



Canadian technology ahead of its time

Canadian expertise in science and technology is featured in this special issue of *Canada Weekly* which has been prepared for the Davos Symposium in Switzerland, from January 26 to February 2, 1984. Material has been culled from articles that have appeared in the publication during the past 12 months or so.

The remote manipulator system, Canadarm (left), used aboard the United States space shuttle *Columbia* to lift heavy cargo and satellites in space, is perhaps one of the most remarkable contributions made by Canada to the world of science and technology.

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Geneva Telecom 83 — a chance for Canada to shine

Canadian companies enhanced their reputation as leaders in the communications field at the fourth World Telecommunications Exhibition — Telecom 83 — held in Geneva, Switzerland from October 26 to November 1, 1983. The show, held every four years, is the most prestigious international exhibition in telecommunications and electronics. Canadian capabilities, products and services, which have already earned international recognition for excellence, were exhibited by some 25 companies offering a wide range of goods and services.

Canada, with its 9 970 000 square kilometres and a widely dispersed population, began to develop an efficient communications network early. Alexander Graham Bell invented the telephone in Canada in 1874; two years later the world's first long distance telephone call took place. Today, with a population of almost 25 million, Canada has 14 million telephones in service and the

fourth highest telephone density in the world. The system is now being rapidly converted to the cheaper and more reliable digital mode.

Canada in space

Telesat Canada was founded in 1969 to establish and operate a commercial system of satellite communications to serve all parts of Canada. *Anik A-1*, the world's first domestic satellite system, was launched in 1972, with similar satellites deployed in 1973, 1975 and 1978. The most recent, *Anik C-3*, was launched in November 1982.

There are now more than 100 Canadian-manufactured satellite earth stations of about 14 types and sizes, ranging from large stations with 30-metre antennas to small transportable stations of 1.2 metres. They provide services such as global television relay with local-area television distribution, telephone, computer-data transfer, and teletype. Telesat Canada

