

In the small community of Elie, Manitoba, some 150 households were connected by fibre optics, making the field trial the first for multi-use tests of fibre optics systems in a rural community.

The Saskatchewan Telephone Company began three years ago to install a 3 400 kilometre fibre optics broadband

with a much higher resolution than other available equipment. It has also shown flexibility and compatibility of data bases with different terminals and has a designed capacity for future expansion.

Like other videotex systems, Telidon has a slightly modified television set or display monitor, an interface decoder device, a telecommunications system and a central computer. Since Telidon has a microcomputer in all its terminals, it can fully exploit recent advances in computer graphics and telecom data technologies — making it uniquely suited to converting a television set into a highly advanced information tool.

#### Consulting services

Canadian telecommunications consultants are respected throughout the world. The largest Canadian consultant in this field, Bell Canada International, has provided international services and gained renown for its expertise during more than five years of work in Saudi Arabia.

Canadian experts offer a complete range of services: from consulting to managing turnkey operations; from initial basic assessment of an organization's needs to managing systems installations; to training local staff before turning over an efficiently operating network.

Since joining the International Telecommunication Union (ITU) in 1907, Canada has been committed to the idea of promoting international co-operation and the extension of international networks.

#### Participating Canadian companies at Telecom 83

Canada's capabilities, products and services will be represented by some 25 companies at Telecom 83 in Geneva, October 26 to November 1, 1983.

The many Canadian exhibits cover the telecommunications electronics gamut — from telephone switching systems, satellite communications and subscriber radio systems to fibreglass composite technology, microwave transmission systems, data communications products and thermoelectric remote power generators.

Four internationally-renowned companies are independent participants: Mitel Corporation; Northern Telecom; Teleglobe Canada; and Bell Canada International. The latter company is also exhibiting at Canada's National Stand, as are the following: A.E.I. Telecommunications (Canada) Limited; AEL Microtel Limited; Allcom Data Limited; Canadian General Electric Company Limited; Canadian Marconi Company; Croven Crystals; Develcon Electronics Ltd.; Department of Communications; Farinon Canada Limited; Gandalf Data Limited; Global Thermoelectric Power Systems Ltd.; Hermes Electronics Limited; Idacom Electronics Ltd.; Memotec Data Inc.; Novatel Communications Ltd.; Spar Aerospace Limited, Satellite & Aerospace Systems Division; SR Telecom Inc.; Glenayre Electronics Ltd. and Motorola Canada Limited.

For further information, please contact: Commercial Division, Canadian Embassy, Kirchenfeldstrasse 88, 3005 Berne, Switzerland. Tel: 44-63-81. Telex: (Destination code 45) 32489 (DMCNB CH).



*The Aurora 400 mobile telephone from Novatel Communications, a company specializing in the manufacture of cellular mobile telephone systems.*

network linking a number of communities in the province. The digital system is the world's longest commercial fibre optics network and provides full voice and data services, as well as cable television signals to 52 communities.

#### Data networks

Canada initiated the first dedicated coaxial data network, a 12-tube cable linking Toronto, Ottawa and Montreal. The country has had its own national digital-based data networks since 1973 when Dataroute was introduced into the Trans-Canada Telephone System. Introduction of the Info switch and Datapac followed in 1977. The systems, which cover the width of Canada, link into United States systems and are part of an integrated network for voice data and visual services.

#### Videotex-Telidon

In 1978 Canada's Department of Communications announced the development of Telidon, an advanced videotex terminal capable of producing images



*Northern Telecom Limited's DMS-100 (digital multiplex system) switching machine featured in the corporation's exhibit at Telecom 83. This is the first appearance of a working model of this large central office machine at a trade exposition. It has a capacity of up to 100 000 lines and will be used to demonstrate the capabilities of the machine as it relates to various systems in Integrated Business Networks, integrated voice and data terminals, Autovon military network, Maintenance and Administration Positions (MAP) and Traffic Operator Position Systems (TOPS).*