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# And Peace

a construction of the By David Perimand

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Man's capability for full-blown space warfare with mammoth bombs frighteningly near.

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But so, in the minds of and incinerate a large part many experts, is a work of the North American conable, enforceable disarmament treaty that would truly neutralize outer thermal, high-yield bombs space and save it for would be primarily of propapeaceful science.

The men who make the rockets but rarely write the peace treaties are meeting here in Los. Angeles. The question of war and peace in space is strong in their minds. 📜

They are members of the American Rocket Society Nearly 2000 of them are at tending the society's 17th annual meeting here in the center of America's space industry.

# DR. HIBBS

Dr. Albert R. Hibbs, physicist and designer of scientific spacecraft, was one o the group's major speakers He is now chief of the Jet Propulsion Laboratory's arm control and disamismen a sort of cerebral liaison man between the U.S. Arms Control and Disarmament Agency and the U. S. Space Agent cy.

The first task of space distances, or Hibbs says, is to asses; realistically what space wespons can be and; what they can do.

## ORBIT

For example, consider nuelear bombs in orbit:

A single Russian recket can now orbit at least a 0 megaton thermo-nuclear weapon. 🌋

From low orbit such bombs could be fired downward for precision attacks on cities.

If rocket power could be in orbit and clashing in boosted to handle 100 mega-terceptor satellites, is approaching—then they could be exploded at orbital

> An orbiting arsenal of danda value, Hibbs said, but the frightening prospect poses problems.

"Soviets launch the big. These factors may ver, bombs into orbit and then any well make a treaty outlawin nounce publicly that unless them acceptable to both Rus "Suppose," Hibbs asks, the U.S. pulls out of Laos ita and America.
or somewhere else at once. "A really substantial treats all the Russian bombs will tanning bembs in orbit is explode over America and tuits possible within the next burn us up."

wo years," Hibbs says.

It is also argued here that an orbiting bomb system in American hands could congroup. He often functions as ceivably, deter an enemy attack.

If hundreds or thousands were in random orbits, no enemy could hope to find them all.

RETALIATION So, if an enemy did at tempt to launch a war from space or elsewhere, this nation would have an arsenal intact in orbit despite any attack, to launch in retalia-

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The deterrence would, me. presumably, from our nounced readiness to use graphic space craft designed ch a force if challenged. One of our orbiting de nes systems is called PAD, for Satellite Protec tion for Area Defense." I issiles during early flight naissance satellites. Fortunately for the arms mated at \$15 billion of dore.

### DIFFICULTIES

argue against them.

burn us up. There's no secret here.

Any such treaty, however, the question of remust exclude reconnaissance sponse and countermeasures might ocketeers believe. These are include disarming the orbital the types like MIDAS, which is space by neutralizing them to exclude the enemy missile launch or by inducing them to exclude reconnaissance space-raft for a long time," Hibbs or by inducing them to exclude the enemy missile launch or by inducing them to exclude the enemy missile launch or by inducing them to exclude the enemy missile launch or by inducing them to exclude the enemy missile launch or by inducing them to exclude the enemy missile launch or by inducing them to exclude the enemy missile launch or by inducing them to exclude the enemy missile launch or by inducing them to exclude the enemy missile launch or by inducing them to exclude the enemy missile launch or by inducing them to exclude the enemy missile launch or by inducing them to exclude the enemy missile launch or by inducing them to exclude reconnaissance in these problems can certainly be solved. Hibbs says.

"Machines and men will fly in reconnaissance space-craft for a long time," Hibbs maintains, "They're the most practical way to inspect and enforce space disarrament agreements."

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## RUSS VIEW

"We certainly cannot afon for Area Defense." If ford to give up developing buld consist of 2000 to 3000 four space reconnaissance tellites, each armed with capability," Hibbs says, "And one to six interceptor mis I imagine the Soviets would es that could attack enemy want both sides to use recon-

"From their point of view ontrollers, these systems it minimizes foreign presill exist only on paper and sures to accept inspections at arry a price tag roughly estimated at \$15 billion or down on U-2 flights and Central intelligence Agency activity."

Satellites designed to in-The technical difficulties spect bether satellites pose of orbital bombs, their cost difficult technological problems. For example, without cause of unreliability, and elaborate a satellite consistency might perform tell whither a satellife consistency against them. tains an H-bomb or a space mouse.

Interceptor satellites would have a hard job telling decoy weapons from real ones, and what about intercepting a satellite bomb that is triggered to explode when any interceptor approaches it?

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