



**WORLD'S LARGEST MICROWAVE** radio relay system—being built jointly by members of the Trans-Canada Telephone System—is taking shape step by step. Designed to carry television programs and telephone calls across the continent by 1958, the system—including spurs—will be 4,300 miles long, with 155 relay stations. It will link most major centres of Canada from Sydney, N.S., to Vancouver, B.C. Building this communications "skyway" is a vast project requiring many diverse skills. Peter Misnakosang (upper left), a woodsman from Long Lac, is one of 35 Indians clearing sites in Northern Ontario. Trees must be cut, rock blasted and roads built before a relay station can be established in this rugged terrain. Skilled engineers determine the exact route of the network by means of slender temporary test towers, such as this one (lower left) thrusting 200 feet skyward on a tentative site near Halifax. With the sites chosen, work begins on the permanent station. The towers at each location, ranging in height to 350 feet, will be topped by huge antennae resembling a giant sugar-scoop (upper right). The micro-waves are amplified at each station and relayed by the antennae to the next station in the system. Even as the towers are being erected, technicians work inside the equipment buildings installing intricate electronic apparatus (lower right).

## Microwave Relay Towers to Make Trans-Canada TV Possible in '58

Microwave radio relay towers, land marks with a significance comparable to Canada's first transcontinental railways or telephone lines, are becoming familiar to more and more people in Canada as construction of the world's longest microwave chain progresses.

This microwave relay system, strung out across the country, will enable Canadians to see television programs originating in studios from coast-to-coast by 1958.

It is only two years since Bell Telephone's Toronto-Ottawa-Montreal radio relay system began to carry long distance telephone calls and network television programs. On May 14, 1953, it carried the first network program for the Canadian Broadcasting Corporation. Since then it has regularly transmitted network television, and the number of long distance telephone calls carried over it has steadily increased.

The Toronto - Ottawa - Montreal system was extended to Quebec City in July, 1954, after nearly two years of planning and construction. In the fall of 1954 a link to carry television from the main system to Kingston was completed, and a similar spur to Peterborough was placed in service in March, 1955. Connection with television networks in the United States is provided by a radio relay-link between Buffalo, N.Y. and Toronto.

This system is a forerunner of, but will become part of, the Trans-Canada Telephone System's microwave radio relay network which by 1958 will have 377 relay stations along the main 3,800-mile route spanning the country from Sydney, N.S. to Vancouver, B.C.

The spurs to Halifax, Moncton, Saskatoon, Edmonton and Lethbridge will total an additional 477 miles and require 18 radio relay stations. Along the 1,200-mile Toronto-North Bay-Winnipeg section of the transcontinental skyway, re-

lay stations are already under construction and this portion of the system will go into service in the fall of 1956. East of Quebec City, path testing has just been completed.

Canada's cross-country skyway is a co-operative undertaking. The Trans-Canada Telephone System is a group of seven major telephone systems in Canada. Each system is building the facilities for the vast microwave chain in the territory it serves, and connecting them with those of other systems. In Ontario and Quebec the work is under the jurisdiction of the Bell Telephone Company of Canada.

Initially the coast-to-coast skyway will provide one video channel in each direction and telephone circuits as required in the various sections. There will be a standby channel in each direction for service protection. As requirements increase, more facilities can be installed using the same relay towers and antennae.

New stations being erected in the Trans-Canada system have a new type of antenna with an ultimate capacity of almost 20,000 telephone circuits or 30 television channels. These antennae, like giant sugar scoops pointing to the sky, are symbols of a new era of communications in Canada, and tokens of the telephone industry's confidence in the future development of the country.

**SPONSOR ARTIFICIAL ICE**  
Artificial ice is being installed in the Orangeville arena by the Rotary Club of that town. To meet part of the cost, the Club is staging a monster-bingo September 11-12. A new car will be given away as a door prize, and extra and special prizes will be up for the winning through the evening.

## Open Best-of-Seven in 15-0 Win For Campbellville Last Friday

Campbellville opened their best-of-seven series with Waterdown in Waterdown on Friday, August 19 and came up with a resounding 15-0 victory in a game that was called at the end of six innings because of darkness.

Jack Roberts, given a big lead in the first inning, never had to extend himself as he baffled the Waterdown hitters with a great assortment of "stuff". Two singles were all they were able to get off his offerings and his control was perfect. Only one Waterdown runner got past first base. In the fifth inning, Moon got to second when Moore overthrew first and went to third on a passed ball and died there.

Roberts struck out three. Finnamore and Labelle did the hurrying for Waterdown and were given very poor support by their team mates. They allowed 12 hits, walked five and struck out two. The Waterdown team committed seven errors.

Campbellville jumped into a four-run lead in the first inning on a

passed ball after a strike out, two infield errors and successive singles by Seoney and McPhail. They scored five in the second to make it 9-0 on an error, a triple by Bill Cairns, and singles by Henderson, Elliott, Seoney, McPhail and Dredge.

Campbellville made it 10-0 in the third when Roberts walked, went to second on an infield out, advanced to third on a passed ball, and scored on Henderson's single. They completed the scoring in the sixth when two walks, an error and singles by Elliott, Seoney and Dredge produced five runs.

Brush and Burns singled for Waterdown. Seoney had three singles for Campbellville, while Henderson, Elliott, McPhail and Dredge each had two. Bill Cairns' triple was the only extra base blow of the game.

Campbellville ..... R H E  
Waterdown ..... 0 0 0 0 2 7  
Batteries—Campbellville: Roberts and McPhail; Dredge; Waterdown: Finnamore, Labelle and Burns; Fetter.

## 4,000 Pound Award Won by Jersey Cow

Avonlea King's Tiny—165228—a Jersey cow, bred and owned by Featherstone Brothers of Oakville, Ont., has been awarded a 4,000 lb. certificate. She produced in eight lactations 72,731 lbs. of milk and 4,597 lbs. of fat. "Tiny" is also a Ton of Gold cow.

## False Fire Alarms Cost Human Lives

MONTREAL (CP)—Anselma Filion, retiring as assistant fire director, after 42 years in the Montreal fire department, says false alarms are a bane to firemen.

"There were many instances where false alarms had cost lives, one of them comparatively recent. 'Fire broke out in a district where all the fire engines had been called out on false alarms,' he said. 'Engines had to be brought from so far away that by the time they reached the scene, two lives had been lost.'

Some alarms were turned in by people who 'think it is funny to watch us come running. Last year we went 1,500 times for nothing.'

## Music Is Everywhere At CNE This Year

For the first time in its history the Canadian National Exhibition is this year sponsoring a Trumpet Band Festival and a score of bands from all parts of Canada are expected to participate.

This is to be one of the highlights this year of the CNE Music Competitions but also to be included are choirs, dancers, instrumentalists and singers. Many of the 1,000 competitors will be featured at the Band Shell on Music Day.

There are 113 different classes of competition including everything from dancing the highland fling to playing Il Bacio on a piano accordion.

One of the youngest, and perhaps the most excited groups taking part in the contests this year, will be the mouth-organ band from Christian Island, Northern Ontario. Comprised mostly of Indian children, the band of 18 ranges in age from seven to nine years.

Close to 50 entrants will be on hand for the Old Time Fiddlers' Competitions and about 200 dancers will take part in the British National Dancing competition to be held the same day.

**Engagements**  
Mr. and Mrs. R. W. McDonald announce the engagement of their daughter, Margaret Jean, to John Russell Barr, son of Mr. E. E. Barr and the late Mrs. Barr, of Acton. The marriage will take place on Saturday, September 3, 1955, at 2 o'clock in Victoria College chapel.

## Public Utilities Commission Here Studies W.G. Pump Power Costs

(Continued from Page One)

At the close of his report, the superintendent said it was necessary to order a supply of new disconnects, also warned that supply of 35-foot poles was running short and more would have to be ordered.

Waterworks superintendent J. Lambert reported water meter installations at Glenlea are keeping pace with occupation of the new homes.

Trouble was noted with levels during the connection of a sewer lateral line in a recent installation, he revealed. Needed chimney extensions at the spring and sewer plant buildings were discussed along with the possibility of the work being done by the town.

**Buy Portable Sump Pump**  
Superintendent Lambert exhibited a type of portable sump pump which the Commission had been interested in acquiring for emergency use. He was authorized to buy the pump.

At the close of the meeting, Superintendent Lambert asked for an understanding regarding his holidays, which he had been unable to take so far this year. The Commission agreed he should take the days entitled to him if possible, if not to take holiday pay in lieu.

The following accounts were passed for payment:

Waterworks Accounts	
People's Fuel pipe	\$150.28
Bell Telephone Co., serv.	17.35
Acton P.U.C. Hydro, acct.	215.86
Hamilton Excavating, shovel	63.00
Town of Acton re mdse. from Canadian Brass	24.25
Highway Garage, repairs	1.25
Harlock - Schultz Electric, mdse.	23.50
Can. Valve and Hydrant, gate valves	51.90
Can. Brass Co., mdse.	70.00
Whitham's Garage, mdse.	28.75
Simplex Valve & Meter Co.	26.81
J. B. Mackenzie and Son	1.25
Anthony-Little Motors, gas	121.00
Symon Hdwe., mdse.	17.13
Gordon's Hdwe., mdse.	6.32
Can. Iron Foundries, mdse.	30.24
Acton P.U.C. Hydro, May, June operations	2436.14
	\$3,287.03

Hydro Accounts	
Petty cash, exp. trans.	\$ 15.74
Bell Telephone Co., serv.	46.90
Acton Free Press, adv.	2.00
Consolidated Truck Lines, cartage	1.50
H. Palmer, office cleaning	20.00
H. G. Barlow, mdse.	1.77
Acton Auto Body, paint, repair, etc., truck	142.50
J. H. Goy, cartage	3.75
Tolks Garage, acct.	23.40
Thompson Motors, acct.	10.45
L. Garner Motors, acct.	39.75
Whitham's Garage, gas	5.03
Wm. Kneil Co., mdse.	1.64
Reliance Electric Transformers	750.00
MacDonald Elec., mdse.	108.72
H.E.P.C. of Ont., lamps	26.71
Federal Wire and Cable Co. wire	329.31
Gordon's Hdwe., mdse.	6.93
J. R. Kearney Corp., mdse.	114.49
Company of Canada, acct.	782.20
Can. Line Materials, mdse.	96.26
Anthony-Little, Motors, gas	7.35
	\$2,542.40

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## Polish Canadians Honor Dead Heroes

On Sunday, an estimated 3,000 Polish-Canadians gathered at the General Sikorski Park near Boyne to pay tribute to the dead Polish heroes of a battle which helped to save Western Europe from Bolshevik terror. In the 1920 battle, the Polish volunteers drove the attacking Soviet army back into Russia and foiled an attempt by the Soviets to take over Poland and possibly most of Europe.

Those present were early immigrants and newcomers alike, nearly all of them from Toronto. They attended a huge field mass in the morning and a rally in the afternoon.

The speaker was a famous Polish military leader who commanded the first Polish army during World War II, Gen. Emil Przedrynski. He urged his listeners to enlighten their fellow - Canadians on the great menace of Communism.

"There are some who accuse us of being in favor of war," he said. "This is completely untrue. Nearly all of us have experienced the terrible tragedy of war, and nothing could be further from our minds than to wish that the world should go through the same horror again."

**"Do Your Best" "Be Prepared"**  
  
**CUB & SCOUT NEWS**

Both A and B Cub Packs will have slight changes made when Cubbing begins again in September. A Pack will be cut from 36 to 24 boys and B Pack will increase from 18 to 24. With these changes completed, six to eight new boys will be allowed to join but not until the first of November. All new boys will be taken in turn from the waiting list of last year.

Any boy who wishes to join the Cubs is asked to contact the Cubmaster so that his name might be placed on the waiting list. The present waiting list has 14 names. Any new boys and all Cubs are asked to meet in the Scout Hall on the first Thursday night after school opens. The meeting will be short and will start at regular Cub meeting time.

## Skinny men, women gain 5, 10, 15 lbs.

**Get New Pop, Vim, Vigor**  
What a thrill! Boy's limbs fill out; ugly hollows fill in; long longer scrawny body loses half-starved, sickly "hump-back" look—because of better appetite due to lack of iron. Thousands of girls, women, men, who never could gain before, are now proud of their plump, healthy-looking bodies.  
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## Housecleaning Bee At Acton Y Tuesday

"Many hands make light work" was put to an activated test Tuesday at Acton Y where young members of the Y put themselves to the task of housecleaning.

Under the direction of Y secretary Bob Bryshaw, who himself was busy enough sanding down the gym floor, 18 pairs of busy hands tackled the cleaning, polishing, scrubbing and painting scheduled in the "operation houseclean". In the afternoon, another crew took over to continue the job.

98 per cent. of the automobile industry production in Canada is in Ontario, with 479,649 units produced in 1953. Salaried employees and wage-earners in this field total some 38,000.

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