

THE UNBORN GENERATION

EDITOR'S NOTE — What effect might today's fallout from Soviet bomb testing have on children yet unborn? Scientists aren't agreed on the extent of the danger, though most geneticists consider some harm likely. This is the second of three articles on fallout.

By ALTON BLAKESLEE
Associated Press Science Writer

Princess Visits Maryhill Museum

MARYHILL, Wash. (AP) — Thirty-five years ago, Queen Marie of Romania came to Maryhill to dedicate the Maryhill museum, built in her honor by railroad tycoon Sam Hill.

She was accompanied by her son and her 17-year-old daughter, Princess Ileana, then an international beauty.

Ileana — princess of a kingdom that no longer exists — returned Wednesday to the museum to look at the displays of royal treasures of bygone days.

Still a strikingly handsome woman, Princess Ileana wandered through the museum, looked at pictures of herself at 17, and examined two thrones, one from her mother's summer palace and the other from the queen's private sitting room.

It was a good deal quieter than the first trip she made to the museum, which sits on a bluff overlooking the Columbia River.

Then, the royal party was taken to the museum in a private railroad car. Schoolchildren greeted the party, waving tiny U.S. flags. When Queen Marie snipped the ribbon in the dedication, flocks of white pigeons were released.

Princess Ileana, now the wife of Dr. Stefan Isrescu of Boston, is a lecturer and worker for the Orthodox Church of Romania in America. She was the speaker for the Yakima Knife and Fork club Wednesday and her hosts drove her to the museum.

Ileana can not go back to her homeland, now under Communist control. She has lived in this country since 1959.

Its radioactive fallout might doom hundreds of future generations — to early death or physical or mental defects from hereditary damage.

Most think the effect from present fallout — and that added now by the Soviets — will be a very slight fraction of one per cent increase over the number of children presently born with genetic defects. The increase could be so slight as not to be detectable.

But with 100 million children born in this world each year, even a slight increase in the rate of defective births could mean sizable numbers of damaged or still-born humans in 50 to 100 years or more.

Dr. Linus Pauling, famous California Institute of Technology chemist and a crusader against bomb testing, does estimate a number.

From a 50-megaton bomb alone, 40,000 infants born with physical or mental defects in the next few generations throughout the world, he says. And 400,000 more genetically injured during the next 6,000 years through radioactive carbon-14 created by such a bomb.

Other scientists disagree with his estimate, particularly that dealing with carbon-14.

The difficulty in any estimate is that some crucial facts are not known about human genes, produced in the sex glands, which determine the inherited characteristics that babies will have.

It is known that radiation can alter or mutate genes, and that most mutations are harmful.

It is not known if genes can resist tiny amounts of radiation, such as represented by fallout atoms which enter sex glands or genes.

All the evidence from experiments with animals, fruit flies, and single cells indicate there is no threshold or tolerable level.

Thus, geneticists assume any increase in radiation is potentially harmful.

Encouraging note, from mouse experiments, is that chronic exposure to a low dose of radiation (10 roentgens a day) given over a number of days produces fewer mutations than an equal total dose given all at once. Ex-

posure of sex glands to fallout atoms can be chronic or long-lasting, and at an almost infinitesimally small dose.

Many experts assume that natural background radiation has always been causing some of the genetic mutations to which the human race is subject. Heat and chemicals are more powerful causes of genetic changes.

A National Academy of Sciences committee has estimated two billion children will be born in the world during the next 30 years, and that some four million of them would possess tangible genetic effects from natural or spontaneous causes.

Different authorities estimate 2 to 10 per cent of such genetic defects might be due to natural background radiation.

So, even a slight increase in radioactivity produced by bomb tests could increase this rate of genetic mutations. The experts all agree the increase would not be enough to cause any worry about the future of the human race by any means.

Estimates Can Be Made. Various estimates can be made, as Dr. Pauling does, of the absolute numbers of persons who might be affected by the additional radiation from fallout. All such guesses start from the unknown as to what natural radiation actually is doing.

Dr. Pauling sees a sizable total number of future infants affected — out of many many billions who would be born in the next 6,000 years — from carbon-14 created by H-bombs.

The H-bomb reaction releases neutrons which can change nitrogen atoms in the air into carbon-14. Cosmic rays from space do the same thing, and create the natural carbon-14 which enters all living things on earth.

Dr. Pauling estimates a 50-megaton H-bomb would create enough carbon-14 to cause 40,000 deaths or defects from genetic changes in the next 6,000 years. Reason: carbon-14 can become part of the chemical materials of genes, and damage genes by the rays it emits, or because it then changes back to nitrogen.

Carbon-14 Over-Estimated. Other scientists hold Dr. Pauling has far over-estimated the amount of carbon-14 from bombs which would be available to affect humans.

And some say that through modern treatment, and humanitarian treatment, we are keeping alive people ill or weak because of defective genes, and the fact they can have children may result in passing along more defective genes than would ever result from fallout radiation.

A consensus of the experts: bomb testing represents a definite but small hazard to human posterity. Friday: Fallout's bad actors.

Unemployment Climbs Over Most Of State

SALEM (AP) — Unemployment climbed everywhere in Oregon over the past four weeks, except in the Ontario area, as seasonal agricultural work tapered off, the State Employment Department said Wednesday.

It said that 14,082 claims for unemployment insurance were filed for the week ending Oct. 26 compared to 11,395 four weeks earlier. This was a 23 per cent increase.

Unemployment was highest in the Grants Pass area where 9.3 per cent of the labor force covered by unemployment insurance was out of work. The lowest rates, 2.4 per cent, were in Corvallis and Ontario.

Percentages elsewhere in the state were 3.8 at Eugene, up 7; 4.9 at Medford, up 1.3; 4.2 at Pendleton and Milton-Freewater, up .9; 2.8 in Portland, up .2; and 3.2 in Salem, up 1.1.

The percentage of persons covered by unemployment insurance who were out of work in Oregon was 3.1 while that for the entire United States was 3.6.

Employment Commissioner David H. Cameron said that extended temporary unemployment insurance claims were increasing.

He said there were 223 of these claims for the week ending Oct. 26 compared to 255 for the week ending Sept. 28. To date 122,494 benefit weeks have been paid under this program for a total of \$4,028,762.

Oregon's unemployment insurance trust fund, he said, contained \$45,820,312, compared to \$42,931,588 the prior week and \$47,946,280 a year ago.

OFF-BROADWAY ON TOUR

NEW YORK (AP) — Off-Broadway is becoming a source of cross-country theatrical entertainment. Two long-run shows have been booked for tours this fall.

"The Threepenny Opera," housed for six years in a small Greenwich Village playhouse, started its trek at Toronto in September. In October, at Dayton, Ohio, "Hedda Gabler" begins an 8-week trip.

Hospital News

Visiting Hours
1 to 3:30 p.m. and 7 to 8 p.m.

Douglas Community Hospital Admitted
Medical: Jim Elwood, Annie Steele, Mrs. Wally Miller, Mrs. George Lindstrom, Mrs. Tom Harris, all of Roseburg; Clarence Walker, Winston.

Surgery: Mrs. Clifford Lovell, Mrs. Max Kimmel, Roseburg.

Discharged
Mrs. Alfred Boyd, J. Henry Barneck, Joyce Welling, all of Roseburg; Mrs. D. L. Burton, Wilbur; Linda Stepprow, Riddle; Jay Schotfield, Riddle; Mrs. Frank Butcher and son Kevin James, Sutherlin; Mrs. Larry Exceen and daughter Lisa Jean, Dillard.

Mercy Hospital Admitted
Medical: E. Leonard Lark, Jenny Jory, Mrs. Albert Samuels, all of Roseburg; Mrs. Laurance Edwards, Sutherlin; Glen Barton, Winston; Kenton Parsons, Umpqua.

Surgery: Mrs. Lewis Wilson, Roseburg.

Discharged
Melvin Rand, Dena Hansen, Nolle Bickford, Mrs. Edward Shifflet, Mrs. John Wyatt, Mrs. Gilder Ford, Mrs. Clifford Courtney, George Insley, Craig Jordan, all of Roseburg; Ann Blakeley, Sutherlin; Mrs. Robert Warmack, Winston; Russell Emel, Yoncalla; Karen Thayer, Oakland; Mrs. Bobby Linccum, Myrtle Creek.

ENGLISH STAGE IN FRANCE
PARIS (AP) — A permanent English-language theater is being planned here by Warren E. Trabant, an ex-journalist from New York.

Trabant expects to present translations of current French productions, plus some imports from Broadway.



A YOUNG GIRL sifts through debris for personal belongings and walks away with part of a bed as residents of Belize begin to dig their way out after the onslaught of Hurricane Hattie which struck the city early Tuesday. (UPI Telephoto)

Sutherlin Junior High PTA Sets Member Drive

A membership campaign contest was launched last week by the Sutherlin Junior High PTA, under the direction of Mrs. Betty Ouellette, membership chairman. The room with the highest per-

centage of parents joining the PTA will be presented with a special prize. Envelopes were sent home Wednesday with each student in the school, reports correspondent Mrs. Jerry DeMuth.

SHAW IN 'CARETAKER'

NEW YORK (AP) — Robert Shaw, an actor who doubles as a writer, has been signed to appear in the Broadway production of Harold Pinter's "The Caretaker." The British player was recently hailed by London critics for his novel, "The Sun Doctors."

See the Chevrolet Golden Anniversary Show—
CBS-TV—Friday, Nov. 3, 8:30-9:30 p.m. E.S.T.



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Join in Chevrolet's 50th Anniversary celebration at your dealer's now—By picking up a special order form from your dealer, you can order a "Golden Anniversary Album" LP recording of favorite American songs from Chevrolet for just \$1. (For your convenience, many dealers will have the album for sale in their showrooms.)



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Chevy II 300 4-Door Sedan

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