NATURE NOTE During the course of the botany lesson the teacher asked if any boy knew why the leaves turn red in the autumn. Up popped an eager hand. "Well, Wilks?" asked the master

encouragingly. "Please, sir, they're blushing to think how green they have been all the summer."

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Initial Training School Full Of Scientific Marvels

One of a series of articles on the old Hunt Club never dreamed of the Royal Canadian Air Force, written scientific wonders it would one day specially for the Weekly Papers of contain. Testing Brain Waves

After a brief call at the office

of Squadron Leader McPherson, off-

personally through the building

the strain of flying and fighting

As we started down the hall, we

ance was startling. He looked as

wires hung down from his head.

Two of them seemed to be soldered

to the top of his head, in among

hair had been shaved off and the

wires attached at important points.

Dr. Stewart explained that the two

in front were over the part of the

brain controlling muscular co-ordin-

ation and the two on the neck in-

dicated the place where the optic

nerves entered the brain. The one

on the ear was just a ground wire.

By using a complicated electrical

machine, it was possible to measure

the brain waves of the man who

now looked like something that had

wandered out of a cartoon comed.

to enter a small room and lie quiet-

ly on a bed. The wires were at-

tached to binding posts on the wall.

He was told that he wasn't to think

of anything exciting, such as an ev-

ening with his best girl, but to try

to come as near as possible to think-

Out in the next room, the Flight

Lieutenant touched a switch. A

broad ribbon of white paper began

to creep over a table. On it were

four wavy lines, drawn by pens ac-

tuated by the wires from the head

of the man whom I could see

through the window, lying peace

This patient was normal. The

wavy lines had no sudden variations.

His electro-encephalogram showed

that he had passed one more test.

the black line takes a jump to one

side. An aircraftman with a record

like that may take a fit up in the

on that one test alone, but the

chances are that the time and ex-

wasted, so when he shows other

symptoms as well, he is finished as

Low Pressure and Oxygen

drical structure stood in the centre

tom of a silo. The outside was re-

Dr. Stewart opened a door and

we entered a circular room, lined

with burlap. Seats for ten persons

ran around the sides and in the

centre was a table with a chair

This strange room is used to test

the ability to stand high altitudes

where air gets thin and oxygen

scarce. Usually a class of ten takes

the test at once, with a doctor keep-

ing watch through the window from

outside and giving instructions

through a loud-speaker, while another doctor sits at the centre table.

The officer on the outside manipu-

lates valves and the air is gradually

drawn out. Indicators shows the

altitude at which the air is similar

to that inside the circular room,

5000 feet above sea level, 10000 feet,

There is no particular sensation

felt by the person inside the tank,

but above 10,000 feet, or two miles.

15,000 or more.

margin of error rises.

where the doctor sat.

In the wext room, a large cylin-

A few are abnormal. Suddenly

ing about nothing at all.

fully on the bed.

The young aircraftman was told

By HUGH TEMPLIN

"Were you planning to visit the icer in command at No. 1, I.T.S., I Initial Training School at Eglin- went to the office of Flight Lieuton?" asked Flying Officer Nicol, tenant C. B. Stewart. This brilliant our guide whose duty for the time young doctor, a graduate of Dalbeing was to get us past the sen- housie University in the Maritimes, tries and the barrier gates and ex- is carrying on Dr. Banting's work, plain what the Royal Canadian Air but he took time off to guide me Force was doing.

I said I hadn't thought of it: my where the aircraftmen are tested, desire was to get on to the camps mentally and physically, to see where there was actual flying just whether they will be able to stand as quickly as possible.

Flying Officer Nicol thought that five miles above the earth. would be a mistake. In his opinion, the Initial Training School was met a young man whose appearthe most interesting place of them all. It was customary to take dis- though he had just come from the tinguished American visitors up to hands of an electrician. Five long Eglinton just to let them look around and see for themselves that there were certain things in Canada which Uncle Sam's Air Force didn't his hair, two more were attached to have. Walter Lippmann, the col- the back of his neck and one hung umnist, had been there just a few from his left ear. Little patches of days earlier.

My guide was right, as usual. It I had missed the Number One Initial Training School, I would never have realized just how thorough is the early testing of the young men who are destined to become fighting pilots and observers.

Carrying on Sir Frederick's Work It is generally known that when Sir Frederick Banting died in a plane crash in Newfoundland, he was on his way to England to carry on his scientific work for the Air Force. His death did not stop that work. It began at the Banting Institute at the University of Toronto, and since last November, it has been continued in the buildings which formerly belonged to the Eglinton Hunt Club in North To-

The Eglinton Hunt Club used to be a favorite resort of Toronto society, and the kind of place where a village editor would hardly expect to find himself. Inside th main building is a big arena, large enough for a game of polo and ideal now, since the seats have been taken out, as an indoor drill ground. There are class-rooms where dance floors used to be, for the students at the Initial Training School are already studying a stiff course of higher mathematics, armament, signals, sanitation and navigation. It is easy to see why matriculation standing or better is a necessity for every aspiring pilot. air some day. He won't be rejected

I looked over the lay-out admiringly. Even though it had been toned down to make it useful rather than beautiful, signs of its for- pense of training him would be mer magnificence were apparent.

"This must have been a swank; place in the old days," I suggested. a pilot. Flying Officer Nicol used to be another working newspaper man. "I wouldn't know," he said. "My dues in the Hunt Club weren't kept up of the room. It looked like the botvery well."

When the land and buildings were inforced with steel and planking and purchased, there were questions in large metal pipes ran around it. A Parliament and suggestions that porthole of heavy glass was built they had been bought to help out on one side and there was a desk an organization which was about to with a microphone near the winpass out of existence. I don't know dow. anything about the truth or otherwise, but the people who built the

oxygen mask is fitted over the nose and mouth. A tube hergs down from it and the end of this is plugged into a small pipe which runs around the inside of the wall. With a supply of oxygen available, the tests show normal brain operation no matter how high the pilot may "fly." It is an impressive les son, thoroughly taught.

43 Degrees Below Zero

I wondered what would happen next as Dr. Stewart led me into another room. Young men were climbing out of flying suits of various types, and hanging them on hooks along the wall. Equipment, as well as men, must stand the

The Flight Lieutenant opened a door similar to those on large refrigerators and we entered a cold chamber. The temperature there was said to be 20 above zero, but we didn't stay long, going on into a second and a third, through large insulated doors each time. The second refrigerator chamber was kept about zero and the third at 20 below. In ordinary summer clothes, it began to feel chilly, but such temperatures are encountered in high flying.

In the third refrigerator room, there was a metal chamber, some what like a large concrete mixer, coated outside with an asbestos compound. My guide unscrewed a circular door like a big porthole and the two of us climbed inside. There was only room for two at a time there, and a cold artificial wind blew continually. Dr. Stewart pointed to a thermometer, which registered 43 degrees below zero, a temperature encountered four or ve miles above the earth. It is possible to exhaust the air from this chamber also.

We did not stay long. As we came out again through the various chambers, even zero temperature felt

Next Week-The Link Trainer.

A Negro minister was caught hugging one of the sisters of his flock, and a church inquiry was called. Witnesses testified, and the minister confessed, but defended his actions as proper.

He maintained that as pastor of the flock he had a perfect right to take one of his lambs in his arms. When the inquiry was finished, a brother offered a resolution:

"We excuse Brother Johnson from all blame, but hereafter when he wants to take one of his lambs in his arms we suggest that he select a ram lamb.

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the nails turn a bluish tinge, which is also apparent in the lips. The brain seems unimpaired, but that is an illusion. To prove this, the airs craftmen are given simple little problems to do - to change a sentence into a common code, or something of the kind. Like a car driver with a few drinks, who thinks he can drive as well as ever, they don't know they are making mistakes. As the air is exhausted, the

Another test follows. A rubber

sage" between Vancouver and in these tours.

series of 9-day cruises from Van- symbols of Indian life.

the energies of Alaska-bound port. The B.C. coast service will Island are also scheduled for the prospectors, today has an alter- also operate three 11-day cruises current season between Victoria native and more attractive route, to Alaska, allowing for side trips and Port Alice. These popular served not by dog-sled, but by by rail and lake from Skagway to cruises offer the passenger eight luxury steamships of the Cana- Lake Bennett, Whitehorse and days of splendid coastal scenery dian Pacific coast fleet, and fol- West Taku Arm. The cruise liner with regular stop-overs at quaint lowing the sheltered "Inside Pas- | "Princess Charlotte" will feature | Indian fishing villages. Two

Skagway. These trim liners, From comfy deck chairs, today's "Sunset Cruise" service from June whose sister ships ply the "Tri- northbound nomad is treated to a 1 to September 21. angle Route" between Vancouver, moving pageant of majestic gla- | Life on a Canadian Pacific coast Victoria and Seattle, and cruise ciers, towering peaks, and rock- vessel is fashioned after that of the west coast of Vancouver bound fjords. Adventure waits at an ocean liner. Deck tennis, Island, bring the "Midnight Sun" every port of call. Alert Bay, shuffleboard, morning bouillon, within three days of Vancouver. | Prince Rupert, Ketchikan, Wran- afternoon tea, horse racing, dau-Commencing May 2 and effec- gell and Juneau follow in colorfui ces, moonlight promenades on tive till Sept. 30, three smart succession, each with its weird deck, and midnight snacks all "Princess" liners will conduct a array of totem poles and other contribute to the joys of ship-

The Trail of '98 that once taxed | hour stop-over at the Alaskan | along the west coast of Vancouver Canadian Pacific liners will be in

board life on a Canadian Pacific

couver to Skagway, with a 33- Picturesque "Sunset Cruises" "Princess" liner.

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