

# FIGHTING CHANCE

*John 8: 31-32*

*Proverbs 22: 3*

Newsletter Vol. III, No. 8

April 1992

## BIOLOGICAL WEAPONS

Many people have come to think of biological weapons as new high-technology products that are becoming possible as a result of the revolutionary advances in molecular biology and biochemistry. Secret laboratories in the mysterious Soviet Union crank out new vicious and virulent strains of these microscopic killers, while "peace" activists hint darkly that American military laboratories are doing the same thing.

For clearing the air about these new worries and at the same time sending an icy chill up the spine of any normal person, the speech by Dr. Conrad Chester to the fall DDP meeting would be hard to beat. I do not know how much of this speech Dr. Chester will choose to publish. Moreover, for reasons that will become obvious, I choose not to publish the technical details of his remarks. In the interests of prudent civil defense, however, the general nature of these facts should be known.

There are in existence some very resistant and very virulent strains of bacteria that produce toxins that are deadly to human beings. Perhaps the best known is the bacterium that causes botulism. Most home canners know about this bacterium. *Clostridium Botulinum* is widely dispersed in nature. It is notorious for its growth in home canned vegetables that have been inadequately sterilized. If canned goods that are infected with botulism are eaten, the results are often fatal. The botulism bacterium is easy to grow; its toxin is extremely lethal; and it is easily obtained throughout the United States. Botulism toxin would make an excellent biological warfare agent if there were not something "better" - something more stable, more toxic, and generally far more dangerous than botulism. That "something" has been deployed as a biological warfare agent for about 50 years. It is anthrax.

Anthrax has been deployed as a military agent by the United States, the Soviet Union, and some other countries. Its deployment was eventually banned by treaty - a treaty that,

according to now overwhelming evidence, the Soviet military entirely ignored. (Recently the Wall Street Journal published an excellent series of three editorials describing on-site investigations of the Soviet military program regarding an anthrax project that killed numerous people when some spores were accidentally discharged.)

Anthrax is found in the soil in many parts of the United States. These natural concentrations of anthrax are usually not large enough to overwhelm human bacteriological defenses, so anthrax infections are rare. Anthrax bacteria can convert themselves into a semi-lifeless spore form that is stable for many years even in the absence of a host. It is in this spore form that anthrax weapons can be most easily stored. The poisonous toxin produced by these bacteria can build up to a lethal level before the symptoms of infection are apparent.

In one anthrax attack on a city like New York or Washington D.C. over 90% of the people could be killed. They might not even know they had been attacked until two days later when the symptoms of disease became evident. By then, treatment would be impossible. With an operating detection system as part of a good public civil defense system most of these deaths could be avoided.

Does this sound like a weapon that would be dangerous in the hands of Saadam Husien? It surely does, so President Bush will need to have his United Nations friends find the laboratories in which Iraqi anthrax weapons are produced and be sure that they are rendered inoperable.

Also, we shall need a treaty to see that all countries with financial resources great enough to launch an anthrax development program agree to on site inspections and anthrax non-proliferation. Shall we get all big countries to sign the agreement? How about all little countries, too? Should we include all universities? How about all industrial laboratories? Sorry, even that will not be sufficient.

In accordance with Dr. Chester's analysis the treaty would need to include every biological scientist in the world down to, and including, beginning doctoral students. Moreover, since that level of ability can be achieved by virtually any smart person through self-education, the treaty will need to be subscribed to and honored by tens of millions of individual human beings - every single one.

Remarkably, a lethal anthrax attack killing most occupants of an entire city could be launched, including weapon development, production, and use, by only one or two people with the financial resources of an upper-middle class American family and a year or two of free time. They would need only items that are inexpensively available throughout the United States.

Dr. Chester has spent much of his life working on and for American civil defense. As Director of the Oak Ridge National Laboratory civil defense program he was, for example, responsible for initiation and direction of the research that is summarized in the book, Nuclear War Survival Skills. He is also an expert in the protection of civilian populations against chemical and biological agents.

During this speech he listed only one thing that currently offers protection to the American people against anthrax attack. He said that it is hoped that any individual with the resources and intelligence to mount such an attack would be deterred by the immorality and inhumanity of the attack itself. He obviously does not approve of this defenseless situation, but it is all that an American scientist, in the absence of a credible public civil defense system, can offer to unprotected Americans today. Clearly it is not enough.

Even if we ignore its obvious totalitarian dangers, President Bush's "New World Order" (fueled by the unilateral disarmament of the United States, the arming of the United Nations, and the disarming of all other countries on a world wide basis) depends upon arms control.

President Bush probably honestly believes, for example, as he said in 1988, that he can rid the entire world of chemical weapons. How can he do this? Is he going to join the most radical pseudoenvironmentalists and rid the world of all chemistry? After we are thereby cast back into a preindustrial dark age, are they then going to burn all the libraries, public and private, as well?

It will not be enough. Even then any housewife, if she isn't careful, can brew up a batch of botulism. Any smart biologist can increase the threat by brewing anthrax. Are they going to kill everyone with an education? Everyone who wears glasses? Everyone who can think? This was done in Cambodia, but its implementation on a worldwide scale seems unlikely.

A "New World Order" of no defenses and no weapons except those under the control of certain political "leaders" suffers from many problems including ignorance. These "leaders" do not really know anything about science. Occasionally they may accept input from a scientist or engineer, but they are rarely comfortable with people of technical ability. Ever since the invention of atomic weapons they have been trying to control the world by putting the genie of knowledge in a secret box with themselves possessors of the only key. The genies, however, have kept multiplying.

Each new dangerous advance in knowledge has brought with it the technical advances necessary to defend against its dangers. These defenses have not appealed, however, to the power seekers who do not understand them. They avoid knowledge of technological truth, and they avoid knowledge of spiritual truth. The two truths that, under the will of God, beget one another.

For nuclear weapons, civil defense is an answer. A better answer is civil defense coupled with strategic defense. Tomorrow (in fewer years than we think) the production and delivery of nuclear weapons may become so simple that civil defense may be the only answer. For chemical weapons and, much more importantly, biological weapons, civil defense is already the only answer.

Jesus said: *"If ye continue in my word, then ye are my disciples indeed; And ye shall know the truth, and the truth shall make you free."* John 8 31-32. When I was a student at Caltech,

the motto of the school was "The truth shall make you free." Many there were Christians, but many were not. This statement had come to have a technical meaning to these scientists.

In both its spiritual meaning and its technical meaning, this statement can be ignored only at the greatest peril. To ignore civil defense in an age of advanced knowledge about nuclear, chemical, and biological technology and in an age of inevitable accidents and likely terrorism and war is to ignore the truth in both its spiritual and its technical meanings.

Those who ignore spiritual and technical truth are neither likely to become nor to remain free.

## **FOOD FOR IVAN**

The Wall Street Journal editorial page carried an article on January 21, 1992 entitled "Russia Has Lots of Grain - Just Ask the Army" by Richard F. Staar.

Mr. Staar reports that Russian grain "purchases" from the West with U.S. taxpayer money in 1991 and now ongoing in 1992 amount to the total grain consumption of all 15 republics of the former Soviet Union for a period of more than two years.

Moreover, in addition to this two year supply (which is also in addition to the grain produced in the 15 republics by their own farmers), the Soviet military has in storage between three and four year's supply for the entire 15 republics as part of its strategic reserve. This is the civil defense food supply, since Soviet civil defense is a part of their military command. Most of this civil defense supply has been purchased from the West with Western credit during previous years.

Therefore the Soviet military, aside from holding 27,000 nuclear weapons and a firm grip on the military industrial complex in Russia and the surrounding states, has a huge hoard of food capable of feeding the entire population for several years.

These facts are well known to American government officials. Undoubtedly, they have their own self-serving reasons for raising the cost of food for American consumers and raising the burden upon America taxpayers by shipping huge amounts of grain to Ivan. One thing is certain: whatever political or real objectives these shipments serve, feeding the poor hungry people in the "former Soviet Union" is not among them.

## **Nerve Gas**

Although a completely equipped civil defense shelter should have an air supply filtered from chemical and biological agents, it should also contain antidotes, where possible, for some of the more common dangers. One such antidote is atropine as was issued to American soldiers during the recent Middle Eastern War.

The following article on the source and correct use of atropine appeared in the November issue of Civil Defense Perspectives written by Dr. Jane Orient. (This newsletter is available from 1601 N. Tucson Blvd. Suite 9, Tucson, AZ 85716. Telephone 602-326-3529.)

### **Atropine Use**

“Nerve gas” agents, like the potent organophosphate insecticides, are acetylcholinesterase (AChE) inhibitors. Acetylcholine is a neurotransmitter, the “messenger” at the synapse between two nerve cells or a nerve and muscle cell. After the message is delivered, the acetylcholine is broken down by AChE. If the AChE doesn’t work, acetylcholine accumulates, causing excessive, uncoordinated stimulation, followed by depression or paralysis.

The symptoms are:

Constriction of the pupils and blurred vision; excessive secretions: tearing, salivation, sweating, vomiting, diarrhea, runny nose, and bronchorrhea (excessive bronchial secretions); muscle twitching, followed by weakness or paralysis (death may result from paralysis of the respiratory muscles); slowing of the heart rate and a drop in blood pressure; bronchospasm and laryngospasm, causing wheezing or inability to move air; relaxation of the sphincters, causing incontinence; convulsions, coma, and loss of the respiratory drive.

In treating this type of poisoning, the same ABC priorities apply as with any patient: Airway, Breathing, Circulation. Establish an airway by clearing secretions and keeping the tongue out of the back of the throat, as with an oral airway. If the victim is not breathing, begin mouth-to-mouth ventilation.

Give atropine. Atropine blocks the action of acetylcholine at certain types of nerve endings (muscarinic junctions) and thus reverses some of the effects of the AChE inhibitors (not the muscle paralysis). The dose is 2 mg intramuscularly, repeated every 3 to 8 minutes until marked signs of atropinization appear: flushed face, dry mouth, widely dilated pupils, and rapid heart rate. (The pupils are not a reliable sign as they can remain constricted even when enough atropine has been given.)

Very large doses may be required, up to 50 mg the first day for insecticide poisoning, according to a pharmacology text. Such a dose may be too high for nerve gas or much too low (authorities have differing opinions). The physiologic response is the key. Mild symptoms of atropinization (such as a dry mouth) need to be maintained until the effects of the poison wear off, perhaps for several days.

The military provides soldiers in the field with auto-injectors of atropine and pralidoxime chloride. This kit is not available to civilians, but Survival Technology (telephone 301-926-1800) does offer the API5 atropine kit, with five autoinjectors containing 2 mg of atropine each, designed for laboratory workers. This can be obtained for \$48.50 by FAX-ing a doctor's prescription, along with shipping and billing instructions, to 301-926-6186. (The company is located in Bethesda, MD.) It is cheaper to buy atropine in multi-dose vials, but therapy could be started much more quickly with the autoinjectors.

As soon as the first dose of atropine is administered, decontaminate the patient to prevent further absorption of the poison through the skin. Remove contaminated clothing and wash the skin with soap and copious amounts of water. Personnel need to protect their own skin with gloves and protective clothing.

After the patient is fully atropinized, he can be given an antidote that regenerates the AChE, pralidoxime or Protopam. This can reverse paralysis and coma as well as the muscarinic effects. The dose is 1 gm by slow intravenous injection, repeated in 30 minutes if needed. This drug should not be given in the presence of carbaryl (Sevin) intoxication or overdosage with neostigmine or physostigmine. It is of little use with some nerve gases such as soman (GD) because the inhibited enzyme "ages" so rapidly (with a half-life of 4 minutes in the case of GD). Pralidoxime in high doses can itself cause neuromuscular blockade and AChE inhibition. It is quite expensive, about \$30 per dose.

Experience in Angola has suggested that the usual antidotes may actually be harmful with some newer chemical warfare agents. Prevention of exposure is obviously the best course. Better means for detecting attack and determining its nature should be a high civil-defense priority, along with population protection measures.

With the usual agents, combined treatment with atropine and artificial ventilation is theoretically capable of protecting a patient against 50 to 100 times the dose that would otherwise be fatal. Improvement of symptoms after institution of treatment is an excellent prognostic sign. Recovery is often complete, but there have been reports of long-term impairment.

## WARNING TIME FOR SHELTER OCCUPANCY

The advocacy of civil defense necessarily includes the advocacy of both expedient and permanent shelters. Although shelters do not constitute the entirety of necessary civil defense preparations, they are a very important part.

Many civil defense emergencies arise under conditions that do not permit evacuation or other time-consuming evasive actions. In those circumstances, the ability to put people in a blast-and-radiation-protected structure in which their air supply can be cleansed of chemical and biological agents is the only effective way in which to save their lives.

Also, in case of a generalized nuclear war affecting a country that is not equipped with fallout shelters, knowledge and ability to fashion expedient fallout shelters is essential. For a period of a few days, a large percentage of the entire country may be exposed to lethal fallout radiation. Even evacuated people would need to make expedient fallout shelters in order to survive.

Usually the best national civil defense preparations are considered to consist of modern blast, radiation, chemical, and biological protective shelter spaces within a short walking distance of all people where they live, work, or otherwise reside. In addition, a good national warning system should exist to notify the people that they should occupy the shelters. Where no public facilities exist, individuals can build their own private facilities.

As is discussed in Nuclear War Survival Skills for the case of nuclear attack, most Americans would receive their first warning of a nuclear attack by hearing and seeing the effects of distant explosions on military and other first-strike targets. Suppressing a military response is so important that an enemy would likely aim all of the initial weapons at military installations and other special facilities such as large airports. Civilian targets would be likely to have at least a 20 minute warning as ICBM targets or even several hours warning as bomber targets.

For some other sorts of dangers, however, the situation is worse. A terrorist attack with bacterial weapons where no civil defense monitoring system exists could fatally injure a large population as much as two days before the attack became known. By the time the symptoms of the disease were evident, no defensive response would be possible.

The most recent actual national civil defense emergency was that in Israel during the "United Nations" attack on Iraq. Israel has a nationwide blast shelter system, but, until the time of that war, had not required that the shelters be equipped with chemical and biological air filtration equipment. (They are now installing this equipment throughout the Israeli shelter system.)

In the photograph below, Major General Yaacov Lapidot, then head of civil defense for the country of Israel, is seen across the blast door assembly of the Arizona mobile

shelter display at the Las Vegas DDP meeting, while he explains to Cresson Kearny, Art Robinson, and Ed York (listing the people in the background from right to left) that even shelters such as this one would not have been sufficient during the Iraq emergency.

His point - the warning time for Iraqi Scud missiles arriving in Israel was only 4 minutes! This did not allow time to get the population into shelters. The Israeli response to this problem shows the necessity of an active and responsible civil defense organization in addition to good equipment. During the weeks leading up to the war, the Israelis developed, manufactured, and deployed throughout their country a new kind of gas mask that is suitable for untrained and disabled civilians of all ages. This mask was distributed along with instructions for sealing rooms in normal buildings to diminish the entry of chemical



warfare agents. The people were instructed to initially remain in their sealed rooms until the civil defense authorities had determined that movement outside the rooms was safe.

These circumstances were, of course, unique to this particular war. The Israelis faced primarily a potential terror use of chemical weapons and a minimal threat from explosive weapons. Although even a gas attack from the small Scud warheads would not have threatened very large numbers of people (a Scud attack with biological agents would have been much more serious), the political effects of deaths from such an attack could have been devastating.

It is reported that Israel was prepared to use nuclear weapons in the case of a severe attack by Iraq, and it is very likely that Israel would have at least entered the war with conventional weapons had a successful attack upon Israeli civilians been launched.

Since American strategy depended upon Israel not entering the war, it is likely that Israeli civil defense (in that it provided realistic protection throughout the country and thereby reduced the fear of the population) played a crucial role in permitting Israel to postpone military action. Although all sorts of scenarios can be postulated and many different sorts of threats can arise, a wise person or country provides the best protection available.

Regardless of this experience and of the other scenarios in which warning time to reach the shelters would be inadequate, the Israel government is continuing to build blast shelters for the entire population and is now requiring that all shelters have chemical and biological air filtration units similar to those found in Swiss shelters and in each of the Fighting Chance mobile shelter displays.

## **SIR ISAAC NEWTON'S BOOK ABOUT BIBLICAL PROPHECY**

Response has been enthusiastic to the reprinting of Thomas Jefferson's copy of Isaac Newton's 1733 book, Observations Upon the Prophecies of Daniel and the Apocalypse of St. John, by the Oregon Institute of Science and Medicine.

Initially, the book was announced only in this newsletter. Then, in his December newsletter, Don McAlvany, mentioned the book and enclosed a reprint of the *Fighting Chance* article about it. (Don McAlvany's excellent newsletter, *The McAlvany Intelligence Advisor*, can be obtained from P.O. Box 84904, Phoenix, AZ 85071 for a price of \$95 per year.)

These two announcements alone resulted in so many orders and donations that the costs of producing the book have already been completely repaid. Many people, having ordered and received one book, have reordered additional copies for friends and relatives. (The price is \$19.95 for one copy and \$15 each for five or more.)

There is reason for optimism that this reprint will make a good contribution to the debate about the compatibility of Biblical truth and scientific truth. In view of Isaac Newton's statements that he hoped that his scientific discoveries would strengthen belief in God, I think that he would approve of this contribution.

There have been many requests that we publish a translation of the Latin quotations in the book. Isaac Newton's text is entirely in English as are his Biblical quotations, but, in some quotations, he uses the original Latin. Later, we hope to publish a translation of the Latin along with some letters Isaac Newton wrote concerning science and the existence of God. This will be best done when we make a second printing of the prophecy book itself.

The fact that strategic defense is not being deployed now, for the protection of the American people now, is no longer in any way a technical problem. It is solely a political problem. President Bush and the United States Congress do not want the American people to be shielded from incoming ballistic missiles. They have another agenda.

Aside from his talk about Brilliant Pebbles, Lowell Wood also spoke about the program that his group developed for a seven year project to put a team of men on Mars and return them to earth. The trip itself would take about a year each way - plus a stay on Mars of a large part of one Martian year. The cost is estimated at about \$10 billion dollars with a permanent base on Mars scheduled for completion during the sixth year!

Instead of going to Mars for this very low cost, our bureaucratic planners are planning a \$300 billion program that might result in a manned landing on Mars in 30 years. They do not want to explore space. They want instead to spend America's money on soft bureaucratic positions for themselves and hundreds of thousands of other bureaucrats for the rest of their lives.

One point made by Lowell Wood during his talk says it all. He displayed a picture of the Saturn-5 rocket that carried Americans to the moon. Calling this the finest piece of space hardware which has yet been created by the hand of man, Lowell Wood pointed out that the amount of money spent on the space shuttle would have launched a Saturn-5 every six weeks from 1970 until the present time - about 200 launches. Compare 200 trips to the moon with the meager accomplishments of our current space bureaucrats and you have the picture.

In the years before Laurelee and I began to work on civil defense, I occasionally had the experience of thinking about the accomplishments of America's previous generations - including my father who built many fine chemical production plants. I would think of the great accomplishments of these millions of hard working and capable Americans and the wonderful country they had built - and I would think of the tragedy of the destruction of all that they had dreamed of and accomplished as a result of the empty-headed policies of those who now refuse to defend America.

These thoughts and the considerable emotional impact of this realization finally drove me to decide to try to help in some way with strategic and civil defense. I still have those thoughts, but they are less painful now, because we are actually working daily to try to do something about this problem.

There is a similar body of emotions and thoughts that arises from the contemplation of all that Americans could be accomplishing now were it not for the gaggle of self-serving politicians, international money moguls, bureaucrats, pseudoenvironmentalists, and others who have control of our country and are refusing to conduct our affairs in the best interests of the American people. Think of Lowell Wood, for example. He knows he can send us to Mars and beyond for very low cost - but they won't let him do it. He knows how to build the most important leg of our strategic defense, but they will not allow it.

This - the future that may never be - because of the dead hands of evil within our society, is probably an even greater loss than the accomplishments of the past which may cease to be. We must not let these losses occur!

At the DDP meeting I had the opportunity to introduce Lowell Wood. The following is that introduction which expresses this view in another way.

*The Founding Fathers of the United States feared government, but they feared certain aspects of human nature more. In particular, they feared the human tendency to make war, and that's one of the reasons that they grudgingly accepted a central government so that we could provide for the common defense.*

*There are some intellectuals today who argue against these principles. They think they are smarter than the Founding Fathers. I am often reminded of a dinner that John F. Kennedy, when he was President, gave for a large group of Nobel Prize winners. In his welcome, he told the group that he doubted that there had been so much brain power in that room since the time that Thomas Jefferson dined there alone.*

*We are fortunate that, regardless of the propaganda of many so-called "intellectuals", many patriotic scientists work on American defense. These include Lowell Wood who, with his coworkers, has made possible the Brilliant Pebbles program that we hope will be deployed in the defense of the United States.*

*Another aspect of human nature that the Founding Fathers feared - one that can be both positive and negative - is the desire of the people, both as a nation and as individuals, to be a part of a great enterprise. That may be one of the factors that drives people to make war.*

*President Kennedy understood this, too, and, as a way of guiding this emotion toward a peaceful purpose, he sent us to the moon.*

*Dr. Wood is remarkable not only in that he has made Brilliant Pebbles possible, but also in that he wants to send us to Mars - not in 30 years at a cost of \$300 billion, but in this decade at a price we can afford. Lowell Wood is thus not only contributing great things to our potential defense but may also have made it possible to harness our human nature in the next great enterprise that our country is able to accomplish.*

*We have been warned many times by our leaders of the importance of such enterprises to our national spirit. For example, in his last speech at the last dinner of his life before he was murdered in Texas, John F. Kennedy quoted the passages in Joel and Proverbs thusly:*

*"Your old men shall dream dreams; your young men shall see visions" and "Where there is no vision, the people perish."*

## STRATEGIC DEFENSE AND CIVIL DEFENSE

Fighting Chance advocates both civil and strategic defense. We work harder for civil defense, because that is our chosen duty. Other organizations work harder for strategic defense, and we support them fully. I have avoided comparisons between these two defenses, because Americans need both. The two technologies are complementary. Neither one will work optimally without the other.

It is important, however, that Americans not focus wholly on the high-tech elements of strategic defense in a false belief that those elements alone will protect them, and that civil defense is not needed. First, consider strategic defense alone. If the government were to deploy, for example, the Brilliant Pebbles space based defense, then this alone would increase American security. As a strategic defense, it would be a first step. Perhaps most importantly it would represent a change in mental attitude and a commitment to defend the nation.

If that commitment were made, then the Brilliant Pebbles system would be followed by other elements. We would deploy a ground-based strategic defense and an air defense against bombers. Early warning systems would again be built, and all of this technology would be continually upgraded by new technology as it is developed. The importance of the first deployment of strategic defense is that it would represent a national commitment to do the whole job and to keep the system modernized.

Even if all of this were done, however, civil defense would still be required. Civil defense would afford protection against leaks in the strategic defense system, but that is not its primary purpose. Civil defense is the only answer to threats that cannot be met by strategic defense.

In his famous August 2, 1939 letter to President Roosevelt which stimulated the American effort to build the atomic bomb, Albert Einstein discussed the possibilities of the new weapon including its delivery. He said: *"A single bomb of this type, carried by boat and exploded in a port, might very well destroy the whole port together with some of the surrounding territory. However, such bombs might very well prove to be too heavy for transportation by air."*

As we know the bombs turned out to be small enough for aircraft and now missile transport. A good strategic defense might, however, render the air and missile mode of transportation impractical. As Einstein realized, however, there are other ways. Missiles are uncertain things - especially the primitive missiles that might be available to a small country. Having only one (or a very few) nuclear weapons, delivery by boat would be much more certain. In addition to the methods of delivery by which nuclear weapons might avoid strategic defense, we should also consider biological weapons which are so small that

they could be smuggled in very small packages or even built within the target country itself.

We must build a strategic defense, because it would prevent delivery of weapons from a definite and known threat. We must build a civil defense, because there is no other way that we can protect ourselves from the many threats that cannot be prevented. Nuclear, chemical, and biological technology can be released by accident, terrorism, or war. The mass deaths that these events can cause may not be of concern to the gurus of the "New World Order" who prefer to manipulate unprotected Americans with fear, but they should be of concern to all thinking and morally motivated people everywhere.

## **FOOD STORAGE AND FEMA**

Three years ago, during one of my trips to the National Emergency Training Center, a civil defense speaker's kit developed by the Federal Emergency Management Agency (FEMA) was previewed. The kit was intended to provide information and colored slides to local speakers on behalf of civil defense throughout the country.

Some aspects of the kit needed improvement. In particular the slides depicting food and water storage for emergencies were unrealistic. They had been produced by someone who had no knowledge of the subject. When I objected to these slides, FEMA responded by initiating a program to develop a food and water brochure that would contain good information. It is typical that this effort required over three years. The remarkable thing is that they did it at all.

The contract for this brochure was given to an advertising company which had no guidance or experience governing the brochure's contents. The advertising company asked us for help, so we supplied most of the information in the brochure.

The initial draft then made its way through multiple layers of government bureaucracy in several agencies. Much of the information came through this review process without too much change and, fortunately, our long term food storage recommendation of 20 pounds wheat, 20 pounds corn, 10 pounds soybeans, 15 grams ascorbic acid, and 1 pound salt per adult per month was adopted without any change at all.

The final brochure is attractive, mostly accurate, and useful. Moreover, we can now say that our long term survival ration has been officially adopted as the long term ration recommended by the United States Government.

As described above, this adoption was largely by default, since no one else made a viable recommendation. Nevertheless, it is an excellent ration, the brochure is useful, and one small step forward has been made for American civil defense.

Instrumental in this step forward were certain bureaucrats within FEMA whose names will not be given here. Even anonymous mention of this brochure in a favorable light by

effective advocates of civil defense makes the work of these men a little harder and their next accomplishment a little slower.

Perverse as this may seem, it is true. Advances in civil defense are being made. Often, however, the principal efforts are stalled or failing. These efforts, however, breed numerous small opportunities wherein individuals of good will who actually are concerned for the welfare of the American people are able to get some things done.

The story, for example, of how the three-foot-high United States Federal Seal appeared on both sides of the mobile shelter display which has been in use at the National Emergency Training Center now for over three years, how the seal has survived, and how the display itself has survived for three years against the opposition of anti-civil-defense bureaucrats and politicians inside and outside of FEMA, is one that we shall certainly not tell as long as the display survives. (In deference to our friends, it is also a story that probably should not be told as long as certain effective individuals are still active in their current areas of employment. Some people have already suffered for their role in this.)

The bottom line is that many more people are being told to store wheat, corn, and soybeans (plus salt and Vitamin C) in ratios of 2:2:1. With this ration they get better nutrition, longer storage, and a reduction of about 10-fold in cost over the usual commercial "survival rations." This translates, in the same dollars expended, into a 10-fold increase in the amount of food stored.

## LAURELEE'S CHAPEL

Fighting Chance began as a family effort by Laurelee and me and our children. (The eldest was then 9 years old.) The effort was expanded by many generous people who provided financial resources and many people throughout the United States who have given freely of their time to help the work along in many ways. It has always been a volunteer effort.

Recently a group of Christian families who have made substantial efforts in support of civil defense did something very unusual that I have decided to describe in this newsletter.

After Laurelee died, the children and I decided to bury her on the highest hill on our farm where there is a beautiful view overlooking the valley in which we live. One of our goals has been to have a small chapel near the grave.

Knowing this, last summer two members of this group felled an appropriate number of fir trees on the nearby hills, a local farmer hauled them to the site, and their children and our children peeled the logs and left them to dry.

In the late fall, after the snows near their homes had already started to fall, twelve men drove over two thousand miles to Cave Junction, walked up on that hill and went to work. They built a beautiful log chapel. Then these twelve men drove two more thousand miles

largely through rain and snow to return home. Words are inadequate to express our feelings about this extraordinary gift to Laurelee's memory by these families of farmers, loggers, and carpenters from the Midwest.

The photo shows the chapel just after it was completed. From one of the two road approaches to the farm, it is possible to see the chapel through the trees from a distance of about two miles. We have now had to alter our driving habits, since Matthew (now 4 and one-half years old) always insists that we come home "the other way" so that he can see the chapel.



Neither the elegance of our churches nor the nature of our graves are important to the relations of the living or the dead to God. Both, however, have a place in the minds and hearts of people that must be filled.

We are very grateful to these unusual people for this extraordinary gift.