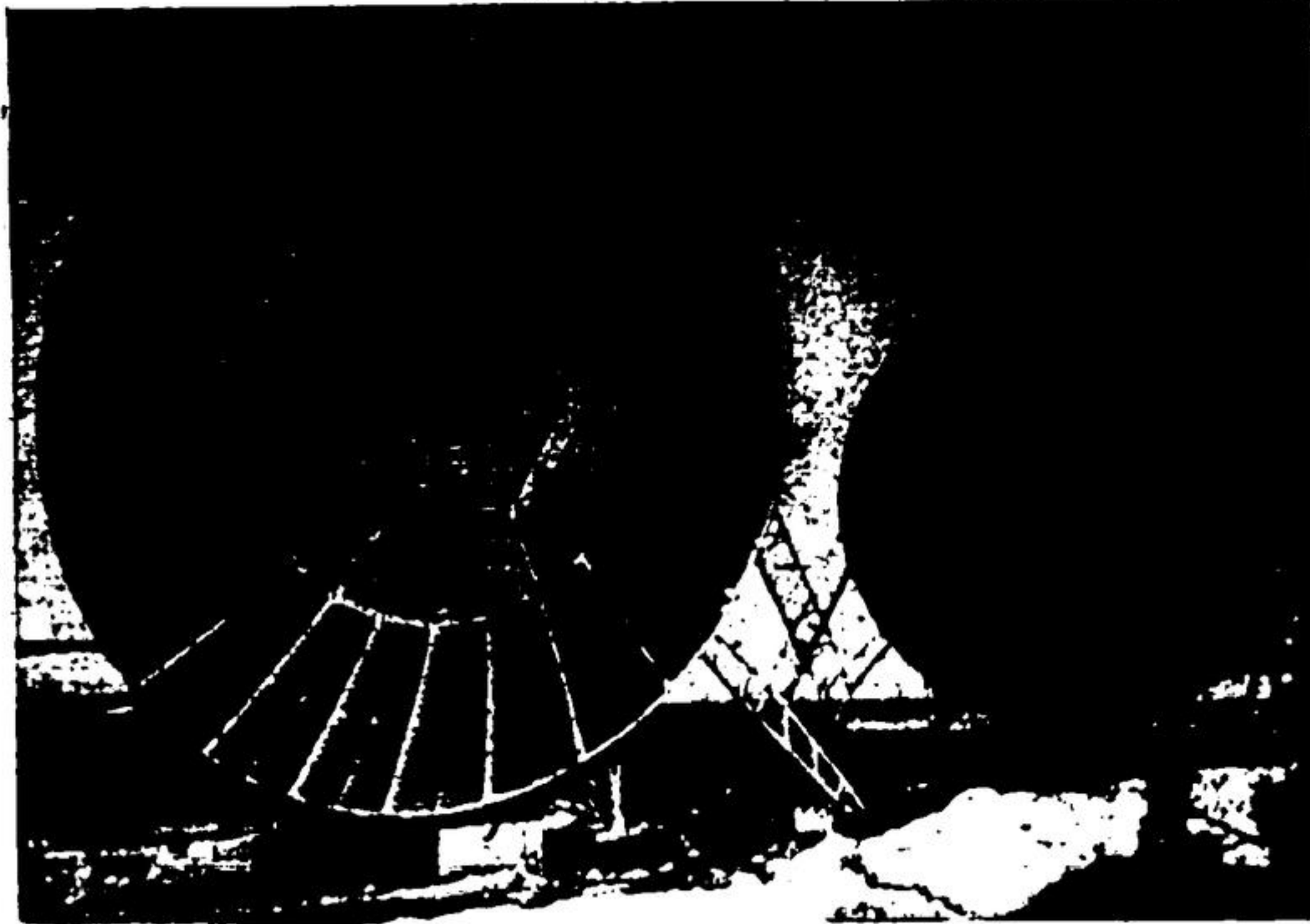


Bell Telephone Working on Arctic Defence Project



COMMUNICATIONS HISTORY has been made in Canada's sub-Arctic with the setting up of the world's first full-scale installation of over-the-horizon microwave transmission equipment, using the "tropospheric scatter" principle. The installation, employing huge dish-like antennae such as these, was built by the Bell Telephone Company of Canada's special contract department.

Up along the wild and rocky coastline of eastern Canada's sub-arctic, communications history is being made by a team of Canadian experts working on a vital continental defence project.

According to the November issue of "The Blue Bell," Bell Telephone's employees' magazine, members of the company's special contract department have set up the world's first full-scale installation of "tropospheric scatter" microwave transmission equipment. With this installation and accomplished fact, Bell's special contract people are now devoting their energies largely to the Mid-Canada Line.

In this new and advanced concept of over-the-horizon radio relay transmission, antennae resembling giant dishes are used for gathering in the tiny microwaves.

Before the development of over-the-horizon microwave transmission, microwave towers had to be located within line-of-sight or not more than 30 miles apart — because engineers had discovered that, given sufficient power, the microwaves tend to bounce back to earth again in little pieces. The huge dishes can collect enough of these pieces to produce an effective signal — hence the term "scatter."

The voice channels used on this type of installation are so high-grade

that two people located a thousand miles apart could converse as though they were in the same room.

"This construction job was no mean challenge," the Blue Bell articles disclose. "The over-the-horizon transmission principle had been tried out in small test links set up in the southern US and in our own country. But no one could foresee all the difficulties ahead in setting up and maintaining a high fidelity radio communication system in the frozen north."

"When plans for the project were drawn up, swift decisions had to be made on slim facts, because our people had little to go on other than the precise paper calculations of the experts.

Thick, book size files of detailed specifications had to be drawn up, double-checked, transformed into factory-built equipment and transported to the scene of operations in the north.

Buildings and tower structures had to be completely designed, with the aid of consultants, translated into materials, transported by sea and air to the northern bases, and erected by sub-contractors. Shortly after they had received their contract the special contract people had moved \$10,000 worth of construction materials and equipment into the north and were busy setting it up. To get it up there they had the European market scoured for ships available for chartering. They used everything from the d'Arville, pride of the government's ice breaker fleet, to small sealers and landing craft, and from flying boxcars to helicopters.

The Bell Company's special contract department is a top level contractor in defence communications and associated construction for the Trans-Canada Telephone System and the Government of Canada.

Its personnel consists mainly of technicians and engineers recruited from within the Bell, from other telephone companies, or from outside industry. They operate over a sweep of territory stretching from Haffinland and Greenland to the borders of British Columbia.

Deer Not Plentiful Hunters Disappointed

Rounding up the news of hunters from the town and district who have been up north on deer-hunting trips during the past week or two would seem to indicate that the deer are not as plentiful as last year, for some reason. Part of the reason might have been the stormy, windy weather which drives the deer into the swampland. If the party was not in the vicinity of that type of terrain, their luck was bad. A bad snow storm in some localities last week also cut down some hunters' chances of bringing home the venison.

One of the more fortunate parties hunting in the Manitowaning vicinity was composed of Don Barrager, Neil Robinson, Elwood Carney, Art Scott, Bill Ritchie, Vern Archer, Murt Allison, and Andy Laing, Hillsburg. They bagged nine deer.

Hunting for seven days north of North Bay, a party of Ballinfad district men got five deer. They too reported the deer not too plentiful, and it took plenty of hunting to bring home their five. The men in this party were Jack Snow, Sam Snow, Angus McEachern, Al Saunder, Garnet Winter, Dick Shortill, Reg French, Ray Swindlehurst and Vic Swindlehurst.

Jack Crichton hunted with a party of twelve from the Bracebridge vicinity, including his uncle Russ Salmon, who is married to the former Irene Thompson of Georgetown. The party bagged five, including the biggest buck they had ever got. It was estimated the animal would have tipped the scales at 215 pounds, dressed weight.

Charlie Gibbs of Glen Williams and Walter Thompson of town joined a hunting party at Sprucedale, north of Huntsville for a week, and helped bring the party's tally to three deer. After a week's hunt on Manitoulin Island, a party of disappointed hunters returned home to report that they hadn't even had a chance to take a shot at a deer. Not one was visible.

GLEN WILLIAMS

St. Catharines Lawyer Men's Dinner Speaker

Over seventy men were present at the first banquet of St. Alban's Chapter of the Brotherhood of Anglican Churchmen when ladies of the parish guild served turkey dinner to members and guests.

Bob Welch, St. Catharines Lawyer, spoke on the task of the laity in the parish and urged men everywhere, regardless of denomination, to take an active part in their parish life. He urged each chapter to strengthen their work and assist their rectors. Mr. Welch was introduced by William

Korzack and thanked by Fred McNally.

Jack Lucas led in singing grace and Arthur Beaumont proposed a toast to the Queen. President Charles Crawford introduced head table guests—Rev. Kenneth Richardson brought the greetings and congratulations to the men on their first banquet and Thomas Hill expressed a vote of appreciation to the ladies for the dinner. During the intermission Colin Penketh of St. Catharines led a singsong, accompanied at the piano by Mrs. Reg Williams.

Executive of the B.A.C. who arranged the banquet are Charles Crawford, president; William Korzack, vice president; and Henry Lyrman, secretary-treasurer.

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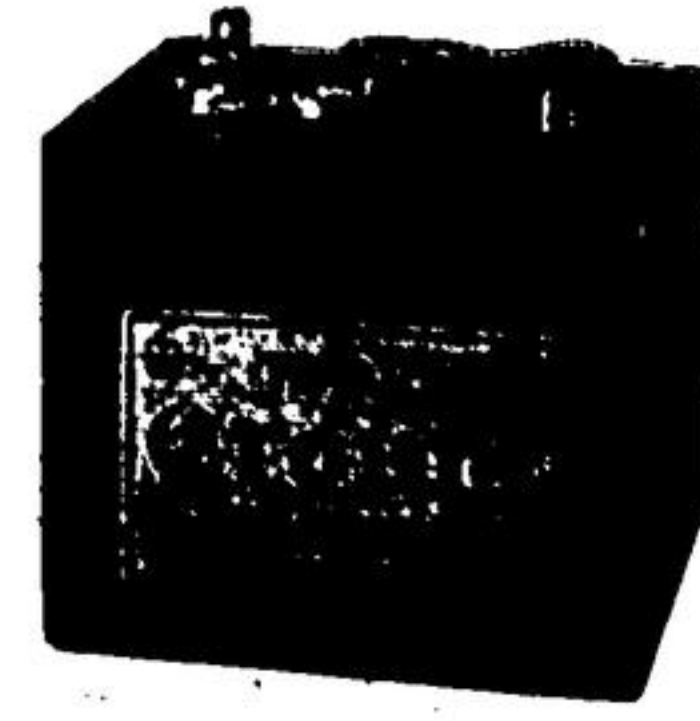
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