

TRADES HALL

APRIL 21<sup>ST</sup>, 1954

158 69 7.5.23

PROFESSOR AHE BLEKSLEY  
ON THE HYDROGEN BOMB.

It is important to realize what we are confronted with when we discuss the Hydrogen Bomb. We must understand how it works & the extent of the damage which follows its explosion.

The Atom Bomb devastated Hiroshima in a manner which was unknown previously, this marked an increase in the destructive powers of man.

The Atom Bomb which was dropped at a height of approx. 500ft killed 50 Thousand people and injured 100 Thousand to a greater or lesser extent. Twenty Thousand died in 3 months. People will be dying all the time. It is not possible to foretell the delayed effects.

On the 6<sup>th</sup> Aug, 1945, when the atom bomb was exploded 4 square miles was devastated!

Now in order to obtain a better perspective :- Draw from Johannesburg station a circle with a radius of 1 mile which would include Hillbrow & certain Northern suburbs and imagine a similar explosion! Now in Naga Saki which is built on hills which give added protection, the total death roll figures were 50 Thousand people.

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② E. 158 74

The Hydrogen Bomb uses an atomic Bomb as a detonator. This alone is equal to the biggest bombs used in the history of warfare.

No details are known, but it is suggested that whereas the Atom Bomb ~~was~~ contained 20 Thousand Tons of T.N.T. The Hydrogen bomb is at least 600 times as powerful.

The T.N.T. Content of the atom bomb is 20 Thousand Tons but the Hydrogen Bomb contains so many tons of T.N.T. that it is non-sensical to talk in terms of tons therefore a new unit has been established which is known as a "megaton". The Hydrogen bomb contains 12 Megatons of T.N.T.

Bomb

Now in order to explode the Hydrogen Bomb only an atomic can be used which detonates it. The temperature becomes hotter than the hottest star, the hottest place in the universe. The temperature can be measured in hundreds of degrees centigrade. The pressure is devastating.

The Bomb moves outward in all directions. It flies faster than the speed of sound. The expanding mass increases and a ball of fire extending 150 yards is released. Its temperature is as high as the temperature of the surface of the sun. This powerful radiation



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can be compared to a piece of the  
sun, not 93 Million Miles away  
from the earth but 1 or 2 miles away

Twenty Two hundred times  
greater than the atomic Bomb  
the Hydrogen bomb is ~~is~~ equal to  
1000 Atomic bombs

If a Hydrogen bomb were to  
be dropped over Johannesburg at  
a height of 3 Thousand Feet,  
following the laws of physics there would  
result: - shock waves & a ball of  
fire with a radius of 2 miles, on  
touching the ground the area would be  
emersed in a mass of material,  
6 Thousand degrees centegrade.

No Man could remain on  
the surface, craters would be everywhere,  
Mans Nerve impulses are too slow to  
withstand the shock. In a thousandth  
of a second ~~man~~ he would be  
dissipated into smoke.

The Radiation would cause  
everything wooden to burn. Radforden  
or sponge would be wrapped in flames.  
The outrush of gas constitutes shock  
waves which knock down buildings  
within 20 miles, the updraught causes  
fire storms.

People would like these  
things to <sup>happen to</sup> someone else, but it is  
going to happen to us unless we  
are Eskimos. Radio active dust  
spares no one, no matter how great



E. 158

After atmospheric Winds<sup>75</sup>  
can carry gasses which fall  
through the Wind layers & fall  
land in the Orange Free State  
where people will breathe & eat  
the dust.

My business as I see it,  
is the situation which confronts  
us. There is no longer a front  
line. The front ~~is~~ line is where  
the wind blows.

The latest explosion of the  
Hydrogen bomb was only the  
third. exploded bomb, this is a  
baby, with practice a bomb  
containing "Regators" of T.N.T  
may yet be manufactured.



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**RECORDS RELATING TO THE 'TREASON TRIAL' (REGINA vs F. ADAMS AND OTHERS ON CHARGE OF HIGH TREASON, ETC.), 1956 1961**

**TREASON TRIAL, 1956 1961**

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