national

Battalion/Page 9 November 8, 1982

A-bomb tests didn't cause cancer, government says

enough to cause cancer.

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attorneys are attempting to assemble to show U.S. District Judge Bruce S. Jenkins the government did not disregard the safety of downwinders when it conducted the Nevada atomic bomb tests in the 1950s and ear-

Dr. Lynn R. Anspaugh, a biophysicist at the Lawrence Livermore National Laboratory, testified on behalf of the government Friday as the federal trial ended its eighth week.

He said his analyses from computer-simulated data show doses to the most critical organs of the 24 cancer victims cited in the multi-million dollar lawsuit ranged from 310 rads to 0.28

But that's the total dosage received over the entire 11-year atomic bomb test program, so the yearly average for the highest dose would be only 3.1 rads. defense attorneys contend.

Smog tied to cancer of breast

United Press International BERKELEY, Calif. — Breast cancer may be linked to auto exhaust and smokestack emissions, researchers at the University of California at Berkeley say

Researchers have obtained the first experimental evidence linking benzopyrene, a hydrocarbon combustion byproduct, with breast cancer, laboratory officials said.

The findings were reported inarecent issue of the Journal of Cellular Biochemistry.

"Benzopyrene is the most common chemical carcinogen in the environment resulting from the burning of fossil fuels," said Jack Bartley, one of the two iomedical scientists who conducted the research.

"It may be found in automotive exhaust as well as in emissions from industrial smokestacks, and mammary cells are

United Press InternationalEarlier in the week, several
pathologists testified it wouldallow from the explosions at the
Nevada test site.SALT LAKE CITY — A \$6
million Energy DepartmentEarlier in the week, several
pathologists testified it would
generally take more than 50allow from the explosions at the
Nevada test site. study assessing radiation from rads received during a short nuclear fallout has determined period of time to initiate the exposure levels to the organs of chain of events in a cell that certain cancer victims were not eventually leads to cancer.

And if the doses are received The victims were cited in a in small amounts over a long massive lawsuit against the gov- period of time, the normal cell generally has a chance to repair itself from the initial damage be-That is the latest piece to the puzzle Justice Department fore the next exposure.

> Other testimony for the government noted the Atomic Energy Commission determined during the test period that 3.9 rads per year was the maximum exposure it could

by the plaintiffs testified that the

most damaging kind of exposure occurs from ingesting radioactive particles through food and air. So Anspaugh described how he calculated the internal expo-

sures each cancer victim received through inhalation or ingestion Earlier witnesses who are participating in the study - which is

becoming a cornerstone of the government's case — testified the data showed northern Utah actually received more fallout victim.

allow from the explosions at the than southern Utah, and monitors measuring the external radiation indicated negligible dose levels

> Anspaugh took those external measurements and then calculated the amount humans would ingest or inhale to reach his internal dose level.

Then he added the internal exposures to external gamma ray exposures computed by other participants in the study. Because individual human

organs react differently to radiation exposure, Anspaugh said he chose a critical organ most related to the type of cancer suffered for his study of each

itty bitty con iii with

vicki ann heydron

she will speak on researching the background of imaginary worlds. she will also read an exerpt from the bronze of eddartha, the third novel in the gandalara series.

after the presentation there will be an off campus party featuring the movie casino royale.

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upplied with enzymes which act on this substance," he

By exposing living breast cells developed in the laboratory to enzopyrene, the scientists identifed the cellular processes by which a chemical is converted into its cancer-causing form. Some of the benzopyrene was metabolized by the cells and ransformed into a biochemical lerivative that reacts with DNA, the carrier of the genetic code.

"This reaction has been suggested as a crucial event in the nitiation of cancer in a cell," Bartley said.

Studies in underdeveloped countries where the incidence of smog is much lower have shown a lower rate of cancer occurr-

Bartley also noted individual ounty studies in the United states indicate women in urban reas are more likely to develop ancer than those living in rural

Now you know

United Press International By the time a rye plant is 2 feet tall, it has 14 million roots and 14 billion root hairs. These struc-tures contact 6,800 square feet of soil - over three time the area of a singles tennis court.

