The British Commonwealth Air Training Plan

One of a series of articles written specially for Weekly Newspapers by Hugh Templin, Editor of the Fergus News-Record

BOMBING AND GUNNERY

This is the tenth and last of the series of stories about the training of Pilots and Observers in the R.C.A.F., under the British Commonwealth Air newspapers of Ontario and distributed through the C.W.N.A.

had to show its visitors. At Eglinton, the doctors, now disguised as Flying at targets with bursts of fire, eight to the temperature. Officers, carry on scietnific experi- fifteen bullets at a time. ments in low pressure chambers, attach electric wires to the skull to cold winds blow at 40 below zero.

Science and mathematics and inven- moved and replaced by dummy guns vals along them. At last, the railway tion have combined to produce the which shot a ray of light at a tiny station, factory or whatever the tarwonders that are kept locked up in German plane which moved against get happens to be, appears between two special buildings at the Bombing and a painted sky. A student was banging tiny pointers. The observer pulls a Gunnery school, but they have to do away at it, and every time he scored lever and the bomb starts on its way. with the arts of war and destruction, a hit a bell rang. Amusement parks It may be 20 seconds before it hits

the buildings and learned something desk indicated exactly what he was of the training methods. They mar- doing. of Fairey Battle bombing planes or up a seat and wedged me in like noticed the loads of small practice sardine in a can. Apparently I was a

problems arising from it: fuses and SPECIALIZED OCCUPATIONS carriers; use of flares; theory sighting machine guns; tracer bullets; of turrets, and aircraft recognition. That doesn't mean much to most of us, but it sounds like a heavy course Training Plan, written for the weekly of study to be mastered in six weeks.

Camera Guns Save Ammunition First practice with actual machine

test the brain waves, and send men gun turrets which give the British server watches the landscape through and materials into chambers where gunners an advantage early in the an eyeplece. He sees it apparently war. They were completely equipped moving down between two pairs of There's nothing like that at Jarvis. but the actual guns had been re- wires with colored beads at interrather than medicine and healing. have similar devices, without the tur- and another 10 before it explodes. After a convention in Hamilton in ret, which is the important part. The May, a group of editors and their young man at the camera guns was ladies spent an afternoon at a wings doing fairly well, scoring hits with parade at Jarvis School and they saw about half his shots. Dials on a nearby

velled at the beautifully furnished He finished and I climbed up inside recreation rooms. They had fleeting the turret. A table lowered over my glances of bomb-sights in the noses knees and a lever at my side brought



Fixing the Bombs in the Racks under the Wings of a Plane - Royal Canadian Air Force Photograph

bombs attached to the wings. They bit oversize to make a good gunner. saw the drogue planes come in and Five or six switches set the machindrop the drogues, or targets, riddled ery in motion and I looked through a with machine gun bullets and they small reflecting sight, already defelt grateful for an insight into the scribed in an earlier story. With my training of the student observers in left hand I worked a "stick" similar the R.C.A.F. and kindred Air Forces to those that control small planes. A

of the Empire. fraction of what the student sees. I was at Jarvis school with the for me. I got in a few shots, but I other editors in May. I returned in scored not a hit. into the mysteries of the bombsight, moved.

mazed me. Difficult Course of Studies

School. After a cordial welcome, he in shape and about eight feet long. turned me over to Flying Officer G. T. Johnson, with instructions that I time in another plane of similar was to be shown everything and allowed to try out the various machines used in training. And Flying Officer Johnson literally carried out those instructions. If I didn't learn everything about bombing and the use of machine guns, it was because one can't do that in an afternoon.

the course of study together. It was like the curriculum of a university course in engineering, with its various formulae and its applied mathematics. I wondered that students could pick it up unless they had been particularly good in mathematics in their high school days, but the Flying Officer said that few failed. Those who did not understand the theories could memorize the formulae.

Study included the theory bombing; trajectory angles, use the Vector attachment for bomb- tended. They tend to increase in size, targets; setting bombsights; low and explode on contact; others go through high level bombing; wind drift and the roof and explode inside the build-

touch of my thumb on a button on Really what they saw was only a top of the lever started the machine gun. But the mechanism was too fast

August and was admitted to the Another turret was of somewhat various buildings where the doors are different pattern. Handle-bars like kept locked and few are privileged those on a bicycle controlled the to enter. I was allowed to use the motion-a turn to right or left made power driven machine gun turrets of the turret turn and by lifting up or actual fighting planes; I was initiated pressing down, the machine gun was

as far as was possible in an hour or Actual practice with machine guns 50; I was offered a flight with one of is carried out over Lake Erie. The the machine gunners out over the planes used are Fairey Battles, used water of nearby Lake Erie, and I saw earlier in the war as medium bombthe inside workings of the "Bombing ers. Some are "drogue planes," paint-Teacher," a machine that literally a- ed with yellow and black stripes as a warning to other planes that they are trailing behind them a long steel Group Captain G. E. Wait is the wire. At the end of the wire dangles Commanding Officer at the Jarvis a drogue, or cloth target, cylindrical The machine gunners go up two at a make. An experienced pilot sits up in front, the two gunners side by side back near the tail, where it is rather bumpy. The planes follow a definite schedule, meeting the drogue plane out over the lake and firing in a certain area. Bullets in the machine guns are dipped in paint. Those fired by First, we went over the details of one gunner leave red holes; the other blue. That cuts the flights in half and requires less targets. The drogue plane circles back over the field and drops its drogue, releasing another at the end of the wire to take its place. Flights of the planes with the gunners take only about ten minutes.

Bombs and Bombsights Bombs and bombing have become important in this war. Much might be written about them. The bombs are of several types, depending on of the purpose for which they are inwhen aiming at moving weight and destructiveness. Some

ing or a ship. There are bombs that pierce armor before exploding. The bombs can be adjusted for various purposes, in nose and tail. Fombs are carried on racks, underneath the wings, inside the fusilage or in other places, depending on the type of the bombing plane. They are released electrically by pulling a little lever.

Much has been heard about bomb sights in recent months. The bombsight is an elaborate instrument used to ensure that the bomb will land on or near the target. In the early days cannon guns; gunnery tactics; types of the last great war, bombs were simply dropped over the edge by the pilot. Planes moved slowly and fairly low. Even at that, many of these first bombs probably landed a mile from the place that they were intended to

A modern bombsight is a most com-Until I visited the Jarvis Bombing guns is on the 25-yard range. Vickers plicated instrument. There are some and Gunnery School, I had supposed guns are used there, though they are ten adjustments. Not only the height that the Initial Training School at now out-dated and Brownings are of the plane above the ground, the Eglinton was the most interesting used for more advanced work. The speed at which it is traveling, the place the Royal Canadian Air Force machine gunners stand inside a long direction and velocity of the wind building, open at the front, and shoot affect the fall of the bomb, but ever

The bombsight is covered with Inside another building, in separate knobs and dials and scales. When rooms, are power operated machine all these have been adjusted, the Ob-

The Bombing "Teacher" Students learn to operate the bombsight with the aid of a "teacher" which is one of the most interesting and ingenious machines I ever saw. It is contained in a specially built three-storey building and kept locked.

I watched Flying Officer Johnson adjust the bombsight, after drawing lines across the face of its compass and making calculations. Then I lay on my stomach and looked through the sights. We were in the gallery of the building. Upstairs, intricate projectors, designed by a British inventor, adjusted for altitude, wind speed and so on, ground away. Down below me, the landscape of the enemy country moved past. I could see its farms, the towns and cities, the line of the coast. I chose a factory in the distance, watched it come down between the wires and as it reached the pointer, pulled the trigger. For some twenty seconds, the time it took that bomb to drop, the scenery moved past. Then it stopped and a white light showed where the bomb had

landed. Actual bombing is done over Lake Erie. Small practice bombs, attached under the wings of the Fairey Battle are aimed at a red raft from heights well over a mile. A puff of smoke goes up as the bomb hits the water Observers on shore watch the puffs of smoke, use some simple trigonometry, and plot the places where the bombs drop. The student marks where he thought they went. The best target hangs in the conference room. Over it is a sign: "Beat this! and yours will hang here instead." Also, no doubt, the owner of the target will head his class at the next

wings parade. THE END

FALL FAIR DATES

| Toronto (Canadiar | National |
|-------------------------------|--------------------------|
| Exhibition) | Aug. 22-Sept. 6 |
| Elmira | Aug. 29-Sept. 1 |
| Elmira Durham Tavistock | Sept. 4-5 |
| Tavistock | Sept. 5-6 |
| Almonte | Sept. 8-10 Sept. 8-10 |
| Belleville | Sept. 8-10 |
| BRAMPTON | Sept. 9-10 |
| FERGUS | Sept. 11-12 |
| Hanover | Sept. 11-12 |
| Midland | ochr. 11-19 |
| Milverton | Sept. 11-12 |
| Milverton GEORGETOWN | Sept. 12 and 13 |
| New Hamburg Tillsonburg | Sept. 12-13 |
| Tillsonburg | Sept. 8-10 |
| Wiarton | Sept. 11-12 |
| Alliston | Sept. 18-19 |
| Darrie | Sept. 15-17 |
| Bracebridge | Sept. 18-19 |
| Coldwater | Sept. 17-18 |
| GALT | Sept. 18-20 |
| Listowel | Sept. 17-18 |
| Markdale | Sept. 18-19 |
| Mildmay | Sept. 16-17 |
| Mount Forest | Sept. 18-19 |
| Palmerston | Sept. 19-20 |
| Stratford | Sept. 15-17 |
| Thorold | Bept. 16-17 |
| | Sept. 25-27 |
| Collingwood | Sept. 22-24 |
| Grand Valley | Sept. 26-21 |
| Mitchell | Sept. 23-24 |
| Owen Sound | Sept. 27-30 |

Treasurer's Sale of Land for Taxes Township of Esquesing **County of Halton**

TO WIT:

BY VIRTUE of a Warrant issued by the Reeve of the Township of Esquesing bearing date the fifth day of May, 1941, a sale of lands in arrears of taxes in the Township of Esquesing will be held at the Council Chamber in the Vilage of Stewarttown at the hour of ten o'clock in the forenoon on the Eleventh day of October, 1941, unless the taxes and costs are sooner paid.

NOTICE IS HEREBY GIVEN that the list of lands for sale th arrears of taxes has been prepared, that copies of the said list may be had at my office, that the list of all lands for sale for arrears of taxes is being published in The Ontario Gazette on July 5th, August 2nd, and September 6th, 1941, and that in default of payment of taxes and costs the lands will be sold for the said taxes and costs.

NORMAN R. THOMPSON

William Foster Died Suddenly in Toronto

SPENT MOST OF LIFE IN CHEL-TENHAM DISTRICT

A resident of Cheltenham and Acton for many years, William Foster passed away suddenly at his home, 74 Deleware Avenue, Toronto, on Monday, August 11th, from a heart attack. He was in his 70th year. He was born on the 5th line west,

Chinguacousy, and was a son of the late Thomas Foster and Sarah Tushingham Foster. For many years he managed a stone quarry on-his farm

val Station.

former Jennie Sharpe, eight daughters Brampton. lough (Mildred), Guelph; Mrs. Char- Hugh Caldwell and Silas Clarridge. ham, Dorothy and Georgina at home. Cheltenham Cemetery. Also surviving are Tour sisters: Mrs. Allen McPherson, Acton; Mrs. Barah Ferguson, Stouffville: Mrs. William Sharpe, Cheltenham, and Mrs. James Sharpe, Campbell's Cross, and six birdie." grandchildren.

day, August 13th, with a private ser- plate."

at Cheltenham. He later moved to Ac- vice at the Meyers-Elliott Funeral ton, and prior to moving to Toronto six Parlours, Toronto, conducted by Rev. years ago, he operated a farm at Nor- | L. I. Hunter, followed by a public service at Cheltenham United Church. He is survived by his widow, the conducted by Rev. Norman Moleod.

and a son. One son, Roy, predeceased | Many beautiful floral tributes markhim three years ago in March. The ed the high esteem in which Mr. Forfamily are: Mrs. Martha Shaw, To- ter was held. The Cheltenham Unitronto; Mrs. George Burt (Pearl), ed Church choir sang during the ser-Georgetown; Mrs. Thomas Lock (Flor-vice. The pallbearers were six very ence), Toronto: Mrs. Edward Lucy dear friends: Thomas Lyons, W. H. (Daisy), Toronto; Mrs. Allan McCul- Henry, William Fraser, George Harris, les Flint (Verna), Toronto; Tushing- Interment was in the family plot in

Photographer: "Watch and see Modern child: 'Pay attention to The funeral was held on Wednes- your exposure or you'll ruin the



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