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## PRECEDENTS FOR WARFARE BY GAS

GERMAN PROFESSOR DIGS BACK INTO THE PAST.

Idea of Using Chemicals to Destroy Enemy Is Almost as Old as War.

In the following article, translated from a German paper, a German professor, Dr. Albert Neuberger, traces the history of past attempts to use poison-gas in war. Quietly ignoring the moral aspect of the question and the fact that modern nations, including Germany, had pledged themselves to refrain from such methods, he disquisitions them, under color of a learned recognized military uses of chemistry, thus tacitly attempting to justify the revival of former barbarities. That he is conscious of the moral guilt of this revival is shown by his efforts to shift the responsibility on the French.

Dr. Neuberger writes as follows: "The idea of destroying the enemy by chemical substances is almost as ancient as warfare itself. At first, of course, its mode of application was of a concomitant feature of the chemical process which we call 'oxidation.' It indicates to us that a substance is combining with the oxygen of the atmosphere. Hence the use of any incendiary medium is a kind of 'chemical attack.' In the earliest ages, people meditated how to destroy the enemy's dwelling-places or fortifications by fire caused from a distance. It is true that Homer was not acquainted with this mode of chemical attack from a distance, but it made its appearance as early as in the Fifth Century before Christ.

Back in 360 B.C. "About 360 B.C. Aeneas described fire-compositions formed of various chemical substances to make them easily ignitable and hard to extinguish. They consisted of pitch, sulphur, tow, resin, and resinous wood-chips. The compound was put into pots, which were thrown, burned, from besieged towns upon the 'tortoise' or shelter under which the besiegers tried to approach the walls. Later on, incendiary arrows came into use, being shot from a distance against the wooden structures of the opponent in order to set them on fire. The incendiary arrows were subsequently enlarged, so that they were even shot from catapults. These incendiary arrows were called, in the Roman Army, 'fuliginaria.' They were provided, in water, generated heat which, on its part, developed substance. But the light hydrocarbons disengaged from the evaporating petroleum, more especially benzene, formed, with air, an explosive mixture. Thus explosions took place and enormous clouds of smoke and soot were developed. Then the sulphur also caught fire, and in its combustion formed a gas of very highly asphyxiating action—viz., sulphurous

## AN OPEN LETTER National Duty in War

From a Well Known Methodist Clergyman of Interest to All Who Are Sick.

London, Sept. 22.—The events of the past three months make it necessary to demonstrate further how great is the effort which lies before us, if liberty is to be saved in Europe. Now that Russia has been forced to evacuate not only Galicia, but Poland, every citizen of the Empire must be able to see for himself that the war is likely to be a very long business indeed, and that the cause of liberty will triumph only if we put forth our whole strength. Germany has produced no Napoleon. But in the forty years that the General Staff has spent in working out the theory of the conquest of Europe she has created a military system and a national organization unequalled by any other of the Allies. By comparison, we are all somewhat amenable, our courage and endurance, our numbers rather than by our superiority in generalship that we must reckon to win the war.

It is recently widely fully realized these facts. In consequence a national duty to approach the problem of or else subordination to the conditions and contingencies of peace, to the satisfaction of which is the root cause of the dissatisfaction and unrest which have political in the last few months. In the spirit of the spirit and bravery of the individual have been beyond all praise. The figures for voluntary enlistment, the endurance and courage of officers and men by land and sea, the long hours spent by workers, male and female, in factory and workshop producing munitions of war, are an answer, final and conclusive, to the charge of degeneration in the national stock. Nor have our actual performances in the field fallen short of what either we ourselves or our Allied probably have been impossible by any other method, to have produced a larger army, better trained and better equipped, and of better material, in so short a time. The task of our fleet has been discharged with a silent efficiency that people are inclined to forget that it may yet be the most decisive achievement of the national defence, and that it has been some time in the making.

## HANDLING OF EXPLOSIVES.

Never, From First to Last, Let Light Come Near Powder.

So general is the interest at the present time in the question of explosives that some of the precautions necessary to be taken in handling them may be noted.

Only a quantity of wood, brass, or copper shall be used in opening cases containing explosives; never shall powder near a fire of any kind, or in hot water or steam, always through some medium of radiation, never by direct heat or contact; never put open or chilled powder; never put cap on a powder bag; never use boot-legs or scraps of powder; never keep explosives in a damp place before loading; never force powder into a tight or caving hole; never lace a fuse through a stick of powder, this may crack the fuse and make a misfire; never use a lighted match to light a primer anywhere but on top of the stick in the hole; never blast until sure that every entrance to the face is completely sealed; never light a fuse until the charge has been thoroughly examined; never use a fuse directly over powder or caps; never get careless with powder; if it is manufactured to explode under certain conditions, and if it gets any chance at made for; keep it away from shock, sudden changes of temperature, fire,


## Must Talk to His Customers.

A barber's shop is sometimes a trying place for men who dislike to hear other people gossip. The barber, alone, must talk to his customers. In a country shop a full-bearded and rather sour-looking gentleman was seated in the chair. "Hair cut," said he. "All right, sir," returned the barber. "How'll you have it cut?" "Short." "Purty short, or middlin'?" "Very short." "Why wouldn't I if I was you, sir." "I don't think it. I don't think it. I don't think it." "Oh, yes it would. It would suit me exactly, I think." "Why do you think so, sir?" "Because I shouldn't have to come here for a long time." "Oh!" The barber cut away in expressive silence.

## Minaud's Liniment Cures Dandruff.

"Willie, is your father a rich man?" "No, Sallie; he is a professor, so I can be educated for nothing." Sallie: "That's all right; but my father is a minister, and I can be good for nothin'."

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## If Your Food Ferments or Disagrees Just Read This!

Thousands of broken-down, despondent dyspeptics have recently given back their health. A month ago these despairing folks would have scorned the suggestion that anything could help them. Their terrible condition was chronic, and appeared beyond the reach of medicine. These happy people don't proclaim it with a new lease of life—it was simply their common sense in selecting a tried and proven medicine, one specially adapted to their particular ailment. All these splendid cures were effected by Dr. Hamilton's Pills which beyond all question has a strange power to restore a weak or ailing stomach. If your stomach is tired and overworked, try Dr. Hamilton's Pills and note the prompt improvement. Pain before or after eating will disappear. You'll no longer have that nauseous, grassy, bad tasting sensation. You'll get a real vigorous appetite and digest what you eat. Lots of well digested food is bound to increase your strength, to make you brighter and more ambitious. In a week you'll feel like a different person, in a month you'll be permanently restored. For folks who are out of sorts, perhaps bothered with headaches or constipation,—to them Dr. Hamilton's Pills will prove a boon.

## A SCOTSMAN'S AWFUL FATE.

An Instance of the Refinement of German Barbarism.

On the great silent service of the British Army Medical and Red Cross work among the wounded heroes there is a fine article by the special correspondent of the London Morning Post. The following is an excerpt from it: "Then there was the little Scotsman. I saw him on his stretcher. This was back in the days of the Aisne. He and some dozen comrades had got out of an old farm and doggedly held out to the last. When their last cartridge was spent the Germans broke into the place, and despite a heroic hand-to-hand fight in the interior of the farm, crushed out the little band by weight of numbers.

"The boy was bayoneted all over and as a refinement of barbarism the Germans had his eyes put out. Yet, he still lived, how or why, or by what law of nature, the doctors confessed they did not know. When I saw him he had been made as comfortable as possible, but there was no hope. He was still able to tell his story, and asked in broad Doric: 'Gie's a cigarette.' But almost with the first swallow of the smoke his heart ceased to beat."

## Little Girl Looked At It.

A miserly landlord was going round collecting his rents the other day. At one house he was greatly interested in a little girl, who watched open-mouthed and open-eyed the business of paying and accepting the money, and started to search his pockets, saying: "I must see what I have for you." After searching his pockets for some time he at last brought from a pocket a peppermint. As he handed it to the girl he said: "And now, what will you do with that?" The little girl looked at it, then at him, and replied: "Wash it."

## Minaud's Liniment for sale everywhere.


His Wedding Suit.

One of the largest ready-made clothing houses in London received not long ago from the country a letter, the substance of which was: "What is the proper dress for a groom in the afternoon?" The clerk who opened the letter naturally referred the inquiry to the lively department. The head of that branch, in turn, dictated a brief reply, something like this: "Bottle-green coat, fawn-colored trousers, with top boots; silk hat, with cockade. Our prices are as follows, etc."

## REMEMBER! The ointment you put on your child's skin gets into the system just as surely as food the child eats.

Don't let impure fats and mineral coloring matter (such as many of the cheap ointments contain) get into your child's blood! Zam-Buk is purely herbal. No poisonous coloring. Use it always. 50c. Box of All Druggists and Stores.

USE ONLY **ZAM-BUK** FOR CHILDREN'S SORES



**TRUE BLUE—FROM GERMANY.**

The Secrets of Dye-making Are Hard to Discover.


It is a melancholy fact that the serge from which our naval officers' uniforms are made is dyed with German dye, says London Answers.

English cloth-makers are trying to remedy this state of affairs, but the secrets of dye-making are not to be discovered in a moment. The basis of the true blue dye—indigo—is at hand for all to use, but apparently something more than indigo is needed in order that the cloth treated shall be dyed evenly and permanently. With an inferior dye you merely produce a "spotty" cloth, of no commercial value.

So great is the scarcity of the right dye, that it is said there will be practically no blue serge by the autumn, except in the warehouses of tailors who have had the foresight to buy in advance of their needs. Already the price is up about fifty per cent.

When indigo was first introduced into Europe no one would have it. The Germans themselves said that it was the "devil's dye," and called it "pernicious, corrupt, and corrosive." Both the English and French authorities forbade people to use it. In England the prejudice against the new dye was so keen that commissioners were appointed to go round to all places where it was likely to be found and destroy it.

About half a ton of whalebone is obtained from one whale, its value being, roughly, \$5,000.



**DODD'S KIDNEY PILLS**

DR. J. C. DODD'S

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## MUSIC DESTROYS BRIDGES.

Measured Vibrations Particularly Trying to Suspension Bridges.

Does music weaken metallic or other bridges? This question recently asked of a well-known bridge builder brought this reply: "Measured vibrations are more trying to any kind of bridges, and particularly to suspension bridges, than irregular agitation. Music alone would not strain a bridge enough to injure it materially, but a regiment of troops keeping step to music when crossing a suspension bridge would subject it to a very severe strain. Consequently, it is customary to stop the music before troops reach the bridge, and let the men break step, and march more or less irregularly. The reason for all this is obvious. The structure naturally will suffer least strain when at rest. When in motion the bridge acquires a momentum equal to its entire suspended weight multiplied by the velocity of the motion. It is manifest that, in the case of a heavy structure, ever so small, would develop a momentum of many tons in the direction of a breaking strain. The same disturbing forces acting irregularly, so as to counteract one another, would be far less trying to the structure."

## Minaud's Liniment Relieves Neuralgia.

Judge—"What is your name?" Prisoner—"I've forgotten the name I gave last night." Judge—"Didn't you give your own name?" Prisoner—"No, your worship; I'm travelling inco!"

## MOTHERS

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