YORK, S. C., TUESDAY, OCTOBER 29, 1918.

## ESTABLISHED 1855

MOST PERFECT GAS MASK American Product Twenty Times Bet-

ter Than German. PEACH STONES ARE REAL LIFE SAVERS

The Terrible German Poison Was too Much for the British and French; But American Chemists Quickly Prove Equal to the Task of Circum venting Any Deviltry the Enemy

Chemists Can Hatch Up. The reason why the pits of ston fruits and the shells of nuts are good material for gas-masks is simply because when converted into charcoal, they are found to absorb a larger percharcoal made from woody matter of of the offensive have been utterly fucentage of the poisonous gases than the other kinds. It is easy to provide chemical that will neutralize one par ticular gas, but when the familiar fifty-seven varieties are outnumbered by the products of the German gas factories, it becomes necessary to carry special mask for each or to discard the idea of chemical neutralization and a lopt another that will take care of all gases alike, which is what has been done in the selection of porous varie ties of charcoal. Says a writer in The Scientific American (New York, Octo

"Early in the use of gas, before the full possibilities of the attack were recognized, the attempt was made to supply the wearer of the mask with a sep arate reagent for each separate gas employed by the foe. But as the number of gases available for the attack increased, it became evident that this procedure had decided limits. . . So the defense was directed into an other channel, and a single universal reagent was sought-a substance which, placed in the mask, would react with any poison-gas that might be encountered, but would pass pure air without any alteration.

"Now this is a pretty large order and complete attainment is doubtles out of the question. But the chemist has a resource which we have not yet touched. In order to secure protection against the hostile gases, the substance in the mask need not necessarily react chemically with these, in the ordinary sense of that word. It will be quitsufficient if they absorb them. . . There are various substances which possess in greater or less degree this power of absorbing gases- the plati-

num sponge employed in the manufacture of sulphuric acid is an example raised to the nth power. But not all successful. of them can be induced to omit from nicely. It does not absorb air, and it does absorb other gases freely.

"But charcoal occurs in various forms, according to the particular vegctable source from which it is manu factured; and the various forms posseas varying degrees of gas absorptivity. After exhaustive tests the chemto charcoal produced from peach stones, the pits of apricots, prunes, plums, olives, and cherries, date seeds, and the shells of Brazil-nuts, hickory nuts, walnuts, and butternuts. What tomorrow may bring forth in gas mask manufacture no man can say, for the last thing that a chemist would think of doing would be sitting down with his hands crossed, in confidence that the final word had been written in any of his chapters; but today we make our gas masks with charcoal from the sources mentioned.

"For every soldier in the fight there has to be a gas mask. Four million soldiers does not mean four million ary air was that steep, bristling hill gas masks, because all the four million are not destined for actual fighting. It was the hill the French call Montand because those who are so destined are not all fighting at once. But every mask takes seven pounds of seeds and of the fairest and most fruitful vineshells and a million masks-a reasona ble minimum-means seven million pounds of the raw materials. Thirtyfive hundred tons of fruit pits and nut the four years of their unwelcome tenshells is a great quantity; it is a quantity that can not be obtained except by the co-operation of every consumer of tar in the line from Switzerland to the nuts and fruits. It is for this reason that the government has appealed to even to surround and take it from the all of us to save these items out of the garbage pail and turn them over to the knew very well, be a most bloody task Red Cross agent who will collect them Others shells and pits would constitut adulteration, and so must not be min- the disemboweled old hill could easily gled with the ones enumerated. Espe cial emphasis might well be placed upon this clause, as it applies to co coanut shells; for these are being con served, too, for gas mask manufacture. The charcoal from them is available: other sources, and requires different treatment; so the cocoanut shells mus

be kept separate. "The process of manufacturing the gas masks would make a most interesting story; but during the continu ance of the war it is of course a story which cannot be told. It is clear and Montsec, and four blinking rabenough that the pits and shells must bits, penned against a shortage in rabe collected and burned into charcoal tions in furnaces of a standard type; and the enemy will hardly get much aid or comfort from the knowledge that be- as the Germans made of the famous fore the unit containing the charcoal is allowed to go into a mask it is subjected to a severe preliminary test, to determine whether its charcoal screen this picture and story can not go far

about the inspection of the finished masks. This is done by a specially selected force; and since a mask one passed by this force will not be tested again until some American soldier puts pantries, some as arsenals. Tunnels things that he does. It has been it on in the face of a gas attack, every effort is made to keep the inspecttimes this may even be carried to ex- against the chance observer. You to burn, seemingly without any cause, the death of one of our boys in khaki from the ground. that she lost five pounds a week for an incredible period, and had finally ters, with ammunition, guns and food healthy herd on the adjoining farm to give up the work to some one whose supplies, boasting, besides its signal and several hundred pounds of pork mental processes were less intimately points, a fine wireless station, supplied lost by this overnight journey. Bubconnected with physical reactions, with water and electric light brought onic plague, that most deadly of hu-We are also told that as an induce- from afar, Montsec was as self-sup- man diseases, is spread by this same

a mask selected at random from those

which he has passed himself." It is reassuring to know that in the attles now raging, our boys are equiped with gas-masks twenty times as efficient as the German ones. Says an authorized statement given out by the war department and published in the daily press of October 6:

"German forces opposed to th steady advance of the American line on the Lorraine front have brought into play every method of defense considered effective in modern warfare They are making a particularly heavy use of poison gas. Pershing's men have been unceasingly bombarded with mustard shells, and every effort has been made to drench the American advanced positions with deadly fumes. It is a remarkable tribute to the chemical warfare work in the United States that these efforts to block the progress

"The American attacking forces are protected against gas by masks which actual field tests prove give twenty times the protection afforded by Ger man gas masks. There is not, as a of an American falling victim to a gasattack when protected by the mask that is now being manufactured in the nited States on a vast quantity basis

"Fortunately, every American soldier who goes to France is a gas mask expert. He has been trained to adjust his 'land preservers' with almost incredible speed. The mask is put on hands. The man who fails to accomplish the feat within a time limit of six seconds is left behind when his unit zoes to the front.

"Recently, in a practice drill, one ompany of American fighting men set a record of four seconds from the time the order was given to the final adjustment by the slowest man.

"It is an interesting fact that Amercan gas masks stand up under tests that German masks can not meet German masks will not give protection against a high concentration of gas. This was demonstrated recently when the British assembled a sufficiently large battery of projectors to put sev enty tons of phosgene gas into the air at once, with consequences quite well known to the German general staff There is no concentration of gas that American masks will not defy. This has been proved, not only on the battlefield, but in the experimental station in this country, where determined attempts to break down the resistance of United States army masks by heavy gas concentrations were absolutely un-

"The American gas mask was devel their sphere of influence air, the com- oped by actual manufacture. The monest of all gaseous media, and the proper authorities obtained complete one which must receive free passage information about the French and through the gas mask. Carbon, how- British masks and full data as to the ever, and in particular carbon in the efficiency they demonstrated under the form of charcoal, meets the situation German gas attacks. Armed with this knowledge, an order for the making of several thousand masks was placed in this country. Members of the force of 300 officers and 2,000 enlisted men who are responsible for the production of this modern weapon of defense showed the courage of their convictions by volunteering for experiments. hey donned the masks and exposed themselves to actual gas attacks. Fron time to time American ingenuity and inventive genius suggested improvements in the original methods. As a result, the officers of our Allies are frank in the admission that the American mask is the best on the western

## MONTSEC HILL.

It Was Impregnable, But Was Surren dered Without Defense.

As the first Yanks to take posses there swept with their field glasses the devastated land before them, what rose ominous to the eye in the clear Januome four kilometers to the northwest sec, because its abrupt crest rises dry and sandy from what used to be one yards in all Lorraine.

Montsec, with its 330 meters, was forbidding enough in itself. Through ancy, the Germans had so fortified and armored it that it rose a very Gibral-

sea. To storm it from the front or rear would, the newly arrived Yankees if the assailants were stubbornly and heroically met by such a garrison as shelter.

Yet in the early morning of Septem ber 12 the Yankee troops, sweeping nonchantly past the hill, learned from their equally nonchalant French friends on the left that a reconnoiter but it is different from that from the ing squad had mounted Montsec with carelessly slung Rosalies.

It had found the gun pits deserted the tunnels echoing hollowly, the observation posts abandoned. It had found no living creature on all Montsec, save one affable internationalist setter, now variously known as Fritz

A disemboweled hill! There is no other word for such a human anthill

Lorraine mountain. Everywhere within the hill run tunnels, some well paved and shored, some hollowed out in slovenly fashion, depending on the calibre of the resident troops who did the work. Tunnels en-"We may, however, still say a word tering from the bottom and meeting tunnels from the top. Tunnels opening out into underground chambers, some fitted up as barracks, some as is getting only passing attention. kitchens, some as mess halls, some as connecting the various machine gun posts of which twelve pointed towards the Allied line. Tunnels screened from electric wires and cause houses

tremes; we learn on good authority of might walk quite a way up the hill and destroy any food or other property one serious minded inspectress who without suspecting any subterranean which might be stored therein. He worried so conscientiously lest a de- life unless you happened to spot a will go from farm to farm, and, in some fective mask be passed by her to cause smokestack protruding unexpectedly cases, it has been proved that the

Equipped with shell-proof quarment to the inspectors to good work, porting and impregnable a fortress as evil little pests. He infests all kinds of each of them is from time to time one often sees in these days of sandbag filthy, dirty places which reek with

### WIPE OUT THE RATS THREE GENERATIONS OF ROOSEVELTS

They Cost the Country Millions of Dollars.

## NEED OF WIDESPREAD CO-OPERATION

There Should Be a General Rat Killing In Every Section of the Country -A Vigorous Campaign Would Leave Much Food for the People-It is a Work for Boys and Also a Work for Men.

By F. H. Jeter, Editor Agricultural Extension Service. There is one parasite very common n South Carolina which is without a single redeeming characteristic, and which should everywhere be routed and destroyed. In fact, it has been stated and some fanciful writers have prophesied that a time would come when there would be a struggle between the human race and rats to decide which would possess the earth. matter of fact, a single case on record Practical folks, of course, have very little fear of anything like this, but they do set the rat down as a costly and a dangerous nuisance,

The department of agriculture at Washington, through its biological survey, has recognized the seriousness of the rat in the program of food production and food conservation, and has classified him in a recent bulletin with just five motions of the arms and by Mr. David E. Lantz as the worst animal pest in the world. The losse from his depredations amount to many millions of dollars yearly-to more, in fact, than those from all other injur ous mammals combined.

Of the four species which have been prought to America, for none is na the brown rat is the most de structive and, except the mouse, the most numerous and most widely dis-This rat was brought to tributed. America just before the Revolutionary war, and, in spite of the fact that man has since waged constant warfare on it, this breed has been able to gradually extend its range, and to steadily increase its numbers, because of its wonderful ability to adapt it self to all surroundings. He is sly and omnivorous, feeding upon all kinds of animals and vegetable matter, and from its home in filth visits dwellings and storerooms to pollute and destroy human food. While it does not eat so much of this food, it causes a much greater waste by pollution. In fact it is estimated by statisti-

cians that these creatures destroy crops each year, and other property. valued at over \$200,000,000. It is hard o conceive of this amount of food and property being destroyed each year, when we notice the small amount of damage done by a single rat in a night, but if we take the carnings of 200,000 men, let them work hard each day, at reasonable wages for their labor, at the end of the year they will only replace in wealth what rats have destroyed in an equal length of time. On the average farm, if the grain eaten and wasted by rats and mice could ush food materials saved to pay our normal taxes in this state

Were it not for the fact that the rat nas natural enemies, such as weasels, skunks, and some kinds of hawks and owls, the rate of increase would be very much greater. One investigator that time they produced 26 litters, totaling 180 young, and another investigator figured that the progeny of one pair of rats would, in three years

number 651,050. Traps, poisons and other devices of man have served, in addition to its der some control. Cats and dogs also destroy many, then the male rat is family. This is about all that can be put down in the favor of the rat, except for the fact that he does sometimes eat carrion. The world has been ighting the rats for centuries, without organization of any kind, but at the same time the world has been steadily feeding them and building for them ortresses for concealment

According to Mr. Lantz, if these rats are to be found on equal terms they must be denied food and hiding places. The people must organize and rid the individual communities of the pest There is yet a short while before the crops are harvested in which considerable zood may be done in destroying the number of rats that will be fed during the coming winter. Organized forts should be put forth on all farms, and in every community, to Bits of toasted cheese, or bacon, may make way with the hiding places, and to so construct any building that they may be rat proof; then, with poison traps and organized rat hunts, the pest should be exterminated as closely as

possible. The world is now on reduced ra tions, and the foodstuffs which these pests destroy is a serious matter. It is said that we might get a better idea of what the \$200,000,000 value lost by means of rats, when we consider that this amount, would pay board bill, at \$10 a week, of 384,615 men for one year. How long is it supposed that we would pay such a board bill of such a number of men who did nothing but go around spreading germs, burning buildings, and robbing hen houses Yet, this is exactly what we are doing in the case of the rat. If these were men we would not stop until the last one was brought to the electric chair, or at least securely jailed, yet on the other hand, the sly, slinking rat is doing just these things every day, and Suppose we consider some of the proved, beyond all shadow of a doubt, that rats gnaw away the insulatioin deadly cholera germs have been carried from one affected hog herd to the

germs, and brings these into germ-



A family group of three generations of Roosevelts, with their service fla pearing three stars, one of which has turned to gold. The group is composed of Theodore Roosevelt's grandson, the baby of Archie; Theodore Roosevelt Captain Archie's wife, Richard Derby, Jr., Mrs. Roosevelt, and Baby Edith Derby on the lap of her mother, Ethel Roosevelt.

r he wanders.

Poultry growers have found that it is practically impossible to rear young incubator chicks where there are considerable numbers of rats, as these whole hatch in one night. They find ing the offal of slaughtered animals, and, in this way, perpetuating the day. disease known as trichinae in pork. They also get as a source of food the remnants of lunches left by employes in factories, stores or public buildings, and this small amount of food, alone, is sufficient to attract and sustain a small army of rats. They shorten the

and piling dirt against them where find a safe retreat from they may nearly all enemies. Birds are needed to help in controlling the insects affecting the crops, and squills. yet, rats prey on the eggs and young the use of these can be found in of many kinds of these birds, and

should. It can be seen, therefore, that the Allies may be properly fed, and value at all.

As a method of destroying-there who kept two female rats in captivity ed. poisons may also be used, while enemies. for thirteen months stated that during dogs, cats and ferrets may do some good. The use of fumigation by which rats are destroyed in their burrows in man prisoners captured in the recent natural enemies, to keep the pest un- all the animals in the burrow are as- cigarette, and an American officer, frequently a cannibal who cats his own closed, and the rats either killed, or slightingly of the war token bestowed driven out, but it is hardly practical upon them by Emperor William. to use these in occupied buildings. rats. The ordinary house cat is too well fed, anyway, to undertake the capture of an animal as formidable as the brown rat. In fact, the continued eating of rats in some cases poisons

> Traps cost nothing in maintenance except bait, and the five and ten cent trap, the wire cage sort, or the steel spring traps, are all good and recommended by the agricultural extension service. The bait used in these traps should be that which is different from that which the rat generally feeds on. be used effectively. It must be re membered, however, that the rats are very sly, and that bait must be changed often, the trap kept clean, and preerably handled with gloves to entice he animal into them.

One man was very successful he cut two slits crosswise the top and The bandit made his escape.

free places, depositing some wherev- was reported to have caught over 3,000 rats before they became fearful of his rrangement.

In a large barn near Washington a few years ago, piles of corn left in a loft were soon greatly infested with take keen delight in killing as many rats. A wooden pen was set down by as possible, sometimes destroying a each pile in the barn, the corn thrown out until the dogs were able to get at the food in country slaughter houses, cat- rats, and in this way several men and dogs killed over 500 rats in a single

but must be handled with care. If a poisoned rat escapes into the partitions of buildings, the resulting odor is frequently very far from pleasant, and it is recommended in most cases to put the poison in unoccupied houses. life of sills and floor timber in the er out buildings. Poison should never floor of many wooden buildings by be put where domestic animals and digging tunnels around under them pets can gain access to it, because it recognizes neither friend nor for among the principal ones which have been recommended are barlum carbonate, strychnine arsenic, phosphorus Detailed methods as to

(armers' bulletin 896. whatever method is used for keep them from increasing as they destroyng rats, it is of the utmost importance that co-operation be done. It necessity for keeping such pests in will do very little good to destroy the check is a very vital and apparent rats on one farm in a community, and one, and there is no better time than none of the remaining farms, as they now to wage a war against them. We migrate very readily. From year to be sold, the farmer could use this to are asked by the government to conpay his taxes. In fact; by the exter-mination of the rat there will be possible so that our soldiers and our The boys should be interested in this people at home sufficiently nourished, turned in. Clubs, societies, and organyet, all this while we are paying tax izations should make co-operative efto this pest which returns to us no forts to kill the rats. Buildings should be so constructed that the animals may be built out of shelter and food, and are many kinds of traps recommend- thus at the mercy of their natural

Swap Crosses for Cigarettes.-Ger-

the field by putting a wad of cotton fighting, who have arrived at a British soaked in carbon bisulphide pushed into port, show a surprising depreciation of the burrow, and the opening packed the once coveted Iron Cross, says an with earth to prevent the escaping of Associated Press correspondent. One gas, is a good method. In this way of them traded his decoration for a phyxiated. Other gases may be used in who accompanied the captives from warehouses where these are tightly France, said several of them spoke A marked change in the demeano

Cats are a considerable help in over- of the new prisoners was also noticeacoming the remarkable development in ble. Instead of the arrogant and alnumbers, but these are of most value most insolent manner which characfor mice, very few learning to catch terized their predecessors, when the Germans were sweeping everything before them, the latest contingent seems humble and crestfallen. Almos every officer and one in ten of the men wore the ribbon of the Iron Cross.

The tobacco famine, which exist mong the prisoners, makes it easy for American soldiers to collect souvenirs of their belongings for a package of cigarettes.

American troops are leaving for France daily with bands playing and flags flying.

A bandit held up an express messen ger and his assistant in the express car of a Grand Trunk railroad train as it was leaving Sunnyside. Ontario, Thurs day, obtained a sealed bag containing in \$20,000, and leaped from the train. catching rats by covering a barrel with few hours later the bandit held up the prown paper and feeding the rats in a chauffeur of an automobile and drove carehouse on top of this barrel for away in the machine. The greater part several nights. After they had learned of the stolen money was recovered in to eat there with comparative freedom, a house near the scene of the hold up.

# **DEFENSES OF METZ**

Taking of City Will Be a Big Undertaking.

## FORTIFICATIONS OF GREAT STRENGTH

asy Enough to Destroy the Town With Long Range Guns; But the Destruction of the Town Is of But Little Value, So Long as the Forts Stand In the Way.

crack," said a French general the other day, reflectively: Inasmuch as the cracking is evident y destined as a task for the America

army, it will be interesting to consider what the fortifications of Metz are like and why they are so formidable. Metz is defended by a girdle of detached forts four to seven miles outside of the city. This is the modern method of defending a town. Its ob-

bard it effectively. Thereby is constituted what is called an "intrenched camp.". Antwerp is such a camp; so likewise (with their defenses) are Paris, Verdun and Bel-

fort. Strassburg is another. Metz is a first-class example. In 1870 (while still French) it was thus defended, but the outlying forts were unfinished. The Germans have modernized them and have added a second and outer ring of formidable

Each fort stands by itself, but all them compose a system, being inked together by a complete chain of highly elaborate concrete intrenchments, with moats and other obstacles, bomb-proof shelters and maga zines for ammunition and stores nea the fighting line.

Roads and railroads connect th forts with one another. Other roads and railroads run like spokes of a wheel from the center of the system to the different defensive sectors Thus the defenders, provided with perfect communications, have a great advantage, being able to operate on interior lines. They can at brief notice concentrate their forces agains an attack at any point. And in doing so they are not obliged to expose their men or transport vehicles, inasmuc as adequate covered approaches to th fighting line are provided.

Behind the outer and inner girdles of detached forts at Metz, located at favorable points, are specialized for tifications designed to assist step-by step defense; and in the rear of these is a so-called last line defense sur rounding the city, where the garrison may resist to the ultimate limit.

To illustrate rather strikingly the development of the art of fortification saw the vision of the world, and all the wonder that would be may be mentioned that in 1870, at the saw the heavens fill with commerce, argosles of magic sails, time of the France-Prussian War, the Pilots of the purple twilight, dropping down with costly bales; last line of defense at Metz was a wall of masonry twelve feet high! Imagine how long it would stand against modern guns!

The idea of detached forts for the defense of a city was first adopted just about a century ago. At first they were placed only 1000 yards or so in the parliament of man, the Federation of the parliame were placed only 1000 yards or so In the range of siege guns increased it was necessary to establish them at a correspondingly greater distance

Hence it will be understood why within very recent years, the Gerspend huge sums of money in extending a ring of forts outside of the original girdle. There was, however, another idea in view. It so increased Alsace-Lorraine in 1871 and her Dra- would give also an open road into Gerenormous besieging force would required to invest it.

The detached forts of former days were massive structures of mansonry, containing barracks for infantry and said: magazines and storehouses for an munition and supplies. But the ar rival of the rifled cannon made exposed masonry obsolete, and the year 1886 found the French pounding away experimentally at one of their own fortresses (Malmaison) with high ex plosive shells.

The destructive results were amaz ing, and their ensued a fresh resoluways there has been a race in devel opment between the means of offens and the means of defense. But on land as well as on sea the weapon of offense has clearly and decisively wo -its final victory as one might say The Germans will part with almost any having been celebrated when the Germans literally blew to pieces the fort at Liege, Namur and Antwerp.

Therewith, however, it became ap parent that the defenses of Metz, Strassburg and other German cities must be regarded as in large part ob Like methods of attack brought against them would inevitably wipe them out.

Thus, from the present point of lew and relatively to up-to-date methods of attack the forts of Metz, even taking into account all recent improvements are really no more formidable than the primitive works century ago considered individually, that is to say. Their strategic value, on the other hand, is incomparably greater-meaning by that term their total defensive efficiency, enabling them to hold off from the city a great force for an indefinite per-

ounded and "invested," as the phrase is by the Americans and their Allies. The slege is likely to be long. But end only with the surrender of the that no military commander today would think of seeking safety for his army in an intrenched camp. The army under such circumstances would e as good as lost—a fact strikingly illustrated by the experience of Mar shal Bazaine during the Franco-Prus sian war. Prince Frederick Charles he "Red Prince," uncle of the present kaiser, simply sat down outsid and waited until the French driven by starvation to surrender. He did not throw a single shell into the town. It was the most humane slege in history.

The most important military fund tion of Metz is not that of a mere stronghold, but to serve as a base of supply and point of support for the German left flank. Strassburg, ninety-nine miles to the southeast, is a bridgehead,

Rhint, if defeated on the plains of Al-

It is in this direction, through Lor raine and Alsace, that Germany wil be invaded. As soon as Metz is seriously threatened the Huns will be obliged to retreat to the Rhine. This which may be formulated by the Alis an idea that doubtless figures importantly in Marshal Foch's strategic

Long-range guns, to keep the foe at distance, are an essential element of the defensive system of an intrench ed camp like Metz. The news dis are already throwing shells into the American lines. But that is a game "Metz is going to be a hard nut to two can play at; and there is no doubt that the Americans could destroy the city by gunfire if they chose.

They do not choose to do so because is a French city in hands; and furthermore to destroy the town would not injure the forts or impair the defensive power of the great intrenched camp.

## PROPHETS OF YESTERDAY.

ject is to prevent an enemy from get-Things of the Present Were Not Hid ting near enough to the city to bom den to Great Souls. Literary antiquarians are finding all inds of prophecies covering events of

today, and some of them are enough to awaken the spirit of marvel in view of the remote contingency as to the day of fulfillment. For example, what could have put it into the head of George Sand seventy-two years ago that American forces would ever occupy French soil? Mr. J. S. N. Davis sends to the New York Times this literary find:

"George Sand, in her novel 'Mauprat,' written in 1846, put into the mouth of Bernard Mauprat, in about the middle of the fifteenth chapter, the following words:

"'In his (Marcasse's) dreams he sed to see an army of victorious Americans disembarking from numberless ships, and bringing the olivebranch of peace and the horn of pleny to the French nation,' etc.

"Mauprat in his old age is telling the story of his life and was here giving an account of himself and friends. their doings and thinkings, while in American freedom.

"It would be hard to find a more lit-

Tennyson's "Locksley Hall" places its author as a safer guesser in view of Catholic Citizen (Milwaukee) thinks make certain that the U-boat fleets are his vision of seventy years ago an "al- put out of action, however, by any in its course, and the result to follow

with commerce, argosles between neutral water.

From the nat central blue; Far along the world-wide whisper of the south as the Germans call that great for-

The cue being given, another delver,

that in 1849 Victor Hugo, addressing determined at the peace conference. the Peace Congress in Paris, foreshadowed the "United States of Europe." mans have thought it worth while to Mr. Isaac Markens comments before tion of the Rhine fortress of Strassny's subsequent role in the history of the Allied forces not only to dominate nations, more especially the theft of the German forces on that front, but leaves no doubt of Hugo's attitude with respect to Germany's representation in the proposed confederation, were he living today." Hugo then would precede the statement of condi-

> "A day will come when you, France, you, Russia, you, Italy, you, England, you, Germany, all you nations of the definite plan for the rearward move-Continent, shall, without losing your ment of the German forces under distinctive qualities and your glorious which the enemy's armies would sucindividualities, blend in a higher unity, and form a European fraternity, even as Normandy, Brittany, Bergundy, Lorraine, Alsace, all the French provinces lended into France.

"A day will come when war will ed. seem as impossible between Paris and London, between Petersburg and Berlin, as between Rouen and Amiens, beween Boston and Philadelphia.

the universal suffrage of the people, by the sacred arbitrament of a great the north less essential. sovereign senate, which shall be to Euope what the Parliament is to England, what the diet is to Germany, to the Italians of fortresses in the Alps what the legislative assembly is to France.

could be.

"A day will come when we shall see those immense groups, the United States of America and the United States peace conditions in Russia, it was said of Europe, in face of each other, extending hand to hand over the ocean, exchanging their products, their commerce, their industry, their art; their the Dardanelles. Surrender also of genius clearing the colonizing deserts, Russian battleships and destroyers in and ameliorating creation under the the Black sea, seized by the Germans, eye of the Creator. "And to you I appeal, French, Eng-

lish, Germans, Russians, Slavs, Europeans, Americans, what have we to do to hasten the coming of that great day? Love one another. To love one such a siege, if long continued, can another, in this immense work of pacification, is the best way of aiding Godgarrison. So well is that recognized For God wills that this sublime will should be accomplished."

Formidable American Flyers.-The American flyers are beginning to ap-pear on the battle fronts in increasing numbers. There have been a few American fiyers from the beginning; but during the past month the fiyers whose training was started in various American aviation fields and continued n England and France, have been oining the fighters. Several times reently as many as fifty or sixty Amer-cans have gone out together on bombing expeditions, and have not only wrought terrible havoc in the German visited: but have sent to all the German flyers that undertook to interfere with them.

Lieut, Sidney White of Elizabeth City, N. C., last Thursday brought down a German airplane and successfully fought off five others that offered help to the Hun, on the western front. five days."-Journal of Ed

PROBABLE TERMS OF PEACE.

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Subjects Being Discussed by Wash-

ington Military Experts. Discussion in Washington is centering on the probable terms of armistice lied and American military advisers after the Allied governments have the German proposals transmitted by President Wilson. It was generally assumed by army officers that the president already has ascertained the willingness of the Allied patches indicate that the guns of Metz governments to submit the matter to military men.

Military opinion in Washington is that Mr. Wilson has expressed the basic idea upon which an immediate armistice can be reached. The terms to render the German military power on and and sea absolutely imp be worked out by the supreme war

It will be the mission of the military advisers to translate general principles into concrete terms of fortresses to be occupied, submarine bases to be placed under guard, munitions to be lismanteled, rail lines to be secured against German use. Since an armistice on Allied terms means an end of the war, attention also must be given to demobilization of the German army, in itself a long process since the great force could not be turned back into

civil life overnight. The machinery for formulation of the terms already exists. The military and naval boards of the supreme war council at Versailles furnish the natural avenue for the assessing of the views of the military leaders and bringing them into harmony in a definite statement of the conditions upon which fighting could come to an end and Marshal Foch, as supreme commander, and Generals Petain, Haig, Pershing, Diaz and Gillian, the Belgian chief of staff, are ex-officio members of the naval board.

The president proposes that the terms to be drawn up by these military and naval agencies are to be submitted to the respective governments associated against Germany for ratification before they are given to the German government. The supreme America with Lafayette fighting for war council, composed of the premiers of the Allies, and of President Wilson, probably would pass upon the proeral fulfillment of any written expres- gramme since it is only armistice conditions and not peace treaties which are to be considered.

As to the terms themselves the sitthe declared determination of science to uation on land so far as the western onquer the physical universe; but the front is concerned appears simple. To most uncanny forecast" not only of terms except the surrender of the sub-"the present world-upheaval, but even marines themselves appears more difthe instruments of warfare developed ficult. Occupation of Helgoland might serve to bottle up both the submarines Armageddon." It quotes this passage: and the German high seas fleet so far For I dipped into the future, as far as human as the North sea outlets are concerned, but there is another gateway, via the Kiel canal and the Sangarrate Day

On the western front, which domi-Heard the heavens fill with shouting, and there garded as obvious that occupation of m's airy navies grappling in the the Metz-Thionville "Mutterstallung" tress, would be essential. Speculation the Federation of garded as probable that the Germans ican troops take over the fortress until writer to the New York Sun, finds final disposition of Alsace-Lorrain is

Holding the Metz-Thionville gateway, supplemented possibly by occupaquoting the French poet that "Germa- burg, some officers think would enable the size of the defensive circle that an conian policy of the past four years, many itself should a resumption of hostilities be threatened.

Terms for the evacuation of Belgium and northern France probably tions that must later be enforced along the German-Belgian frontier. It is believed the Allied chiefs will propose a cessively retire. The plan marked out, it is thought, would provide for exposure of the German forces to flanking operations that would cut them to pieces should any treachery be reveal-

What fortresses on the German-Bel gian frontier might later be required for occupation is not so clear, since it is thought that in any case the reser-"A day will come when bullets and vation of the Rhine road to Berlin by bombs shall be replaced by ballots, by the occupation of Metz and possibly Strassburg might make precautions in

Other obvious requirements would be, it is thought, surrender by Austria that guard the Austrian border and the road to Vienna; probable evacuation of the whole east coast of the shall be exhibited in our museums as Adriatic and the occupation of such an instrument of torture is now, and bases as would bottle up Austrian namen shall marvel that such things val power completely in that sea. Possibly the surrender of their naval base of Trieste might be demanded.

To safeguard Rumania and enforce the road to the Black sea must be cleared, which would require surrender by the Turks of the fortresses of would be demanded, it was thought, and possibly the surrender of Turkish war craft as well.

Boys Saved the Sugar .- The national headquarters of the United States boys' working reserve has announced that 7,000,000 pounds of sugar was saved for the country this season by members of the reserve.

Michigan farmers were on the point of plowing under their sugar beet crops on account of lack of labor when United States boys' working reserve boys volunteered to go into the fields

boys volunteered to go into the fields and save the harvest.
"One hundred and sixty-five thousand boys in American high schools and colleges have enlisted in the boys working reserve. As many more boys who were not in school are actually at work on the farms." work on the farms.
"This is one of the features of war modification that is to have an influence after the close of the war. An

idle boy is in great danger of being employed by his satanic majesty. American boys have been swept along at very fast pace through vacation "An idle vacation can undo much of

the good done in the school year. In-deed, an idle Saturday sometimes un-does all that the school has done in





The latest novelty discovered in use by the Boche forces is this miniature one-man tank, used as a sniping post by the operator. The tank was captured by the Canadians during the recent offensive and one of them can be seen experimenting with it. When once behind it the operator can go forward or backward, but in rather an awkward position.