982 World Fair, to shake hands with new B.C. Minister of Tourism, Claude Richmond.

Vancouverites and summer tourists had their first glimpse of the rotund

robot when Expo Ernie took a two-week leave from Knoxville in August to host special promotions in his home town.

At the Abbotsford International Air Show just outside Vancouver, which drew 85,000 people over

three days, 142-cm-high (57-in.) Ernie attracted almost as much attention as the gigantic Galaxy, the world's largest aircraft.

Since then, requests for Expo speakers often include an invitation to "bring Ernie along, too."



INCAS MOVING FISH AND FACTS

Peru's 14th century Inca Royal Highway was the longest and grandest road in the world — a 4,827.9-km (3,000-mi.) system of highways linked by over 1,000 bridges.

A complex network of couriers linked the whole empire. They carried messages between stations orally, or by passing along a QUIPU, a knotted string that recorded information in place of a written language.

Messages travelled 2,011 kilometres (1,250 mi.) from Quito to Cuzco in five days. Fish were delivered fresh from the coast by the same courier system.

MOVING FAIRGOERS

Because Expo 86 is focusing on transportation of the future, Expo planners are encouraging participant nations and top corporations to show their stuff and help move the expected 13 million fairgoers at the same time. Ferries, gondolas, hydrofoils, and even dirigibles are all being discussed.

Hydrofoil Could Link Sites

Certainly Expo's two waterfront sites are naturals for hydrofoil services. If countries who lead in this field (Britain and the U.S.A. are both innovative here) are interested, they could provide a commercial service within B.C. waters, even linking to Seattle and Vancouver Island, as a dramatic demonstration of their technology.

Park and Ride

With a core audience of two million living within an 80-km (50-mi.) radius, local and out-of-town visitors with cars will be encouraged to use a park and ride system operating from city outskirts. Expo officials anticipate a fleet of international buses will service these routes.

British Columbia is providing a new ALRT system as the basic rapid transit service between the main False Creek site and the Canada Host Pavilion, just two kilometres (1.2 mi.) away on Burrard Inlet in the downtown core. The same line will link to New Westminster.

Rapid Transit: ALRT major station stops at Expo 86 main site and the Canada Host Pavilion on Pier B-C.



LAST CANADIAN EXPOSITION IN 20TH CENTURY

For Canadians, Expo 86 will be their last chance this century to see a world exposition without leaving the country.

The 36 member-nation BIE (International Bureau of Expositions) based in Paris reviews all international applications to host expositions, and with so much competition, Canada will not be sanctioned again until the 21st century.

Among those bidding for world expositions in the remaining 18 years: Paris, and Chicago, Seville, and Genoa.

WRONG AGAIN, WRIGHT

"When my brother and I built and flew the first man-carrying flying machine, we thought we were introducing into the world an invention which would make further wars practically impossible."

Orville Wright, 1917

FUTURE WATCH



AST amphibian: The 11-metre-long (36-ft.) AST gets its name from the two cylindrical screw rotors which support the 11-tonne craft.

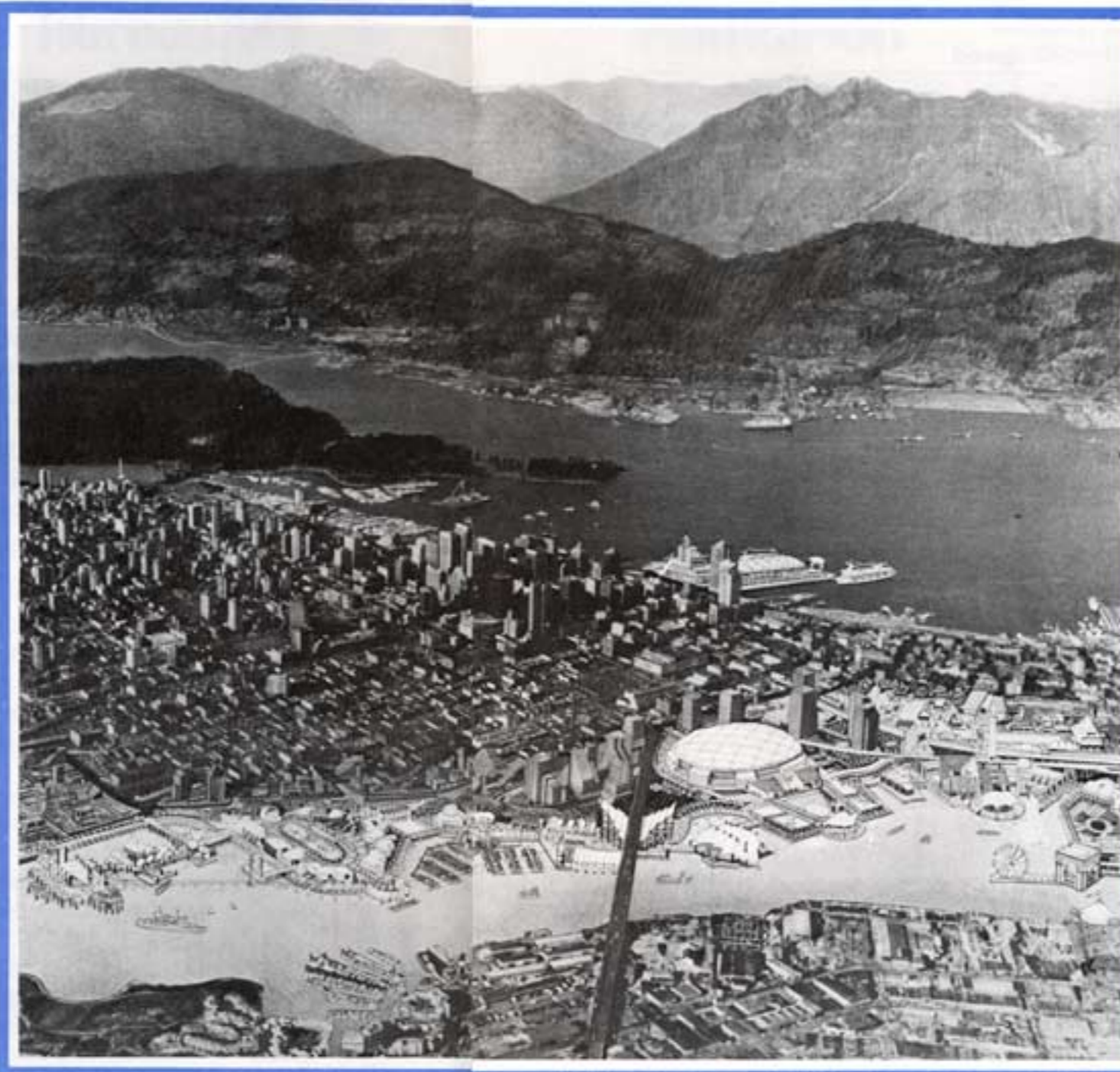
Ontario's Thunder Bay, usually ice-bound from December to April, recently provided an ideal testing ground for a new icebreaking craft designed to free up northern communities and open major ports earlier than usual.

After dragging ploughs over the ice to remove snow cover, the Archimedean Screw Tractor scores the ice, and/or dusts it with grain dust. Altering the surface this way speeds up the rate of energy absorption con-

siderably. Result: the ice melts sooner.

Developed by the Arctec group (with bases in Maryland, U.S.A., Calgary and Ottawa) and built by Mitsui in Japan, the AST proved its worth in the tests as a personnel carrier, tug, and icebreaker, in ice up to 80 centimetres (32 in.) thick.

As an amphibious tractor, it can travel on sheet ice, snow, mud, muskeg, and even open water, using the spiral blades for traction or as propellers to move along at 4.5 to 6 knots.



Artist's approach to Expo 86: ALRT links main site (foreground) with Canada Pavilion on Burrard inlet.

EXHIBITORS' FIRST MEETING SET FOR 1983

Commissioner General Patrick Reid has announced a three-day meeting of Expo 86 exhibitors on May 2, 3, and 4, 1983, precisely three years before opening day of the 1986 World Exposition.

No previous world exposition has held such a meeting so early.

"The objective," said Mr. Reid, "is to give participants an opportunity to join in the planning of the Exposition before operational details are finalized."

All nations which have agreed to participate will be invited to send representatives. They will be joined by observers from Canadian

provinces and exhibiting corporations. Together, they will bring a timely international influence to the development of Expo 86 and its conferences, special events, and World Festival cultural program.

One important function of the meeting is to ensure the basic theme of transportation is not only maintained by exhibitors, but made a living experience for both professional and lay audiences.

This meeting will also set the framework for future gatherings of the College of Commissioners General (all heads of foreign pavilions) and its Steering Committee.

EQUINE EMISSION CONTROL

Pollution seems an inevitable by-product of transportation. Daily we contend with the scream of jets, carbon monoxide from cars, and the threat of oil spills from tankers. Even outer space has an evergrowing belt of nuts, bolts, and other random bits of man-made debris. Some 10,000 objects now whirl in low earth orbit at more than nine kilometres (six mi.) per second.

That's enough to make some long for the good old days. But returning to the horse and cart is not the answer.

In New York City alone, at the turn of the century, horses deposited an estimated 1.1 million kilograms (2.5 million pounds) of manure and 227,124 litres (60,000 U.S. gallons) of urine on the streets every day.

SITE MASTER PLAN SHAPING UP

Vice President of Installations, Robert C. Smith, and his staff, including Chief Architect Bruno Freschi, will soon be releasing Expo's site master plan. The plan will indicate pavilions, entertainment areas, walkways, and plazas.

Architectural Diversity

Unlike the "universal" expositions at Montreal and Osaka, where each exhibiting country built its own pavilion, at Expo 86, organizers are required to design and provide (on a lease basis) the international pavilions for all participating nations.

Not that Expo 86 will lack for architectural diversity. As host, Canada and the provinces will build their own pavilions. Corporations are also permitted to design their own, and nations are encouraged to modify their leased pavilion facades.

In sanctioning world expositions the BIE (International Bureau of Expositions) stipulates that "special category" expositions such as Expo 86 must have a concentrated theme, such as transportation and communications, as opposed to broader concepts like Expo 67's "Man and His World."

Although it is not a requirement, special category events tend to be on much smaller sites, fitting into urban centres more easily.

Bonus for Fairgoers

Because the cost to participants is usually half that of universal expositions, special category events are becoming increasingly popular. There are advantages for fairgoers, too. Freed from the time and cost of building pavilions, countries can concentrate on producing truly world-class exhibits.

Still in the early stages of design in terms of materials, the international pavilions (all temporary structures) will be built of modules, the smallest available unit being 250 square metres (2,691 sq. ft.). A smaller country may choose a one-module pavilion. Another might combine six.

To take advantage of the waterfront setting and to expand the long, narrow site outwards, some pavilions will extend into False Creek.

PERFORMING ARTS COMES ON STREAM

Expo 86 World Festival

The job of assembling these performers has fallen into the capable hands of 38-year-old Chris Wootten.

Most recently Executive Director (and founder) of the highly successful Vancouver East Cultural Centre — where he produced the critically acclaimed play *Billy Bishop Goes to War*, seen in over 70 cities internationally — Wootten has also overseen the Vancouver International Children's Festival as artistic director for the past four years.

The Greatest Show on Earth

As producer of the performing arts part of the World Festival (special events and visual arts are included too), Wootten intends to put on a Festival that will set the standard for future world expositions.

"We want to bring in the world's greatest performers, especially those who don't usually come to Vancouver."

"But we will also be looking for more than recognized names," adds Wootten. "In keeping with the adventuresome spirit of the Exposition, we'll also seek out the brilliant new talents of our age."

All the World's a Stage

The big draw for many fairgoers will be the chance to see entertainers from every continent. All participating nations will host a national day or national week, when their entertainers will be highlighted on stages both on and off the Expo 86 waterfront site.

Equally as important, Expo 86 will generate new opportunities for Canada's own performing and visual artists — professionals and amateurs — to create works for presentation before international audiences in Vancouver.

While some major performances will be held in Vancouver theatres off site, the majority of the entertainment is on site and free.

Some ideas under consideration as planning begins: a major covered theatre, smaller, informal pocket stages, and waterfront cabarets geared to different age groups and musical tastes. Street performers will play an important role, too. As well as chance encounters with strolling clowns, jugglers, fire-eaters, minstrels, and dancers, Wootten would like to see parades every morning and evening. That day's visiting bands and street performers would join with the Expo 86 band in a colourful, joyful salute to Expo, winding past visitors on the three-kilometre-long site.

Constantly changing world-class entertainment is one reason so many people return again and again to world expositions. "We would like to see season pass holders visiting Expo 86 at least once a week," says Wootten.

It will take three buses to transport 130 members of an orchestra between their hotel and an Expo 86 stage. If a major opera company is booked, there could be 400 people to shuttle.

That is just one logistical problem — along with translating, special diet requirements, and accommodations — that comes with inviting thousands of performers to entertain an expected 13 million visitors during the five-and-a-half-month-long Expo 86 World Festival of performing arts.

VANCOUVER'S BIRTHDAY

When Vancouver lets fly the pinwheels, rockets and Chrysanthemum comets on June 13, 1986, it will be hard to match the fireworks of 100 years earlier. The two month old city's 1,000 wooden buildings burned to the ground, after a southwesterly fanned nearby slash fires.

Expo 86 is just one of the celebrants joining in the 365-day birthday party being planned for 1986 by the 22-member Vancouver Centennial Commission, co-chaired by Mayor Michael Harcourt and Expo 86 Board member Don Hamilton.

Next year the Commission will invite suggestions for the celebration from the public.

Senator Jack Austin, Minister of State for Social Development and federal minister for Expo 86, also oversees the Canada Harbourplace Corporation, the Crown corporation responsible for Canadian Government participation.



WORLD'S FIRST

Autobike: Shiftless 12-Speed

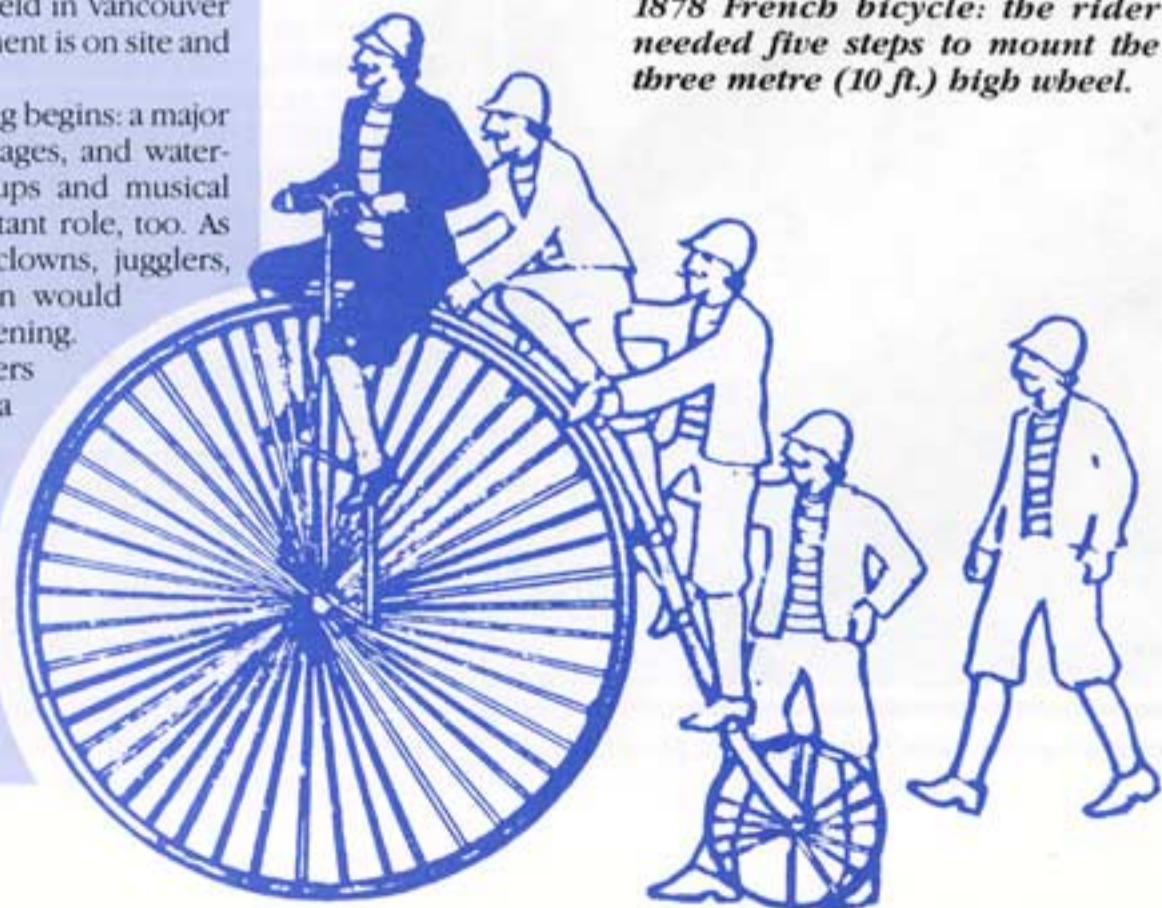
After 28-year-old French engineer Michel Deal narrowly missed running into parked cars several times while checking to see if his bike gear had engaged properly, he began devoting his spare time to producing the world's first automatic transmission for bicycles.

There had been no basic change in bike gearing systems since 1908, but now Deal's 12-speed model that changes gears automatically means cyclists no longer have to be peddling in order to shift.

Off the Drawing Board

Deal's research won first prize in the 1980 annual Lepine invention competition in Paris. Now a Montreal firm, Dykins Industries Ltd., is about to market the bicycle. The automatic option will add \$20 at most to the overall cost of a \$200 bike.

1878 French bicycle: the rider needed five steps to mount the three metre (10 ft.) high wheel.





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CN FIRST CORPORATE PARTICIPANT

Expo's first corporate participant is not only a world leader in the fields of transportation and communications, but also a key component in Canada's transportation network, with links by rail, truck, and ship.

While Canadian National also operates hotels and telecommunication systems and has urban real estate holdings, rail operations still account for 70 percent of revenue, reflecting CN's 1919 beginnings when the federal government consolidated several railways.

In announcing CN's Expo involvement, the public sector company said its exhibits will reflect dramatic changes planned to provide greater capacity for bulk commodity shipments.

These changes are being developed at the CN Rail Research Centre in Montreal — the largest facility in North America and one of the most sophisticated in the world.

To the outside observer, railways may not seem to have changed all that much since the first transcontinental train crossed Canada in 1886: a locomotive still pulls cars over rails laid on ties.

But Canada has long been a leader in development of concrete ties. Even the old jointed rail is going the way of the dodo. Today, much rail is laid by huge machines, manipulating iron strings up to a quarter mile long.

CN has also developed ultrasonic scanning to identify defective rail, and satellite communications capable of switching trains or rerouting ships. A new electronic identification system being evolved will be able to pinpoint, within seconds, the location of any one of 2,200 diesel locomotives or some 92,000 railway cars.

Even traditional hazards, such as massive snowfalls and related avalanches, are being overcome. Since studying the Soviet Union's methods of coping with winter, CN has come up with a new locomotive design — the Draper Taper — to ease travel in the Canadian Rockies and the prairies.

THIRTEEN NATIONS COMMITTED TO EXPO

The flags of 13 nations from Europe, Africa, Asia, Australia, and North and South America are already flying at Expo 86 headquarters in Vancouver. Expo's veteran Commissioner General Patrick Reid, who has been involved with world expositions almost continuously since 1962 (including four years as president of the International Bureau of Expositions), considers this roster to be a very good response four years before the event.

To date, those governments planning a pavilion presence: Britain, Saudi Arabia, Kuwait, Kenya, Senegal, Dominica, St. Vincent, Montserrat, United States, Peru, Indonesia, and Australia, plus Canada as host nation, Quebec, Ontario, and host province British Columbia.

KNOXVILLE 1982 BREAKS RECORDS

Turnstile counts of over 11 million have made the 1982 World Fair in Tennessee the most heavily attended BIE-sanctioned world exposition held in the United States since New York's 1939 extravaganza. Some 120,000 of the fairgoers were season pass holders.

The theme "Energy Turns the World" attracted 22 countries, 8 states and 60 corporations to the first sanctioned world exposition ever held in the southeastern U.S.A. (Expo 86 already has 13 countries committed four years before the event.)

While the final financial figures will not be known for some time, Knoxville officials are predicting a profit. Only two other 20th century American world expositions — Chicago in 1933 and Seattle in 1962 — finished in the black.



Singer/composer Ann Mortifee: Expo 86 sponsored a free concert in Vancouver's Robson Square prior to her visit to the Knoxville World Fair as part of Canada Week's entertainment. Mortifee was joined on the Knoxville stage by the Nylons (an a capella rock and roll group), the dulcimer and guitar of Pied Pear, and Montreal chanteuse Marissa May.