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Every Christian Should Know About the **A-BOMB**

OR
**FORTY STRANGE FACTS
ABOUT THE A AND H-BOMBS**

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By Gordon Lindsay

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WHAT EVERY CHRISTIAN
SHOULD KNOW ABOUT THE A-BOMB

OR

40 Strange Facts About the A-Bomb

By GORDON LINDSAY

Author Of

Bible Days Are Here Again
World Evangelization Now
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WHAT EVERY CHRISTIAN SHOULD KNOW
ABOUT THE A-BOMB

OR

FORTY STRANGE FACTS
ABOUT THE A-BOMB

CHAPTER I

STRANGE FACTS ABOUT THE COMING OF THE ATOMIC BOMB

STRANGE FACT NUMBER ONE—

The Prophet of the Atomic Bomb

IT WAS the year 1905, and a young professor who had just come twenty-six years of age, was sitting at a table in his study. His name was Albert Einstein. He had just completed a series of remarkable calculations. He had gone over them again and again, and they seemed to be right. If they were, he had made a discovery that would some day startle the world. According to his calculations, there lay latent in matter a hidden energy that was so great as to be almost beyond belief and the amount of atomic energy in a pound of coal was sufficient, if it could be released to drive the Queen Mary across the Atlantic and back again!

And thus did Albert Einstein become the prophet of the atom. But Einstein on that day was not thinking of the atom as a means of mass destruction which would one day give power to men to destroy the world. He thought of it only as being used for peaceful and constructive purposes. Albert Einstein was a pacifist. He dreamed that men through the genius of science might bring peace to the world. He did not know that peace would never come to this world save through the Prince of Peace. He did not know this Prince of Peace, for as a Jew he did not accept Christ as the Messiah.

Had Einstein known on that day in 1905, when he first published his scientific calculations of the power of the atom, what use man would put to it, he would have recoiled with horror. The time would come when Einstein himself would sound a belated warning. He would beg humanity to stay its mad pace in their pursuit of the secrets of the atom, lest world suicide might result.

STRANGE FACT NUMBER TWO —

The Atomic Age Began in Rome

The story of the atomic bomb is indeed a strange one. Though its prophet was Albert Einstein, the Jew, he was but its prophet, not its inventor. The dawn of the atomic age began in Mussolini's Italy in the year 1934.

In the University of Rome, at that time, a man by the name of Dr. Enrico Fermi, had gathered around him a curious group of young scientists. Among them was Emilio Segrè, a Jew. Another member of his team was Bruno Pontecorvo, later to become one of the world's most notorious atom spies, and who at the present time is believed to be directing development of the hydrogen bomb for Russia in the Urals. Naturally, Pontecorvo, while in Fascist Italy, carefully concealed his identity as a Communist.

The foundation of their experiments rested upon the mathematical equation developed by Einstein in 1905, which represents the power locked up within the atom. (Energy equals mass multiplied by speed of light.) Scientists at this time had become convinced that Einstein's equation was right—experiments with radium substantiated his calculations. But it was obvious that this power could not be released until someone learned the secret of splitting the atom. It was toward the solution of this problem, this little group addressed itself.

Now an atom includes electrons, neutrons and a central nucleus. Perhaps if they shot a neutron into an atom something might happen. But at first, nothing did. Then they slowed the neutron down by causing it to pass through a block of paraffin. Something happened then! Their geiger counter showed that the atom had been split and atomic energy released! Just like that, they had discovered the secret of the age-old dream of artificial transmutation of the elements!

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At that time Benito Mussolini was dreaming of reviving the old Roman Empire and perhaps even conquering the world. The secret of splitting the atom which would open the way to making the atomic bomb had been discovered at his doorstep! If Mussolini had only understood this in the year 1934, no doubt he would have forgone his war against Ethiopia and used his money on the development of atomic fission! It was several years before America was to get started on atomic research. Had Mussolini gone ahead and developed the atomic bomb, he might well have had the means of attaining his ambitions, instead of winding up by being shot as a second-rate Caesar. In those days many prophetic scholars had an idea that Mussolini was the Anti-christ, and at an appointed hour he would call fire down from heaven according to Revelation 13. They were wrong of course, but the strange thing is that Mussolini had the first chance of any ruler to have done that very thing! It was a good thing for the world that Mussolini never got the atomic bomb.

When Fermi saw that Mussolini showed little interest in his discovery, he went to America to have it patented. The patent office turned him down. However, other scientists learned of his discovery and he was given the Nobel prize. The patent clerk, now properly impressed, granted him a patent. Dr. Fermi then tried to sell his process to American industrialists, but everywhere he was turned down.

Mussolini at last became aware of the importance of his discovery and sent word for him to return to Italy. When Dr. Fermi was awarded the honor of the Nobel prize in Sweden, he failed to wear the black shirt of the Fascists and this brought a storm from the Fascist press. Moreover under Hitler's prodding, Mussolini passed some Anti-Semite laws. Fermi's wife was a Jewess. That settled it. They did not go back to Italy. Thus did Mussolini miss his chance to get going on the atomic bomb.

STRANGE FACT NUMBER THREE —

Hitler Might Have Had the Atomic Bomb

It was likely that Fermi would have gone to Germany, instead of America, when he saw that Mussolini evinced little interest in his discovery. For in Germany, there were many scientists eager to learn about his experiments with the atom. But because of Hitler's anti-Semite attitude, Fermi did not go. What would Hitler have given if he had understood, at that time, the significance of developments taking place? Certainly, he would have given every inducement to Fermi to have come to Germany to join in an all-out effort to develop atomic fission for the Third Reich. In such case the Fuehrer might well have had the bomb before the German military collapse on the Western Front. If Hitler had possessed a few such bombs even as late as April 1945, the course of the war would have been entirely changed!

As a result, it was not until 1939 that intense atomic research got underway in Germany. Scientists at the Kaiser Wilhelm Institute in Nazi Germany were now repeating the experiments conducted by Fermi. But those engaged in research yet did not fully understand the potentialities of atomic fission. It remained for a Jewish woman, Lise Meitner, who had fled from Hitler's Germany to Denmark, to mathematically analyze the atomic reaction that had taken place. It was this discovery that opened the way to the production of the atomic bomb. Hitler, because of his anti-Semite persecution, cut himself off from knowledge of what had taken place, and the precious time required for his scientists to win the atomic race was lost.

STRANGE FACT NUMBER FOUR —

A Woman's Fateful Discovery

It was a woman in the garden of Eden who by partaking of the forbidden fruit brought into the world a knowledge

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of good and evil, that resulted in the moral fall of mankind. Now the second time women were used to uncover the profoundest secret of the natural universe—the secret of using the atom for destruction. The first of two women to be involved in this discovery was Madame Curie, who discovered the element radium which is 2 million times as radio-active as any other natural element. Her discovery showed that nature could split the atom, though it did not reveal how men could artificially duplicate the feat. It did confirm however that Einstein's formula of the tremendous power locked up within the atom was correct.

It remained for the second woman, Lise Meitner to fully explain the secret of atomic fission. The scientists were now repeating Fermi's experiment but they did not understand the full significance of it. Lise Meitner supplied the mathematical genius that was necessary to appraise what had happened. Her calculations proved that chain reaction was possible and therefore the atomic bomb. When a neutron was fired under proper conditions, atoms were split and other neutrons released, thus a chain reaction might be set up that could, if sufficient uranium were present, produce an explosion that would dwarf anything that had ever occurred in the history of the world.

So it came to pass that woman, the second time brought knowledge into the world that has fundamentally changed the world. The first occurred in the garden of Eden when woman partaking of the tree of knowledge of good and evil caused the loss of the Edenic Paradise. The second time through disclosure of the knowledge of atomic chain reaction, she has revealed means whereby men may destroy the entire world.

What was Lise Meitner to do with the terrible secret that was locked within her breast? For one thing she decided that Adolph Hitler who had cast her out of Germany, must not learn of it.

STRANGE FACT NUMBER FIVE — Einstein the Prophet of the Atomic Bomb Conveys the Information to Roosevelt

In the Book "The Drama Of Albert Einstein" the fateful drama of the spread of the news is related:

"On her (Lise Meitner) arrival at Stockholm, she learned through a letter from Hahn that the experiment had been successfully repeated. She checked it herself once more and sat down to make a report. . . . She had seen at close quarters the machine of destruction that the master race was erecting to dominate the world. She knew that the force unleashed in the Kaiser Wilhelm Institute would sooner or later let hell loose on humanity. Feeling that the whole matter was extremely urgent, she wired a friend—a scientist in Copenhagen, Dr. O. R. Frisch (Son-in-law of Professor Neils Bohr) and gave him the essential facts of the discovery. . . . The news traveled with the speed of lightning. It crossed the sea to disturb the minds of those who would understand the significance."

In America Fermi and Professor Neils Bohr verified Lise Meitner's calculations. In an experiment they conducted on January 29, 1939, the results were conclusive. There was a turmoil in their minds concerning what they ought to do. While they were deliberating, rumors came from Germany that Hitler had got wind of the experiment and had mobilized 200 scientists to go to work on atomic research. These rumors were of ominous significance to the scientists. They conferred with Albert Einstein. After a day of solemn deliberation, they decided that Einstein should write a letter to President Roosevelt to inform him of the significance of developments. The following letter, one of the most fateful in the history of the world is what Einstein wrote:

"The results of the research recently pursued by E. Fermi and L. Szilard, submitted to me in manuscript, have revealed that we may in the immediate future expect to find the element uranium capable of being transferred into a

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new and a considerable source of energy. This new phenomenon may also lead to the construction of excessively powerful bombs. A single bomb of this type, transported by ship and allowed to explode in a port, could destroy the whole port and the surrounding territory.”

Later an interview was arranged. President Roosevelt listened attentively and then made an initial authorization of six thousand dollars, for immediate research. An advisory committee was set up which by 1942, was enlarged to the two billion dollar Manhattan Project. Fermi at once began construction of an atomic pile at University of Chicago, and on December 2, 1942 was able to accomplish the first atomic chain reaction in the history of man.

Footnote to history: Hitler wanted to conquer the world. The atomic bomb was the ideal weapon for him to accomplish his diabolical dream. But his fanatical hatred of the Jews, who were the ones who discovered the bomb's secret, caused him to engage in a violent crusade against them. Hitler thus squandered his great opportunity to secure a weapon by which he might have accomplished his madman's dream of conquering the world.

Did all these things just happen by way of chance? No indeed. There is a God in heaven who rules and overrules. God allowed the United States to get the atomic bomb first. Mussolini might have had it. Hitler might have had it. How they would have used it, is not hard to imagine. America would today lie in ruins in either case. The Nazi storm troopers would be walking up and down the streets of what was left of the cities of America. But the secret of atomic chain reaction got to these evil dictators too late. Their own malice, cut them off from the knowledge that they needed to produce the bomb.

America developed the bomb first. She used it to put a halt to World War II. Whether she used it in the right way at Hiroshima or not is a moot question. Nevertheless she

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did not use it to attempt to conquer the world, a thing that Russia would surely have done had she been in America's position. So America and the world have been given a few more years of grace before disaster strikes. What lies ahead? Will Russia attempt an atomic Pearl Harbor on America? What should the people of America do, during these hours of quiet before the storm, the hush before the battle?

We can say this much at this point. The Church of Christ must unite its forces at once. It must close its ranks. It must go forth in a mighty crusade to win the lost of this generation. What about you? Will you enlist in this crusade?

STRANGE FACT NUMBER SIX —

How the U.S. Got the A-Bomb in Time For World War II

There is a remarkable circumstance that made it possible to produce the A-bomb by July 1945. A man named Edgar Sengier, a financier and captain of industry, was chairman of the executive committee of the Mining Union of the Congo. It was in the Congo where most of the pitchblende at that time was mined — the ore from which uranium is obtained. Up till the time of events of which we are writing, the mining industry was interested only in the radium that came from it.

However shortly after the secret of the chain reaction of the atom had been discovered, Sengier was approached in circumstances of the utmost secrecy by a British physicist who told him that an atomic bomb using the element uranium was now possible. He warned him that it was of the utmost importance that no uranium should get into enemy hands.

Sengier thought the matter over and was so impressed that on his own initiative he decided to send 1000 tons of the rich pitchblende ore to the United States. This he did without telling anybody. Then in dead secrecy he announced to the proper authorities what he had done. For

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some reason however his message was forgotten. Nevertheless his impulsive act, of sending the pitchblende to America, was to have consequences of incalculable magnitude.

In 1941, when the atomic project at last began to get under way, an American Colonel paid a secret call on Sengier to request him to procure uranium from far away Congo as soon as possible. The Officer expected that months would be required to get the ore to the U.S. Sengier quietly told the officer that he already had ore in New York — one thousand tons of it! Thus the work of refining the uranium was able to begin at once. And that is the reason that the bomb was ready in August 1945, rather than many months later, when it probably would have been too late to have used it in World War II. Was it providence that was responsible for this strange circumstance that a man by one impulsive act should play so indispensable a part in bringing World War II to an end in August 1945?

STRANGE FACT NUMBER SEVEN — The Man Who Made the First Atomic Bomb Dropped by the U.S. Government as a Security Risk

The next question was this: Who was to be the man to direct the race to produce the atomic bomb? In theory it was possible to make it, just as it is theoretically possible to send a rocket to the moon. But an enormous task lay ahead before fulfillment could be realized. Not only billions of dollars would be required, but only a genius of the most unusual kind could carry such a project to a swift and successful conclusion. Only a person with the most exceptional energy and drive could hope to complete the task in time to use the bomb in the great conflict that was about to engulf the whole world. Time was the essence. It was known now for certain that the Nazis had learned the secret of chain reaction and were now feverishly working to get the bomb for themselves. If America lost the race, she might well lose the war. Who was the man for this job?

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Strange indeed was the man who was chosen—a man with a deep Communistic background, Dr. J. Robert Oppenheimer. Recently this scientist, who was dropped from U.S. research for security reasons, disclosed something of his past life. He attended Harvard (a school long surrendered to rationalistic thought). Oppenheimer says: “When I got out of school and went ahead, I felt very sympathetic with the nihilist spirit of these times”. Nihilism and Communism are closely related. About this time he studied Roman Catholicism, but it was powerless to awaken him to God. Communism had taken a deep hold in Spain, and Oppenheimer openly expressed his sympathy with that cause. When Franco clashed with the Communists bringing on the Civil War, he used his influence to aid the Communist cause, and to this day speaking of Communism, he avers that “some of their declared objectives seemed to me desirable.”

Oppenheimer in 1939, first met his wife who had been previously married to a Communist official who had died fighting in Spain. She was a Communist party member. Many other of his friends including his own brother were Communists.

But America needed a brilliant research physicist, one who understood the nuclear science. So the one that was chosen was Dr. Oppenheimer a man fully identified with the Communist cause.

Just before full scale atomic research got under way, Hitler invaded Russia. Then came Pearl Harbor and America became an ally of Russia. With this, Oppenheimer entered into the task of developing the atomic bomb with all the intensity of his being. For several years the whole force of his genius went into the work at Los Alamos. So it was that on July 16, 1945, a giant mushroom cloud arose above Alamogordo's sands as a result of his efforts. Less than a month later the war was over. Japan was completely subdued by the horror of atomic death.

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But before another year had passed, Russia revealed her true intentions. Having eagerly accepted an eighteen billion dollar donation from her ally America, she never lost a moment, after the war ended in continuing her world conspiracy to destroy her benefactor. Never for a moment had Communism dropped its plans for world domination. Methodically she broke her promises one by one. As America watched her overrun several Eastern European Countries through intrigue and fifth column elements, she at last began to awake to the deception that had been practiced upon her. Thus did the "cold war" develop between Russia and America. At that time Oppenheimer lost all interest in atomic development. He went into politics and began advocating a world government, to take control of the atom.

Then came the news that Russia had the atomic bomb. Should America pursue research on the hydrogen bomb? Oppenheimer was against it, and it is commonly stated that because of his prominent position, he was able to delay work on the project for a considerable time. Recently Oppenheimer has been dropped from all connections with U.S. atomic energy research, being adjudged as a security risk. Such is the strange chapter of the history of the man who developed the atomic bomb. But now we shall notice how the history of the world was affected by the labors of the man who had driven himself for over four years in the deepest secrecy to produce a frankenstein monster harmless indeed while its creator held it in leash, but infinitely destructive when given its liberty.

CHAPTER II

THE A-BOMB FALLS ON HIROSHIMA

STRANGE FACT NUMBER EIGHT —

The World's Most Powerful Explosion Takes Place

THE PRINCIPLE of the atomic bomb is simple. Once a critical mass of uranium 235 is present a chain reaction starts automatically. Hence the problem is not how to get it to explode but how to keep it from exploding until the proper moment arrives. The critical mass must be kept in two or more separate parts and brought together at the instant determined for the bomb to go off. One part of the mass has to be made as a "bullet" and the other part as a "target". The bomb is exploded by firing one part into the other with a specially constructed mechanism.

On the night of July 15, 1945, at an old ranchhouse 120 miles southwest of Albuquerque, New Mexico, the various parts of the bomb were assembled. General Thomas Farrell signed a receipt and accepted the bomb for the army.

Four days later preparations were complete for the explosion of the first A-bomb of history. It was 5:30 A.M. and as dawn spread over the sky the lightning flashed and torrential rains poured intermittently. It was a fitting hour for the advent of the atomic age.

A steel tower had been erected in a deserted section of the Almagordo Air Base. The bomb had been placed in the position previously appointed. Picked observers sworn to the greatest secrecy were assembled at a distance. They realized that in all probability they were to witness within the next few minutes a spectacle which would be one of the truly great events in history. Nor were they wrong. That morning was to end one age and begin another.

The witnesses awaited the zero hour with bated breath. No atomic bomb had ever been exploded before. According

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to all calculations it must work. The scientists seemed certain it would. Still everyone would know for sure only when the blast took place. Some two billion dollars had been spent on the atomic project. Would this enormous expenditure of money and effort be justified?

Zero hour was approaching. The man at the controls began counting. 10-9-8-7-6-5-4-3-2-1-0 — then the terrific flash! The area was lit up as if a dozen suns shown at noonday. Then came the shock waves, the noise of a mighty explosion, and the rush of wind as it escaped from the blazing center of the bomb. Then the glow slowly died away. In its place reared the monstrous head of a cloud rising miles high toward the stratosphere. Man had learned a secret that was to change the course of history.

Far away at El Paso, Texas, the brilliance of the flash had been seen. Would it cause someone to be suspicious? The following day the El Paso newspapers received a news item from the Alamogordo Army Base that an "ammunition dump" had accidentally exploded. "No one was injured," the report said. The Army had released this "news" for the benefit of nearby El Paso only.

In the meantime things went on as usual in a little-known city in Japan called Hiroshima. Little did the inhabitants realize that for them time was running out. Three weeks later 100,000 would die in the time that it takes a clock to tick.

STRANGE FACT NUMBER NINE — A Great City Dies

It was fifteen minutes past eight in the morning, August 6, 1945, when atomic fire flashed over Hiroshima. The city had little premonition that such an event would take place, although, for some time the people had been apprehensive about the possibility of a mass attack of B-29 bombers. Such attacks had visited many Japanese cities and the number of spared communities the size of Hiroshima was rapidly di-

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minishing. However with the exception of possibly a few Japanese nuclear scientists, the people of Japan had not the remotest idea of what awaited them.

In July, 1945, President Truman at Potsdam had sent a stern announcement to the Japanese people that new weapons of tremendous power were ready to rain destruction on Japan unless the terms of unconditional surrender were met at once. The Nipponese press responded by saying that such a demand was absurd. The war continued on. The Philippines by this time had fallen before McArthur's steady advance. The Japanese navy had made a suicide attack, and lost their most powerful battleships in a futile clash with the U.S. Air Force. On Okinawa, the Japanese soldiers had died by the thousands in a desperate but hopeless stand. Now the stricken nation braced itself for the expected invasion.

But in America, dramatic developments cloaked in the utmost secrecy were taking place. Shortly after the test bomb had been exploded in New Mexico, another such bomb was dispatched to the Pacific area.

In a few days' time it reached its destination and was assembled. In the meantime the ill-fated city of Hiroshima had been chosen as the target. Two Air Officers were selected and sworn to utter secrecy, while officials of high rank briefed them in their task of transporting the bomb to the target site.

The morning of August 6, in Hiroshima dawned bright and clear. Had it been cloudy that day, the city might have been spared and another target chosen. But destiny decided that the day would be fair. And so it was that at sunrise on that August day one hundred thousand people had less than three hours to live.

High in the sky the American B-29 moved swiftly on its appointed course, toward Hiroshima. By eight o'clock it was

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approaching the city and its bomb bays were made ready to open. Ten minutes later the fateful button was pushed and an object began parachuting to earth. Swiftly the B-29 wheeled in its course and sped homeward. How the American pilots felt at that moment might be difficult to describe. It is not easy to be the executioner of one hundred thousand people even if another hundred thousand will be spared by their death. Slowly but surely the parachute lowered its cargo of death over the unsuspecting city. At 8:15 a brilliant flash lit up the sky. For a brief moment the whole heavens seemed to be aflame. Then as the light faded a great cloud mushroomed up, and the day grew dark. . . .

In that moment of time a large section of the city had been vaporized. Temperatures up to a thousand degrees registered within 1200 feet from point zero underneath the blast. Hiroshima was deprived of its heart. The outer blast area was soon ringed by a blazing circle of fire, as several thousand houses began burning. As the distance increased from the target center, the proportion of persons who escaped death was greater. But many of them had been terribly burned and were in a dying condition. People ran wildly about with blood dripping down their faces and from their ears.

Before the people could recover from the blast a shock wave of air rushed outward in all directions. This powerful wind intensified the tragedy, carrying the fire into new areas. Thousands of people trapped in the debris and unable to extricate themselves were caught in the path of the flames and perished. Convection currents set up from the inferno itself carried the fire into still more remote reaches of the city. There was no hope of stopping it. It had to burn itself out. Not for several days was it possible to walk on all the streets and view the vast desolation. In some places the dead were piled so high that a bulldozer was necessary to open up a road through the human corpses. Buildings of steel

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had been twisted and torn asunder. Huge concrete slabs had been hurled through space.

Survivors asked themselves what had happened. Was it a "Molotov Bread Basket" (Russian cluster bombs)? No, it couldn't be! The blast was too great. It was days before the news reached the inhabitants that an atomic bomb had fallen upon them. By then the after-effects of atomic radiation were being manifest. Some women lost all their hair and became bald. Many people who had survived the shock of the blast got dreadfully sick. Wounds became swollen and inflamed and refused to heal. For months radiation sickness was the scourge of the city.

Radiation effects in the victims followed a well recognized pattern. Within a few days people came down with nausea, headache, diarrhea, malaise and fever. By another week the patient suffered with falling hair and his fever went up as high as 106. At the lapse of a month, gums bled, and the white blood count dropped sharply. If it went below a thousand, the person died.

Word came over the radio to the inhabitants of Hiroshima that the war had ended, with Japan capitulating, though not until another bomb had fallen on Nagasaki, bringing to that city a like harvest of death and destruction.

In Hiroshima at least 100,000 persons perished and many more were injured. Sixty-two thousand out of ninety thousand buildings were destroyed. In the center of the city only five buildings remained that could be used again. Nor was such a toll because of flimsy construction as has been claimed. Since the 1923 earthquake, government regulations have required that the roof of each building support a load of seventy pounds per square foot, while American regulations do not normally specify more than forty pounds per square foot.

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It was estimated by Japanese scientists that shelter from the radiation which would have adequately protected the people who were within a mile of the explosion would have required a thickness of four feet of concrete. But the Hiroshima bomb is obsolete. Its successor the Hydrogen bomb can be made at least a thousand times as powerful.

STRANGE FACT NUMBER TEN — Jesus Warned Men Not to Call Down Fire Out of Heaven to Destroy Men's Lives

When Jesus and his disciples were on their way to Jerusalem for the last time, they sought to avail themselves of the hospitality of a village of Samaria. But for nationalist reasons the people of this city refused to receive the apostolic party. The disciples felt the keenness of this rebuff and decided that these people should be taught a lesson. Had they not committed the crime of spurning their Creator? Why not give them their just desserts?

“And when his disciples James and John saw this, they said, Lord, wilt thou that we command fire to come down from heaven, and consume them even as Elias did?”

But He turned and rebuked them, and said, Ye know not what manner of spirit ye are of.

For the Son of man is not come to destroy men's lives, but to save them. And they went to another village.” Luke 9:54-56.

In the discovery of the atomic bomb, men have learned one of the most intimate and fundamental secrets of the universe. They have discovered how to make fire come down out of heaven on a larger scale than was ever performed in Bible days. They have learned how to make fire come out of “uoranus,” or uranium the ingredient of the atomic bomb. They know how to use this awful power to wipe out cities — with the indiscriminate destruction of the lives of men, women, children and babies. But may not its use be a violation of the law of humanity? If it had been necessary to

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have dropped the atomic bomb, then why not drop it upon military installations rather than upon helpless civilians? Or at least give the city a warning to evacuate. America went to war against the Kaiser because ships which carried her citizens as passengers were not given warning before they were sunk, so that the passengers could escape into life boats. Did possession of the atomic bomb give us a right to massacre great numbers of civilians? In so doing have we set a precedent, for future war, and may we expect the enemy to do the same thing?

CHAPTER III

STRANGE FACTS ABOUT THE A-BOMB

STRANGE FACT NUMBER ELEVEN —

Strange Facts About the Atom

ONE OF THE amazing things about the atom is the amount of empty space in this infinitesimally small particle. Recent research has resulted in a revolutionary discovery that matter consists chiefly of vacant electrically charged matter. The atom is actually a miniature solar system.

It was not until the year 1911, that Sir Ernest Rutherford in an experiment, revealed the architecture of the mysterious atom. He had been bombarding atoms with particles shot from radio-active substance. He was surprised to discover that his bullets passed right through the atom as if it did not exist. It was like shooting at a ghost. Finally, however, he did notice that occasionally one of the bullets hit something that deflected it — perhaps one out of ten thousand.

Matter itself is composed of clusters of atoms whose average diameter is about 1/125 millionths of an inch in diameter. The atoms which compose the molecule are so small that five million could be placed in a row on the period at the end of this sentence. Small as these particles are, the empty space in them is correspondingly greater than the empty space between the planets in our solar system. It is said that if the human body was compactly put together so that there were no empty spaces in the atoms which composed it, the person would be about the size of a small speck of dust! It is said that if all the empty space in the atoms of the earth were eliminated it would shrink to a small sphere of about a half mile radius!

No less astonishing is the velocity in which these particles travel about their atomic nucleus. They move about in their orbits at nearly a quadrillion times a second. Certain Beta

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particles which are shot off from atoms approximate the speed of light or 186,000 miles per second.

Enormous energy is locked up in the atom. It is said that if all the atomic energy locked up in a piece of coal could be utilized, it would be sufficient to take the Queen Mary across the Atlantic and back again.

The symmetry of the atom is a wondrous thing. The peculiar crystalline nature of the snowflake, each flake differing from another is a well known phenomena. This remarkable structure exists in the structure of the molecule and the atom. The architecture of a bit of soot when placed under a powerful microscope reveals a diversity of form, a perfection of symmetry, and an embodiment of mathematical precision which would make the world's greatest cathedrals look like child's work in comparison.

According to John A. O'Brien in his book "Truths Men Live By" the findings of the nuclear physicists sound the death knell of materialism, as an explanation of the universe and as a philosophy of life. These discoveries offer striking confirmation of the reality of the living God. "Every particle of matter is aglow with miracle and with mystery, singing a refrain in homage of that Infinite Power from whose creative hands it came."

STRANGE FACT NUMBER TWELVE — The Alchemist Dream Comes True! Transmutation of Metals Made the Atomic Bomb Possible

One of the curious arts of the Middle Ages was that of alchemy. Men spent their lives in the vain attempt to transmute baser metals into the more valuable ones, such as for example, lead into gold. All such attempts resulted in complete failure. Later alchemy came to be regarded as a pseudo-science. Anyone since the middle ages who professed to be able to change a baser metal into a precious one was

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considered in the same class as Christians who claimed they knew how to make a perpetual motion machine.

Yet before the atomic bomb became successful scientists had to perform that very feat! Uranium is the metal that is used to create the bomb. But only a certain kind of Uranium could be used — uranium 235. This uranium 235 had to be separated from ordinary Uranium. It was very difficult task, for uranium was only present in a ratio of one percent.

Then the scientists discovered a secret. Uranium bombarded with slow neutrons, changed to another element called plutonium in 2.3 days. Plutonium was completely fissionable! The great plant at Hanford, Washington, was built to turn out Plutonium. And thus did Uncle Sam become an alchemist. The U.S. government authorized \$350 million dollars to build a plant to fulfill this alchemists' dream. By the early part of 1945 enough plutonium had been transmuted to create several atomic bombs.

STRANGE FACT NUMBER THIRTEEN — The Small Size of the Atomic Bomb

The largest atomic bombs that are made are equal to perhaps something over a hundred thousand tons of T.N.T. (Hydrogen bombs are much more powerful.) If this amount of T.N.T. were placed in one pile it would make a cube approximately 150 feet square, and 150 feet high. If this much explosive were set off it would equal a blast of about the same power as that of a large atomic bomb.

Notice the amazing contrast between its size and its power. According to Dr. Ralph E. Lapp, who has been engaged in atomic research for over ten years, and also assisted in the original Manhattan project, the actual dimensions of the explosive elements of the atomic bomb can be compared to that of a baseball! Perhaps a trifle larger. This of course does not include the mechanism that is used to detonate the bomb, which may weigh from one to five tons.

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Such a mechanism is necessary to set off the blast. However the actual uranium that makes up the blast is only a few inches across. Dr. Lapp says: "The size of the A-bomb is sometimes confused with the uranium core which lies deep within the bomb package. The metallic core is roughly the size of a baseball." (Collier's Feb. 16, 1952).

Think of that! The object that is responsible for the mighty explosion that wiped out 100,000 inhabitants in a second of time is approximately the size of a baseball! But the incredible story is only partly told. One might reasonably suppose that every ounce of this small object is required in the nuclear reaction to create such an enormous explosion. But this is far from true. There is a transmutation of elements which actually uses up only a small part of the mass of this "baseball." This small fraction of uranium ceases to exist and becomes free energy. The rest of it is still matter, scattered widely of course by the blast, but wherever it is it still exists. Thus do we see the amazing and incredible power that lies locked up in the atom. It is the same power that causes the sun to shine century after century without an appreciable loss of mass or brilliance.

STRANGE FACT NUMBER FOURTEEN —

The Amazing Heat of the Atomic Bomb

As men studied the sun, they discovered by indirect methods that the heat of its interior was many millions of degrees centigrade. They saw that this heat was caused by a change in the hydrogen atoms. Physicists speculated on the possibility of duplicating the process in the laboratory. But they soon discovered that they had to have an initial heat of millions of degrees to "trigger" the process and the idea seemed hopeless.

The highest known temperatures attained in the laboratory up until that time were ridiculously small by comparison. Water boils at 100 degrees C. Gold melts at a 1,000

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degrees. Platinum at 1,755. Electric furnaces can reach a temperature of several thousands of degrees — a temperature at which almost every earthly substance vaporizes. But from this to a temperature of millions of degrees seemed a gap that could never be bridged. That was before the atomic era.

When the critical mass of uranium is brought together in an A-bomb the temperature rises to a fantastic amount so that for a millionth of a second it reaches the incredible temperature of fifty or more millions of degrees. It is this enormous heat that makes the power of the bomb. In a few seconds this tiny but inconceivably hot flame expands several billion times. In the atomic explosion, the flame rises a mile high. It changes into a mushroom cloud that rises to a much higher altitude.

When the A-bomb is detonated in the heart of a hydrogen bomb, it is this tremendous heat that sets off the hydrogen. The combination blast forms a red hot flame of whirling fire, miles in diameter. Such heat vaporizes everything near it, and will set fire to all inflammable material for many miles out from its center. If fire is a synonym for hell, then the hydrogen bomb is not misnamed when it is called the HELL-BOMB.

STRANGE FACT NUMBER FIFTEEN —

The Deadly Death-Rays of Atomic Energy

We have mentioned elsewhere that one of the by-products of atomic fission, aside from the terrible force of the blast itself, is the deadly radio-activity. Many inhabitants of Hiroshima who survived the blast died from the after-effects of the radiation. The fearful results of an overdose of nuclear radiation was told dramatically in the SATURDAY EVENING POST'S story of the tragedy of Louis Slotin.

This unfortunate incident took place in Los Alamos shortly after the war. This young scientist was manipulating

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some half-globes of uranium metal, the explosive part of the atomic bomb. When a sufficient amount of the metal comes together it will result in a chain reaction of such proportions as to cause an explosion. Where smaller amounts are used a chain reaction of heat and radiation results without the explosion. This particular experiment that Louis Slotin was performing had been repeated previously many times by himself. He was quite familiar with the experiment. The pieces of metal were gradually brought together in the presence of a geiger counter. As they were slowly pushed nearer and nearer to each other the geiger counter would click faster and faster until it was necessary to move the pieces back to avoid a deadly radiation. It was an experiment showing how far it was possible to go before chain reaction took place.

Suddenly something went wrong. Slotin's hand somehow had slipped and the geiger counter clicked insanely and then went dead. Slotin sprang into action and thrust the metal apart with his bare hands. The eight people in the room felt a prickly sensation on their tongues. They rushed from the room, while Slotin whose countenance had now turned ghostly pale, followed. In that brief moment all had received a serious dose of radiation. Most of those present however did not receive enough to more than temporarily affect them. One man was affected for several weeks, but fully recovered. A scientist standing right behind Slotin did not get off so easy. He received a dose of 180 roentgens, equivalent to the radiation from an ordinary atomic bomb explosion at a distance of 6,000 feet. For several weeks he was a very sick man. Large tufts of hair came out on the left side of his head and part of his beard stopped growing. Though he had a close brush with death, he eventually recovered.

But Slotin got the full force of the radiation — he had received 880 roentgens, almost twice the amount calculated

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to kill a man. From that moment he began to die. Before they could get him to a hospital he had vomited twice, and for the next 12 hours he continued to vomit. His skin began to peel and blister and his hands became red and swollen. He was conscious for several days, realizing all the while that his condition was probably fatal. The gold in his tooth became radio-active causing an ulcer. The white blood cells would not reproduce.

On the seventh day his mind began to fail. He could no longer recognize his parents or colleagues. Gradually he sank into a coma. On the ninth day he died. He had been exposed to radiation equivalent to that given off by an exploding bomb at a distance of 4,800 feet. This shows that anyone exposed to the radiation of the smallest bomb at the distance of one mile must die from the effects of the radiations. This is the kind of death humanity now faces on mass scale.

STRANGE FACT NUMBER SIXTEEN —

The A-Bomb Is the Suicide of Matter

The A-bomb secures its power through the annihilation of matter. Matter "dies" and becomes energy. This solemn secret has hitherto been withheld from man. Fallen man is not a fit person to use such enormous power. It is like a child finding a loaded high powered rifle, who may use it to bring death to himself or others.

Burn a lump of coal and the elements remain, changed of course, but still in existences. The ashes and gases that pass off are exactly equal to the original substance. All chemical processes leave the element itself unchanged. Its electrons may change their relationship in their orbits around the atom. Or the atoms themselves join up with other atoms to make a new substance. But in all cases the atoms themselves remain unchanged.

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Not so with atomic fission. In this case matter ceases to exist. It no longer is matter. It has been turned into energy. Thus in reality the atomic explosion is the death of a certain amount of matter. It has been dissipated in the form of energy.

The use of atomic energy is not wrong in itself. God uses atomic power to make the sun shine. But this secret in the hands of fallen man, in time, if God does not interpose will result in race suicide. It is so powerful a force that it gives man a means by which he may destroy himself. Only the Coming of Christ can save the world from utter destruction. Even as Jesus said, "Except those days be shortened no flesh should be saved. But for the elects sake those days will be shortened."

STRANGE FACT NUMBER SEVENTEEN —

The Fantastic Power of Atomic Destruction

How great is the power of an atomic bomb? So much has been said about Hiroshima and Nagasaki, that the realization of the destructiveness of this weapon has worn off a little. Let us therefore consider what happened in Halifax on December 6, 1917.

On that morning a French ship by the name of Mont Blanc was in the harbor of that Canadian seaport. At that time Halifax was a town engaged in the business of war. Suddenly a flicker of blue flame appeared on the ship. The sailors on the ship knew what that meant — on board the Mont Blanc were 4,000 tons of T.N.T.! The sailors fled in a life boat, rowing from the scene in mortal terror. A group of courageous British sailors from a nearby boat clamored up on the deck and attempted to put out the fire. Their heroic efforts were in vain.

Seventeen minutes after the fire had first been seen, the cargo in the ship exploded. A shaft of yellow light pierced the upper air for a mile. It whirled like a waterspout. Then

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its top spread and the pillar of fire mushroomed into an enormous purple cloud. The Mont Blanc vanished. Plates ripped from her hull fell in a hissing rain on ships and houses. Death advanced over the water. All sailors who were above deck in the harbor were flattened by the concussion. A huge rock was ripped out of the bottom of the harbor and hurtled through the air, killing 64 workers on a pier. The great globe of fiery gas sped landward.

Now the force of the gigantic explosion, greater than ever known in the history of man, advanced up the valley. Two hundred school children had only time to rise from their seats when the walls of their school fell in and all perished but three. Factories and entire streets of houses collapsed. People were lifted high in the air and dashed to death against walls and other objects.

Fires started in a thousand places, and all joined to form one consuming blaze. Out of this inferno, running and stumbling came the blind and the maimed, the dogs and cats, horses galloping in a frenzy.

The actual city of Halifax was some little distance from the harbor. The after-blast broke windows and toppled walls all over the city. People fled in every direction. Many thought it was a German air raid from the sky. Panic-stricken people fled to the country.

Then came the invasion from the harbor front. Preceded by cries of torment a mad horde stumbled and crawled and groped toward the streets of the main city. Blood dripped from their faces. Some ran with stumps of wrists held before them. Children lacerated and bloody led blinded parents. Scores died as the procession moved up the hill.

The aftermath of the explosion was a sickening scene. There was the nauseating odor of burning human flesh. Wagons rolled out the half-naked bodies of workers from the factories. Many bodies of sailors were tossed up on the

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shore from the tidal wave that followed the blast. Two thousand died and some 20,000 were injured.

This was the size of the catastrophe when 4,000 tons of T.N.T. exploded. It was the greatest that the world had ever known up till July 16, 1945. But the out-of-date A-bomb that struck Hiroshima was equivalent to 20,000 tons of T.N.T.! Modern A-bombs are equivalent to 100,000 tons of T.N.T. But at least one of the H-bombs that was exploded in the Pacific was equivalent to 12,000,000 tons of T.N.T. And future bombs are expected to reach a potential of 50 million tons! Beside such figures the Halifax explosion of 4,000 tons of T.N.T. seems small indeed.

CHAPTER IV

THE HYDROGEN OR HELL-BOMB

STRANGE FACT NUMBER EIGHTEEN — Men Learned the Secret of the Hydrogen Bomb From the Sun

FOR MANY centuries men wondered what kept the sun shining with such unabated intensity. If it were made of coal, the heat lost would result in a dying sun within a few thousand years. But the sun shows little signs of dying in the predictable future. Gravitational theories accounted for some of the heat, but this theory also was inadequate. Then men began to discover things about the atom. They learned that the sun was largely composed of hydrogen and helium. As time went on they discovered the secret of the sun's fire. Hydrogen atoms were changing into helium atoms. In the process there was a loss of mass. A certain amount of matter was turning into energy. That was what was keeping the sun hot.

But hydrogen turns into helium only when there is a tremendous heat present. Scientists estimated variously that the sun was many millions of degrees hot in its center. This was far beyond any heat developed on earth. At that time there was no thought of duplicating this process on earth.

Then came the creation of the A-bomb which upon explosion produced temperatures comparable to those which are in the interior of the sun. Why could they not surround an A-bomb with hydrogen and thus make a bomb with a hundred times or a thousand times more power? The A-bomb would "trigger" the greater blast.

But there was one more problem to surmount. Ordinary hydrogen turned into helium too slowly for a bomb. That was the problem of the hydrogen bomb. Then they discovered a rare variant of hydrogen called tritium. This element contained properties which would permit instantaneous re-

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action. New plants to produce tritium were constructed on the banks of the Savannah River costing a billion and a half of dollars. On November 1, 1952 the Army had the H-bomb and set it off in the Eniwetok Group. The power of this first hydrogen bomb was 250 Hiroshima bombs. The tritium was releasing still another element, lithium. Lithium is a cheap plentiful light element. There is no limit to the size of the hydrogen bomb except the limitations of the planes that must carry it. The upper practical limit of the bomb seems to be about 1,000 times the power of the one dropped on Hiroshima.

STRANGE FACT NUMBER NINETEEN — Men Predicted the Power of the Hydrogen Bomb Before it Was Produced

When men set to work to produce the hydrogen bomb, they knew by mathematical calculation its fearful power before they learned how to build it. They estimated that it would be a thousand times more powerful than an A-bomb. The following was a *prediction* of the power of the hydrogen bomb by an expert William L. Lawrence in LOOK MAGAZINE a year before the U.S. government officially released the facts about the results of the actual hydrogen blasts:

“We know our scientists have developed an A-bomb about six or eight times as powerful as the A-bomb dropped on Japan in August, 1945. This means that our present A-bomb has an explosive force equal to 100 or 150 thousand tons of T.N.T.; that the bomb develops at its heart a temperature ranging from 150 to 200 million degrees centigrade.

“But remember, this fantastically powerful A-bomb is merely the trigger that sets off the H-bomb.

“The H-bomb is what is called an “open end” weapon, which merely means that it can theoretically be built as powerful as the maker desires. So if we talk of destructiveness, we can discuss any magnitude we want, within the

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limits of common sense. The usual figure is that of an H-bomb 1,000 times as powerful as the original A-bombs, and that is as good a figure as any.

“Such a bomb, to be effective, would be detonated high in the air, many miles above the city that would be its target. In a flash of a millionth of a second, the A-bomb that is its trigger would burst into fury and with it the hydrogen atoms would fuse and turn their wrath upon the city below.

“Heat would reach the ground first, vaporizing steel and wood and humanity directly below the explosion. For as much as 35 miles in every direction, irresistible fires would burst forth; everything that was inflammable would roar into flame simultaneously. For at least another 15 or 20 miles further out, damage would taper off. But lethal burns would be suffered by exposed persons, and any highly inflammable material would go up in flame.

“Almost immediately after, the blast would come. The burning buildings would be pulverized or hurled to the ground. In the center of the explosion it would make little difference, for the initial heat would have left nothing alive or standing. But at the margins, those men and women, or those structures which had withstood or avoided the heat, would crumple under the blast. In all, the explosion would rend 300 square miles — larger than the heart of any great city in the world.

“Then the fire storms would come. The roaring heat would churn the atmosphere into fury, and great hurricanes would be set up, differing from normal hurricanes in that human forces, rather than the forces of blind nature, set them off. The fires would be borne out of the city to all the inflammable material of the neighborhood; the trees in the parks, the walls of the suburban houses. The human mind could not measure the extent of the catastrophe.”

The writer goes on to say that this terrible bomb could be made even more hideously awful. It could be “rigged,”

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by being encased in cobalt. Cobalt absorbs the radio-active energy. Then when diffused by the force of the blast, this deadly cobalt radio-active dust would carry death to great distances beyond the immediate bomb damage. This then is the horror of the hydrogen bomb. Actual tests proved that the estimates of the power of the bomb were not exaggerated. *The bomb proved to be even more powerful than was expected!*

STRANGE FACT NUMBER TWENTY —

Strange Facts About the Range of the Hydrogen Bomb

For a time the U.S. government considered the question of whether to proceed with the development of the Hydrogen bomb. Then in the year 1949, the nation was startled to learn that Russia had the A-bomb and in fact had exploded several. This development forced immediate decision by the government to begin development of the hydrogen bomb.

In November, 1952, news trickled through to the American public that the first hydrogen bomb test had been a success. Later by television and official release, detailed information was given by the government as to what had happened. Something of tremendous importance had taken place. The bomb had been exploded on an island of the Pacific. After the bomb cloud passed away the island had disappeared, vaporized, and instead there was a hole in the ocean floor a mile long and 175 feet deep.

In March, 1953, another explosion had been set off at Elugelab. This explosion proved to be far more powerful than had been expected. A ball of fire like another sun rose over the Pacific. The cloud mushroomed up 25 miles high. Then it spread out for a 100 miles. Over eighty miles away were some Japanese fishermen. Fallout from the explosion drifted down upon them. The fallout was a deadly radio-active ash. The men made for port, arriving there in a con-

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dition that alarmed the whole Japanese nation. The crew men were tuna fishers, and their catch of tuna was tested and found contaminated. This resulted in all tuna fish catches being tested as they were brought into Japanese ports. But far more ominous to the citizens of the world was the fact that people who were nearly a hundred miles away from an H-blast could receive radiation doses of sufficient power to make them dangerously ill. This was not speculation — the deadly power of one “unrigged” H-bomb explosion could reach out a hundred miles in any direction from its center.

STRANGE FACT NUMBER TWENTY-ONE — The Death Mist

What has just been said brings us face to face with other atomic potentialities of destruction — the radiation, the radio-active mist and the fallout. At Hiroshima thousands of people not instantly slain by the bomb were seriously injured by the radiation at the time of the explosion. Although they were far enough away so that the force of the explosion and the resultant heat was not sufficient to cause physical injury, yet the deadly radiation produced a lingering radio-activity within the bodies of the victims. Some who might have lived, unwittingly wore contaminated clothing on their bodies until the radiation had done its work. Many who lived, suffered serious after-effects of the deadly rays. Some of the women otherwise effected but slightly, became sterile as a result. Other strange physical effects have been noted. Victims of the Hiroshima radiation are still under observation at this late date, as investigators search for more information on the after-effects of exposure to atomic radiation.

Yet the historic explosion at Hiroshima was produced by a comparatively “weak” bomb equivalent to only 20,000 tons of T.N.T. No attempt was made to “doctor” the bomb so that its radio-activity would be increased. It was dropped

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in an area where water was not involved in the explosion. As has been previously mentioned it is possible by adding certain radio-active absorbants to either the atomic and hydrogen bombs to make them very much more deadly in increased radio-activity. It would be possible to increase the contamination of an area to a degree that it would not be habitable for human beings for a very considerable time.

Exploding the bomb under water will greatly augment the deadliness of an atomic blast. The explosion at Bikini was under water. A death mist arose from the scene that would have brought certain death to any who were within a large radius from the center of the blast. Objects in the ships revealed a contamination that was far from being safe, months after the explosion. Ports such as New York, Chicago and San Francisco would be extremely vulnerable to a death mist which might be produced at the time of an atomic explosion in their water areas.

Still one more thing must be mentioned, for it has been taken into account by scientists. Some scientists are worried whether a gigantic hydrogen bomb explosion might break through the earth's crust, releasing the pressures and the fires, which smolder in the heart of the earth. Occasionally a weak place in the earth does permit molten lava to break forth. These are called volcanoes. Will some super-bomb in the future be set off at a weak point in the earth's crust and release the torrential fires of the hot interior? Perhaps not. Perhaps again it might happen. Only time will tell. Scientists reckon with this possibility.

STRANGE FACT NUMBER TWENTY-TWO — The Possibility of the H-Bomb Getting Away From the Scientists

This has been a question that has been asked by many people since the first A-bomb was set off. Will bombs be made so powerful, that at last one will get away from the scientists? The nature of the A-bomb is such as to raise

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that question — for its power comes from the principle of chain reaction and should it “trigger” any free elements it could easily destroy the earth. The chain reaction in that case would go on continuously until all the atoms that are responding to the reaction have fissioned.

In an ordinary A-bomb, the extent of the explosion although terrific, is definitely limited. When the uranium atoms present in the blast have been fissioned or else driven so far apart that the chain reaction stops, the limit to the power of the explosion is reached. For this reason A-bombs have a limit to the size which can be efficiently used. This however, does not hold true with the Hydrogen bomb. In this case the A-bomb merely triggers the hydrogen bomb. It manufactures the heat necessary to break down the hydrogen atoms, which in turn go into a chain reaction which does not stop until the hydrogen is exhausted.

When the scientists set off the hydrogen bomb, they made a startling discovery. Their explosion was far more powerful than they had expected. Where did this extra power come from — equivalent to additional millions of tons of T.N.T.? Although the navy had cleared the ocean for a distance of eighty miles, yet the mushrooming cloud spread out a hundred miles in diameter. Japanese crewmen over eighty miles away from the blast became dangerously exposed to the radio-activity from the fall-out so that in a short time their skin was burning from the effect of the deadly rays. What had gone wrong? Had scientists tinkering with the secrets of the universe gotten a hold of something that they didn't fully understand? That question has not yet been fully settled.

The fact is that the scientists had miscalculated badly. As to what actually happened there has been much speculation. We do know that pure hydrogen exists in the upper levels of the atmosphere. Had the explosion reached high enough to start a chain reaction in the lower strata of this

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hydrogen? Did this account for the extra power of the bomb? Some deny this but others are not so sure. The possibilities were such as to cause men to look apprehensively upon the whole thing. Many voices rose demanding an end to hydrogen bomb experiments. Such a cry was futile since it is known that Russia is now making H-bombs, and at such a time as she should choose she would not hesitate one moment to use the Bomb to accomplish her own ends.

CHAPTER V

NO PLACE TO HIDE

STRANGE FACT NUMBER TWENTY-THREE —

The Possibilities of Invasion Over the North Pole

THE NORTH POLE until 1910, was an unconquerable spot in the frozen waters of the North. Over a period of centuries many explorers spent the best years of their lives, and in some cases died from the treacherous cold, in an attempt to reach it. In April, 1910, Admiral Peary after years of persistent effort, at last reached the goal. He planted the U.S. flag, took hurried observations, then quickly treked south in a race against time to reach safety. Now a strange thing has taken place within the space of a generation. Passage over the North Pole is considered the easiest path of approach for Soviet planes to reach the U.S. and destroy its cities with A-bombs.

According to William A. Ulman writing for *Colliers*, Russian planes are daily invading Canadian Skies. At the same time, so officers of the U.S. Army in Alaska report, Soviet planes are reconnoitering in that area. In other words Communist planes during the summer seasons are daily violating U.S. and Canadian territorial frontiers. What is their purpose? They are spotting out radar defenses and taking photographs of our coasts. When our jets streak out to meet them they turn and run.

Ulman declares that in case of war our defenses at the present are not sufficient to stop Russian planes from getting through. Yet should only one plane get through with a hydrogen bomb, one can imagine what would happen to Chicago, Detroit or some other great U.S. city. Because of this extremely dangerous situation the U.S. is rushing to complete its radar defenses. The Defense Department is trying to build a radar network which will spot any hostile

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planes six hours before they could reach our territory and thus give our fighter jets opportunity to make contact with them and shoot them down. But for radar to spot them, they must come in high. What if they travel close to the ground?

Six hours of warning would come in handy. It might give a city a chance to evacuate a large proportion of its inhabitants. The cost of radar defenses will be fabulous, but there seems no alternative, and the U.S. and Canada are rushing this construction. In the meantime we are warned by military experts, that in case of war, at the best some planes will probably get through. That is cold reality that America faces today. Remember one hydrogen bomb has the same power as that possessed by all the bombs dropped on Germany during the late war!

STRANGE FACT NUMBER TWENTY-FOUR —

U.S. Vulnerability to Atomic Attack by Submarine

Suppose however America builds a radar defense of such perfection (which military experts do not concede is possible) that planes coming over the North Pole could not penetrate it, then Russia has another method of attack, which would be even more difficult to overcome — that is atomic attack by submarine. The United States announced some time ago, guided missiles had been successfully launched from submarines. It is planned to use atomic warheads in these missiles which would be far more deadly than any conventional explosives which were ever used in the rockets of World War II, which nonetheless wrought great destruction in London. In this field we would have little opportunity for reprisal since Russia has few if any targets which would be practicable to reach by means of submarine.

But the U.S. is highly vulnerable to submarine attack. Many of our great cities and manufacturing centers lie

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within a hundred to two hundred miles of our sea coasts. It is believed that Russia has at least 400 submarines already, and more are being built as rapidly as possible. Submarine experts say that one of Russia's first moves in an atomic war would be to send a large fleet of these subs off U.S. shores. The chances are that most of these could come close without being detected.

At a prearranged signal each submarine could surface for a few minutes and then fire two or three guided missiles toward the port cities. The war heads of the missiles would carry atomic explosives, and could be fully guided at 1200 miles per hour by the mother sub, to land on the target. Such an attack, even excluding all possibilities of invasion by bombers over the Pole, could stun the nation.

Such subs would perhaps concentrate their attack on the cities near the coast. At close range they could achieve great accuracy. Five of the nation's largest metropolitan areas lie within a range of guided missiles as of present development. Each year however the range of these weapons is being extended. If that range reaches as far as 600 miles it will include 39 of the nation's largest cities.

STRANGE FACT NUMBER TWENTY-FIVE

Menace of the "Suit Case" A-Bomb

Supposing that a radar network could be constructed that would insure such a perfect defense that no Russian plane could hope for successful penetration of U.S. and Canadian defenses by attack over the North Pole, and also that an anti-submarine defense had been devised that practically excluded danger from this source. Yet Defense experts point to another danger. An Atomic Bomb or Hydrogen bomb would occupy a comparatively small part of the capacity of a merchant ship. Such a bomb might be camouflaged and smuggled into the hold of a ship of some nation which does business with United States. While such an attempt might be unsuccessful, yet if Russia were to succeed in secretly

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sending hydrogen bombs in the holds of a dozen ships to as many of our main ports, she could well destroy one half of the capacity of United States to make war. Attack in this manner might seem a remote possibility, but our national defense department is not passing up any such possibilities. Even one smuggled bomb in the hold of a merchant ship could do incalculable damage. In case of such a blast the water of the port would be diffused in the atmosphere to rain down in drops made radio-active over a wide area to contaminate what might be left of the city and render it completely inhospitable to human habitation. It will be noted that the ships at Bikini that became contaminated remained radio-active for many months afterwards. The point to all this is that America is in grave danger — a danger greater than at any time in her history. No matter how strong her defenses are, she can never be quite sure that she has anticipated every contingency. The destruction of our fleet at Pearl Harbor seemed an impossibility. But it happened just the same.

Danger from A-bombs secreted in merchant ships can no longer be considered a fantastic possibility, when just recently J. Edgar Hoover, director of the FBI has announced a national alert against "suit-case" A-bombs. The fact is that the trigger equipment of an A-bomb has been greatly reduced in size. A-bombs can now be shot out of the mouth of a gun. This reveals that the over-all dimensions of the complete bomb can be made comparatively small. A mechanism of some kind is required to bring the component parts of the bomb together to produce the critical mass. This could be a time-clock affair which would set off the explosion long after the enemy agent had placed the device in a secret place in the center of a large city and had taken himself far away. FBI Director Hoover warns the nation to be on the alert concerning any transported object of unusual weight. Uranium is heavier than gold.

CHAPTER VI

STRANGE EFFECTS OF THE A-BOMB

STRANGE FACT NUMBER TWENTY-SIX

The After Effects of the Atomic Bomb on People

THERE IS NO controversy over the fact that the atomic bomb has a definite after-effect on people who are near the explosion but who survive it. A serious dose of radiation caused thousands to die, who survived the force of the explosion at Hiroshima. Day by day the deadly radiation absorbed in the body continued its deadly work.

Some people received lighter doses than others, and apparently they completely physically recovered. Yet the radiation effected them also. Women became barren. Men were made sterile. Children born after the explosion of mothers who had been exposed to radiation showed marked effects. Investigation is still going. No one is able to say yet what was the full story of what had happened. One thing seems certain. In case of a full-scale atomic war, the population which escapes immediate death or injury will suffer harmful after effects. Just how severe these after effects will be is not yet known.

STRANGE FACT NUMBER TWENTY-SEVEN

The Effect of the Atomic Bomb on the Weather

The U.S. government denies that the atomic bomb explosions have any effect on the weather and some scientists agree with this conclusion. But by no means do all scientists so agree.

The effects of the bomb which was exploded in Nevada were felt as far away as Rochester, New York, where film in the laboratories was ruined by the radio-active dust which had travelled that far. This indicates the great areas over which this dust disperses.

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It is a well-known fact that finely divided dust does have a notable effect on the weather. Silver iodide particles sent up in a smoke cloud have been used on occasions to precipitate rain. This being true, and scientists pretty well agree that it is true, there certainly is a possibility that these highly radio-active particles dispersed over the earth's surface are effecting the weather.

One thing is certain. More weather records have been broken in recent years as far as variations in the weather are concerned than at any other time in recorded history. The drouth, the severe storms, the floods that have caused billions of dollars worth of damage, cyclones exceeding any of previous time in destructiveness, have followed one after another. Perhaps this is coincidence, but then again it may be more than that. A considerable number of scientists believe that there is a connection between the atomic explosions and the unprecedented extremes of the weather. Certainly it is a most unusual coincidence.

STRANGE FACT NUMBER TWENTY-EIGHT — The Riddle of the Marred Windshields

Recently a new mystery has appeared which has defied the explanation of experts. As usual there are those who would give the whole matter a natural explanation. These persons are unwilling to admit that there is anything going on in the universe that they cannot understand or explain. Nevertheless sober investigators find that in this new mystery there is something that they cannot explain — this is the riddle of the marred windshields.

TIME MAGAZINE of May 3, 1954 has this to say: "George Higgins of Modesto, California, auto-repair shop owner, watched his automobile windshield catch the 'Pox' last week. At 8:00 A.M. he parked his car outside his shop. The windshield was clear and unmarred. At 8:02 A.M. he noticed two pits on it. At 8:25 A.M., the glass was dotted with 25 holes. By 9:15 A.M., Higgins counted more than 100

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craters, varying in diameter from the size of a pinhead to that of a pencil.

"The Pox started in the Pacific Northwest in mid-March, as car owners reported jagged-edged holes, some the size of a quarter, in their windshields. The malady spread down the coast to California, and eastward to the Midwest. Last week, the Eastern Seaboard heard of pitted windshields in New York and New Jersey and exploding rear windows in Atlanta. What is behind this rash of pockmarks? Is it radioactive dust from recent H-bomb explosions? Meteor dust? Defective glass? . . .

"The experts in such matters, wary of their experiences with Flying Saucers, are not leaping to conclusions. When windows in the research building of the Ferro Corp., Cleveland, developed deep pits, Ferro's chief chemist, Dr. Ernest Goda, examined them carefully. Dust scraped from the pits contained iron and had magnetic properties, he reported, showing that there is a 'possibility that it might be meteoric dust,' But Dr. G. E. Goodspeed, a member of the University of Washington committee of scientists investigating the pockmarks, doesn't think the meteor dust theory can be applied to windshield pox."

Actually the riddle of the pockmarked windshields has not yet been satisfactorily solved, as is shown by the many theories expressed by various scientists. What is the answer? Some of the scientists admit the possibility that the atomic explosions have had something to do with this new phenomena, although they do not know how this could be. Others deny that there is any connection. But their denial does not solve the problem. One thing is certain. Since the atomic bomb explosions, one mystery after another is entering into the picture. Scientists and professors are baffled. Many think there is good reason to believe that there is some connection between the atomic energy and this new development.

STRANGE FACT NUMBER TWENTY-NINE — Have the Atomic Explosions Any Relationship With the Flying Saucers?

In our book *THE FLYING SAUCERS IN THE LIGHT OF THE BIBLE*, we have analyzed the strange "contacts" that are being made in increasing numbers with supposed visitors from another planet or planets, who have come to earth in space-ships. Regardless of the explanation of these strange happenings there is no doubt that the people who made these reports are sincere in that they have seen something. Our conclusions in that book were that it was incredible that there were actual visitors from the other planets, which to all knowledge and observation are unfitted for human habitation. That the whole thing is demon impersonation and harks back to the rise of spiritualism about a hundred years ago when people began making "contacts" with the spirit world. We mention this as we shall presently note that there is at least a possibility that there is some relationship with the atomic bomb explosions and the appearance of the Flying Saucers.

Spiritualism had its modern origin in the 1840's when the Fox sisters began to hear "knockings" and "tappings" and other similar phenomena now commonly experienced by spiritualistic mediums. While much trickery and fakery has been involved in spiritualism, a certain amount of it is actually genuine insomuch that certain manifestations are actually demon manifestations. Accredited observation has revealed there is genuine spiritualistic phenomena involving voices, levitation and even materialization. That such manifestations exist in spiritism is almost universally recognized by Bible students. But its origin is also recognized for what it is — demon power.

What then are these strange contacts that people are having with supposed visitors from other worlds? The thing has every evidence of being the work of seducing spirits. But the power to manifest visually seems to be greatly in-

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creased over that produced by mediums, who must depend on the "ectoplasm" of their own bodies, which they say is a sort of resident energy of the human body, by which spirits can materialize objects. What is giving the demon world power to materialize on so much greater scale?

In answering the above question it is to be noted that the Flying Saucer observations have occurred generally since the atomic explosions have occurred. These atomic explosions are the result of matter turning to energy. Thus with every atomic explosion there is released a great amount of free energy. It is not ordinary energy but energy that has come from matter itself and may like matter be subject to the law of gravitation. Is it possible that the evil powers which understand many secrets of the universe are able to take this free energy and use it for materialization of objects that we now see moving in the skies above the earth? We do not say that this is true. Yet there is a possibility that it is true. If there is a connection, as many seem to think between the atomic explosions and the Flying Saucers, then there is a strong possibility that the above explanation is correct.

It is a singular fact that these so-called "space-visitors" who profess to come from another planet, also claim that they have come to help save the world from atomic destruction. They insist that there is a connection between their appearance and the atomic explosions. If those visitors are evil spirits, we should expect that they should seek to hide their true identity with some plausible explanation. Hence the explanation that they have come from other planets, that they are of a higher development in the evolutionary scheme, and have come to bring their knowledge and wisdom to the world to help save it from disaster. Men who would fall for the delusion of evolution might be inclined to also believe their wierd tale. Some explanation for their existence must be given. Fallen man has been slow to

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believe in the existence of demon spirits as revealed in the Scriptures, hence he is in the position to be deceived by the impersonations and lies of these seducing spirits.

CHAPTER VII

THE RACE BETWEEN U.S. AND RUSSIA

STRANGE FACT NUMBER THIRTY —

How the Predictions Have Failed

IN THE January, 1949 issue of THE READER'S DIGEST, there appeared an article by William Bradford Huie entitled "The Facts Which Must Prevent War." Some of the things which he said are quoted here.

"We must prevent war. In wisdom, as well as in humanity, we should warn the Russian rulers; that we now have enough improved atomic weapons to immobilize the Russian nation; that we can deliver these weapons in quantity; that a staggering proportion of the inhabitants of Russia's key cities — millions of persons — can be killed or maimed in the first raids; that the targets have been selected, the planes ready day and night, the crews alerted; and that this terrible retaliation will surely come if Russia attacks the United States *OR ANOTHER OF THE FREE NATIONS.*"

"These facts are published in the hope of averting aggression based on misunderstanding. The aggressors in World Wars I and II, it should be remembered, were misinformed both as to what Americans could do and would do. Had American capabilities and intentions been clarified beforehand, these wars might never have been started."

"These men around Stalin must no longer be left in doubt as were those around the Kaiser and Hitler and Tojo. Add to this the ominous intelligence that some of the Russian generals are not even convinced that we will employ the atomic weapons against civilians . . . either we correct such judgments with information . . . or we may have to correct them with atomic bombs."

The writer in a long article dared Russia to do her worst. Instant and deadly retaliation would occur if Russia attacked

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the United States or "ANOTHER OF THE FREE NATIONS." What happened? Before the year was out Russia astounded the prognosticators by announcing an explosion of an atomic bomb! American scientists verified the statement. On the following year Russia supplied the guns and materials for the Communists in North Korea to attack South Korea! American possession of the atomic bomb did not prevent U.S. armies from being almost driven from Korea. Nor did her atomic bombs enable her to reach a decisive victory. In the end the war stalemated without a decision. Since then Communism has made steady advance throughout Asia. No atomic bombs were dropped at all. The generals said atomic bombs would not help in Korea. Or if they were used, Russia might retaliate.

STRANGE FACT NUMBER THIRTY-ONE — How the Russians Got the Atomic Bomb Years Ahead of Time

The least conservative of those who were in a position to make an intelligent prediction did not dream that Russia could produce the bomb in 1949. Some placed the time 18 years later. Others were sure Russia would have it sooner, but practically none believed that the Communists would get it that soon. What was the reason for this grave mistake — a mistake that caused America to be unaware of the grave danger that was hanging over the nation? Well for one thing America did not take into consideration that Russia had impressed a large number of captured German nuclear scientists who were forced to go to work for the Russians on threat of their lives.

But there are other reasons why the predictions were so fatefully in error. Our statesmen did not take into consideration that prophecy must be fulfilled. They did not know that two men, a Dr. Klaus Fuchs and a Mr. Harry Gold lived. Fuchs, an Englishman, had access to the highest confidential secrets of the A-bomb. Harry Gold was the courier for the

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Communist espionage system. These two men betrayed their countries in a crime, the effect of which must stagger the imagination.

J. Edgar Hoover, head of the FBI in his article THE CRIME OF THE CENTURY published in the Reader's Digest tells of these two men who first met in January, 1944. "On the day they came face to face," Hoover wrote, "the history of the world began to change."

This dark page of history began when Gold made an acquaintance with a man who was an atheist and who studied Marx and Lenin. From then on the course of his life was altered. In due time he became a spy, engaged in learning and divulging secrets of technical industrial processes to the Russians. This went on for years. For a mere pittance, Gold engaged in the task of learning secrets that were of value to the Russians and delivering them to their agents. Then he met Fuchs a nuclear scientist, and a traitor who delivered to Gold, data of the utmost importance to the Russian government.

At a fateful moment Fuchs, was transferred to Los Alamos, New Mexico. The traitor was now in a position to learn the most secret data involved in the making of the atomic bomb. Fuchs systematically gathered the most important secrets, one by one, and gave them to Gold, who in turn transferred them to Russian Agents. Thus the Soviets knew all about the bomb long before it was exploded in Los Alamos. That is why Stalin was not startled by the information an American president gave him just before Hiroshima was bombed. By this time the Soviets were well on the road to making an Atomic bomb of their own. For all this faithful work of Harry Gold the Russians were grateful. He was given the Red Star for outstanding work on behalf of the U.S.S.R. The Soviet agent revealed that one of the privileges of the award was free trolley rides in the city of Moscow! Gold will never enjoy this privilege how-

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ever, for he is now in prison, and will probably be there for the rest of his life.

And that is how Russia got the secret of the atomic bomb so quickly, and today she is not far behind in the race for producing weapons which in a night could take the lives of half the citizens of the United States!

STRANGE FACT NUMBER THIRTY-TWO —

The Atomic Bomb Is Not a Deterrent to War

To all appearances on the first of August 1945, America was in for perhaps another year of bloody war. Japan was resigned to a suicide war. Yet two weeks later the war was over and Japanese will to fight broken. What had happened? Two bombs had been dropped on two cities of Japan. They were atomic bombs!

The bomb that fell on Hiroshima had the power of 20,000 tons of T.N.T. Within a decade the power of the Bomb was to increase a thousand fold! It seemed that America was in a position to enforce peace. America had the absolute weapon, and in the race she seemed to hold an overwhelming lead. But being a democratic nation, she would never precipitate a world conflict. She would never take the initiative to use it on another nation unless they made an aggressive act first.

But things have developed during the past ten years to greatly change the picture.

1. Spies and traitors managed to steal the secrets of the atomic bomb and deliver them to Russia. Consequently Russia had the bomb years earlier than she would have had it.

2. Atomic bombs to be effective must be dropped in centers where industry that produces war is concentrated. With Hitler's invasion of Russia in 1941, the Soviets were forced to disperse their industry in the Ural Mountains and in isolated areas. America on the other hand, protected by

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an ocean, so they thought, did not disperse her industries. One hydrogen bomb is all that is needed to destroy everything over a diameter of twenty to thirty miles. In event of a war America could blot out the lives of many millions of Russian citizens. But a Bomb raid will not destroy her power to make war — for her war plants are too widely dispersed. America does not want to destroy these vast numbers of people. Nor would she gain greatly by such an act. Russia's leaders moreover care little for their citizens. They have murdered millions of them already. Millions of Russian citizens were massacred during the collectivization of the farms of the country.

3. In event that radar protection should be developed to the point as to make it unprofitable for Russian invasion from the North, yet Russia could attack the U.S. by means of the submarine — A-bombs could be launched by guided missiles from underwater craft. Russia herself, has few sea ports, or large cities anywhere near the ocean, and is not vulnerable to submarine attack.

4. If war should come Russia would hurl her armies deep into the territory of European countries, and might concentrate her armies in the large cities. To retaliate effectively America would have to drop her bombs on the cities of friendly nations whose citizens would be held as hostages. Europeans realize their deadly peril. That is why they have lost courage. The war might be fought on their soil with Hydrogen bombs! Above all they do not want this to happen!

5. Russia knows all this. Suppose she starts a war by moving south toward Palestine. Suppose in this act of aggression she does not use the atomic bomb. Every nation in Europe will plead with America not to use the weapon. Will the U.S. dare to anyway, thus unleashing unrestricted atomic warfare? Will she dare to set in motion "massive retaliation?" Who will dare to start such a war?

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6. The atom bomb has not been of any help since World War II. America had her best chance in Korea, where three years of deadly conflict caused America to suffer over 100,000 casualties. Once or twice they almost lost that war. Eventually it became stalemated. The atom bomb was of no help, said the generals. When the war was over the Communists were free to continue their policy of aggression of "Asia for the Communists."

What does all this mean? We are trying to get to one point. When America had atomic supremacy (and still has for that matter), in atomic weapons, their people manifested a feeling of complacency. They let China fall into the hands of the Communists. They told Chiang-Kai-Shek, in so many words, to say his prayers and get out. He did. The preponderance of world power swung to the Communists (with the exception of U.S. atomic ascendancy). Russia gobbled up one European nation after another through intrigue, infiltration and open aggression. North Korea, given a nod by the Kremlin, began an aggressive war and could not be defeated. All Asia is being drawn into the Communist orbit. Traitors in our midst have betrayed our most important secrets and according to our leading generals our position militarily is weakening.

What does all this mean? It means that God is talking to America. The U.S. has put her trust in military strength instead of in God. Hence she is heading fast to a great crisis. There is trouble ahead, much worse than she dares to think. The whole world is about to be caught in the throes of a gigantic conflict. The hour of reckoning is at hand. The day of God's wrath is upon us and who shall be able to stand? Only those who lay hold the hand of the Savior. Only those who have put their trust in God. Only those who choose to dwell in the secret place of the Most High God.

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There is a way out. God has a plan. But before we discuss that, we must consider some strange facts about the atomic bomb — some things that very few people know about. We must show that God anticipated the coming of the bomb. That God's word has some important things to reveal to us about it. We shall see the prophetic significance of this awful force of destruction that is now at the disposal of the gods of war. This we shall consider in our next chapter.

CHAPTER VIII

WHAT THE BIBLE SAYS ABOUT THE A-BOMB

STRANGE FACT NUMBER THIRTY-THREE —

The A-Bomb of Desolation

NO ONE will doubt that the A-bomb is a bomb of desolation. Jesus said in Matt. 24:15-16, "When ye therefore see the A-BOMination of *DESOLATION* . . . FLEE. . .". The above is perhaps only an interesting coincidence of words. We would not insist on this coincidence as having significance. But no one will deny that the A-bomb is an instrument of desolation.

There are those however who think that there is a very definite connection between the A-bomb and the abomination of desolation (which Jesus referred to in Daniel's prophecy) in prophetic fulfillment. In favor of this are the following considerations:

1. The A-bomb produces desolation as nothing else. Cities ruined by other types of bombing can be rebuilt immediately. No underwater explosion occurred in the destruction of Hiroshima and Nagasaki. Yet if an atomic bomb were to fall in New York harbor a "death mist" could be produced that might result in contamination of the city after the initial destruction of the bomb had taken place. Recently it has been shown that certain radio-active absorbants as cobalt added to the A-bomb and hydrogen bombs, could make them lethal over enormous areas because of the radio-active contamination that remained after the explosion. The bomb is strictly a weapon for producing "desolation."

2. That this desolation should be poured out or "poured upon" is suggestive of the dropping of the bomb (Dan 9:27).

3. This desolation is further described as "over spreading." There is a peculiar "over spreading" that occurs in the head of an A-bomb explosion. It is interesting to note that the

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TIME MAGAZINE in describing the Bikini explosion, likened it to the "Beast" rising "out of the sea" of Revelation 13.

STRANGE FACT NUMBER THIRTY-FOUR—

Except the Days Be Shortened No Flesh Saved

When Jesus was speaking of His Second Coming He made a statement which seemed so fantastic that only those who had absolute faith in His word could believe it. These words are found in Matt. 24:22 "And except those days should be shortened, there should no flesh be saved; but for the elect's sake, those days shall be shortened." On the face of it unless there came a cataclysmic judgment such as the flood, it would appear that the fulfillment was impossible. Wars raged since the first days of recorded history. Yet man wicked as he has been, has not been able to exterminate the race. Even in the last two wars, savage as they were, and despite the most terrible massacres such as Hitler's eradication of millions of Jews, and such as occur did not slow down the increase of population on the earth by a consequential amount.

During the years 1347-50, the Black Death decimated the human race beyond any epidemic in history. Still between one half to three fourth's of the earth's population survived. What could happen that would destroy millions of lives at one blow as the words of Jesus seemed to indicate? Surely Jesus was wrong this time! Perhaps He was using poetic language, said some apologists who thought to help the Lord out. Even a decade ago, no Bible scholar could explain how it could happen, though he believed the words of Jesus were literally true. Something in the realm of the fantastic would have to take place to make these words come true.

Then the incredible happened! On August 6, 1945, the atomic age was inaugurated in the destruction of a great city, when a flame of fire comparable to that which fell on

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Sodom and Gomorrah appeared out of the sky. It was not angels of judgment who brought this cataclysm on the city, as was the case of the cities of the Plains. The secret of the atom had been revealed, and its fearful power released in the processes of war. Hitherto war had gradually been stepped up a little at a time. Now it was intensified a thousand fold. In a second of time more Japanese died than all the casualties the Japanese had been able to inflict upon America in years of war, including the devastation which came upon Pearl Harbor in the attack of Dec. 7, 1941.

Hiroshima was crushed in the brief moment. What the terrible initial blast did not do, the raging fires which followed the explosion did. Before the day was out Hiroshima was in ruins. Another like blow fell on Nagasaki, and with that the war came to an end. But the power that brought it to an end raised the somber possibility that the world itself might be brought to an end. Now, with the Hydrogen bomb, one plane can carry the power of destruction equivalent to that of all the bombs dropped in World War II!

No one laughs now, at the words of Jesus: "And except those days shall be shortened there shall no flesh be saved: but for the elect's sake those days shall be shortened." It looks even to the skeptics as if Jesus was right after all. One bomb could wipe out New York or Chicago almost to the last person. What is coming next? Will man be permitted to destroy the earth? No, we are certain this will not happen. Jesus will come and take his people to be with Him. Judgment will come on the wicked. After that the Lord will return with His saints and an age of righteousness will begin in which all men will dwell safely and none shall make them afraid.

STRANGE FACT NUMBER THIRTY-FIVE — The Number 666 and the Atomic Bomb

In considering the number 666 and its relation to the atomic bomb, let us turn to the 13th chapter of Revelation.

What The Bible Says About The A-Bomb

We have noticed already that the Beast had power to call fire down out of heaven — the Greek word is “ouranos” (uranium) (Rev. 13:13). The Scriptures then go on to say that the number of the Beast is 666 (Rev. 13:18). They further add that those who have wisdom may count the number of the Beast.

Now let us notice how the number 666 is associated with the atomic bomb. First of all we shall go back a few years to World War I. Many people can well remember when that terrible war started on July 28, 1914. Now observe: Counting just 3 X 666 days later, the League of Nations was created to end war, Jan. 10-16, 1920. Do you see the significance of this? God is measuring time. Events are timed!

Now let us measure ahead 12 X 666 days from that event. In so doing we come to Dec. 7-8, 1941! Does that date sound familiar? Yes it was then that the Japanese attacked Pearl Harbor plunging us into World War II! *Is it not plain that events are timed.*

Now let us go ahead 2 X 666 days further. What happened then? The atomic bomb fell on Hiroshima and Nagasaki ending the war a few days later. (Aug. 1-14 is the period when these events happened.)

But let us measure forward two more cycles of 666 days. We now come to March 18-24, 1949. What notable event occurred at this time? On those dates came the announcement of the North Atlantic Pact! Incidentally this Pact included just *ten European countries*, a number highly significant as ten is the number of kingdoms which back up the Beast Power (Rev. 17:12).

Now let us count forward 2 X 666 days more. Writing some years ago in THE VOICE OF HEALING we said that this period would run out “in the early part of November, 1952.” We also added the words “thus evidently ending one era and beginning a new one.” But although we saw this date had great significance we had no way of knowing

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just what that event would be. We did not know that on that date, A HYDROGEN BOMB WOULD BE EXPLODED! But that is what happened and a new era indeed was born. There was some hope of defense against the ordinary atomic bomb. But what is there against the Hydrogen Bomb that can destroy the world's greatest cities; a bomb that dare not be set off for practice until the testing area is cleared for a distance of 400 miles?

Yes, the atomic bomb is marked by the number 666. Those that are wise, the Bible says, will count the number. Who can deny that world judgment is only a short distance ahead of us?

STRANGE FACT NUMBER THIRTY-SIX —

The Atomic Bomb In Prophecy

There are undoubtedly a number of references to atomic power in the Scriptures. Some Bible scholars believe that the reference made to Lucifer the fallen archangel in Ezekiel, as the anointed cherub, is also an allusion to the atom. Here the Scripture says of Satan "Thou art the anointed cherub that covereth . . . Thou hast walked up and down in the midst of THE STONES OF FIRE. Thou wast perfect in thy ways from the day that thou was created, till iniquity was found in thee" (Ezek. 28:14).

These STONES OF FIRE are regarded by some as the atoms, in which electrons move about in orbits a quadrillion times a second. When the binding forces of the atom are disturbed the free energy that is released is almost beyond belief. A few ounces of uranium disappear into energy and you have the fire of the atomic bomb. It is pointed out that it is hardly likely that Satan is walking up and down upon stones such as those found in a river bed. Satan is a spirit being. The inside of the atom is the part of matter that is the gateway between the physical and the spirit world.

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In the splitting of the atom, men are tapping the spirit source from which material things are produced. The atom, the building blocks of the universe, may well be the "stones of fire" of Ezekiel 28:14. However this is not to be regarded as a dogmatic statement. One thing is certain, man has passed through a door into a new realm of knowledge. Now he is exploring deep into the atom from whence all matter is built. He is learning the secrets of the universe itself — secrets which no doubt Satan knows. Such secrets in the hands of fallen beings may result in catastrophe and calamity of unprecedented proportions.

In a previous chapter we briefly noted in this connection that there may be a relation between the atomic bomb explosions and the flying saucers which appeared shortly after the first blasts. It could well be that the dissolution of matter and the release of free energy provided the raw materials for strange things in the spirit world.

STRANGE FACT NUMBER THIRTY-SEVEN

The Prophecy of Fire Out of "Uranous"

The 21st Chapter of Luke relates the words of Jesus concerning events which will take place just before the coming of Christ. In the 25th verse a statement is made concerning the distress that will come upon the nations of earth. The next verse tells of "men's hearts failing them for fear and looking after those things which are coming upon the earth." Then one more statement is made of deep significance. Jesus says that the hearts of men will fail because "the powers of the heavens shall be shaken."

What does this mean — the "powers of the heaven shall be shaken?" Well we can assume that it means for one thing that there will be signs in the sun and the moon and in the stars as is spoken of in the 25th verse. But there is something else of such significance that we must notice it also. Notice that the word "heaven" is translated from the Greek word

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“Uranus.” Leaving the Greek word in the sentence we read, “The powers of *uoranus* shall be shaken.” Uranus is a root word for uranium the element from which the atomic bomb is made! The powers of “uoranus, uranium” shall be shaken!

In Rev. 13:13 we read that the Beast power “maketh fire come down from heaven in the sight of men.” What prophetic fulfillment might this be? Is it the making of fire to come down out of “uranium?” In other words is it the dropping of the atomic bomb, with its flaming globe of fire? The atomic bomb of course includes the hydrogen bomb, which must have the uranium core to set off the reaction.

STRANGE FACT NUMBER THIRTY-EIGHT —

The End of the World By Atomic Dissolution

Previously we have noted that the Bible clearly indicates that man during this present age, will not be permitted to destroy this world or end life on it through atomic destruction. That such could happen and no doubt would happen, is evident, if there were no Divine intervention in events. Jesus said that “except those days be shortened no flesh should be saved.” God will deliberately shorten the days so that this catastrophe does not happen.

However this does not mean that the world will go on as it is, forever. Indeed it must pass away to give place for the New Earth. This is the New Earth that the Apostle John saw in Rev. 21:1. What will happen to the old earth? All of us know that this natural earth cannot serve eternal purposes. The physical resources of this world are gradually being exhausted. There will come a time when there is no more oil, no more coal. There will be a time when the mineral deposits will be exhausted. The earth serves its purpose, and when that purpose is fulfilled, then it will give way for the New Earth. The old earth is characterized by its sorrow, its tears, its sickness, its death, and its graves. These things have no place in eternity.

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The hour must come therefore when this present earth will have served its purpose. The millennium of a thousand years will be the earth's Sabbath. God's purposes then merge into eternity. As they do, the old earth will pass away. This will be accomplished, no doubt, by atomic dissolution. Peter writing nearly nineteen hundred years ago tells us about it:

"But the day of the Lord will come as a thief in the night in which the heavens shall pass away with a great noise, and the *elements shall melt with fervent heat*, the earth also and the works that are therein shall be burned up. Seeing then that all these things shall be dissolved, what manner of persons ought ye to be in all holy conversation and godliness. Looking for and hasting unto the coming of the day of God, wherein the heavens being on fire shall be dissolved and the elements melt with a fervent heat?" II Pet. 3:10-12.

A few years ago, it was thought that the elements were indestructible, and that it was supposed to be unscientific to say that they could be burnt up or pass away. The atomic age has taught us differently. Matter dissolves, turns into heat and energy, and ceases to exist any longer as matter. Turning back to energy it reaches its primieval form as it came from Spirit source. There will come a day when the old earth will no longer exist. No wonder Peter warns us saying "Wherefore beloved seeing that ye look for such things, be diligent that ye may be found of him in peace, without spot, and blameless." The coming of the atomic age is a startling warning to the world that man's day is nearly ended. That it is time for man to make his peace with God if ever, for the old world and its pleasures will soon recede from him forever.

CHAPTER IX

THE DAY THE A-BOMB FALLS

STRANGE FACT NUMBER THIRTY-NINE —

Panic the Day the A-Bomb Falls

Mr. Philip Wylie writing in the bulletin of Atomic Scientists gives us some hint of what will actually take place when an A-bomb or H-bomb falls on one of our cities. The picture he presents is not a pretty one. For added to the horrible destruction will be the element of hysteria and panic which will compound the terror and destruction that will result. The possibility of panic is being taken under careful consideration by the Defense Department of our country. Supposing, for example a hostile plane having dropped its real bombs should drop a dummy H-bomb by parachute. There would be no way of knowing for certain that it was not a real thing. Result: a terrible panic of men and women racing from the city, beating one another down in a frenzied effort to get far enough away to escape being scorched or burned by the fury of the bomb.

Imagine however the consternation that would result from an official announcement of hostile planes bearing down upon America from the North. Fleets of fighter jets instantly take off to face the invading foe. Suppose 100 planes composed the enemy squadron. Our jets take a fearful toll of the invaders, so that instead of destroying ten percent of the planes as was the best average in World War II, some 90 per cent are shot down. Yet ten planes out of the hundred get through to drop their deadly cargo on ten great cities. What then?

In the meantime, the cities of America have been alerted to their awful danger. They are kept informed of the progress of the battle, and hear of the tremendous losses of the enemy, nevertheless they learn that some of the enemy

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planes have gotten through with their load of mass destruction. What will happen in the cities? Certainly hysteria and panic unlike anything in World War II days. Our raids despite their severity rarely killed or injured more than a relatively small proportion of the population. But the A-bomb or H-bomb, people have seen its fearful power demonstrated on their television screens. They know that an A-bomb will take the lives of tens of thousands. An H-bomb could destroy every living thing in a vast radius unless it were deep in the earth. What is bound to happen? If people get wind that hostile planes are on their way they will flee in the wildest panic. Roads will be choked with escaping cars, regardless of the present signs which have been erected by the Defense Department which declare the roads will be closed to civilian traffic in case of air emergency.

Suppose the dreaded enemy bomber slips through and drops his deadly cargo. The bomb goes off. Say a mere fifty thousand die and hundreds of thousands are injured from the blast. People have been exposed to the lethal radiation. Perhaps other planes are on the way. They see the casualties about them in overwhelming numbers. Further from the center of the explosion where most everything has been vaporized, the heat of the blast causes fires to break out in a thousand places. People feel the searing wind carrying cubic miles of rolling radio-active dust. There is only one word to explain what will happen — panic, such as a city has never before experienced in the history of the world.

Mr. Wylie declares that after a test shot one morning in Nevada, the wind changed and surging dust enveloped his unit. Men broke and fled although the Rad-Safe Crews reported the fallout to be harmless. This writer declares that when he reflects that these men were concerned intimately with the bomb and among them was high brass from every service branch he feels certain that the public, radiation-scared, and terribly ignorant, will run like mad until it drops.

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Doctors declare that a badly burned human being is about the most unendurable sight there is. Burned persons, hideous, mangled and dying will be on every hand. Thousands of others will have their clothes blown off them. Or if they catch fire, people will be forced to rip them from their bodies. "Behind them a thousand fires are burning and radio-active dust is swirling. Will they ignore the torrential sky above and go to dousing fires, or succoring the sticky human gobs around them, or rush back to the factories to recommence industrial production?" Mr. Wylie continues: "Or will they wonder, if perchance, in an hour or a day, another bomb will descend and turn them into the things that they have witnessed? The thought will occur to all — and nearly all I fear, will try to get out of town before it is too late.

"Civic defense measures? What can they do in a calamity of this proportion? Panic feeds on panic. The impulse to flee in most cases will be irresistible. Of course signs on the highways leading out of town declare that these roads in case of enemy attack will be closed to all but defense vehicles. But with a bomb cloud above them and a fire storm behind, and the screaming wounded all around, with radio-active dust at their heels, only an insane person would think that people would obey these signs.

"And what about the children who compose one fourth of the population? What about the emotionally unstable. What about the hospitals where every other bed contains a mentally ill person. Six per cent of the city's population is criminal. The bomb would turn them loose. We might put it this way — what the bomb does not get the panic will."

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Black as the picture looks, there is not the slightest reason for pessimism. No one should be pessimistic who casts his lot with the Lord Jesus Christ. God is still on the throne. He

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rules and overrules. He has made full provision for taking care of His own. The Lord knoweth them that are His. Not a hair of their heads shall perish. It is indeed important however that one shall be a believer indeed and not a nominal Christian. Christ speaking of this time, grimly warns of a lukewarm Laodicean Church. A church that is "lukewarm and neither hot nor cold" (Rev. 3:14-22). This is a church that says that she is "rich, and increased with goods, and (has) need of nothing." Christ says to her that unless she repents "I will spue thee out of my mouth."

To the faithful Philadelphia Church, there is a different promise: "Because thou hast kept the word of my patience, I also will keep thee from the hour of temptation, which shall come upon all the world to try them that dwell upon the earth." (Rev. 3:10.)

THE EARTH NOT TO BE DESTROYED NOW

God has a plan. We are coming to the end of the age. God is getting ready to judge the nations. It is a time when the nations are in the valley of decision. Man must repent and serve his Creator or be destroyed. The day of probation is over. As the Revelator says in Rev. 11:18: "And the nations were angry and their wrath is come, and the time of the dead, that they should be judged, and that thou shouldst give thy reward unto thy servants the prophets, and to the saints, and them that fear thy name, small and great; and shouldst destroy them that destroy the earth."

Notice this: Those who would destroy the earth are to be destroyed. For the earth itself is not going to be destroyed now. Later this earth will pass away for the new earth, but not now. God will say to those who would destroy the earth, "thus far shalt thou go and no further." Perhaps wicked men shall come very near to destroying the earth. Certainly they shall not fully succeed. The reason that they shall not succeed is because God will call a halt before that

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happens. If he did not do this, destruction and violence would go on in mounting fury until "all flesh" would be destroyed. Jesus says in Matt. 24:21-22:

"For then shall be great tribulation, such as was not since the beginning of the world to this time, no, nor ever shall be. And except those days should be shortened there shall no flesh be saved: but for the elect's sake those days shall be shortened."

In other words Christ is inferring that the inventiveness of man shall proceed at such an accelerated pace, that the human race would be destroyed before the appointed time of human probation. For this reason, God will upon his own initiative bring the carnage to a halt. The reason he will do this is because of His elect. "For the elect's sake those days shall be shortened."

GOD HAS AN A-BOMB SHELTER

The horrors of atomic warfare are enough to cause any thinking person to soberly consider the prospect. So fast have developments come that people are just not able to realize the significance of the frightful forces of destruction that are now in existence. The fact that one bomb could suddenly destroy the seven million people in New York City or the four million in Chicago in a second of time, is too much to comprehend. It seems like it just cannot be true. So things go on as usual. But the grim facts are true just the same.

God has provided a resource for us in this our day. It is time we laid hold upon it. Our A-bomb is the 91st Psalm: Here is the promise to him who dwells in "the secret place of the Most High."

"Thou shalt not be afraid for the terror by night; nor for the arrow that flieth by day. Nor for the pestilence that walketh in darkness (Bacteriological warfare), nor for the destruction that wasteth at noonday (Atomic attack). A

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thousand shall fall at thy side, and ten thousand at thy right hand; but it shall not come nigh thee."

Here is the true shelter from the horrors of atomic warfare. Judgment is coming. We will see it with our eyes. But God promises that it will not come nigh us. Ten thousand shall fall at our right hand, but we will be spared. God knows those that are his. That is the promise — if we claim it.

But pause a moment. This promise is not to all. Not to nominal Christians. Not to careless Christians. Not to those who are trying to get by with an unconsecrated life. It is for those who choose to dwell in the secret place of the Most High. Unfortunately there are many today, who know these things, but they are interested in seeking the things of this life. And indeed there is nothing wrong in providing for one's own. The Bible requires that a man care for his family. Nevertheless our own personal convenience cannot come first. When a man takes that attitude, he misses the will of God. Jesus said, "Seek ye first the kingdom of God and all these things shall be added unto you."

Baruch was a companion to the Prophet Jeremiah. He suffered many hardships, for the cause of God. Many were the trials he was forced to undergo. The time came at last, when he thought he should pay more attention to taking care of his own interests. But God sent him a special message by the mouth of Jeremiah:

"And seekest thou great things for thyself: Seek them not; for behold I will bring evil upon all flesh, saith the Lord; but thy life will I give unto thee for a prey in all places whither thou goest."

These words to Baruch were not unkind words. No indeed! Behind them was the tender compassion of Jehovah. Judgment was heavy upon Judah. The kingdom was breaking up. The day of probation for that generation had ended.

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The Sword of the Lord hung over the land. In the same context Jer. 47:6-7 the prophet cries out:

“O, thou sword of the Lord, how long wilt it be ere thou be quiet? Put up thyself into thy scabbard, rest and be still. How can it be quiet, seeing the Lord hath given it a charge against Ashkelon and against the Sea shore? there hath he appointed it.”

Yes, judgment was upon the land. People were going into captivity. The Sword of the Lord reached into the land of the Philistines and the city of Ashkelon. There was no stopping it until the charge of the Lord had been completed.

It was not normal times. It was the time of Judgment. Certainly it was no time for a man to be going about “business as usual.” The nation was under judgment. But because Baruch was a righteous man, and had been faithful in his service, the promise was given to him, “Thy life will I give unto thee for a prey in all places whither thou goest.” Surely that was enough. We are like Baruch in the hour of decision. It is no time to dissipate our strength in laying up treasures here on earth. Do those things that are needful, but don’t let material aspirations divert you from your calling — to labor in the whitened harvest fields and to prepare one’s self for the greatest event of history — the coming of the Bridegroom.

Think of it friend. Life seems to go on much the same. But no. Much sooner than we think the floodgates of judgment shall open and the floods shall sweep over the earth. But for the righteous there will be that ineffable moment when the trumpet sounds and Jesus will appear:

“For if we believe that Jesus died and rose again, even so them also which sleep in Jesus will God bring with him. For this we say unto you by the word of the Lord, that we which are alive and remain unto the coming of the Lord shall descend from heaven with a shout, with the voice of the archangel, and with the trump of God: and the dead in

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Christ shall rise first: Then we which are alive and remain shall be caught up together with them in the clouds, to meet the Lord in the air: and so shall we ever be with the Lord." I Thes. 4:14-17.

Yes, friend we all must stand before the judgment bar of God and give an account of the deeds done in the flesh. These are days when we need to be preparing for the Kingdom, the Bridegroom is at hand. We need to set our house in order. We must do our part in winning lost humanity to Christ. The hour of opportunity is yet here. Let us labor while we may for soon the darkness "cometh and then no man can work."

The hour is coming when the A-bombs will fall. There is coming a moment when "the cities of the nations" will fall. The great sky-scrapers, the great edifices will fall. Proud nations that have rejected God will like Babylon of old, fall to rise no more. Men shall hide themselves in the holes and the rocks, and shall cry for the mountains to fall upon them and hide them from the wrath of God. These are the facts. What are you going to do about it? Your decision now, will mould your eternal destiny.

WE CAN HELP BRING CHRIST BACK!

The solution to the world's ills is found in the answer to the above question. Only if Jesus comes back to the world, will this planet be saved from self-destruction. Only if the Prince of Peace returns can there be peace — unless that He should delay long enough till there be peace because no man is left to make war.

How can we bring Christ back? This is a subject that is too great to fully deal with here. Suffice it to say that the Lord Himself gave the answer to this question. "And this gospel of the kingdom shall be preached in all the world for a witness unto all nations; and then shall the end come." Matt. 24:14. In other words before Jesus can come back, we

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must evangelize the world and do it quickly. With the sword of atomic judgment hanging over the world, there is no time to lose. We are indeed in a race against time. That is why The Voice of Healing is mobilizing all forces to do its part in this great work. Its major contribution is to show Christendom that it can never get the ear of the multitude of heathen without the signs following. Miracles speak the universal language. The heathen mind fully understands the significance of a miracle. To him it is God speaking. Jesus said, "Go ye into all the world, and preach the Gospel to every creature." Mk. 16:15. That is the Great Commission. But there is more to the Great Commission which follows in the next verses. ". . . These signs shall follow them that believe . . ." Mk. 16:17. Those signs are supernatural signs. They include the healing of the sick. It was this miraculous ministry that made possible the great gains of the Early Church. The last words of the Book of Mark record it: "And they went forth, and preached everywhere, the Lord working with them, and confirming the word with the signs following." Mk. 16:20. That is the promise of God, and the heathen have the right to expect our honoring of the Great Commission.

Moreover, not only the heathen, but the time has come in the history of the world, when all people are longing for a supernatural God. The day of the modernist and the "higher critic" is about over. They stand unmasked, as the prophets of Baal with a dead god, or at least a god that is not supernatural. People today are hungry for the power of the supernatural. They are told of hydrogen bombs that can destroy the largest city. Of the possibility of an attack by a foreign power that might take the lives of half the citizens of America. Of a blast that is more powerful than the sum total of all the bombs dropped in the war just past. For a world in this condition the materialist's god is of no help. People must have a God of miracles. They are ready as the people

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were in Elijah's day, when they saw the power of the supernatural manifested, to cry. "The Lord He is God, the Lord He is God." It is a day when all people must drop their denominational prejudices and move with the tide of God. We must evangelize the world. We must win the lost to Christ. The shadows of this age reach toward the horizon. Its sun as it were is poised for a brief instant before it sinks below the horizon. And then darkness, gross darkness will cover the land. Only to those who look for Him will the Sun of Righteousness arise with healing in His wings.

We have a right to expect revival. Daniel said that at the time of the end, "They that know their God shall do exploits." (Dan 11:32.) This is a day when miracles are taking place. God's promises are being fulfilled. He has power that can match atomic power. The gospel of the supernatural can meet the challenge of the atomic age.

God is calling for men everywhere to repent. Let men flee to the Rock that is Higher than they. Let them call upon the Lord while He is near. The Age of Grace must soon come to a close. The door is closing fast. Let us be ready for that great moment that draws ever closer. Let us have our loins girded and lights burning. The Lord is at hand!

"And then shall appear the sign of the son of man in heaven: and then shall the tribes of the earth mourn, and they shall see the Son of Man coming in the clouds of heaven with power and great glory. And he shall send his angels with a great sound of a trumpet, and they shall gather together his elect from the four winds, from one end of heaven to the other." Matt. 24:30-31.

Even so, come quickly, Lord Jesus!

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