

THE GEORGETOWN HERALD

Georgetown, Ont., Wednesday Eve'g., Sept. 16, 1953

SIX PAGES

SECOND SECTION

SHIFT TO DIAL TELEPHONES EARLY THIS SUNDAY

Estimate Two Minutes For 7 a.m. Cutover

At approximately 7 a.m. on Sunday, a momentous change will take place in Georgetown's system as the exchange is converted to dial operation in two minutes or less.

The conversion will be made with virtually no interruption in telephone service. Seven a.m. on Sunday was chosen as the approximate time because normally there are few telephone conversations in progress around that hour.

The actual cutover will be made according to a closely co-ordinated procedure, requiring split-second timing, to make sure that the period when all the community's telephones are "dead" is kept to a minimum.

At a signal given when calling has reached a low ebb, a gang of men wearing goggles will go into action at the old manual exchange to disconnect all the lines to the old switchboards.

The goggles are necessary because of the method of disconnection. Tapes are strung behind the heat coils—little fuses that protect subscribers' lines from high voltage—so that the fuses can be ripped out by the thousands. As there are two of these fuses to each line, more than 3,500 of them will be flying through the air when the tapes are pulled. This operation will require about 30 seconds.

As soon as the old exchange is "dead," the signal will be given over a special telephone line to the new exchange, on the old Ruston property on Main Street, where another gang of men will stand in readiness to remove the "blocking tools" from the dial switching equipment. These tools, which are used to prevent the dial switches from working while the manual exchange is still in operation, also are attached to cords so they can be yanked out in a few seconds.

Once the blocking tools are pulled out, the dial system will be in operation. As the first callers dial, the dial switches will begin to click, connecting Georgetown telephone calls.

No Phone Operators Here Long-Distance Via Toronto

After Georgetown's telephone system is converted to dial operation on Sept. 20th, there will no longer be any local operators located here. All local calls will then be handled mechanically by the intricate dial equipment, and long distance calls will be looked after by operators located in Toronto.

Though the "voice with a smile" will pass from the local scene very shortly, no operators will be released as a result of the conversion, according to W. O. Misener, Bell Telephone manager here.

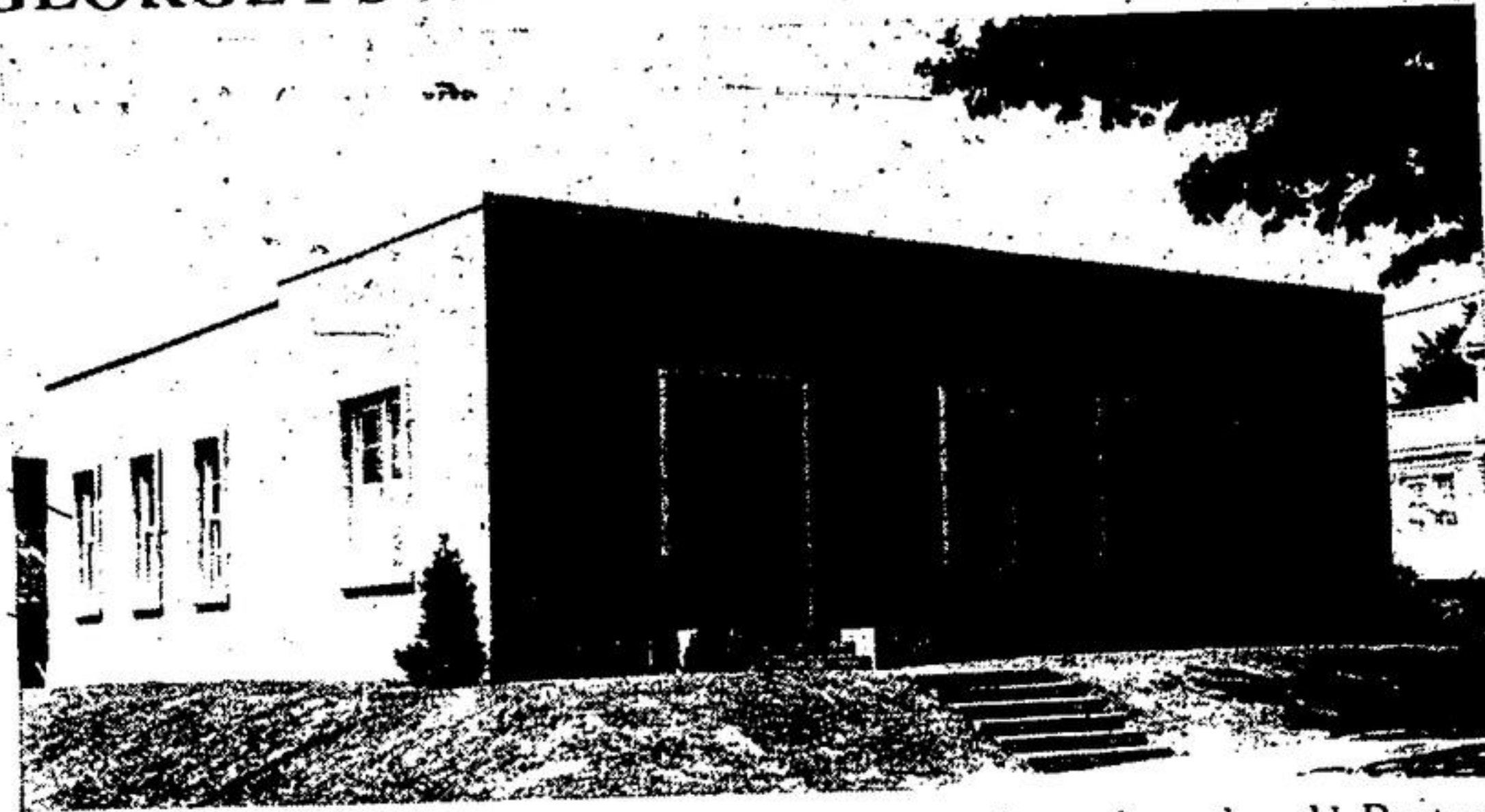
"From the moment that it was decided to carry out the conversion, careful plans were made for the welfare of the operators," Mr. Misener said. "A number of steps were taken in the last two years to make sure that no permanent employee would be out of work as a result of the cutover."

All operators needed since that time were hired on the understanding that their employment in Georgetown might be temporary, operators contemplating leaving were invited to stay on until the time of the cutover, and former operators were asked to return to the switchboards temporarily until the conversion.

Miss Mabel Chave, chief operator, is retiring at the time of the cutover after 47 years' service. All other operators were offered transfers to other offices and two have accepted. The others will continue in part-time employment with the company, and all others—who have held temporary jobs—have announced their intention of giving up their employment.

"Our company as a matter of policy always does all that is reasonably possible to assist operators to re-establish themselves at the time of a dial cutover," Mr. Misener explained.

GEORGETOWN'S NEW DIAL EXCHANGE



Georgetown's attractive new dial telephone building, located on the old Ruston property on Main Street, houses the complex dial equipment and power apparatus needed to give the community dial service. The exterior of the one-storey structure is of brick and stone trim. It is 42 feet wide and 46 feet deep.

Glen Williams Now Has Two-Party Telephone Service

Two years of preparation will reach a climax when Georgetown's new dial telephone exchange goes into service at about 7 a.m. on September 20th.

At that time, dial equipment sufficient to serve some 1,900 subscribers will go into operation. This will provide service for present subscribers and any who might be waiting for telephones and will take care of expansion for some time to come. Besides gaining dial telephones, subscribers in the community of Glen Williams will receive individual or two-party lines in place of the present multi-party service.

Bringing dial service here involved a huge construction program. A new building was constructed; the complex exchange equipment had to be specifically designed to meet the requirements of the Georgetown area, then manufactured, installed and carefully tested. The installation was a complicated undertaking requiring many months and involving the individual soldering of thousands of connections.

Telephones were installed in subscriber's homes, and lines and cables throughout the exchange area had to be altered and rearranged.

In all, 135 additional telephone poles, 23,000 feet of aerial cable and 6,500 feet of underground cable were constructed as part of the project.

Dial Machinery Triumph Man's Inventive Genius

There is nothing magic about the dial telephone system, but telephone users might well gain the impression that they have a genie at their service when they turn the dial.

It is an intricate mechanical genie capable of picking out any one of the possible connections between the telephones served by the Georgetown exchange, provided the person using the dial gives it the correct orders.

Many minds and many hands contributed to the invention and development of the dial switching equipment that performs these complicated tasks.

Although many of the components can be mass produced, an exchange must be made to measure for the community it is to serve. Engineers must first spend many months calculating the needs of the community and designing the layout. Then many more months are required for the manufacture and sensitive switching equipment.

Among the items needed to set up a dial exchange are power equipment, ringing machines, motor generator sets, power control board, testing facilities, an alarm system, a cable vault, and, above all, the sensitive switching equipment.

The last is a series of switches which operate when a telephone caller lifts the receiver and twists the dial.

The switches are called line finders, selectors and connectors.

The line finder comes into action the instant the receiver is lifted. Lifting of the receiver closes a switch and energizes the circuit. The line finder is then caused to seek out a "live" or unused line lead-

ing to the dial switching equipment in the exchange. When the connection is made, the dial tone sounds in the receiver, indicating that the equipment is ready for the caller to begin dialing.

The dial switches are activated by the return motions of the dial. As the dial swings back to the normal position, it sends electrical impulses to the dial equipment. Depending on the letter or digit dialed, these impulses cause the selectors—the first switches in the series—to rise a corresponding number of levels, where they rotate until they find an idle line into the next piece of equipment.

The connector, which is the last switch in the series, acts in a slightly more complicated manner. Assume that the last two digits of the desired number are "89." When the "8" is dialed, the shaft in the connector rises eight levels but does not rotate automatically to look for a vacant line, as do the shafts in the previous switches. Instead, it waits at the eighth until the last figure, "9", is dialed. The shaft then rotates nine steps to the exact line of the called party, and makes the final connection.

If the line is free, the ringing tone is started automatically, and it continues until the telephone is answered or the caller hangs up. If the line is busy, the busy signal is heard.

When the receiver is hung up at the end of a conversation, all the switches return instantly to their normal positions and the equipment is ready for its next call.

The dial tone, the ringing tone, and the busy signal are all produced by the ringing machine which is

connected with the power apparatus.

A special alarm system, which operates when any of the equipment fails, is also connected to the power supply. The system consists of both visual and auditory signals, and, through its use telephone men can locate the source of the trouble within moments.



GEORGETOWN TELEPHONE USERS now pay their accounts at Barber's Gift Shop, 51 Mill Street. Paul Barber, proprietor of the shop, is Bell Telephone commercial agent here. Mrs. June Cook and Miss Gretchen Bradley are seen at the counter.

1953 Enrolment at Wrigglesworth School

KINDERGARTEN - PRIMARY Morning Class

Teacher: Mrs. Harold Henry
Darlene Bouskill, Georgina Brown, Lynda Campbell, Jane Cleave, Judith Connely, John Copland, Stephen Cox, Donald Ellison, Judith Frank, Keith Green, Rena Hall, Gordon Harlow, Mary Harlow, Barbara Hodgins, Betty Ann Hulme, Suzanne Kidd, Ronald Lane, Robert McMenemy, Peter McNamara, Lynda Morrow, Martin Prucyk, Sheryl Puckering, Mary Rawson, James Scarlett.

KINDERGARTEN - PRIMARY Afternoon Class

Teacher: Mrs. Harold Henry
Robert E. Alcott, Heather Barber, David William Clapham, Jane Copland, Ann Gudgoun, Mary Hall, Elizabeth Hansen, Elizabeth Hay, Deborah Hyde, Richard Louth, Alan McDonald, Sharon Morrow, John Prouse, Sharon Puckering, Karen Reichardt, Anne Roshier, Margaret Rusk, Jacqueline Timleck, Joel Tost, Allan Whitnam.

GRADE 1

Teacher: Miss Jean Ruddell
Keith Allen, Sharon Allen, John Andrews, David Barrager, Ellen Blehn, Donald Boyd, Donna Bradley, Jane Bradley, Lynn Bradley, Richard Bralby, Sharon Coburn, Susan Collier, Ross Duncan, Robert Ellison, John Finlay, Keith Hall, Michael Hall, Cynthia Lambert, Barry Lewis, Frances Linton, Dale McCartney, Mary McNamara, Janice Mino, Judith Nash, John Penrice, Jan Popple, David Presswood, Rodney Presswood, Carol Rayner, James Richardson, Lynne Ritchie, Marlene Sanderson, Diane Schenk, Carol Stevens, Barbara Tost, David Wilson.

GRADE 1

Teacher: Margaret Cleghorn
Lynda Davies, Richard Hiddleston, Randal Hibbert, Linda Ganton, Herbert Lockhurst, Judy McCrae, Wayne McNiven, John Mudie, Christine Sargent, Patricia Sargent, Evelyn Saunders, Maureen Smith, Kathryn Spence, Paul Thompson, Michael Tost, Michael Tyler, Mary Jane Ward.

GRADE 2

Teacher: Margaret Cleghorn
Heather Allen, Larry Allen, David Cox, Carole Crawford, Robert Darby, Jeannette Davies, Jon Fleming, James Hepburn, Linda Hyde,

Michael Kelly, Fred Kennard, Murdoch McArthur, David McDonald, May McNiven, Deborah Moore, David Niven, Wayne Riedall, Kathleen Roshier, Tim Rossiter, Roger Schofield.

GRADE 2

Teacher: Mrs. Frank Cleave
James Barclay, Russell Bradley, Mary Copland, John Dyble, Carroll Farnell, David Graham, Robert Harris, Terry Lane, Virginia Lee, Gail Lloyd, Sandra Marchmont, David Moxil, William Sayers, Jacqueline Spence, Gail Stigger, Donald Tuck, Kenny Turnball.

GRADE 3

Teacher: Mrs. Frank Cleave
Gordon Andrews, Marsha Armstrong
(continued on Page 5)



Some of the Bell Telephone installers who visited Georgetown homes and business premises to instal dial telephones in the weeks prior to the cutover are pictured here. Left to right are: G. W. White, installation foreman; R. A. Scott, M. D. Godding, R. K. Daub; J. L. Leonard, H. McAlhinney, G. F. Weitendorf, R. E. Bellinger, J. G. Page, R. C. Vernon-Brown and J. C. Hamilton.

Students Attending Chapel Street School

KINDERGARTEN - PRIMARY Morning Class

Mrs. J. Dwyer, Teacher
Alan Arnold, Brenda Boyle, Lynn Cofell, Lynda Cuhbert, Dianne Davenport, Michael Dwyer, Christine Earl, Suzanne Fawcett, Joan Harris, Keith Hill, Barbara Hoare, Ann Marchmont, Lillian McColgan, Judith Norton, Richard Parry, Lisa Pruneau, John Rugg, Gladys Smith, Patricia Tost, Shawn Tost, Steven Turner, Katharine Williams, Helen Wilson.

Afternoon Class

Mrs. J. Dwyer, Teacher
Douglas Alcorn, Janet Chamberlain, Barbara DeForest, Donald Ernewein, Robert Footitt, William Given, Paul Hayward, David Holmes, John Kay, Donna Keir, Edith King, Valerie Kitchen, Elliott Klingbell, Rhona MacDonald, Carol McGillvray, Gail Pries, Paul Robinson, Brian Van Wyck, Donna Vivian, Brian Wicks, Dennis Wright, Neil Young.

GRADE I

Mrs. Walter Sargent, Teacher
Shirley Bludd, Patricia Bowman, Timothy Bragg-Smith, Glen Broomhead, James Campbell, William Cunningham, Carol Ann DeForest, Robert Eason, Lorraine Ford, Linda Hamilton, Douglas Harley, Patricia Hyde, Marion Kennedy, Linda King, Wayne King, Catherine Laird, Patricia Laws, Donna Marie Lorusso, David Lounds, Terry Kennedy, Douglas Malcolm, Lawrence McBeth, Linda McDonough, Bonnie Norton, Terry Pelletier, Lynda Reid, Kent Robinson, Michael Ryall, Catherine Saxe, Stewart Saxe, David Sheppard, Teresa Scott, Donna Stamp, Larry Stief, John Sykes, Mark Sweet, Jacqueline Switzer, Darlene Walker.

GRADE II

Miss Laura Scott, Teacher
William Anderson, David Armstrong, Gary Armstrong, Marlene Armstrong, Carole Ann Barber, Robert Bonfield, Anica Bouwman, James Bowman, Donald Calder, Janis Chaplin, Lorne Coffell, Wesley Darou, Mary Evans, Christopher Frost, James Guest, Roberta Hawes, Gary Herbert, Etta Hume, Jean Anne Inglis, Sharon King, Robert McCumber, Caroline Norton, David Shrubsole, Arie Van der Voort, Douglas Vivian, John Wardlaw.

GRADE III

Miss Laura Scott, Teacher
John Barber, Barbara Coleman, Gwendolyn Ford, Bettysue Jonnson, Jacqueline Morrow, John Scott, Allan Thompson, Susan Bragg-Smith.

GRADE I

Miss Marie Lindsay, Teacher
Ricky Alcorn, Ellen Bell, Peter Clark, Michael Cummins, Lynn Emmerson, Barbara Evans, Diane Golden, David Harley, Alfred Hume, Lynda Kentner, Terrence Lane, Robert Lyons, Donald McVeal, Mary McClintock, Diane McColgan, Dorothy Page, Gene Roshier, Jill Runham, Tommy Spence.

GRADE II

Miss Marie Lindsay, Teacher
Ronald Drew, John Ford, Steven Hoare, Hubert Koopman, Simon Koopman, Christine Leale, Kenneth Morrow, Raymond McDonough, Jeanette MacDougall, Phillipine MacDonald, George Pelletier, Tommy Quinn, Judith Ryall, Neil Tost, Erka Wade, Beryl Williams.

GRADE III

Mrs. H. C. Wrigglesworth, Teacher
Lynda Arthurs, Paul Hale, Jane Hoare, Leonard Hume, Colin
(continued on Page 2)