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Swift-Biological Advance Can Be Bent to Genocide

THE PHRASE "germ warfare" evokes a moral revul--sion-which-is-not-strictly _justified_ War is already awful; how nice it would be to bypass its blood and guts and sevoke some clean, almost symptomiess disease instead.

From a military standpoint, the ideal agent for RW (biological warfare) would be a completely nonlethal but highly contagious virus that merely stupefied its victims for a lew hours or days and for which the good guys had a reliable antidote or preventive antibody. This hypnovirus is a logically plausible ideal, just __as_is_the_thought_of_using_ mind-altering drugs chemical warfare agents. (LSD was in fact studied by the U.S. Army long before the hippies discovered it.)

Having the hypnovirus would, however, make very little difference to the maneuverings of the great powers, with their highly automated nuclear missile sys-tems. Could we persuade the Kremlin to exclude biological attack from the threats it intends to retal-_ late against? The impact of _hypnovirus on small-country politics, and on the "polic-ing" of the world by the major powers, would be another matter, one that deserves a more leisurely dis--cussion-

FOR THE moment, hypnovirus is a pipedream. Most BW research is claimed to be defensive. That is, it seeks to anticipate the worst horrors an enemy might develop, then beat him to it so hazards of dealing with danas to know how to defend the population. Needless to say, there is no more ingenious device to ensure the rapid' escalation of offensive capabilities.

Whether work is actively proceeding in BW laboratories on producing a hypnovirus, I do not know. They -have, --- however, -- publishedabundant reports showing their preoccupation with plague, anthrax, rickettsia. tularemia, encephalitis virus and other equally unpleasant and highly lethal disease

The most chilling thought is that GW research has bility to the most perilous only just begun to tap the potential offered by chemical genetics for the system matic construction of new The discase agents. nouncement of the artificial replication of a virus DNA last December was followed by_some_rather_premature_ talk about the moral problems of replicating, and altering human DNA, We have a much more immediate concern for the moral problems of the engineering of virus DNA for military purposes.

These anxieties have provoked considerable bitterness_in_the_scientific_community and even demonstrations pointlessly misdirected at the Army's biological research laboratories at Ft. Detrick, Md. In recent years, this installation has concentrated on the technology of handling dangerous, infectious materials for research purposes. Its experience is quite valuable for public health work and has been openly published.

NEVERTHELESS. these positive contributions have a seamier side. The

gerous viruses is one of the few discouragements to keep a smaller country from starting 'its own BW program. As we develop and publicize this technology, we make easier the proliferation of the darkest arts throughout the world.

The makers of policy in Washington, not the technicians at Ft. Detrick, are the just targets of criticism. And they should be chastised less for any malevolent motives in this field than for mere ihertia, for technical unfamiliarity, for blindness to the pace of biological_advance_and_its_accessigenocidal experimentation.

The U.N. has had a long history of abortive attempts to start discussions on the control of BW

Now, the British delegation has introduced new initiatives for BW controls and, evidently with some reluctance, the U.S. State Department for the first timeagreed to substantial technical studies. Time is running out, and too little is left to let BW remain merely another minor pawn whose disposition is incidental to other settlements.

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