

Debate With Pauling

Dr. Teller Says Underground H-Tests Safe

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By Hale Champion

The U. S. may be on its way to conducting major nuclear bomb tests without detectable radioactive fallout by staging them underground, Dr. Edward Teller indicated here yesterday.

The indication came in a tense, hour-long KQED-TV debate with Dr. Linus Pauling, Nobel laureate in chemistry and leading advocate of a ban on testing of nuclear weapons.

Dr. Teller noted that there was no detectable radioactivity from the underground test of a small A-bomb in Nevada last September.

He held out hope that this

could be accomplished in big tests of "big bombs."

Dr. Teller also expressed anew his hope that continued testing might lead to the development of nuclear weapons that could be controlled as to destroy "war machines rather than men."

He described any ban on nuclear testing as "dangerous," flatly declaring that the Russians would evade such a ban, that he does not believe we can effectively check evasion and that the USSR would seek to take advantage of the resulting opportunity "to take over the world."

"When Khrushchev said,

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Teller, Pauling Debate Tests

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"We will bury you," he meant it," declared Teller.

MAJOR EMPHASIS

Pauling placed his major emphasis on an estimate that each major bomb test produces an increase of about 15,000 in the number of seriously defective children born in the world each year.

Pauling argued that a peaceful world order could be achieved and kept through international agreements if "we would put an amount of work into it equivalent to the \$40 billion defense effort."

He did not clash with Teller during the debate on the issue of whether the Russians could successfully conceal nuclear testing in violation of a test ban.

Commenting later, however, Pauling said he had no idea of what the details of an effective agreement might be, but talked in terms of "inspection stations inside Russia."

U. S. STOCKPILES

In the debate itself, Pauling said he regarded our present stockpile of bombs as a sufficient deterrent to Soviet aggression.

Both men spoke earnestly, Pauling with an occasional rhetorical flourish, Teller with a burst of passion near the close. Though they have criticized each other publicly in strong terms on various occasions, and did so by implication yesterday, no personal animosity was evident.

Pauling, now chairman of the division of chemistry and chemical engineering at the California Institute of Technology, led off with an attack on an article written by Teller and an associate in the February 10 issue of Life magazine.

'UNTRUE STATEMENTS'

Less vehemently than he had at a press conference earlier in the day, but with considerable force nonetheless, he said Teller's article contained "many statements that were not true and many that are seriously misleading."

Teller was more conciliatory, but did not retreat from his published statements. Some of the questions raised by Pauling were argued in considerable detail, notably the varying estimates of the mutation effects of bomb testing and the resulting birth in the future of an increased number of defective children.

Teller said there was no clear proof that there will be any increase at all, but chose 1500 as a better esti-

mate than Pauling's estimate of 15,000.

'ONE IS TOO MANY'

"One is too many," he said, but observed that other aspects of modern life may be much more dangerous in these terms than radioactivity from nuclear weapon testing.

He cited the speculation of three Swedish scientists that modern "tight clothes" may be responsible for mutations many times greater.

Teller, who is professor of physics and associate director of the radiation laboratory at the University of California at Berkeley, said he and Pauling were both arguing and working for peace.

The difference, he said, is that Pauling believes that peace by agreement can be achieved now, that he believes peace, for the time being, must be based on force.

REBROADCAST

The debate, titled "Fallout and Disarmament," was kine-scoped and will be rebroadcast over KQED-TV (Channel 9) at 10 o'clock tonight. It will also be forwarded to other educational television stations around the Nation.

Pauling also spoke last night at Scottish Rite Auditorium on "The Compelling Need for Ending Nuclear Bomb Tests and Preventing War," under the sponsorship

of the American Friends Service Committee and a number of other organizations.

He will speak at the St. Clair Hotel in San Jose at 8 o'clock tonight, addressing delegates to the Pacific Coast Unitarian Council on "The Dilemma of Modern Man." The meeting is open to the