# EXPLAINS RECENT EXPLOSIONS BY. AFFINITY THEORY

Dr. Villejean, French Expert, Believes in Detonation

by Influence.

PARIS, Saturday. pr. Villejean, inspector of the Explosives pepartment of the Seine Prefecture, who was a pupil of the great chemist Berthelot, was interviewed recently by your correspondent concerning the origin of In the case of the Halifax disthere was another, more deadly,

ever met one authenticated case. But I his opinion on the frequent explosions that have occurred in munitions and chemical factories, in America, France, England, Germany and Austria, as well as in the formidable explosion of the munitions ship that wrecked Halifax.

### Explosion by Shock.

"Most high explosives are detonated by shock," said Dr. Villejean. "The shock of collision between the two steamships in Halifax Harbor was not the cause of the explosion, as that occurred twenty-five on deck appears, however, to have been a among the cargo of high explosive shells there was also a certain amount of f it filtered into the holds and the heat disengaged produced a gas, which combining with the oxygen of the atmosphere exploded with sufficient violence to detonate the percussion material, which in turn denut this forward as a hypothesis, for to reach a more exact opinion it would be he ingredients of the explosives used in my inflammable liquid on munitions ships ssible to foresee circumstances too many recautions cannot be taken where exosives-and such explosives as are now mployed-are concerned."

### The Scope of Knowledge.

Have you any hypothesis to advance, hat have occurred in so many munitions and chemical factories within the last two years? Do you think the chemists are ombining different products, the effects If which are clearly known up to a certain point, but that beyond this their knowledge nay still be deficient?"

"No; I do not think so. I believe the greatest care is taken in the development of these explosives. Every step is tried and tested before another is taken, as well s every precaution that certain ingrelients are not brought into close proxim-But what does happen, I fear, is aprudence-a momentary imprudence, if ou will, but one which is often attended

with disastrous results. The destruction of the great German chemical factory at Griesheim could easily have been brought about by the mprudence of a member of the staff in bringing two substances into too close proximity, causing a local explosion which could be sufficiently intense to detonate ll the other explosives in the place by

### Another Theory.

There is also another hypothesis that worthy of consideration and study by experts-that is, the action of 'les ondes lectriques,' or emanations from substances employed in the manufacture of explosives. Such action might also be he cause of local explosions-under cerain conditions-which might or might not be the influencing cause of others of a more serious nature. That many of the xplosions during the last two or three ears were due to malevolence is certain. There have been others, however, in which malevolence had no part, but where mprudence was the contributory cause of létonation by sympathy-'détonation par nfluence.' To guard against this latest danger too much care cannot be exer-

## Japanese Ships for World Trade

fter the war Japan is actively engaged n building ships. According to Japanese lips, owned by forty-two different shipwilding firms. In each a ship of 1,000 ions can be built. Sixty-seven ships have een completed and nineteen now are in hree times as many ships as she owned

efore the war. The Japanese Steamship Company, Jahow has 102 vessels, aggregating 440,000 muscle. ons, has increased its capital to \$50,000 .-00, which is \$23,000,000 more than three or trade after the war.

possibility after peace is declared. Fur-

the Pacific coast for coal. They will take

across the Atlantic. The line through the Panama Canal will operated during the coming year and will bring New York into direct steamship connection with Japan.



## TEUTONS IN GREAT GAMBLE TO BEAT ALLIES IN THE WEST

LONDON, Saturday.

It has also confounded those of our experts precedented scale. who present war to us as a page of sums

without delay, adding 400,000 more wise to ignore them. If the Germans and they have some entirely different object it seems extremely unlikely that they will and at Polderhoek, as we have done times to prepare the state of th the Austrians propose to engage in the in view. Ferhaps they are telling the truth attack, so to speak, to-morrow morning. Without number. But when all is said it surrender of Jerusalem is a great political leave sugar for women and children. Food the fleet. All this is to prepare the Austrians propose to engage in the in view. Ferhaps they are telling the truth attack, so to speak, to-morrow morning. Without number. But when all is said it surrender of Jerusalem is a great political leave sugar for women and children. Food the fleet. All this is to prepare the first of the fleet. All this is to prepare the first of the fleet. All this is to prepare the first of the fleet. All this is to prepare the fleet. All Direct service between Japan and Ger- most colossal gamble in history, we had be believed. many by way of Italy is suggested as a better consider our prospects of success.

the line operating to Europe by the of the enemy amount to a gamble? Be-Austrians cannot entirely strip the Rus-Cape of Good Hope and to start a new cause they are like a gambler who after thinly held. Here Amay say that I can see service to Europe through the Panama heavy losses comes into a blg legacy and no present prospect of an improvement in risks the whole of it on a single throw. Russian conditions, I can find nothing in the Tatsuno Maru, already has started on It is a gamble because up to now the chief history to show that the Cossacks have the voyage. The ships will stop at San military lesson of the war in the west has upon the destinies of Russia. They are the voyage. The ships will stop at San Francisco or some other American port on the Pacific States of Russian have the Pacific States of Russian States of R cargo and passengers direct to an English vices and methods are found, modern arms manity. Port. The steamships may call at New confer an advantage on the defence. Both for further loading before starting sides have proved two things at great cost to themselves.

Strength of the Defensive.

of an attack almost invariably succeed. foes. I can see no moral difference be- never yet had to face British and French of the most magnificent fights of the not let ourselves be beaten in brain power. soldiers laugh?

The second thing is that hitherto it has tween violating the treaty about Belgium artillery and British and French infantry whole war and has stemmed the tide of been impossible to develop on a sufficient and breaking the Pact of London. The in the mass, and whatever may happen to invasion with marvellous fortitude but on the German threat on the western The Germans demonstrated this at Ver- fighting alone to-day for the cause upon the enemy's guns, it has to be remem-"The Germans are declaring that they need not multiply examples. There is no not fight because one treaty has been guns in the west than ever, it is by no mean to try to break the allied line in the reason to suppose that the enemy will now another. I know all the specious argu-sufficient quantity. The available evi- between the Brenta and the Piave are not west. The elimination or the Russian succeed in rebutting these conclusions, ments about throwing Russia into the dence seems to suggest that the enemy there for nothing. of construction. It is estimated army has restored the waning military and that is why their attempt, should they arms of Germany, but depend upon it, the are probably rather short of matter for winter amid the hills if they can help it. that within a short time Japan will have strength of both Germany and Austria. now make it, will be a gamble on an un-simple rule for nations as well as indi-

Next, it may be noted that the great cause.

The only possible course for us is to look

Advises Against Traitors.

dun, the French in Champagne in 1915. We which Russia's future depends. We can- bered that although they will have more viduals is to have nothing to do with I am not belittling the menace which through which they hope to debouch into traitors. That way lies the ruin of our may confront us, but am trying to reduce the plains, and if they dispose of Italy

published. It is enough for us to know stroke. I suspect that some searching inthat by the spring at the latest they can quiries are in progress on the other side he is in Mesopotamia, and should be heard certain thoughts occur to one. count upon a sufficiently formidable addi- of No Man's Land as well as on our own. of soon with his two German divisions; The first thought is that the food hog tion to their numbers.

Austrians of Less Moment.

And may I add that I do not understand France. The Austrian army seems to be out of the way for the time being, it is Empire may depend upon the decisions to would just as soon wear a badge to show the suggestion that we should talk benev- like the widow's cruse, for it never runs natural that they should turn next to be taken this week regarding the allo- they were not pickpockets. olently to the people who have seized dry; but the Austrian troops to-day are Italy and endeavor to overwhelm her cation of the balance of our man power; The third thought is that these civilian power in Russia? Treaty breakers look believed to be very much below what while she is still reeling under a sore but this is a contest of brains as well as badges are just a little frequent. Cannot The first thing is that the initial stages alike to me, whether they are "friends" or they were in 1914. In this war they have blow. The Italian army has fought one men, and both on land and sea we must we think of some other way of making

Lovat Fraser, writing in the Daily Mail scale the advantages won in the first rush. The Germans demonstrated this at You

amount of drum-fire in the enemy press To return to our main theme, it is prob- line in France and Flanders should re- it will suit them very well. The outlook pan's largest maritime corporation, which rather than a contest of brains as well as is very unusual. The German newspapers able that the enemy will do the obvious sist any attack which may now be directed on the Italian front is hopeful for the have not as a rule announced military thing, which is to concentrate in the west, against us. It is true that the Germans Allies, but by no means certain. "We need not be prematurely alarmed plans in advance. Perhaps the enemy are thing, which is to concentrate in the west, against us. It is true that the definition of a short of a thrust at Solaries which is \$23,000,000 more than three by the threats of the enemy, but it is not will be by the threats of the enemy, but it is not will be by the threats of the enemy, but it is not will be by the threats of the enemy, but it is not will be by the threats of the enemy, but it is not will be by the threats of the enemy, but it is not will be by the threats of the enemy, but it is not likelihood of a thrust at Salonica but meat without bread is fairly easy, and that they have since seized two ing the ranks of our wobblers. Perhaps will be the ranks of our wobblers. Perhaps will be a salonical but meat without bread is fairly easy, and that they have since seized two ing the ranks of our wobblers. Perhaps will be a salonical but meat without bread is fairly easy, and that they have since seized two ing the ranks of our wobblers. Perhaps will be a salonical but meat without bread is fairly easy, and that they have since seized two ing the ranks of our wobblers. Perhaps will be a salonical but meat without bread is fairly easy, and that they have since seized two ing the ranks of our wobblers. Perhaps will be a salonical but meat without bread is fairly easy. undertaken, and they will not launch their enemy did pretty badly. We talk of a military point of view our forces in Pal-ment, and should have been so expounded blow until they are fully ready. I shall surprise, but nobody seems to have been estine cannot now materially affect the from the first. And first, why does the alleged intention at the probabilities. The Germans and not attempt to quote from the many estimore surprised than the Germans, who reach Aleppo, which is more than three not attempt to quote from the many estimore surprised than the Germans, who mates of their strength which are being failed to reap the full profit from their hundred miles farther north. Falkenhayn wear the badge, described as a small

> real danger spot is Italy rather than Austrians streaming westward Bagdad have his mouth sewn up) will probably France. Our turn may come, but the has become a side issue.

Italian Outlook Uncertain.

All those masses of Austro-German men

until the spring. "When the trees bud" even porridge without milk can be attained. is the mystery of the moment. I think anchor. Perhaps. But in this connection I should-say that at the moment the but with the bulk of the Germans and (who, one may mention incidentally, should

We have a tough time ahead, yet if declaration an attractive price for a condisturbed about the statement that Aus- |go, which is also our own practice on oc- tures, and intern our bell ringers, we trian divisions may be put into the line in casion. Having got Russia and Roumania ought to pull through. The fate of the who have observed the voluntary rations

# FORCED RATIONING MARS JUST PRIDE. WRITER DECLARES

Barry Pain Says It Involves Vast Expense, Fraud, Forgery and Other Troubles.

(Special Dispatch.)

LONDON, Saturday. Barry Pain, writing on the psychology of the food problem and the ration table, says in the Daily Chronicle:-

Many years ago public opinion put an end to intoxication as a national habit. To-day the formation of the necessary public opinion-the control of the general mental attitude-would settle the food question.

We have enough, but nothing to spare, and we wish to prevent people from taking too much. On the face of it it might seem that this should be easy. But our attempts in this direction have failed, and have deserved to fail; the psychological factor, but for some crude advertisements, seems to have been ignored.

### Will Involve Vast Expense.

Continued failure will result in compulsory rationing. Compulsory rationing will have some results that have been frequently mentioned-it will involve vast expense, the employment of labor that is wanted for other purposes, difficulties of organization, fraud and forgery, and so on. It will have another result-it will wound the just pride of every decent man, woman and child in the kingdom.

What has psychology to do with food? The brain is the director general of function. Through the brain appetite may be stimulated or lessened and digestion may be promoted or inhibited. The brain is influenced by suggestion. The quack knows this, and in consequence sometimes effects cures. It is not his pill which cures; it is the suggestion in the advertisement of the pill. It is not only in the hypnotic state that suggestion is effective. It is always at work on people in a perfectly normal;

The Power of Suggestion. Now let us suppose that a man sees on

hoarding the appeal, "Eat less bread." He sees it frequently on other hoardings and in many newspapers. This should influence him, more or less according to his susceptibility, toward moderation in bread eating. But it does not influence him. How should it? A suggestion cannot work when a stronger suggestion is opposed to it. For every once that he has seen that advertisement he has seen twenty times or more a lavish display in the windows of bakers' shops or teashops. The suggestion of plenty is stronger nu-

merically than the suggestion that econlomy is needed. It also is stronger in quality, for the real thing is more oppressive than the name of it. The fact. that it is unconscious suggestion gives it. an additional power. And, lastly, the sight of good food is to the normal mandirectly provocative of appetite. The exhibition of any kind of food in a shopi window should be forbidden. The suggestion that it makes is dangerous and erroneous. The shopkeeper no longer requires that kind of lure.

Then there is the suggestion of the fashionable restaurant. The restaurant proprietors have been vexed with rescinded orders, and every rescinded order weakens; authority. They are willing-and if not they can be compelled-to fall in with any scheme of economy, but their business is to sell as much as possible for a much as they can get, and it is a food business. The atmosphere of luxury creates luxuri-

Choice of Viands Too Wide. The cooking is too good. The choice of viands is too wide. It is useless for them to plead that by some conjuring trick their chefs keep a man within his rations while giving him the impression that he has fed without stint. The whole point is that they have given the man that impression. and sent him away with a disposition toward extravagance. They are out of tune with the conditions that prevail to-

It would probably surprise the Food Con trol to find how many people could not repeat their ration table correctly. An official statement is always so dull that it paper is read quickly and then discarde Careful people may cut out a passage to which they will want to refer, but more content themsel. with intending to cut The table of rations should be printed in bold type in every daily paper three times a week. The remainder should be constant.

man leading a sedentary life does not really need as much as he is allowed. There may be a little trouble at first from the as-

sociation of ideas. Associate Meat with Bread. We must from habit associate meat with bread, for instance, or porridge with milks

And now we are to join the League of

wear that badge. He will think a lying

The second thought is that some people