

### Building Toured Radio Club

ay, Feb. 1—The U.N.B. met at the office of the Brunswick Telephone Co. on and were met by Mr. Williams who conducted a tour of the building, showing how the exchange in is run. Some of the lows were taken upstairs y were allowed to watch stance operators at their Williams and two assist- ed the workings of the dialing system and also a group a teletype mach- ination. They were then the room containing the power supplies and equ- ipped in producing the and the busy signals etc. ons of this equipment explained to the inter- ops.

the groups arrived in g room an were shown various instruments are keep the communication rking condition. estions were answered by the group's hosts.

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### WALKER'S MEN'S SHOP

The Smart Quality Shop For Men

## Television for Canada in 1951 . . .

by Arnold Duke

Television broadcasting in Canada will become a reality in the fall of 1951 with the setting up of three transmitters by the Canadian Broadcasting Corporation. Toronto and Montreal will be the first cities to be served by Canadian Television. Toronto will have one English vidio outlet while Montreal will have one English, and one French. The standard to be adopted will be American. This will mean the picture image will consist of 525

the transcription disc and magnetic tape. In remote and network broad- casting coaxial cable and the micro wave beam replace the tele- phone line in carrying the pro- gramme from point to point. In- cluded in this article is a photo- graph of a Bell Telephone Com- pany micro wave repeater stations in the Boston-New York circuit. Stations of this type are located about every 35 miles and carry tele- vision programmes from one city



—Duke

Television News Broadcast as received from WBZ-TV Boston Channel 4 and originating in Washington, D. C.

horizontal lines scanned 30 times a second. A few television receivers have already been made in Canada to these standards. These are used in southern Ontario and British Columbia, areas now covered by American television stations. At present twelve channels are available for television, and are numbered 2 to 13. Allocation of these channels to Canadian cities within 250 miles of the U. S. border has already been made through an agreement between the American Federal Communications Commission and the Canadian Department of Transport. The channels allotted follow a pattern similar to the A. M. broadcast channels now in operation. In New Brunswick, Fredericton, Moncton, Sackville, Campbellton and Edmundston were given one channel each while Saint John received two.

Television Broadcasting Tech- niques are very similar to those developed in twenty years of audio broadcasting. Radio broadcasts may originate from four sources, "live" in the studio, recorded, remote control, or from a network. In television the same sources are available. In the recorded group the medium is different, motion picture film and slides replaced

to the other where they are broad- cast through regular television sta- tions.

In the United States eighty-four television stations are now in operation, thirty-three more have con- struction permits. A television network now operates along the At- lantic coast from Boston south to Atlanta, and from New York west to Chicago. A second network op- erates along the west coast. At present programmes on one net- work have to be recorded to be used on the other. It is hoped that the two can soon be linked, to form one coast to coast network.

The first network in Canada will probably join the stations in Tor- onto and Montreal. A second link



—Duke  
Bell Telephone Micro Wave Re- peater Station near Hartford Conn.

from Toronto to Buffalo would join it to the American Network; how- ever, most of the programmes will be of Canadian origin. Television on any major scale in Canada will be impossible for some time as it is at present economically unsound to place transmitters in areas serv- ing less than 100,000 people in its 65 mile radius. It would probably cost Canada her total annual bud- get to build a vidio network equal to her present radio networks.

### ENGINEERING AS APPLIED

(continued from page three)  
at high speeds, a system of rope carriers has been devised, which is known at the Sheehan rope carrier. Two ropes run parallel to each other, and pinch together, thus holding the wet sheet, and carrying it under one dryer, around the bot- tom of it, up between it and the next dryer, up over the top of the top dryer, down again, and so on, until the paper has passed over every dryer. In this way different sections of the sheet come into contact with different dryers at different times, so that water is evaporated uniformly from the sheet.

The sheet then passes through calender stacks, which are a series of smooth iron rolls, mounted on top of each other. These revolve and press and iron out the dried paper until a smooth surface is obtained. To help get a good finish, the paper is dampened slightly before calendaring.

The paper has now been made. It is wound on large iron cores to diameters up to forty inches by means of a drum winder, which simply revolves the core as the paper comes out of the calender stack, and rolls it up on the core into a large roll called a reel. The reel is transferred by means of a hoist to a stand behind another winder machine; here the paper on the reel is unwound, and passed through a winder machine, to be slit into any width desired, and again wound on paper cores to whatever diam- eter is desired. A roll of paper sixty-nine inches wide, will contain about 8,760 yards of paper if the diameter is thirty inches, and will weigh 1,625 pounds; the weight of paper is thirty-two pounds for 500 sheets twenty-four by thirty-six inches in size.

These rolls now go through a process called finishing. In this process the roll of paper is num- bered, and then wrapped with the heavy cardboard paper made from the rejected pulp, mentioned pre- viously. Three inch wooden plugs are put in the ends of the paper cores, and circular pieces of the same cardboard wrapper are put on the ends; the whole is wrapped up and pasted.

Each roll is weighed, the weight of the wrapper used is deducted, and the net weight of the roll stencilled on labels, which are pasted on the wrapped roll. The name of the customer is also stencilled on, and the paper is ready to be ship- ped, either by railroad, or by steam- ship, to wherever the customer's newspaper is located.

From forest to printing press, the manufacture of newspapers is made possible through the efforts of en- gineers, and application of engin- eering principles.

### Model United Nations

A meeting of representatives from various campus societies was held on Tuesday night Feb. 7 for the purpose of forming a model United Nations. Stig Harvir was elected President of the committee and Derek Wiggs was elected secretary.

It was decided seeing that the idea was adopted so late in the year that instead of a model assembly which would be too large an undertaking on such short notice that instead a committee on economic and social affairs would be formed. So far cooperation has been received from several societies and those who have not sent representatives are asked to do so. A meeting will be held in the near future.

