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# War attitude change urged

## Biology head wants weapons' extinction

By Michael Doke  
Of the Emerald

Now there is no time to wait  
No time to think it over  
Take the path, believe the math  
You'll tell me when it's over

— Crosby, Stills and Nash  
"WarGames"

Scientists feared it would rain on July 16, 1945, near Los Alamos, N.M. Thunderclouds threatened the sky.

But as dawn broke, so did the clouds. The day was perfect for a scientific experiment of unprecedented scale.

Spawmed by the "war psychosis" of World War II — the daily body counts from overseas and the threat of a Nazi empire — American scientists were racing against time to develop the nuclear fission bomb.

As Aaron Novick, University biology department head and Manhattan Project participant, recalled on Friday, that first nuclear explosion was "awesome".

"First, there was an enormous flash of light," Novick told a SEARCH class studying the nuclear-arms race. "And that was quickly followed by intense physical radiation.

"Then came the shockwaves that tore things apart and swept them away.

"And then came the fallout. Dust clouds of radiation filled the sky."

Novick said the group of scientists who developed the bomb did not fully understand their creation until the Hiroshima and Nagasaki bombings.

"We were awed by the energy released by the bomb during the tests," he said. "We were shocked by the death it caused."

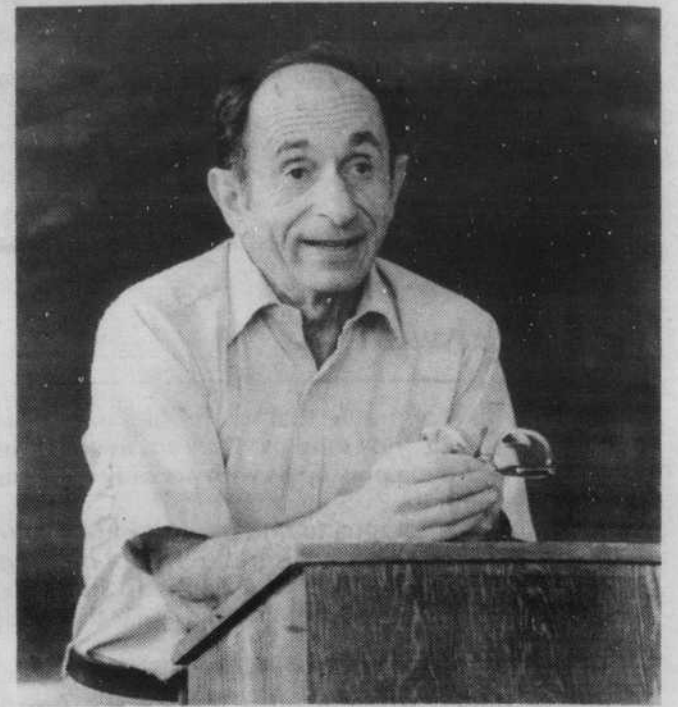
Immediately after the bombings, Novick said many scientists became ill. He complained of stomach pains.

And all the scientists were "very bothered" and dedicated themselves to the control of nuclear weapons, Novick said.

"It was a sin to continue with the project after the surrender of Germany," he said. "Now the bomb will be with us the rest of our lives."

Once developed, its production could not be kept secret. Building a nuclear bomb became shared knowledge among major powers, Novick said.

And there is no defense against the bomb because it is so destructive, he said. "You have got to stop every dang one."



Aaron Novick

The Soviet Union and the bomb threaten world survival. Politicians must strike a balance between these forces, Novick said.

And the public must learn what the different nuclear war positions really mean.

"Until very recently, people were seriously talking about surviving a first-strike offensive," Novick said. "This was used as an argument to build more weapons.

"But only a mad man would believe that he could survive a first-strike."

Novick said deploying nuclear weapons in Western Europe does not help our national security. One Trident nuclear submarine could destroy the Soviet Union, he said.

Adding to the stockpile of weapons just makes the whole system more unstable, Novick said.

The idea that there can be "Star Wars"-style battles in space is "utter nonsense," he said. Politicians supporting this scenario as an alternative to nuclear war are playing a "cruel trick on the public," Novick said.

All nuclear weapons must be destroyed and the traditional view of war must be changed to avert nuclear war, he said.

"If you want to have human civilizations, you cannot have war," Novick said. "World security must somehow depend on people having this understanding."

## Convocation schedule

2:45-3:45 p.m.

"Robots and Czech Literature" in 133 Gilbert by Bean McFadden, Affirmative Action director; "Wilderness and Technology" in 138 Gilbert by Charles Wilkinson, law school professor; and "The Politics of Aging in America: Golden Age or Raw Deal?" in 231 Gilbert by Gerontology Director Jeanne Bader, Ross Anthony — assistant economics professor — and Nancy Fadeley — KWAX public affairs director.

2:45-3:45 p.m.

"The Limits of Corporate Social Responsibility" in 331 Gilbert Hall by Robert Smith, economics and business professor; "Convivial Technology for the Global Village" in 238 Gilbert by Edward Comstock, international studies research associate, and Gerald Fry, international studies assistant director; "Career Choices in a Technological Society" in 341 Gilbert by Paul Frishkoff, accounting associate professor.

2:45-5 p.m.

Film: "Goodbye Gutenberg" in 150 Geology

with discussion led by Alan Kimball, honors college director.

4-5 p.m.

"The Face of Battle: Technology and No-Man's Land in World War I" in 133 Gilbert Hall by Roger Chickering, history professor, and Joan Pierson; "Tradition in the Humanities" in 138 Gilbert by William Calin, romance languages professor; and "Implications for Working Women of the New Technology" in 231 Gilbert by Joan Acker, Center for the Study of Women in Society director and Steven Deutsch and Donald Van Houten, sociology professors.

4-5 p.m.

"Lessons from the Anasazi 'Sundagger': A Marriage of Humanistic and Technological Endeavor" in 331 Gilbert by Caroline Shell, dance department head; "Public Involvement in Energy Planning" in 341 Gilbert by Dan Goldrich, political science professor; and "Drugs for Mental Illness: A Revolution in Psychiatry" in 238 Gilbert by Barbara Gordon-Lickey and Marvin Gordon Lickey, psychology professors.

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