AT THE MOMENT OF THE A-BOMB STRIKE.

8:15 A.M., Monday, August 6, 1945. Weather: Fine and clear.

explosion, the plane had fir wn sixteen kilometers (about ten miles) to the northwest, Bomb. Making an abrupt right-turn, it departed at full speed. At the instant of the bomb artillery unit. One of them passed over the central part of the city, and dropped the Atomic an altitude of approximately 3,500 meters (27,800 feet), as observed by an anti-aircraft Three U.S. B-29's approached the city of Hiroshima from the northeast, maintaining

According to some cyc-witnesses, the unimaginably huge fireball was of bluish-white or forty-three seconds later, at an altitude of 580 meters (about 1,900 feet) above ground level. The bomb fell rapidly with a thick trail of red flames, and exploded with terrific force

pinkish-white hue

damaged. Fire broke out in many places, and much of detenation scattered dust all over the city, and most nouses were destroyed or heavily meters (about 29,700 feet), in the shape of a mushroom cloud. The blast caused by the the conflagration. Soon after the explosion, an enormous pillar of smoke rose up and swirled to 9,000 the city was consumed

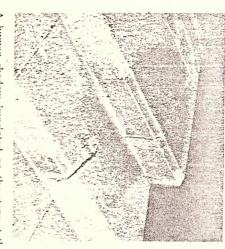
but also resulted in unpreparedness and human casualties of over 200,000 The air-raid "all-clear" alarm had sounded that morning. This led to a sence of reliet

THE THREE EFFECTS OF THE ATOMIC BOMB

The yield of the Hiroshima A-Bomb was equivalent to about thirteen kilotons of TNT in explosive power (1.3 x 10¹³ calories of energy). Three factors are considered to have worked concurrently at the instant of the atomic bombing. They are thermal radiation blast pressure, and radiation.

and a surface temperature of about 5,000°C one second later, a diameter of 280 meters attained a surface temperature of 7,000°C, and 300,000°C, 1/10,000 of a second after the developed in the air is estimated to have been The temperature of 0.3 second later, the fireball the fireball that

surfaces of roof tiles within 600 meters of the in the heat. Glass-like bubbles formed on the burned, and the surfaces of granite stones within one kilometer of the hypocenter melted hypocenter. Clothes and wooden houses also this fireball caused burns on the bodies of those The intense thermal radiation released by were within 3.5 kilometers of the



entrance to the Sumitomo Bank A human shadow imprinted on the steps at the

Photo by Y.SASAKI

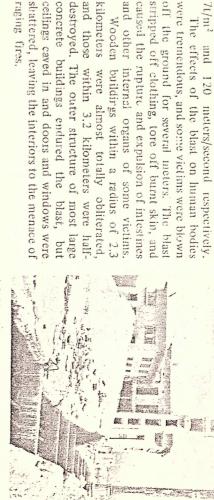
Blast Pressure

meter, and even at 1.3 kilometers from the hypocenter the maximum blast pressure and velocity are calculated to have been about The blast pressure at ground zero is estimated to have been approximately 35 tons/square

The effects of the blast on human bodies and 120 meters/second respectively.

stripped off clothing, tore off burnt skin, and and those within 3.2 kilometers were halfkilometers and other internal organs of some victims. off the ground for several meters. The blast caused the rupture and expulsion of intestines were tremendous, and some victims were blown Wooden buildings within a radius of 2.3 were almost totally obliterated

concrete buildings endured the blast,



A bridge blown up by the pressure wave Photo by T.KAWAMOTO

most seriously affected by a large dose of radioactivity. from the hypocenter. The area within a radius of one kilometer from the hypocenter was Bomb differed from conventional weapons, and the effect extended as far as 2.3 kilometers minute of the bombing, causing numerous physical disturbances. In this regard, the A-Gamma rays and neutrons played a primary roll in the radiation emitted within one

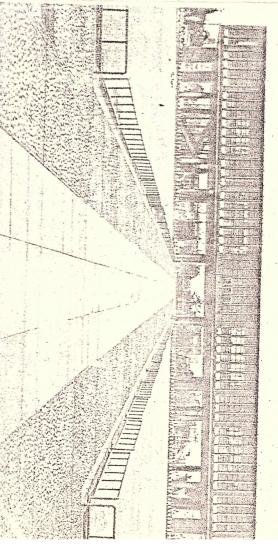
explosion. Anyone who entered the area within one kilometer of the hypocenter to aid victims or search for relatives within 100 hours of the bombing was considerably affected fell on the city for ninety minutes, containing huges doses of lethal radioactivity. by exposure to gamma rays. Then, from thirty minutes after the explosion, a "Black Rain" Residual radiation was present on the ground for a long time from one minute after the

lenkemia and malignant tumors. Some are still suffering in hospital beds, victims of radiation-Many have died over the years from chronic illnesses caused by radiation, including



The Atomic Mushroom Cloud





Address: 1-3, Nakajima-cho, Hiroshima City

Tel: (0822) 41-4004

Inauguration: August, 1955

Exhibits: Panorama, relics, diagrams and photographs showing the severe damage caused by the atomic bomb dropped on Hiroshima in August, 19-25.

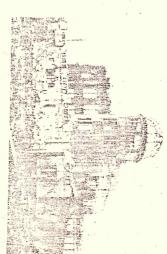
Museum Hours: 9:00 AM ~4:30 PM.

Open all year, except the last three days of each year, and

Admission Fee: Adults \$50 (Groups more than

30, ¥40 each)

Children ¥30 (Groups more than



A-bamb Dome Photo by K.HAYASHI

