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Princeton Speech - November 17, 1946

We have heard from Morrison what one bomb did to Hiroshima and if we care to do so we can figure out for ourselves what one bomb would do to New York City.

We may be, however, fairly certain that nobody will drop one bomb on New York City.

Atomic bombs are cheap to produce in quantity and they will be produced in quantity if they are produced at all.

will be produced in quantity if they are produced at all.

To nations which have the industrial equipment an atomic such bomb will work not more than a medium passes them may cost about one million dollars perubonia a piece.

In these circumstances and national policy which is based on the concept of military preparedness is likely to lead us in the length into a blind alley full stary many.

Just ask yourselves what does military preparedness involve if in case of war we must expect atomic bombs to drop on our cities.

Thirty million people live in the United States in cities of over two hundred fifty thousand and that means that thirty million people may die in one single sudden attack.

Another thirty million people live in metropolitan areas

a strong army and a strong navy will not help us much in whethat

Math mach a cantiregency Slaw!

It is possible to make the United States much less vulnerable but in order to do so we would have to relocate thirty to sixty million people.

We would have to house these people in new cities which would form a sprawling network across an area of about three thousand square miles.

Such a relocation would be difficult to carry out but

Such a relocation would be difficult to darwholly but from a purely economic point of view it would be possible to darwholly but the possible to

a gigantic relocation could be there but in the best ten years.

Moreover on the basis of such a ten years plan it could be carried out without an appreciable drop in the standard of living during the transition period.

With conditions in the world being what they are some of us willing us consider this kind of military defense.

We find it however rather difficult to get the enthus-

cities we may defend ourselves against the weapons of the past rather than walk the weapons of the future.

It is whith true that bombs of the Nagasaki type are cheap to produce, that they can be produced in large quantities and that they may destroy a good number of our cities.

But by now some of us would be willing to settle for a war in which such bombs are dropped on our cities if only we could be sure that nothing worse fould happen to us.

Bombs of the Nagasaki type act by the blast which they cause and you know what they will do to a city.

white the Button also brown of the whenever uranium is allowed to undergo fission radio active materials are produced.

Thus radio active materials are produced in the factories in which plutonium is manufactured from uranium and radio active materials are produced whenever to atomic bomb) is set off.

population of this country if such radio active materials were active particles were also above that cities or throughout the countryside.

What might was been said about this because those who suspect what might was proportions are not free to talk about it.

If Ar Oliphonty proved to be right about this it would show longer be provible to set any limit to the pamer of sax a single Whathald Court, If such frant bombs cauld be made and were ever swed against us they mauld not be used to destray the buildings to groduce test they can be of any city. bites they will be and a said But by now come war in which such compared and and an elies i only we could be such and the could be such as the cou

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property 1 bant their A year ago Dr. Oliphant of Birmingham hinted at bombs which it might be possible to braduce and which would be a thousand times more powerful than the bomb white used at Hassey of an harty at wille no for such bombs work to destroy the buildings of lany city ! They would be exploded off the Atlantic Coast on stiller Menta Pacific Coast and would disperse harge quantities of Millian radio active materials into the atmosphere. The prevailing winds would then carry the radio activity clear across the continent. If such bombs were used against us our cities would remain intect but the men and women inside of the cities as well as outside of the cities would be dead and those whe outside of h or 15 If ten/years from now such bombs can have a seinst us the relocation of sixty million persons will have served no useful purpose. At present the people in this country are in a somewhat Talle peculiar position. At the next election they may be called upon to make the most fateful decision of the century. But the facts upon which they ought to base this decision cannot he told to them at the present time. For the well danger to which this country might be exposed as the result of how covered the state of the control of the contr appraised can be garged only by a few thousand people and they are not free Thyraces to to speak. Ploplant moves du

During the past year physicists have tried to say as well as they could that only international control of the forces of destruction can give us a measure of security.

If no solution will emerge from the present negotiations we had better examine the causes of this failure as fast as we can and then try to think ap a new and different approach to the problem.

To me personally it appears semewhat doubtful that a solution can be found at the level at which a public discussion of the issue has been carried on so far.

But however that may be it seems clear enough that a national policy based on military preparedness can only be a stop-gap policy.

It seems clear enough that if we follow such a policy we shall find ourselves before long in a blind alley and we shall be moving along a road that leads to war.

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