said. As for the race to produce a missile with intercontinental range, he said:

"The very thought of hydrogen bombs or guided missiles training on a country is frightening, but I think we are ahead."

significant comment after lis-General Nathan Twining, Air project status." Force chief of staff.

Jackson said United States capacity to deliver atomic velopment of a ballistic missile

entists. America is lagging far Canal.

behind Russia in training young

is the fact that their carefully

worked out program is increas-

ing all the time while ours is

BATTLE ALREADY LOST.

actually fading out.

brainpower.

* U.S. Lags in Training

By DR. JOHN R. DUNNING

Dean of the School of Engineering, Columbia University. (Written expressly for International News Service)

tinental missile, the Northrup even atomic, warheads will be ting its stride in producing con- foot missile with a five mile Russians in missile production and development.

the United States is the Country of the Country

READY FOR TEST.

the Snark were in place at the within the United States—or missile range which extends against likely objectives in an "We are now at a payoff from Cape Canaveral, Fla., enemy country—without resort Caribbean Sea.

of Washington, a member of missile, the North American The tremendous impact of ly announced these missiles sentially a swept wing pilotless both the Senate Armed Services Navaho, probably will be con-such weapons is underlined by projects: and the Senate-House Atomic siderably faster than the Snark, the Atomic Energy Commis-Energy Committees, also had since it has a ram-jet engine.

tening to secret testimony by ciation has announced that this country could imperial life range Redstone, all of which are miles and travels at supersonic Air Force Secretary Talbott and twenty-six missile types are "in in an area up to 7,000 square designed for launching from sur-speeds.

"We believe the early de-

engine, thus would have to rewill plunge from space toward men say that while there has Terrier has been tested on the

This means it's theoretically to get ahead of another, our more than 1,000 miles into the to conventional aircraft which, Senator Jackson, Democrat Still another intercontinental ings in advance.

sion's announcement this month guided missile; the Honest John auxiliary rockets for takeoff. It The Aircraft Industries Asso that H-bombs now available to unguided rocket and the longer has a range of several hundred miles around the blast site. If face batteries against airborne The Navy also has other mis-Talbott told the committee: an H-bomb of this type were targets. much as twenty miles wide air. would be seriously threatened Air Force The Matador, a missiles, the Gorgon V air-toby radioactive particles thrown Engineers, Dean Says of into the atmosphere. GRIM BACKGROUND.

Against this grim background the United States is allocating an increasing share of its defense budget for missile development-and production now in NEW YORK, Feb. 26.-(INS), The plain fact is that public progress shows plainly the big -All of us know that modern opinion today does not foster a role slated for guided missiles war depends on technical brain-desire in young people to be en- in any future war.

While guided missiles have power. Some of us know that gineers or scientists. This is in maintaining a secure peace de marked contrast with Russia, dramatic possibilities as offenpends on technical brainpower, where the surest road to fame sive weapons, they also have and fortune is through science great potential for defense. The

state paid training. The Russian scientist and en gineer enjoys a remarkable de-If war should break out now, gree of freedom. He has free acwe could not catch up with Rus. cess to foreign publications and sia in educating vital brainpower for several years in spite of an American technical paper bean all-out national program to fore some American engineers

The Russian program is a mat While we presently have a ter of national policy, It is ironic slight edge over Russia in the that this policy was made benumber of scientists and engi- cause the early Communist leadneers in our labor force, even ers desired to copy the impresthis will be wiped out in the sive accomplishments of Amernext two or three years. Here, ica. We may be approaching too, nothing we could do would the time when pupil outdoes his

keep them from pulling ahead master. We cannot, with our popula In this sense, we have already tion, meet the Russians in terms lost the battle for technical of total manpower. We can meet them in terms of quality,

Despite a critical need for this and engineering. America has Army's Nike (pronounced nyebrainpower, despite record high not had an engineer-hero since Clothiers • Haberdashers salaries for engineers and sci-Goethals built the Panama Russia's engineering educamen and women in these profestion seems to be at least equal Last year Russia graduated to ours. Children are tested for 51,000 engineers. America grad-uated 19,000. Even more serious science or engineering are given

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range and a speed of more than 2,000 miles an hour.

"Our information is that the Russian capabilities in the required them the means to wipe out a the services and some competition in the required them the means to wipe out a the services and some competition in the required them the means to wipe out a the services and some competition in the required them the means to wipe out a the services and some competition in the required them the means to wipe out a the services and some competition in the required them the means to wipe out a the services and some competition is that the required them the means to wipe out a the services and some competition is that the required them the means to wipe out a the services and some competition is that the required the required them the means to wipe out a the services and some competition is that the required th city or an entire industrial area. tine services and some competing installed on two cruisers. Northrop Aircraft recently reported that test facilities for could be delivered on targets been constructive and highly an hour and a reported maximum to get anead of another, but only a foot in diameter, has a guided missiles program has been constructive and highly an hour and a reported maximum to get anead of another, but only a foot in diameter, has a guided missiles program has been constructive and highly an hour and a reported maximum to get anead of another, but only a foot in diameter, has a guided missiles program has been constructive and highly an hour and a reported maximum to get anead of another, but only a foot in diameter, has a guided missiles program has been constructive and highly an hour and a reported maximum to guided missiles program has been constructive and highly an hour and a reported maximum to guided missiles program has been constructive and highly an hour and a reported maximum to guided missiles program has been constructive and highly an hour and a reported maximum to guided missiles program has been constructive and highly an hour and a reported maximum to guided missiles program has been constructive and highly an hour and a reported maximum to guided missiles program has been constructive and highly an hour and a reported maximum to guided missiles program has been constructive and highly an hour and a reported maximum to guided missiles program has been constructed and highly an hour and a reported maximum to guided missiles program has been constructed and highly an hour and a reported maximum to guided missiles program has been constructed and highly an hour and a reported maximum to guided missiles program has been constructed and highly an hour and a reported maximum to guided missiles program has been constructed and highly an hour and a reported maximum to guided missiles program has been constructed and highly an hour and a reported maximum to guided missiles program has been constructed and highly an hour and a reported maximum to guided missiles program has been It's almost fifteen feet long, and mum range of ten miles. "We are now at a payoff

The surface-to-surface Regulus has been tested successfully on submarines as well as The armed forces have formal-cruisers and carriers. It's esfighter, about thirty feet long, Army-The Nike: Corporal powered by jet engines with

sile projects under way about exploded in Washington, for Navy-The Regulus and Ter- which little is known. They inexample, populations as far rier, both ship launched missiles clude the Bendix Talos surfaceaway as 190 miles in a down and the Sparrow, fired from air to air missile, the Fairchild wind belt which might be as craft at other targets in the Petrel and Eastman Kodak Dove, both air-to-underwater

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guided missiles."

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