

ENGLAND'S AVIATION STRATEGISTS



(c) Underwood & Underwood.

Here are the men who are directing the movements of Great Britain's aviation corps in the present war. Claude Grahame White (center) is in supreme charge. Lieutenant Porte (right), who was to have attempted flight across the Atlantic in the America had not the war broken out, is one of Grahame White's most valued advisers.

EYE WITNESS DESCRIBES HORRORS OF WAR ON THE EUROPEAN BATTLEFIELDS

Paris.—The almost indescribable horror of the battlefield is suggested by a correspondent who followed in the wake of the armies as they drew away from Paris. Newspaper men are rigorously excluded from the region where fighting is or has recently been going on. But this particular correspondent was invited by a Red Cross surgeon to accompany him on a visit to the theater of activities.

"The most awful carnage in the world's history has strewn the battle region east and northeast of Paris with countless thousands of rotting French, English and German corpses and disemboweled carcasses of horses," the correspondent writes. "During an automobile tour I have just made of the vast battlefield between Marne and the Aisne I have seen evidence of the pitiless character of modern warfare far more appalling than the most morbid imagination could picture."

"So pitifully horrible is the scene that it is probably principally with the object of preventing descriptions becoming public and making the whole world shudder that the French military chiefs so rigorously exclude war correspondents from the region."

"At an amazingly short distance from Paris, six days after the fighting, bodies are piled on the roadside in heaps, at the side of which stands a soldier with bayonet fixed. Further out bodies lie in all conceivable positions in ditches and fields.

"The air of these fields is overpowering. The dead are being buried as hastily as possible; but the battle carnage is so terrific it is impossible to keep time with the continuous slaughter.

"Near Compiègne I saw pickets feverishly packing their comrades' bodies beneath the ground. Packing is the only word for it. Trenches 150 yards long are dug in meadows. The bodies, each resting on its side, are then tightly packed like sardines throughout the length. Above them are placed another row of corpses laid on their backs. The trenches are then covered in. All passersby see in the fields are streaks of fresh earth, each one meaning 300 bodies more or less."

"How appalling has been the toll of guns last week is vividly shown by the immense number of these ghastly slashes in soil to be seen within two or three hours' automobile run of Paris.

"The grave diggers make a long ditch in the middle of the meadow, then collect all the dead soldiers lying within 200 or 300 yards, then move 400 or 500 yards away, making a new ditch. Each long ditch therefore contains those killed within a circle radiating from 300 to 400 yards from the common grave.

"The only preparation of the bodies for the grave was to remove the little tag containing a number worn around the neck of each soldier. These are collected together and sent to the headquarters of each brigade every day.

"The dead soldier is only a number, but his name is thus ascertained, and in the official reports of casualties the distinction made between the dead and 'missing.' Names not answering to roll call after each day's battle are accounted for as missing, unless the name and number has turned up in some of the field hospitals.

"Familiarity with these acres and acres of common graves along the beautiful valleys of the Marne, the Oise and the Aisne soon breeds indifference. After traveling for miles along roads literally lined with bodies, many still in positions occupied at the time death overtook them—one begins to grow callous. Not only men, but women, even society women, acting as nurses, become inured, and when firing ceases grope among heaps of bodies for wounded without flinching.

"While many of the wounds are too ghastly for description thousands of Germans are found lifeless, bearing no flesh wounds, still leaning in trenches with rifles at shoulders. Death in such cases is caused by the deadly gases emitted by chlorine shells."

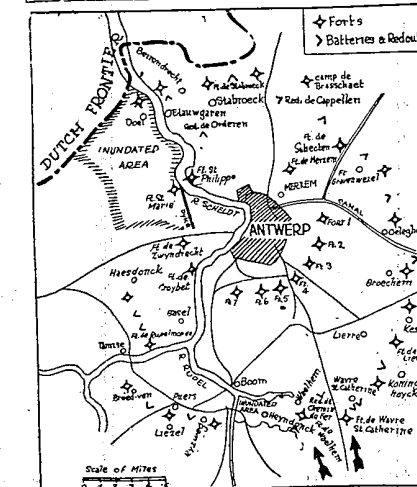
To Encourage Marriage.

Quick to realize, as did Germany, the necessity of a high birth rate to offset the deaths due to the war, a movement has been started in England to reduce the marriage fees and to encourage soldiers and sailors to take wives before leaving for the front. The archbishop was the first subject to a London paper. In Germany a similar movement was inaugurated some time ago.

CHEAPER PROTEIN FOODS

The steady rise in the price of beef leads the Journal of American Medical Association to point out that beef is not necessary in a well-balanced ration.

MAP SHOWS ANTWERP'S FORTIFICATIONS



In the above map are shown the forts that surround Antwerp. Arrows indicate the points of the most severe German attack.

SIGHT BY WIRELESS LATEST INVENTION

You May See Your Girl, Though Many Miles Away From Her

TELEPHONE FOR THE EYE

As Voice Sounds Are Transmitted So May Be Light Gradations.

London.—The annihilation of space by the wonders of modern science has been carried a step forward by the latest scientific discovery. What the telephone has done in the transmission of sound is now equaled by an invention for the transmission of light by wire.

The new invention enables the image of any object to be transmitted and reproduced before the eyes of a spectator miles away, just as the telephone transmits and reproduces the tones of the voice.

The inventor, Dr. M. A. Low, a London consulting engineer, has given a short description of the apparatus and method of the new wonder. The transmitter is a screen composed of cells of selenium, the electrical resistance of which varies according to the light that touches it. Over this screen there passes a synchronously running roller consisting of a number of pieces which are alternating conductors and insulators.

The roller is driven by a motor of 2,000 revolutions a minute, and the resulting variations of light are transmitted along an ordinarily conducting wire. The receiver is made up of a series of cells operated by the pastats of steel and at this receiver the object which is before the transmitter is reproduced as a floating image. The process is described as a "kine-electrical principle." The system has been tested through a resistance equivalent to a distance of four miles, but in the opinion of Dr. Low there is no reason why it should not be equally effective over far greater distances.

"The tones of the human voice, of which there are hundreds of gradations," says Dr. Low, "can be reproduced by wireless telephony. The tones of light are far simpler than those of sound, and it should be possible to devise a wireless means of transmission. I will comment on the prophesy that in fifty years the people will look back with wonder at the days when it was necessary to be at a person's side in order to see him. When this day arrives consider how it will show the conditions of warfare. Imagine the altered methods of military operations when you can see what is happening miles away."

At present the image reproduced is of the size which the eye of a camera would take. It shows variations of light and shade somewhat in the degree of a half-tone block, but it does not reproduce color.

Dr. Low is well-known in London as a consulting engineer and has engaged in laboratory research for the Government. A number of inventions high pressure motor and a high-pressure petrol engine. The experiments in connection with light by wire have extended over five years.

In the transmitting screen selenium may be replaced by any diamagnetic material. The cost of the apparatus is considerable, as the conductive section of the roller are made of platinum.

HER BABY'S FIRST TEETH COST MOTHER A FINGER

Excitement Over Discovery in Child's Mouth Proves Costly to Both Parents.

Bennville, Ark.—The excitement following the discovery of their baby's first tooth cost Martin Stickley \$50 and his wife one finger of her left hand. When Mrs. Stickley discovered two teeth in her child's mouth, she thrust her finger on them in a hasty examination. She found that the infant knew what the teeth were for, for the little fellow sank them into his mother's finger.

The slight wound was not given any serious consideration until ten hours later when Mrs. Stickley began to suffer great pain. A physician was summoned. He amputated the finger and left a bill of \$50 for the operation and trip.

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